

Sheet1

| PIE | Gloss | Cognates | Notes | Gram. Form | Related Forms | Semantic Domain | Source |
|---------------------------------------|-------------------|--|---|--|---|-----------------|-----------------------|
| *-k ^w e | and | Olr na-ch 'not' Lat -que 'and' Goth -h Mycenaeen Grk -qe Grk te 'and' Arm -k 'and' Hit -ki 'and' Skt ca 'and' | | | | Conjunctions | JPM |
| *-wē | or | Olr nō Lat -ve Grk ē-(w)é Skt vā Toch B wat | | | | Conjunctions | JPM |
| *-yo | and | Myc jo- 'and' Hit -ya- 'and' Toch A -yo 'with' | | | | Conjunctions | JPM |
| *(d)km̥tóm | 100 (one-)hundred | Olr cēt Lat centum NEhundred Lith šim~tas OCS sūto Grk hekatón Av satəm Skt śatām Toch B kante | {1} A derivative of *dek'm 'ten'. | | 'a hunderd cows': Skt. śata-gv-ín- [adj] 'consisting of a hundred cows' (RV) — OP θata-gu- [m] 'Sattagydia' — Gr. ἐκατόμβη [f] 'great sacrifice' (< *-gwu-eh₂-)) 'lord over a hundred, centurio': Skt. śatá-pati- [m] (TB) — Elam.-OP *θata-pati- [m] | Numbers | JPM Beekes IIAL |
| *(d)ui-d ^h h₁- | put in two | | {1} [AL] The augment is always scanned long in the RV, which points to the Ilr. reconstruction *Ha-Hui-dhH-a-, cf. Lubotsky 1994a. The aorist ávidhat originally supplied the aorist for the root dāś, cf. Garcia Ramón XXX. {2} The root is due to the univerbation of the preverb ví and dhā (cf. Hoffmann 1969 = Hoffmann 1975: 241). The aorist stem is primary. | Present VI<VII: vindháte [3sg.med.] (RV) (secondary present stem based on the aorist stem vidh-á-) Aorist A: ávidhat [3sg.act.] (RV, YV) {1} | | | IIAL |
| *(d ^h) ḡ ^h yes | yesterday | Olr indē Lat herī NE yester- Alb dje Grk khthés Av zyō Skt hyá- | | | | Time | JPM |
| *(h₁)seuio- | left, left hand | | {1} [AL] The laryngeal is based on the assumption that the word is derived from the adverb *h₁su 'well', being an old taboo replacement. For the different words for 'left' in Indo-European see Beekes 1994. | | | | IIAL |

Sheet1

| | | | | | | | |
|------------------|------------------|--|--|--|--|---------|--------------|
| *(h₁)su- | good | OIr so- 'good' OCS sū-dravŭ 'healthy' Grk hu-giēs 'healthy', eu- 'good' Av hu- 'good' Skt su- 'good' Toch B saswe 'lord' [< *h₁su-suh□ó- 'well-born'] | {1} Most probably, a derivative of *h₁es- 'to be'. | | 'well-made': Skt. sú-kr̥ta- [adj] (RV+) — OAv. hū.kər̥ata-, YAv. hu-kər̥ata- [adj] 'with good mental power': Skt. su-krātu- [adj] (RV+) — Av. hu-xratu- [adj] 'of good dominion': Skt. su-ksatrá- [adj] (RV+) — Av. hu-xšaθra- [adj] — Elam.-OP (Med.) *hu-xšaθra- PN 'generous': Skt. su-dānu- [adj] (RV+) — Av. hu-dānu- [adj] 'well-treated': Skt. sú-bhr̥ta- [adj] (RV+) — YAv. hu-bər̥ata- [adj], OP ubrt- /u-br̥ta-/ [adj] 'of good mind': Skt. su-mānas- [adj] (RV+) — YAv. hu-manah- [adj] 'with fighting spirit' — Gr. (Myc.) /Eumenēs/ PN, εὐ-μενής [adj] 'well-disposed, favourable' 'famous': Skt. su-śrávas- [adj] (RV+) — Elam.-OP *u-ṣauṣah- PN, (Med.) *hu-srauṣah- PN, MP hu-sraw [adj] 'famous' — Gr. εὐ-κλεής [adj] (< *h₁su-kleues-) 'well-spoken': Skt. sūktá- [adj] (RV+) — Av. hūxta- [adj] 'of good work': Skt. sv-āpas- [adj] (RV+) — Av. huuāpah-, YAv. huuapah- [adj], Sogd. (Man.) xwp [adj] 'good', MP xub [adj] 'id.' 'having good horses': Skt. sv-ášva- [adj] (RV) — YAv. huu-aspa- [adj] — OP uv-aspa- [adj] | Values | JPM IIAL |
| *(h₁)uper(i) | over, above | | | | | | IIAL |
| *(h₁)upo | under | | | | | | IIAL |
| *(h₁)yēro/eh□- | year, new season | Lat hōrnus 'of this year' NE year OCS jara 'spring' Grk hōĩos 'time, year' Luv āra/i- 'time' Av yāre 'year' | {1} Based on *pari-yāram 'a year long'. | | | Time | JPM IIAL |
| *(h₂)wer- | ± attach | Lith vérti 'thread a needle' Rus verátī 'prick' Alb vjerr 'hang up' ?Grk aeirō 'attach' | | | | Binding | JPM |
| *(h₂/s)wobʰséh□- | wasp | MWels gw(y)chi 'drones' talic Lat vespa OPrus wobse OCS osa MPers vaβz- | From the verbal root *h₂s/3webh- 'weave' | | | Bug | JPM Celt. |

Sheet1

| | | | | | | | |
|-------------------------------|------------------------|---|---|---|--|--------------|--------|
| * $(h_2u-)b^hoh_1$ | both | | | [du.m.] ubhǎ, ubháu (RV+) [du.f.] ubhé (RV+) | | | IIAL |
| * $(h_3)b^hi$ | towards | | | | | | Beekes |
| * $(h\Box)mauros$ | dark | Rus (s)muryj 'dark grey' Grk amaurós 'dim, faint' | West Central | | | Light & Dark | JPM |
| * $(h\Box)merh\Box g^w-$ | dark | ON myrkr 'darkness' [which was borrowed as NE murk] Lith márgas 'variegated' Alb murg 'black' Grk amorbós 'dark' | West Central | | | Light & Dark | JPM |
| * $(h\Box)wiselo-$ | weasel | Nlr fial 'ferret' NE weasel Grk aiélouros ?? | North-Western | | | Fauna | JPM |
| * $(h\Box)ieu-$ | bearded wheat, perhaps | | | | | | Beekes |
| * $(h\Box)io-$ | who, which | | {1} [AL] The initial laryngeal is not quite certain. It is based on the Greek aspiration (if it reflects * h_i-) and on the possible derivation of this pronoun from the pronoun * h_1e / h_1i- (see s.v. ay- [2], a- [2]). | yáh [nom.sg.m.] (RV+) yǎ [nom.sg.f.] (RV+) yát [nom.sg.n.] (RV+) yám [acc.sg.m.] (RV+) yásmāi [dat.sg.m.n.] (RV+) etc. | 'whoever, whichever': Skt. yá- ca (RV+) — Av. ya- cǎ 'whoever, whichever': Skt. yáh kás cit (RV+) — OAv. yahmāi ... kahmāicīt_ | | IIAL |
| * $(h\Box)mei-s-$ | close the eyes | | {1} extension of IE root *(H)mei-. {2}[AL] MoHG miseln 'to rain lightly' is hardly cognate. Janda 1998: 18ff. argues that the original meaning of the uncompounded root miš- is 'to close the eyes, to blink', which is a distinctive possibility. He further suggests an assimilation *ni-muš- ('to close', see s.v. mušti-) > ni-miš-. I would rather assume contamination of two roots, viz. * $h_1meigh-$ 'close the eyes, blink' (Lith. miegōti 'sleep', SCr. mīgati 'blink, twinkle, move', etc.) and meus- 'close the mouth'. | Present VI: mišāti [3sg.act.] (RV) Aorist RED: amīmišat (Up.) | | | IIAL |
| * $(h\Box)nd^hero-$ | lower | | | | | | IIAL |
| * $(h\Box)nd^hes$ | below | | | | | | IIAL |
| * $(h\Box)nd^h\Box mh\Box o-$ | lowest | | | | | | IIAL |
| * $(h\Box)neid-$ | insult | Goth ga-naitjan 'treat shamefully' Lith nīedėti 'despise' Grk oneidízō 'revile' Arm anēc 'curse' Av naēd- 'insult' Skt nīndati 'insults' | | | | Love & Hate | JPM |

Sheet1

| | | | | | | | |
|------------------------------|----------------|---|---|--|---|-----------------|---------------|
| *(h□)rōs- | dew, moisture | Lat rōš 'dew' Lith rasà 'dew' Rus rosá'dew' Alb resh 'it is precipitating' Skt rása- 'sap, juice | underlies a number of river names in Indo-Iranian, including the mythical world river of the ancient Indians (Rasā) {1} Originally, a root noun. The Greek name of Volga 'Pō presumably comes from Iranian. | | | Water | JPM IIAL |
| *(k)(s)weks | 6 six | Av xšvaš *kseks >> Lith šeši OCS šestī dialectal Grk kséstriks krithē'six-rowed barley' Skt śaś *(s)weks >> Olr sē NWels chwech Grk héks (dialectal Grk wéks) Arm vec *seks >> Lat sex NE six Alb gjashtë ?Toch B škas *weks >> Grk héks Arm vec' | The complex, and otherwise unexampled, initial consonant cluster *ksw- has suggested to several investigators that we may be looking at a word that was originally borrowed from some non-Indo-European source. Foreign parallels to the Proto-Indo-European forms have been noted since the time of Franz Bopp who compared the Proto-Indo-European form with Proto-Kartvelian (a language group of the Caucasus composed of Georgian and closely related languages) *ekšw- 'six' other comparisons are Hurrian (an extinct language of eastern Anatolia) šeēze, Akkadian ši/eššum (the form used to modify deWnite feminine nouns) 'six'. These are variously explained as borrowing into or from (in the Kartvelian case) Proto-Indo-European. However, with the exception of the Kartvelian forms, the proposed models for the Proto-Indo-European word are only vaguely similar phonetically and there is no good reason why a foreign š- or the like should generate a Proto-Indo-European*ksw- One might also note that the | sāt [nom.sg.] (RV+) šaḍbhīḥ [instr.pl.] (RV+) šaṇṇām [gen.pl.] (AVP+) saṭsú [loc.pl.] (KS+) | 'Dāsa/Dahāka with six eyes': Skt. dāsa-... śalakṣā- (RV 10.099.06) — YAv. dahākəm ... xšuuas.ašīm (Y 9.8) 'six months old, taking six months': Skt. śaṇ-māsyā- (ŚB+) — YAv. xšuuas.māhiia- | Numbers | JPM IIAL |
| *(k)(s)weks-komt(h□ 60 sixty | | Olr sesca Lat sexāgintā Grk ekseskonta Arm vat'sun Toch B škaska | | | | Numbers | JPM |
| *(k)sweid- | milk | Lith sviestas 'butter' Av xšvīd- 'milk' | | ? | | Meals | JPM |
| *(nh.)-we | we both | | | older nom. vām (RV 06.055.01), acc. āvām (Br.+) (sometimes also nom.), instr. āvām | | | IIAL |
| *(ni-)mno- | downwards | | | | | | IIAL |
| *(p)kórmos | ± grief, shame | NE harm Rus sórom 'shame' Av fšarəma- 'shame' | The questionable ascription of *(p)kórmos to Proto-Indo-European rests on a Germanic-Slavic-Iranian isogloss | ? | | Health&Sickness | JPM |
| *(s-)h. upér(i) | over | Olr for- 'over' Lat super 'over' NE over Grk hupér 'over beyond' Av upairi 'over' Skt upāri 'over' | | | | Position | JPM Beekes |
| *(s)b ^h ond-neh□ | strap sling | Lat funda 'sling' Grk sphendónē 'sling' | West Central from *bhendh- 'bind' | | | Textiles | JPM |

Sheet1

| | | | | | | | |
|-------------------------------|----------------|--|-----------------------------------|---|--|----------------------|-----|
| * (s) greb ^h - | scratch, cut | NE carve ON skrapa > NE scrape OPrus gīrbīn 'number' OCS žrēbŭ 'lot' Grk gráphō 'scratch' | West Central | | | Reductive Activities | JPM |
| * (s) greh□b ^(h) - | hornbeam | Umb Grabovius 'oak god' OPrus wosi-grabis 'spindle-tree' Lith skrōblas 'hornbeam' Rus grab 'hornbeam' Modern Grk grabúna 'hornbeam' Lat carpīnus 'hornbeam' | | | | Trees | JPM |
| * (s) kamb- | curve | Oldr camm 'curve' Grk skambós 'curve' | West Central | | | Shape | JPM |
| * (s) kand- | moon | Alb hēnē 'moon' Skt cándra- 'moon' | from the verb * (s) kand- 'shine' | | | Air | JPM |
| * (s) kand- | shine, glitter | NWels cann 'white, bright' Lat candeō 'glitter, shine' Skt cándati 'shines, is bright' Alb hēnē Skt candrá- 'shining; moon' Grk kándaros 'coal' [< presumably from * 'glowing'] Lat candidātus 'candidate for office' because of the white toga which was worn | | | | Light & Dark | JPM |
| * (s) ked- | scatter | NE scatter Lith kedé 'ti 'burst' Grk skídnēmi 'scatter, strew, sprinkle' Toch AB kátnā- 'scatter, strew, sow' | | | | Throw | JPM |
| * (s) kégos | sheep/goat | NE sheep OE hēcen 'kid' Oss sæw 'she-goat' Skt chāga- 'he-goat' | | ? | | Fauna | JPM |
| * (s) keh·w(e)r- | north wind | NE shower Lat caurus 'north wind' Lith šíáure 'north wind' šíúras 'cold, northern' OCS séverŭ 'north' Arm c'urt 'cold shower' | | | | Air | JPM |
| * (s) kel- | crooked | OE scēolh 'crooked' OPrus culczi 'thigh' Bulg kúlka 'thigh' Alb c.alē 'lame' Grk skélos 'thigh' | West Central | | | Shape | JPM |

Sheet1

| | | | | | | | |
|--------------------------------------|-----------------------------|--|--|---|--|---|-------------|
| *(s)kel- | split (apart), cut | Grk skállō 'hoe, stir up' Arm skalim 'split, be splintered' Hit iskalla- 'slit, slash, tear' Mlr scoiltid 'chips' Lith skeliū 'chip' ON skil 'distinction' | | | | Reductive Activities | JPM |
| *(s)keng- | crooked | Olř scingim 'spring' ON skakkr 'skewed, distorted' OHG hinken 'go lame' Grk skázō 'limp, go lame' Skt khāñjati 'limps' | | | | Shape | JPM |
| *(s)keng- | limp | OHG hinkan 'limp' Grk skázō 'limp' Skt kañj- 'limp' | | | | Health&Sickness | JPM |
| *(s)ker- | cut apart, cut off | Hit karsmi 'cut off, castrate' Olř scaraid 'separates, divides' NE shear Lith skiriū 'separate, divide' Rus krojū 'cut' Alb shqerr 'tear apart' Grk keirō 'cut' Arm k'erem 'scrape off, scratch off' Skt kṛṇā ti 'wounds, kills' | | | | Reductive Activities | JPM |
| *(s)ker-men- | flayed skin | | {1} Attested is OP čarmā 'on leather, on parchment'. | | | | IIAL |
| *(s)kerb- (s)kerb ^h - | shrink, shrivel; waste-away | ON skorpna 'shrivel' Lith skur̃bti 'suffer a decline, wither; mourn' Rus skórblyj 'shrivelled' Grk kárphō 'let shrivel, dry out' | | | | Health&Sickness Reductive Activities | JPM |
| *(s)kerb ^h - *(s)kert- | shrink, shrivel cut | Lith kertū 'hew' Arm k'ert'em 'skin' Hit kartai- 'cut off' Av kərəntaiti 'cuts' Skt kṛntā ti 'cuts' ON skor 'notch' i.e. 'what has been cut' | West Central Extended from *(s)ker- | Present VI<VII: kr̃ntāti [3sg.act.] (RV+) Aorist A: ákr̃tas [2sg.act.] (RV) kartīṣ [2sg.inj.act.] (Br., Sū.) Perfect: cakarta [3sg.act.] (RV+) Fut: kartsy° (AV) Abs: vikṛīya (RV) TA-Ptc.: kṛtā- (RV+) | | Reductive Activities | JPM IIAL |
| *(s)keu(h□)- | cover, wrap | Lat ob-scūrus 'dark, obscure', i.e. 'covered' Skt skunāti 'covers' NE hide (derived from this root with a t-extension) Grk skúlos 'pelt, skin' Grk skúlos 'leather' | | | | Motion | JPM |

Sheet1

| | | | | | | | |
|-----------------------|----------------|---|--|--|--|-------|------|
| *(s)keub ^h | make beautiful | | {1} [AL] Since the root structure T...Dh is impossible in PIE, we must assume a root with s-mobile. It is therefore attractive to connect our root with PIE *(s)keu(h-) (Gr. κοέω [verb] 'to notice', OHG scouwōn [verb] 'to look at', Go. skauns [adj] 'beautiful', see s.v. kavi). For the phonetic and semantic sides of this etymology see Lubotsky 2001a: 51. | Present I: sóbhate [3sg.med.] (RV+) Present VII: śúmbhāna- [ptc.med.] 'purifying (his own body / himself)' (RV 08.044.12) Present VI<VII: śúmbhāti [3sg.act.] 'to beautify, to make beautiful' (RV) Present I<VII: śúmbhate [3sg.med.] 'to adorn oneself' (RV+), śúmbhati [3sg.act.] 'to purify' (AV+) Present AYA: śubháyā 'to be beautiful, splendid' (RV) Caus: śobhay° (AV+) | | | IIAL |
| *(s)keud- | throw, shoot | NE shoot Rus kidátī 'throw' Alb hedh 'throw' Skt cōdati 'incites' Toch B kaume 'shoot of a plant' | | | | Throw | JPM |

Sheet1

| | | | | | | | |
|-------------------------|-----------------------|---|---|---|--|-------|------|
| *(s)keud ^h | purify | | <p>{1} [LK] Built on the quasi-root śundh extracted from the nasal infixed present see Jamison 1983: 158, Kulikov 2001: 470f.</p> <p>{2} [AL] Since the root structure T...Dh is impossible in PIE, we must assume a root with s-mobile. It is therefore attractive to connect our root with PIE *(s)keu(h)- (Gr. κοέω [verb] 'to notice', OHG scouwōn [verb] 'to look at', Go. skauns [adj] 'beautiful', see s.v. kavi). For the phonetic and semantic sides of this etymology see Lubotsky 2001a: 51.</p> | <p>Present I<VII: śundhati [3sg.act.] 'cleanses' (RV 10.085.35), śundhata [2pl.impv.act.] (RV 10.017.14), YVm+</p> <p>Present IV: śudhyatu [3sg.impv.act.] 'let it become clean' (VS+), śudhyate [3sg.med.] 'becomes clean' (SB+)</p> <p>Caus {1}: śundhayantu [3pl.impv.act.] (RV 10.017.10) TA-Ptc.: śuddhá- 'purified, pure, clean' (RV+)</p> | | | IIAL |
| *(s)keuh ₁ - | perceive see, seer | <p>Lyd kaweś 'priest' Av kavā 'seer' Skt kavi- 'wise, seer' Extended: NE hear Grk akoúō 'hear' Lat custōs 'watchman' NE show Arm c'uc'anem 'show' Lat caveō 'take heed' OE hāwian 'look at' OCS čujō 'note' Grk koéō 'note'</p> | | | | Sight | JPM |

Sheet1

| | | | | | | | |
|----------------|---------------|--|---|--|--|--------------------|------|
| *(s)keuk | shine | | {1} [AL] For the phonetic and semantic sides of this etymology see Lubotsky 2001a: 51. | Present I: sócanti [3pl.act.] (RV+) Present IV: śúcyaṭi [3sg.act.] (Br.) Aorist A: aśucat [3sg.act.] (RV+) Aorist S: śocīṭh [2sg.inj.act.] (VS) Aorist mediopass: śāsoci (RV) Perfect: śuśóca [3sg.act.] (RV, ŚB), śuśucāná- [ptc.med.] (RV) Intensive: śóśucan [3pl.inj.act.] (RV+), śóśucāna- [ptc.med.] (RV+) Caus: śócáy° (RV+) Inf: śucádhyai (RV) | | | IIAL |
| *(s)keup- | bundle | NE sheaf Rus čup 'tuft head of hair, crest' | North-West | | | Measure & Quantity | JPM |
| *(s)koitrós | bright, clear | OĒhādor 'clear' Lith skaidrūs 'bright, clear [of weather], limpid [of water]' Av čiθra- 'clear' Skt citrá- 'excellent, bright' | Indo-Iranian may all derive from an otherwise unattested noun *(s)kóit-. | | | Light & Dark | JPM |
| *(s)koli- | young dog | Lith kále 'bitch' Alb këlysh 'young dog' Grk skúlaks 'young dog young animal' | | | | Fauna | JPM |
| *(s)kolmo/eh□- | boat | OHG skalm Toch B kolmo | Derived from *(s)kel- 'cut' | | | Transport | JPM |
| *(s)kōlos | stake | Grk skōlos 'pointed stake' | from *(s)kel- 'strike, hew' | | | Construction | JPM |
| *(s)kou-no- | luminous | | {1} [AL] The cerebral nasal is unexpected and may point to borrowing, which makes the etymology doubtful. See further s.v. śobh. {2} [AL] The possible cognates mentioned by Mayrhofer are most probably unrelated: ToA kom, ToB kaum 'day, sun' is a loanword from Turkic (Lubotsky - Starostin 2003: 257f.) MW cun 'noble, fine' must rather be connected with OIr. cúanna 'dear, fine' and derived from *kupnos (Schrijver 1995: 348). | | | | IIAL |

Sheet1

| | | | | | | | |
|---------------------------|-------------------|---|--|------------------|--|--------------|------|
| *(s)ku(n)t- | shake, jolt | NE shudder Lith kuntù 'recover, get better' [i.e. 'shake something off'] OCS skytati sę 'wander' | North-West | | | Motion | JPM |
| *(s)kub ^h -ró- | clean, beautiful | | {1} [AL] Since the root structure T...Dh is impossible in PIE, we must assume a root with s-mobile. For the phonetic and semantic sides of this etymology see Lubotsky 2001a: 51. {2} [AL] Most probably an Iranian LW. | | | | IIAL |
| *(s)kúp- | shoulder | MLG schuft 'shoulder blade of cow or horse' Alb sup 'shoulder' Av supti- 'shoulder' Skt śúpti- 'shoulder' | | | | Body (Upper) | JPM |
| *(s)kúp-ti- | shoulder, withers | | {1} [AL] Since the s-mobile is only attested in Germanic, it is attractive to assume that it is due to the influence of the word for 'shoulder'. Difficult | śúptau [loc.sg.] | | | IIAL |
| *(s)k*álos | sheatfish, wels | NE whale OPrus skalis 'sheatfish' Grk áspalos 'fish' Av kara- 'a kind of fish' | | | | Fish | JPM |
| *(s)k*éh□tis | skin, hide | NWels es-gid 'shoe' [< 'foot-hide'] NE hide Lith kiáutis 'skin' Grk skuŕtos 'skin, leather, hide' Toch A kác 'skin' | | | | Body (Upper) | JPM |

Sheet1

| | | | | | | |
|-------------------------|-------------------------|--|---|--|---|-----|
| * (s)k ^w ei- | consider, appear | | <p>{1} [AL] Mayrhofer, following Gotō 1987: 137ff. distinguishes cet [1] 'to consider' and cet [2] 'to appear, to shine'. The semantic distinction is clearly artificial (cf. German scheinen), whereas the lack of labialization in the Germanic cognates is probably due to the loss of the labial feature in front of o in this branch.</p> <p>{2} [LK] See Kümmel 2000: 174ff.</p> <p>{3} Translations 'appearance' or 'splendour', given for the Rgvedic attestations by some scholars are less plausible, but not impossible.</p> <p>{4} [AL] For this form cf. recently Jasanoff 1997.</p> | <p>Present I: cétati [3sg.act.] (RV+)</p> <p>Present AYA: citáyante [3pl.med.] (RV+), citáyant- [ptc.act.] (RV+)</p> <p>Aorist mediopass: áceti [3sg.], cēti [3sg.inj.] 'has/is appeared, has/is shown (oneself)' (RV)</p> <p>Aorist S (< Aorist R): acait [3sg.act.] 'has perceived' (RV 06.044.07)</p> <p>Aorist R: cītāna- [ptc.med.] 'making oneself perceptible, drawing attention to oneself' (RV 09.101.11)</p> <p>Perfect: cikéta [3sg.act.], ciketa [3sg.act.], cikitváms- / cikitús- [ptc.act.] 'to see, pay attention, respect' (RV+), cikité [3sg.med.] 'to appear, show (oneself) be known' (RV-YVm) {2}</p> | to appear in (his/her/its/their) greatness': Skt. mahinā cikitré (R ¹ IIAL | |
| * (s)lag ^w - | take, hold | NE latch Grk lázomai 'take, hold' | West Central | | Give & Take | JPM |
| * (s)lei- | sticky, slimy, slippery | <p>Olr as-lena 'pollute'</p> <p>Lat linō 'anoint'</p> <p>OCS slina 'spit'</p> <p>Grk alinō 'anoint'</p> <p>Olr slemon 'slippery, slick, polished'</p> <p>Lat līmus 'mud', līmax 'slug'</p> <p>NE slime</p> <p>Rus slímák 'slug'</p> <p>Grk leímaks 'slug, snail'</p> <p>NHG bleiben 'remain, stay'</p> <p>Lith līpti 'stick, be sticky'</p> <p>OCS pri-līpjo 'stick on/to'</p> <p>Skt limpāti 'smears'</p> <p>Toch A lip- 'remain'</p> | | | Qualities | JPM |

Sheet1

| | | | | | | | |
|-----------------------------|------------------------------|---|---|--|--|--------------------|-----|
| *(s)lei- | tench | Lith lŷnis Rus linĭ Grk lineús 'blemy' ? OE slīw 'mullet' | Built on the root of the same shape meaning 'slimy' | | | Fish | JPM |
| *(s)leid ^h - | slide | NE slide Lith sly stu 'slide, slip' OCS slědŭ 'track [in the grass]' Grk olisthaínō 'slip' Skt srédhati 'fails, errs' < *slides off?' | | | | Crawl, Slide, Fall | JPM |
| *(s)m(e)ug ^(h) - | smoke | NE smoke Grk smŭkhō 'burn in a smouldering fire' Arm mux 'smoke' | | | | Fire | JPM |
| *(s)me(-th□) | middle, among | OE mid 'with' Alb me 'with' Grk metá 'with, among' Av mat '(together) with' Skt smat 'with' | | | | Position | JPM |
| *(s)mel- | deceive | Lith mēlas 'lie' Arm mel 'sin' Av mairya- 'deceitful' Toch A smale 'lie' | | | | Values | JPM |
| *(s)mel- | give off light smoke, smould | Middle Irish smā l NE smoulder, smell Lith smilėkti 'give off light dust or smoke' Sorbian smaliś'singe' | | | | Fire | JPM |
| *(s)meld- | melt | NE melt Grk méldomai 'melt' | | | | Fire | JPM |

Sheet1

| | | | | | | | |
|----------|------------------------|---|--|--|--|---------------------|-----|
| *(s)mer- | remember, be concerned | <p>NE mourn</p> <p>Lith meré 'ti 'worry about'</p> <p>Grk mérimna 'thought, care, anxiety', mártus 'witness' [>NE martyr]</p> <p>Av maraiti 'observes'</p> <p>Skt smárati 'remembers, longs for' reduplicated in</p> <p>Lat memoria 'remembrance'</p> <p>OE mimorian 'remember'</p> <p>Arm mormok 'care'</p> | | <p>Present I: smárāthas [2du.subj.act.] (RV 10.106.09), smarethām [2du.impv.med.] (RV 07.104.07), smāranti [3pl.act.] (RV-Kh., AV+)</p> <p>Perfect: sasmara [1sg.act.] (AVP 5.11.7)</p> <p>Passive: smaryāte [3sg.] (TĀm, DhSū.+)</p> <p>TA-Ptc.: smr̥ta-(Sū.+)</p> <p>ā-smr̥ta-dhrut- 'with whom no deception can be remembered' (RV 10.061.04)</p> | | Knowledge & Thought | JPM |
|----------|------------------------|---|--|--|--|---------------------|-----|

Sheet1

| | | | | | | |
|-------------|--|--|---|--|-----------|------|
| *(s)meuk | brush, take off (of bridles, bindings, clothes and snot) | {1} [LK] With the secondary suffix accentuation (see Kulikov 1998). {2} Secondary present, probably based on the desiderative stem (Gotō 1987: 246, fn. 547). | Present VI<VII: muñcāmi [1sg.act.] (RV+) Present IV: múcyate [3sg.med.] (RV+), mucyáte [3sg.med.] (AV, ŚB) {1} Present I: mókṣamāṇa- [ptc.med.] (KSp- MSp) {2} Aorist R: ámugdhvam [2pl.med.] (RV) Aorist A: ámucaṭ [3sg.act.] (RV+) Aorist S: muṣṣata [3pl.inj.med.] (RV+) Perfect: mumucmáhe [1pl.med.] (RV+), mumucaḥ [2sg.inj.act.] (RV), múmocati [3sg.subj.act.] (RV 08.018.12), mumóca [3sg.act.] (TĀm, ŚB+) Fut: mokṣyati [3sg.act.] (AVP+) Desid: múmuṣamāṇa- | | | IIAL |
| *(s)meuk/g- | slick, slippery | Olr mocht 'soft, tender' Lat mungō 'blow the nose' ON mjūkr 'soft, malleable' Grk mússomai 'blow the nose' Lat mūcus 'mucus' Lith mūkti 'slip away from' Skt muñcāti 'looses, frees' Toch B mauk- 'to let go' | West Central | | Qualities | JPM |

Sheet1

| | | | | | | | |
|-------------------------|----------------------------|---|--|--|--|--------------------|--------|
| * (s) meuk / g - | slip | OE smūgan 'slide, slip' Lith munkù 'slip away from' Lat ē-mungō 'blow, wipe one's nose' Grk apomússō 'blow, wipe one's nose' Skt muñcāti indicates 'lets loose, frees' OCS mŭčati 'chase' Toch B māk- 'run' | | | | Crawl, Slide, Fall | JPM |
| * (s) neh . (i) - | twist fibres into thread | MLr snīd 'twists, binds' Lat neō 'spin' OHG nā(w)en 'sew, stitch' Latv snāju 'twist loosely together, spin' Grk néō 'spin' with the suffix *-teh□- : NE snood OIr snāth 'thread' Latv snāte 'linen shawl, cape' NE needle < * (s) neh□(i)-tleh□- | | | | Textiles | JPM |
| * (s) ner - | fasten with thread or cord | Lith neriū 'thread (a needle)', Toch B ñare 'thread' OE snēr 'harpstring bind close together'> NE narrow | | | | Textiles | JPM |
| * (s) nh . (e) u | without | | | | | | Beekes |
| * (s) nh . i | without | | | | | | Beekes |
| * (s) p (e) iko / eh□ - | bird, woodpecker | Lat pīcus 'woodpecker' Lat pīca 'jay magpie' OHG speh 'woodpecker' Skt pikā- | | | | Bird | JPM |

Sheet1

| | | | | | | |
|------------|-------------------|--|--|---|---|-------------|
| * (s)pek- | observe see | Lat speciō 'see' OHG spehōn 'spy' Grk sképtomai 'look at' Av spasyeiti 'spies' Skt páśyati 'sees' Toch AB pāk- 'intend' | {1} Synchronically distinct from, but genetically related to the root variant spaś- (see Jamison 1983: 167, Kümmel 2000: 586f.). {2} [LK] According to Kümmel 2000: 586, fn. 1261, the interpretation of this form as a sigmatic aorist is supported by its durative meaning. {3} Gr. σκοπός replaces IE *spek'-s. | Present IV: páśyati [3sg.act.] (RV+) Aorist R/Aorist S {2}: áspaṣta [3sg.aor.med.] (RV 01.010.02) Perfect: paspaśé [3sg.med.] 'to look at, to guard, to notice' (RV) Caus: spāśáyasva [2sg.impv.med.] 'to make visible, spied out' (RV 01.176.03) TA-Ptc.: ánu-spaṣta- 'guarded' (RV 10.160.04), spaṣtá- 'clearly perceived, clear, visible' (TSp+) | Sun, the spy': Skt. súryam ... spāśai Sight | JPM IIAL |
| * (s)pel- | say aloud, recite | NE spell Alb fjalē 'tale' (also 'word, statement') Arm aṛa-spel 'saying, riddle' Latv pelī 'revile, slander' Grk apeilēō 'hold out in promise or in threat' Toch AB pāl- 'praise' | | | Formal Speech & Song | JPM |
| * (s)pel- | tear off, split | Skt phālati 'bursts, splits in two', phā la- 'ploughshare' (< *'splitter') | | | Reductive Activities | JPM |
| * (s)pelt- | split | OHG spalten OCS ras-platiti Skt sphātati Skt pātati 'splits apart, bursts' NE split | | | Reductive Activities | JPM |
| * (s)pen- | draw, spin | NE spin Lith pinù 'weave' OCS pīnŏ 'tighten, strain' Alb pe 'thread' Grk pénomai 'toil [at household tasks]' Arm hanum □ henum 'weave' Toch B pānn- 'draw [out], stretch' | | | Textiles | JPM |

Sheet1

| | | | | | | | |
|------------------------------|--------------------|--|--------------|---|--|--------------|-----|
| * (s)peud- | push, repulse | Lat pudet 'shames', 'casting off divorce' Lith spáudiu 'press, squeeze' Alb punē 'work' Grk speúdō 'urge on, hasten' Arm p'oyt' 'zeal' NPers poy 'haste, speed' | | | | Conflict | JPM |
| * (s)pingo- | finch | NE finch Grk spíggos Skt phingaka 'shrike' ? | | | | Bird | JPM |
| * (s)plend- | shine | Olr lēs 'light' Lat splendeō 'shine, glitter' Lith spléndžiu 'light' Toch plāntā- 'rejoice, be glad' as cognate, i.e. 'be shining' | | ? | | Light & Dark | JPM |
| * (s)pond ^h (n)os | wooden vessel | ON spann 'pail' Lith spandis 'pail' OCS spōdŭ 'measure [of grain]' Arm p'und 'pot' | West Central | | | Containers | JPM |
| * (s)pornóm | wing, feather | NE fern Lith spařnas 'wing' Av parəna- 'feather' Skt parṇā- 'feather' OCS pero 'feather' Toch B parwa [pl.] 'feathers' | | | | Body (Upper) | JPM |
| * (s)pre(n)g- | wrap up, constrict | Greek spārgō 'swaddle' Lith springstŭ 'choke, become choked or constricted' MHG phrengen 'oppress' Toch AB prāñk- 'restrain oneself, hold back' | | | | Motion | JPM |
| * (s)preg- | speak | NE speak Alb shpreg 'express, voice, utter' | West Central | | | Speech | JPM |

Sheet1

| | | | | | | | |
|----------------|------------------|--|--|--|--|-----------------|------|
| *{s)preus(h□)- | sprinkle | | {1} Nonce formation, perhaps class VI present (see Joachim 1978: 112f.). | Present V: pruṣṇuvānti [3pl.act.] (RV), pruṣṇute [3sg.med.] (RV) Present IX: pruṣṇā° (YV) Present IV: vy- āpruṣyat (ŚB 4.5.10.4) Present ĀYÁ: pruṣāyā° (RV) Aorist A: pruṣā [1sg.subj.act.] (RV 10.077.01) {1} Fut: proṣiṣyánt- [ptc.act.] (KS+) TA-Ptc.: pruṣitá- 'sprinkled' (RV) | | | IIAL |
| *(s)prḥ□g- | crackle, sputter | Grk spharagéomai ON spraka Lith spragė'ti Skt sphũ rjati 'thunders' | | | | Human Sounds | JPM |
| *(s)py(e)uh□- | spew, spit | Lat spuō 'spit' NE spew NE spit Lith spíauju 'spew' OCS pljujō 'spew' Grk ptúō 'spit out, disgorge' Skt ṣṭhīvatī 'spews' | | | | Vital Functions | JPM |
| *(s)reg | paint, dye | | {1} [AL] Jamison 1983: 151 suggests to read +rājaya, but since the same form is attested in the AVP and since the cadence of the uneven pādas in the AV anuṣṭubh is irregular, the emendation is unlikely (cf. also rajayitrī- [f] 'paintress'). | Present IV: arajyata [2pl.impf.med.] (AV 15.8.1), - rajyante [3pl.med.] (ŚB 5.6.2), rajyate [3sg.med.] (Ep.+), rajyati [3sg.act.] (Ep.+) Present I<IV: lajjamāna- [ptc.med.] 'become shy' (< 'become red') (AB 3.22.7 +) Caus: rajaya [2sg.impv.act.] (AV 1.23.1 = AVP 1.16.1) {1} TA-Ptc.: raktá- 'dyed, red' (Br.+) | | | IIAL |

Sheet1

| | | | | | | | |
|--------------|---------------|--|---|--|---|---------------------|---------------|
| * (s)teg- | cover | Lat tegō 'cover' NE thatch Lith stiegiu 'put on a thatch roof' Grk stégō 'cover' ?Sanskrit sthagayati 'covers' | Possible Sanskrit cognate in sthagayati 'covers' which, if accepted (the -thsuggests to some a non-Indo-European origin for the word in Indic), would point to Proto-Indo-European status. | | | Motion | JPM Beekes |
| * (s)teg- | pole, post | Lat tignum 'wooden beam' NE stake | | | | Construction | JPM |
| * (s)téges- | roof | Olr tech 'house' Lat tectum 'roof, ceiling', tēgula 'roof-tile' NE thatch Grk (s)tégos 'roof, house' | | | | Construction | JPM |
| * (s)teh,- | stand (up) | Olr -sissedar 'stands' Lat sistō 'stand up' Grk hístēmi 'stand' Av hištaiti 'stands' Skt tīṣṭhāti 'stands' | {1} The aspiration in Skt. has arisen in the present *(s)ti-sth,-e-. | Present III>I: tīṣṭhāti [3sg.act.] (RV+) Perfect: tastháu [1,3sg.pf.act.] (RV+) Aorist R: ásthāt [3sg.act.] (RV+) Precative: stheṣur [3pl.act.] (AV), stheṣam [1sg.act.] (VS) Fut: sthāsyati (Br.+) Passive: sthīyate [3sg.] (KSp+) Caus: sthāpay° (RV+) TA-Ptc.: sthitá- 'standing, determined' (RV+) | standing on the chariot': Skt. rathe-ṣ- | Placement Verbs | JPM IAL |
| * (s)teh,ist | dough; bread? | Olr taīs 'dough' OE þœsma 'leaven' OCS těsto 'dough' Grk staīs 'dough of spelt flour' | This is a neuter noun of a very archaic shape and that archaic shape might argue for a greater antiquity for the concept 'dough', and hence bread-making in general, than its restriction to the West Central groups might otherwise suggest. That it would appear to be derivative of *(s)teh,- 'stand' suggests that we may well be reconstructing a term originally meaning 'leavened dough' rather than 'dough' in general. | | | Meals | JPM |
| * (s)teh,- | steal | Olr tāid 'thief' OCStajō 'hide' Grk tētáomai 'deprive, rob' Hit tāyezzi 'steals' Av tāyu- 'thief' Skt (s)tāyú- 'thief' Toch B ene-stai 'in secret' | | | | Exchange & Property | JPM IAL |

Sheet1

| | | | | | | | |
|-------------|-------------------|--|---|--|--|--------|------|
| * (s)teig- | sting, be pointed | | | Present I: tejate [3sg.med.] (RV+) Intensive: tétikte [3sg.med.] (RV 04.023.07), tétijāna- [ptc.med.] (YVm) TA-Ptc.: ní-tikta- 'urged on, sharpened' (RV) tigitá- 'sharp, pointed' (RV) | | | IIAL |
| * (s)tel- | be still, quiet | Olr tuilid 'sleeps' NE still Lith tylà 'quiet person' | North-West | | | Speech | JPM |
| * (s)tenh ː | thunder | | {1} With the root variant without s- (tan-). {2} Non-causative (intransitive) in early Vedic the causative usage is attested in TS 1.6.11.4. {3} [LK] Reduplicated aorist according to Hoffmann 1976: 568, Werba 1997: 442 (Kummel 2000 does not include this form into his corpus of perfect formations either) perfect (subj.) according to Lubotsky 1997a: 583. {4} Or ptc.act. (ins.sg.) of present IV (tanyati). {5} Based on the stem of the -ya-present. {6} Laryngeal-derivative of *sten 'to moan, to groan'? (cf. Skt stan). Present AYA: stanáyati [3sg.act.] (RV+) {2} Present IV: tanyati [3sg.act.] (RV 06.038.02) Aorist R: stanihi [2sg.impv.act.] (RV 06.047.30), stan [3sg.inj.act.] (RV 10.092.08) Aorist RED: atatanat [3sg.act.] (AVP 2.58.4), tatánat [3sg.inj.act.] (RV 08.021.18), tatanas [2sg.inj.act.] (RV 01.038.14) {3} Intensive: taṁstanīhi [2sg.impv.act.] (AV 5.20.1) TA-Ptc.: stanita-, also [n] 'thunder' (Sū.+) | | | IIAL | |
| * (s)tenh□- | groan thunder | Lat tonāre 'to thunder' OE þunor 'thunder' (> NE thunder) OCS stenŏ 'groan' Grk sténō 'thunder' Skt stanáyati 'thunders' | | | | Air | JPM |
| * (s)ter- | stork | NE stork Hitt tarlā ? | | | | Bird | JPM |

Sheet1

| | | | | | | | |
|---------------------------|-----------------------------|--|--|--|--|----------------------|-------------|
| * (s)ter ġ ^h - | crush | Hit istarninkzi 'afflicts' Skt trġnégħi 'crushes, bruises' | | | | Reductive Activities | JPM |
| * (s)terħ - | stiff | NE stare Lith starinù 'tighten, stretch, make stiff' OCS strada 'hard work' Grk stereós 'stiff, firm' Toch B ścīre 'hard, rough' | | | | Qualities | JPM |
| * (s)teud- | push, thrust | Olr do-tuit 'makes to fall' Lat tundō 'push, strike' with the s-, Lat studeō 'strive' (i.e. 'push oneself'), studium 'zeal' Goth stautan 'push' Alb shtyj 'push' Skt tudāti 'pushes, strikes' | {1} Isolated and unclear form perhaps arisen under the influence of tunnā- [ppp]. | Present VI: tudāti [3sg.act.] (RV+) Present VII>I: tundate [3sg.med.] (RV 01.058.01), tundānā- [ptc.med.] (AV 6.22.3) {1} Perfect: (-)tutóda [3sg.act.] (RV 01.162.17, 10.016.06) na-ptc.: tunnā- 'crushed, ground' (RV+) | | Convey | JPM IIAL |
| * (s)teuros | large (domestic) animal | NE steer Av. staora- 'large [domestic] animal [i.e. horse, cow, camel]' Alb ter 'bullock' | In meaning this word has been drawn to the phonetically similar *tauros 'aurochs, bull'). | | | Fauna | JPM |
| * (s)tig-mo- | sting (A) be pointed (M) | | | tējīyas- [comp] 'sharper' (RV+) | | | IIAL |
| * (s)trep- | ± cry out, dispute | Lat strepō 'cry loudly, make noise' OE þrafian 'restrain, reprove urge, demand' | North-West | | | Speech | JPM |
| * (s)weh□g ^h - | ± cry out resound | Lat vāgiō 'cry, squall [of babies], scream' NE sough Lith svagė́ti 'sound' Grk ěkhḗ 'noise', ěkhéō 'sound, ring' | West Central | | | Speech | JPM |
| * (s)weig- | deceive | OE swīcan 'betray' Toch A wek- 'to lie' | | | | Values | JPM |

Sheet1

| | | | | | | | |
|----------------|--------------------------|--|---|----|--|--------------------|------|
| * (s)wer- | say, speak | OPrus wertemmai 'we swear' Rus vru 'lie' Grk eirō 'say' Hit wer(i)ye- 'call, summon' Lat sermō 'conversation, lecture' [> by borrowing NE sermon] NE swear OCS svariti 'despise battle' Lyd śfarwa- 'oath' Toch B šarm 'origin' | Greek employs *(s)wer-, i.e. Grk eirō, in the present and *wek"-, i.e. Grk eīpon, in the aorist and it is possible that such a paradigm from two different roots derived from a still earlier period. In derived form, *(s)wer- also yields NE word (cf. also Lat verbum 'word' and Lith vārđas 'name'). | | | Speech | JPM |
| *(t)persneh₂- | heel | | {1} [AL] Since the other Iranian languages point to an ā-stem, we may also consider an original ā-stem for Avestan, which is attested at V 2.31 and V 23.2 pāšnāibiia, whereas pāšnāēibiia at V 8.70, V 8.71, V 9.25, V 9.26 is likely to be due to the preceding or following uzgərəptaēibiia anguštaēibiia. {2} [AL] The word for 'heel' seems to be related to the family of the root sphari- 'to kick with the foot', which also points to a heavy initial cluster (*pd-sperh- - ?), cf. YAv. (V 2.31) air̥hāš zəmə pāšnāibiia vīspara 'trample this earth with your heels'. {3} [AL] It is improbable that OE fiersin [f] 'heel' contains lengthened grade (pace Pok. 823, EWAia 124) because ē would have been shortened in Proto-Germanic anyhow due to Osthoff's Law. For the etymology see Lehtinen 2006. | | | | IIAL |
| *(t)sel- | sneak up on, crawl up on | Lith selù 'sneak, prowl, step softly' Arm solim 'crawl' Av srvant- 'crawling' Skt tsáratī 'creeps up on, sneaks' Alb shligë 'snake' Olr selige 'turtle or snail' | | | | Crawl, Slide, Fall | JPM |
| *(ud-)tnh₂-no- | stretched | | {1} [AL] For the etymology see Beekes 1982-3: 206, fn. 1 and Beekes 1985. | | 'with outstretched hands': Skt. uttāná-hasta- [adj] (RV) — Av. ustāna-zasta- [adj], ustānāiš ... zastāiš (Y 29.5) 'with outstretched hands in reverence': Skt. uttānāhasto námasā (RV 06.016.46) — OAv. nəman̥hā ustānazastō | | IIAL |
| *(w)rep- | turn, incline | Grk hrépō 'incline oneself, be inclined to' Toch A rapur̥īe 'desire, cupidity' | | ? | | Motion | JPM |
| *(y)ebʰ- | elephant | | Probable Wanderwort | ?? | | Fauna | JPM |

Sheet1

| | | | | | | | |
|--|------------------|---|---|--|--|---------------|-----|
| *alog ^h - | thorn | SC glog 'thorn' Grk glōkhes [pl.] 'beard of grain' Grk glōkhīs 'point, end' Grk glōssa 'tongue' | West-Central | | | Plants (Wild) | JPM |
| *ālu- | ± esculent root | Lat ālium □ allium 'garlic' Skt ālū- 'Arum campanulatum (an esculent root)' | Reconstruction difficult | | | Plants | JPM |
| *ānos | circle, ring | OIr āinne Lat ānus Arm anur | West Central | | | Ornament | JPM |
| *ar | and, also / thus | OPrus ir 'and, also' Prākrit ira 'and' Grk āra 'now, thus' | | | | Conjunctions | JPM |
| *at- | father | Lat atta Grk atta Goth atta 'father' Rus otéc 'father' Alb atē 'father' Hit attas 'father' | | | | Kinship | JPM |
| *b(e)u- | owl | Lat būbo Bulg buk Grk búas Arm bu □ bueč NPers būm | | | | Bird | JPM |
| *b ^(h) (o)mb ^(h) - | ± muffled noise | ON bumba 'drum' Lith bambé 'ti 'roar' Rus búben 'drum' Alb bumbullit 'it thunders' Grk bómpos 'muffled noise' Lith bam~balas 'bee' Grk bombúlē 'bee' Skt bambhara- 'bee' | West Central | | | Animal Noises | JPM |
| *b ^(h) e ġ ^h | without | Lith bē 'without but' OCS bez 'without' Skt bahí- 'outside' | | | | Position | JPM |
| *baba- | babble | Lat babit NE baby, babble Grk babázō | | | | Human Sounds | JPM |
| *badyos | (yellow) brown | OIr buide 'yellow' Lat badius 'bay (of a horse)' | Celtic-Italic isogloss | | | Color | JPM |
| *baitéh□- | cloak | Goth paida 'tunic, shirt' Grk baitē 'shepherd's cloak of skins' | West Central With its very rare initial *b-, has suggested to some a loanword from a non-IE language | | | Textiles | JPM |
| *bak- | club | OIr bacc 'staff' Lat baculum 'staff' Grk báktron 'staff' | West Central the initial *b- has been explained either as the mark of a 'popular word' (i.e. one apparently used only in informal contexts and subject to the possibility of special phonological changes) or a loanword from some non-Indo-European language. | | | Weapons | JPM |

Sheet1

| | | | | | | | |
|-------------------------------------|--------------------|--|---|--|--|---------------------|-------------|
| *balba- | stammer | Lat balbus 'stammer' NE babble Lith blėbėnti 'stammer' Czech beblati 'stammer' Grk bárbaros 'non-Greek speaker' [whence via Latin to NE barbarian] Skt barbara- 'stammerer, non-Indic speaker' | | | | Human Sounds | JPM |
| *baub- | bark, low | Lat baubor 'bark' Lith baūbti 'low [of cows]' Grk baūzō 'bark' | West Central | | | Animal Noises | JPM |
| *bélos | strong | Lat débilis 'weak, infirm' OCS bolji 'larger' Grk bélteros 'better' Skt bálam 'power, strength' | Problematic requires a Proto-Indo-European *b- which is exceedingly rare (some would argue non-existent) | | | Health&Sickness | JPM |
| *b(e)rh ^h ōs | birch | Lat farnus/fraxinus 'ash' NE birch Lith bėržas 'birch' Rus berėza 'birch' Oss boerz 'birch' Skt būrjā- 'birch' | Derived from an adjective meaning 'bright, shine' and has a long association in several Indo-European groups with virginal purity. Gamkrelidze and Ivanov have used this connection to suggest that Hit parku- 'ritually pure innocent' actually derives from the word for 'birch' although the Hittites had lost the arboreal term itself. | | | Trees | JPM IIAL |
| *b ^h ab ^h eh- | bean | Lat faba 'bean' NE bean [< PIE *bhabhneha-] OPrus babo 'bean' Rus bob 'bean' Alb bathē 'bean' | | | | Plants | JPM |
| *b ^h ag- | apportion | Phrygian Bagaīōs is an epithet of Zeus Skt bhága- 'apportion' was deified as one of the Vedic gods Av бага- 'good fortune' Toch B pāke 'share' | | | | Exchange & Property | JPM |
| *b ^h ag- | divide, distribute | Grk phageiun 'eat' Av bag- 'distribute' Skt bhájati 'divides, distributes, enjoys' Rus bog 'god' Av baaa- 'god' Skt bhága- 'lord' Toch B pāke 'share, portion' | | | | Measure & Quantity | JPM |
| *b ^h ā ġ ^h us | (fore)arm, foreleg | OE bōg 'shoulder, arm, bough' [> NE bough] Grk pėkhus 'elbow, forearm' Av bāzu- 'arm foreleg' Skt bāhú 'forearm, arm, forefoot of an animal' Toch B pokai- 'arm limb' | | | | Body (Upper) | JPM |

Sheet1

| | | | | | | | |
|--|------------------|---|--|--|--|----------------------|-------------|
| *b ^h agos | apportioner | Skt Bhága- Phrygian Bagaῖos, epithet of Zeus | | | | Dieties | JPM |
| *b ^h akó/eh□- | bean | Grk phakós 'bean' | | | | Plants | JPM |
| *b ^h ar-ko- | pointed? | MIr barc 'spear shaft' SC br'k 'point' | North-West from *b ^h ar- 'projection' | | | Shape | JPM |
| *b ^h ard ^h -eh□- | beard | Lat barba NEbeard Lith barzdà Rus borodà 'beard, chin' | North-West | | | Hair | JPM |
| *b ^h árs | grain | NE barley Lat fār 'grain coarse meal' Rus bórošno 'ryemeal' Grk phéros 'food of the gods' Albanian bar 'grass' | North-Western it has been derived from both the Near East and a European substrate | | | Plants | JPM |
| *b ^h éb ^h rus | beaver | Gaul bebru- Lat fiber NE beaver Lith bebrūs Rus bobr Av bawra- | | | | Fauna | JPM IIAL |
| *b ^h ed ^h - | bend (ones body) | Toch B pauto 'honour' NE bid < 'request on bended knee' Alb bind means 'convince' | | | | Bend and Press | JPM |
| *b ^h ed ^h - | dig, burrow | Lat fodiō 'dig' Hit padda- □ pidda- 'dig' NWels bedd 'grave' TochA pāt- 'plough' | | | | Reductive Activities | JPM |

Sheet1

| | | | | | | | |
|--|----------------|---|---|---|--|----------------------|----------------|
| *b ^h eg- | break | Olr boingid Arm bekanem Skt bhanákti Lith beŋgti 'finish, end', perhaps from 'breaking off'. | {1} [LK] There are semantic reasons to group this formation with class IV presents and to presume fluctuating accentuation, i.e. bhájyate in RV-Kh. / bhajyáte in AV see Kulikov 1998 Kulikov 2001: 361, 543. {2} Connection uncertain. | Present VII: bhanákti [3sg.act.] (RV+) bhañjánt- [ptc.act.] (RV+) bhañdhi [2sg.impv.act.] (RV+) nir-ábhanah (for *- ábhanak-s) [2sg.impf.act.] (AV 3.6.3) Perfect: babhāñja [3sg.act.] (RV 08.004.05) Present IV/Passive: ní ... bhajyate [3sg.] (RV-Kh. 5.5.10), bhajyantām [3pl.impv.] (AV 8.8.3, 8.8.4), bhajyamāna- [ptc.] (AB 3.22.7) {1} na-ptc.: bhagna- 'broken' (Br.+) | | Reductive Activities | JPM IIAL |
| *b ^h e ġ ^h - | outside | | {1} Connection with bahīṣ uncertain. {2} [AL] Jasanoff (Acts Copenhagen, XXX) explains the ending -is as an original instr.pl. ending (cf. PIE instr.pl. *-ōis < *-o-is), cf. further ávis, nīs. | | | | IIAL |
| *b ^h eg ^w - | run | Lith bé'gu 'run, flee' Rus begú 'run, flee' Grk phébomai 'flee' Hindi bhāgnā 'flee' | | | | Run & Jump | JPM |
| *b ^h eh ₂ *b ^h eh ₂ - | truly shine | | | | 'the shining dawn': Skt. uśás- vi- bhāti (RV) — YAv. ušāñham ... vi- uuaitīm — Gr. φάε... 'Hώς 'the dawn appeared' (Hom.) 'shines with shine(s)': Skt. bhānúbhir / bhānúnā ... vibhāti (RV) — YAv. viāuuaiti bānubiō (Yt 17.6) | | Beekes IIAL |
| *b ^h eh ₂ - | shine | Olr bān 'white' OE bōnian 'ornament, polish' Alb bej 'do' [< "bring to light"] Grk phainō 'bring to light' Luv piha- 'splendur' Av bā- 'shine' Skt bhāti 'shines' bhās- 'light, splendour' | | Present II: bhāti [3sg.act.] (RV+) Fut: bhāsyāti [3sg.act.] (Br.+) TA-Ptc.: bhāta- 'shining' (Up.+) | | Light & Dark | JPM IIAL |

Sheet1

| | | | | | | | |
|---|------------------------------------|--|--|---|--|--------------|------|
| *b ^h eh ₂ -mo- | shine, splendour | | {1} bhāma- [m] 'passion, wrath, anger' (RV+), with derivatives bhāmin- [adj] 'angry' (RV 01.084.16), bhāmitā- [adj] 'enraged' (RV 01.114.08, TS), is most probably identical with this word. | | | | IIAL |
| *b ^h eh ₂ -nu- | ray of light | | | | | | IIAL |
| *b ^h éh ₂ -(e)s- | light | Grk phōs Skt bhās- 'light' | Graeco-Aryan from *b ^h eh ₂ - 'shine' | | | Light & Dark | JPM |
| *b ^h eh ₂ ḡ - | become as a share, get distributed | | {1} [LK] The long root vowel in these two forms is probably secondary and has nothing to do with the causative stem bhāj(ay)- see Kulikov 2001: 125ff. | Present I: bhājati [3sg.act.] (RV+) Aorist S: ábhakṣi [1sg.med.] (RV) abhakta [3sg.med.] (RV), abhákta [3sg.med.] (AB), abhākṣam [1sg.act.] (YV) SI-impv: bhakṣi (RV) Perfect: babhāja [3sg.act.] (RV, ŚB) bhejé [3sg.med.] (RV+), bhejiré [3pl.med.] (RV+) Passive: vi- bhājyāmāna- {1} [ptc.] 'being shared out' (AV 12.5.28), vi- bhājyānte {1} [3pl.] 'are distributed' (MSp 2.2.13:25.13) vi bhajyate [3sg.] (YVp+) Fut: bhakṣyati [3sg.act.] (Br.) Caus: bhājayata [2pl.impv.act.] 'to make share, to make partake' (RV 10.009.02+) Desid: bhikṣate bāhāvā [nom.acc.d arm-strong': Skt. bāhv-ōjas- [adj] (RV) — YAv. bāzuš.aojah- [ac | | | IIAL |
| *b ^h eh ₂ ḡ ^h u- | arm | | | | | | IIAL |
| *b ^h éh ₂ tis | light | Grk phásis 'star rise' Skt bhāti- 'splendour' | Graeco-Aryan from *b ^h eh ₂ - 'shine' | | | Light & Dark | JPM |
| *b ^h eh□- | speak | Lat for 'speak' NE ban Rus báju 'relate' Grk phēmí'say' Arm bay 'says' | West Central | | | Speech | JPM |

Sheet1

| | | | | | | | |
|------------------------------------|---------------------------|---|---|--|--|----------------------|------------|
| *b ^h eh□-meh□- | saying | Lat fāma 'talk, reputation, fame' Grk phēmē 'saying, speech' | West Central | | | Speech | JPM |
| *b ^h eh□ ḡ ós | beech | Gaul bāgos 'beech' Lat fāgus 'beech' OE bōc 'beech book' [> NE book], bēce [> NE beech] Alb bung 'durmast oak [Quercus petraea]' Grk phēgós 'Valonia oak [Q. aigilops]') perhaps Rus buz 'elder' | | | | Trees | JPM |
| *b ^h eid- | split break | Lat findō 'split' Skt bhinādmi 'bite' Grk pheidomai 'spare' | {1} [LK] With the secondary suffix accentuation (see Kulikov 1998). {2} [LK] See Scarlata 1999: 355f. {3} [JC] Wa. zūbūt- 'to break' (cited in EWAia, following IIFL II: 556) = Wa. z(ə)bəθ- , z(ə)bət-, must derive from *uz-pat-. The Wa. form has a (voiced) stop -b-, which cannot reflect old Ir. *b in this position, cf. Steblin-Kamenskij, l.c. | Present IX: bhinátti [3sg.act.] (RV+) Present IV: bhidyáte [3sg.med.] (RV- Kh. 2.1.6, TS) bhidyéta [3sg.opt.med.] {1} (MSp), bhidyáte [3sg.med.] {1} (SB, KathA 3.234:100.15) bhidyate [3sg.med.] (AVŚ, AVP, YVp+) Aorist A: abhedam [1sg.act.] (RV) Aorist S: abhaitsam [1sg.act.] (AVP) bhithās [2sg.inj.med.] (KS+) Perfect: bibhēda [3sg.act.] (RV+), bibhīde [3sg.med.] (AVP 5.9.5) Fut: bhetsyati [3sg.act.] (Sū.+) Desid: bibhītsa° (RV 10.061.13) Abs: bhittvā (RV+), vi-bhidyā | | Reductive Activities | JPM IAL |
| *b ^h eid ^h - | persuade, compel, confide | Lat f īdō OE bædan 'urge' OCS bēditi 'constrain' Alb be 'oath' Grk pelíthō 'persuade' | West Central | | | Speech | JPM |

Sheet1

| | | | | | | | |
|---------------------------------------|----------------------|--|--|--|--|---------------|------|
| *b ^h eih _z - | fear | | {1} [AL] bhāyante (AVP 2.57.5) is corrupt (cf. Zehnder 1999: ad loc.). | Present I: bhayate [3sg.med.] (RV) Aorist R: bhema [1pl.inj.act.] (RV), bhes [2sg.inj.act.] (YVp+) bhiyāná- [ptc.med.] (RV) Aorist S: bhaiṣīṭh [2sg.inj.act.] (AV+) Perfect: bibhāya [3sg.act.] (RV+) bibhīvāms- [ptc.act.] (RV+) Present III<Perfect: bíbhyat- [ptc.act.] (RV+), bibhītás [3du.act.] (AV+), abibhet [3sg.impf.act.] (YVp+) TA-Ptc.: bhītá- 'frightened, afraid' (RV+) {1} | | | IIAL |
| *b ^h eih _z -os- | fear | | | bhiyásam [acc.sg.] | (disyllabic /bhyasam/ in 2.28.6a and 9.19.6b), bhiyāse [dat.sg.] | | IIAL |
| *b ^h eih□- | strike | Olr benaid 'strikes' Lat perfinō 'break through, shatter' OCS bijo 'strike' Av byente 'they struggle, strike' | | | | Conflict | JPM |
| *b ^h el- | ± marten; wildcat | NWels bele 'marten' Lat félis 'small carnivore' Skt bharuja- 'jackal' | | ? | | Fauna | JPM |
| *b ^h el- | blow, blow up, swell | NE blow Lat flō 'blow' Lat follis 'leather sack inflated with air' Olr ball ferda 'penis' Grk phallós 'penis' Skt bhāṇḍa- 'pot' | | | | Blow Up | JPM |
| *b ^h el- | coot | Lat fulica OHG belihha | | | | Bird | JPM |
| *b ^h el- | henbane | Gaul belénion OE beolone Rus belena | North-West | | | Plants (Wild) | JPM |

Sheet1

| | | | | | | | |
|-------------------------------------|-------------|---|---|--|--|---------------|-------------|
| *b ^h el ġ ^h - | swell | OIr bolgaid 'swells' OHG belgan 'swell up' | {1} With -iš- instead of -aš- due to the influence of *stariš- 'straw'. | | 'fuel and straw': Skt. idhmā-barhiṣ- (RV) — YAv. aēśma ... barəśma 'to spread the straw': Skt. prā strṇīte ... barhīḥ — YAv. barəśma (fra-)star- | Blow Up | JPM IIAL |
| *b ^h elh ₁ - | white | NWels bal Lith bālas Grk phalós OCS bělŭ Lat flāvus 'blond' NE ball (horse with white blaze) Skt bhālam 'gleam, forehead' Lith bálti 'grow white, pale' | | | | Color | JPM |
| *b ^h élh□ ġs | plank, beam | NE balk Lat fulciō 'prop up, support' | | | | Construction | JPM |
| *b ^h els- | yelp, howl | OE bellan 'roar, howl' Skt bhaṣati 'barks, yelps' | | | | Animal Noises | JPM |

Sheet1

| | | | | | | | |
|---------------------------------------|-----------------|--|--|--|--|--------------------|-------------|
| *b ^h end ^h - | bind | NE bind, Grk peĩsma, Skt badhnā ti | NE bind Av bandayeiti 'binds' Skt badhnā ti 'binds' Grk peĩsma 'rope' Lith beĩdras 'companion' Grk pentherós 'father-inlaw' Skt bāndhu- 'kinsman connection, kinship' | Present IX: ābadhnāt [3sg.impf.act.] (RV+), - badhnīmas [1pl.act.] (AV+), badhānā [2sg.impv.act.] (AV+), abadhnata [3pl.impf.med.] (AV+) Perfect: babāndha [3sg.pf.act.] (AV+) -bedhūr [3pl.pf.act.] (AVŚ 09.03.06 ~ AVP 16.39.06), bedhé [3sg.med.] (AV) Passive: badhyāte [3sg.] (RV+) Fut: bhantsyāmi [1sg.act.] (YVm+) Caus: bandhay° (ŚB+) Inf: ā-bādhe (AVŚ 05.28.11 = AVP 02.59.9) Abs: baddhvā (AV+) TA-Ptc.: baddhā- (RV+) | | Binding | JPM IIAL |
| *b ^h end ^h -u- | relative | | | | | | |
| *b ^h end ^h rros | ± relation | Lith beĩdras 'companion' Grk pentherós 'father-in-law' Skt bhāndhu- | | | | Kinship | JPM |
| *b ^h en ġ ^h - | grow, increase | Skt baṃhayate 'causes to grow' | | | | Vital Functions | JPM |
| *b ^h én ġ ^h us | thick, abundant | Lat pinguis 'fat' [with mysterious initial p-] OHG bungo 'bump' Latv biezs 'thick' Grk pakhús 'thick, compact' ?Hit panku- 'total, entire, general' ?Skt bahú- 'much, many numerous, compact abounding in' | | | | Measure & Quantity | JPM |

Sheet1

| | | | | | | | |
|---------------------|------------------------------|---|---|---|--|-----------------|----------|
| *b ^h er- | ± cure with spells and/or he | Lith būrti 'cast a charm, spell' Alb bar 'grass, herb, drug, medicine' Grk phārmakon 'something that brings health or harm, drug, medicine' | with problematic Baltic cognates | | | Health&Sickness | JPM |
| *b ^h er- | brown | *bhruh□nos NE brown Grk phrūnos 'toad' *b ^h eb ^h ru- Mitanni papru- 'brown [of horses]' Skt babhrú- 'reddish brown' *b ^h ēro- Lith bė'ras 'bay [of horses]' | Quite productive in that it underlies the Proto-Indo-European word for 'beaver' (Section 9.1) and the Germanic words for 'bear' (Section 9.1) it also renders 'toad' in Greek and is a horse colour in Mitanni. The colour words from this root come in many diVerent formal shapes. | | | Color | JPM |
| *b ^h er- | carry | Olr beirid Lat ferō NE bear Alb bie Grk phérō Arm berem Skt bhārati Toch AB pār- Rus berú 'take' Lith beriù 'strew' | {1} Nonce formation, as well as bibhramāṇa- 10.031.06. {2} [LK] The only subjunctive form of a present passive in early Vedic cf. also the Old Avestan 3pl. form and see Kulikov 2001: 131, 552ff. XXX set-forms, jabhara | Present I: bhārati [3sg.act.] (RV+) 'to bring' Present III: bibharti [3sg.act.] (RV+ once bibhārti 04.050.07), abibhran [3pl.impf.act.] (RV, with a unique ending) 'to carry' Present II: bhārti [3sg.act.] (RV 01.173.06, 06.013.03) {1} Aorist S: abhāṛsam [1sg.act.] (RV+), abhār [3sg.act.] (RV+) Aorist mediopass: bhāri [3sg.inj.] (RV) Perfect: jabhāra [3sg.act.] (RV+), jabhrriré [3pl.med.] (RV+), babhre [3sg.med.] (RV) Passive: bhriyāte [3sg.] (RV+), bhriyāte [3sg.subj.] {2} (RV 05.031.12+) Fut: ábhariṣyat | 'to promote to offer': Skt. prá-bhar- [verb] 'to offer, present' (RV+) — YAv. fra-bar- [verb] 'to bring (forward)' — OP fra-bar- [verb] 'to transport, carry over' — Khot. haur-, hūr- [verb] 'to give' Skt. prá-bhartar- [m] 'promotor' (RV) — YAv. frabəratar- [m] a type of priest (cf. Umb. aífertur [m] title of a priest < *ad-fertor) Skt. prá-bhṛti- [f] 'offering' (RV+) — YAv. hu-frabəraēiti- [f] 'good offering' 'to carry the speech, voice (in mind)': Skt. vācam mānasā bibharti 'carries the speech in mind' (RV 10.177.02), vācas ... bhar- 'to bring the word' (RV) — OAv. vācam baraitī [manarḡhā] 'raises his voice (in accordance with his mind)' 'to bring existence': Skt. āsum ... ā bhar- (AVS 8.2.1) — YAv. ahūm ā bar- 'to support Truth': Skt. ṛtām bhar- (RV+) — OIran. *ṛtam-bara- PN 'to bring homage': Skt. námas ... bhar- (RV+) — YAv. nāmo bar- — NP (poet.) namāz burdan 'to offer a praise': Skt. stōmam (prá-)bhar- (RV+) — YAv. staomāca ... barəntu 'to foster well, to treat well': Skt. sú-bhṛtam bhar- (RV+) — YAv. hubəratəm barāt_, OP ubrtm abrm / | Convey | JPM IIAL |

Sheet1

| | | | | | | | |
|------------------------------------|-------------------------|---|------------|--|--|----------------------------------|-----|
| *b ^h er- | seethe, bubble | <p> Mlr fobar 'well' Lat fermentum 'ferment, leaven' OE beorma 'yeast, leaven' Grk porphúro 'bubble' Skt bhuráti 'moves rapidly, quivers' </p> | | | | Food Prep | JPM |
| *b ^h er- | strike (through), split | <p> Mlr bern 'gap, chasm' Lat feriō 'strike, pound' Lith bar(i)ù 'revile, abuse' Rus borjú'subdue, throw down', Grk pharóō 'plough' Arm brem 'dig up, hollow out, bore' NPers burrad 'cuts' Skt br̥ṇāti 'wounds' OE borian > NE bore OCS borjō 'fight, struggle' </p> | | | | Conflict Reductive Activities | JPM |
| *b ^h ére/o- | bear (a child) | <p> OIr beirid 'bears' Lat ferō 'bear' NE bear OCS berq 'gather' Alb bie 'bring, take' Grk phérō 'bear' Arm berem 'bear' Av baraiti 'bears' Skt bhárati 'bears' Toch AB pār- 'bear' NE bairn 'child' </p> | | | | Vital Functions | JPM |
| *b ^h erg- | ± bark, growl | <p> NE bark Lith burgé'ti 'spurt, splash, splutter, howl' </p> | North-West | | | Animal Noises | JPM |
| *b ^h erg ^h - | keep, protect | <p> OE beorgan 'keep' Lith birginti 'be parsimonious' Slavic OCS brěšti 'care for' </p> | North-West | | | Conflict | JPM |

Sheet1

| | | | | | | | |
|--|-------------------|--|--|--|---|-------------------|------|
| *b ^h er ġ ^h - | become high, rise | | {1} These forms may belong to a different PIE root, *bhelgh- 'to swell, to put underneath smth. swelling', cf. s.v. barhíṣ-. | Present AYA/Caus: ní barhay ^o 'to lay low' (RV+) Present VI<VII: br̥m̥ha ^o (SB+) (created on the model of dr̥m̥ha ^o) Aorist IS: ní barhīt [3sg.inj.act.] (RV) Intensive: upa bárbr̥hat [3sg.subj.act.] 'to underlay, to put underneath' (RV 05.061.05), úpa barbr̥hi [2sg.impv.act.] (RV 10.010.10) {1} TA-Ptc.: pári- br̥gha- 'firm, strong' (SB+) | | | IIAL |
| *b ^h er ġ ^h - | high; hill | Mlr br̥í 'hill' NE barrow OHG burg 'fortress' NHG Berg 'mountain' Rus béreg 'river-bank' Av bərez- 'hill' | West Central Greek and Armenian cognates show unexpected forms, e.g. Grk púrgos (and not the expected **párkhos) which some suggest may derive from a Near Eastern word, e.g. Urartian burgana- 'fortress', or others suggest may come from some other Indo-European language that may have preceded Greek into the Aegean area but whose population was subsequently assimilated to Greek | | | Earth Dwelling | JPM |
| *b ^h erh ₂ | quiver, hurry | | {1} [AL] For Lat. fervō [verb] 'to boil, bubble', Mlr. berbaim [verb] 'to boil' see XXX. | Present VI: bhurántu [3pl.impv.act.] (RV), bhuránta [3pl.inj.med.] (RV) Present ANYA: bhuranyāti [3sg.act.] (RV) Intensive: jārbhurīti [3sg.act.] (RV), jārbhurāṇa- [ptc.med.] (RV) | {1} [AL] For Lat. fervō [verb] 'to boil, bubble', Mlr. berbaim [verb] 'to boil' see XXX. | | IIAL |
| *b ^h erh □ ġ ^h - | shine, gleam | NWels berth 'shiny' NE bright, Lith br̥é'kšta 'dawns' Pol brzask 'dawn' Alb bardhë 'white' | | | | Light & Dark | JPM |

Sheet1

| | | | | | | | |
|-------------------------|-----------------------------|---|---|---|--|----------------------|-----|
| *b ^h érmn- | load | OCS brēmę 'load' Grk férma 'fruit' Skt bháman- 'load' | | | | Convey | JPM |
| *b ^h ertōr | priest | Umb ars-fertur 'priest' Av fra-bərətār- 'priest' | From root *b ^h er- 'carry' possibly independant creations | ? | | Sacred | JPM |
| *b ^h erug- | gullet | Lat frūmen Grk phāru(g)ks 'gullet' Arm erbuc 'breast' | West Central | | | Organs | JPM |
| *b ^h es- | ± blow | Grk psūkhē 'breath, spirit' Skt psu- 'breath' | | | | Vital Functions | JPM |
| *b ^h es- | blow | Grk psūkhō 'cool off' [<*cool off by blowing?] Skt bābhasti 'blows' Toch B pās- 'whisper' | Greek-Indic-Tocharian isogloss | | | Blow Up | JPM |
| *b ^h es- | rub | Alb fshij 'sweep, wipe, brush' Grk psáo 'rub' Skt bābhasti 'chews thoroughly, devours', psā ti 'chews, swallows' | | | | Reductive Activities | JPM |
| *b ^h eu(h□)- | come into being, be grow | Olr -bū 'become' Lat fiō 'become' Lith būti 'be' OCS byti 'be' Grk éphūn 'would be' Skt ábhūt 'was' ?Lat fūi 'was, have been' OCS by 'was' | this form tends to supply the aorist forms in a number of Indo-European groups | | | Being & Doing | JPM |
| *b ^h eud- | strike, beat | Olr bibdu 'guilty enemy' Lat fūstis 'cane, cudgel' NE beat | North-West | | | Conflict | JPM |

Sheet1

| | | | | | | | |
|------------------------------------|--|---|--|--|--|-------|------|
| *b ^h eud ^h - | become attentive {3}, be awake, perceive | | <p>{1} According to Insler 1972: 560ff., subjunctive of the root aorist see Gotō 1987: 217451 for a discussion.</p> <p>{2} The transitive nasal present *bhu-n-(e)dh- 'to hear someone in court, to summon someone before court, to announce in court, to decree' is not preserved in Old Indo-Aryan, but may have left traces in New Indo-Aryan.</p> <p>{3} [LK] See Kümmel 2000: 332f.</p> | <p>Present I {1}: bódhati [3sg.act.] 'to perceive, to notice' (RV+)</p> <p>Present IV: bódhyamāna- [ptc.med.] 'to wake (intr.), to be awake' (RV+), 'to perceive, to notice' (AV+)</p> <p>Aorist R: budhánta [3pl.inj.med.] (RV)</p> <p>Aorist IS: ábhutsi [1sg.med.] (RV+), abhutsata [3pl.med.] (AV+), ni-bódhiṣat [3sg.subj.act.] (RV 02.016.07)</p> <p>Perfect: bubodhas [2sg.subj.act.] (RV), bubudhāná- [ptc.med.] (RV, Br.+)</p> <p>Fut: bhotsy° (TS, Br.+)</p> <p>Caus: bodháy° 'to wake (tr.), to make wake up' (RV+)</p> <p>Aorist mediopass: ábodhi 'to be awake' [3sg.], abudhran [3pl.]</p> | | | IIAL |
| *b ^h eud ^h - | pay attention, be observant | <p>Rus bljudú 'observe, pay attention to'</p> <p>Grk peúthomai 'examine, experience'</p> <p>Av baoḍaiti 'notices, observes',</p> <p>Skt bódhati 'is awake, wakes up observes, understands'</p> <p>OE bēodan > NE bid</p> | | | | Sight | JPM |

Sheet1

| | | | | | | | |
|----------------------|------------------|--|--|--|--|----------------|------|
| *b ^h eug- | bend | | <p>{1} [LK] Depending on whether abhog- is connected with bhoj [1] 'to bend' (thus Kiehnle) or bhoj [2] 'to enjoy' (thus AiGr II,2: 27)</p> <p>see Scarlata 1999: 682.</p> <p>{2} Connection uncertain because of the final consonant (PGm. *-g- < PIE *-gh-). On the other hand, the connection with YAv. baoxtar- [m] 'liberator', MP bōxtan [verb] 'to free, to release', Gr. φεύγω [verb] 'flee' Lat. fugiō [verb] 'id.' is difficult because of the semantics.</p> | <p>Present VI:</p> <p>bhujánt- [ptc.act.] (RV 06.062.06),</p> <p>pari-bhuját [3sg.subj.act.] '(it) embraces (both worlds)' (RV 01.100.14 +)</p> <p>Perfect: pári ... ábubhojīh [2sg.ppf.act.] '(you) have embraced (both worlds)' (RV 01.033.09)</p> <p>na-ptc.: bhugna- 'bent, curved' (Sū.+)</p> | | | IIAL |
| *b ^h eug- | bend (an object) | <p>OHG biogan 'bend'</p> <p>Skt bhujāti 'bend'</p> <p>Goth biugan 'break'</p> <p>Latv bauga 'hill'</p> | | | | Bend and Press | JPM |

Sheet1

| | | | | | | | |
|---------------------------------------|----------------------|---|--|--|--|---------------|-------------|
| *b ^h eug- | enjoy | | {1} [LK] Optative in the function of injunctive (Lubotsky 1997a: 984, following Hoffmann 1967: 95ff.), with secondary thematization (Insler's type gamema see Insler 1975b). {2} [LK] See Jamison 1983: 173. | Present VII: bhuñjáté, bhuñjáte [3pl.med.], bhunájāmahai [1pl.subj.med.] (RV+) -bhuñjant- [ptc.act.] (RV+) Aorist R: má bhojam [1sg.inj.act.] 'may I not atone (for other people's deed)' (RV 02.028.09), (má) bhujema [1sg.opt.act.] {1} 'may we (not) atone (for smth.)' (RV) bhójate [3sg.subj.med.] '(people) lives on (cows)' (RV 01.072.08) Aorist SIŚ: +bhukṣiṣīmahī [1pl.med.] (MS) Perfect: bubhujmáhe [1pl.med.] (RV 08.067.16), bubhujrírē [3pl.med.] (RV 01.138.03) | 'providing many nourishments': Skt. puru-bhójas- [adj] (RV) — YAv. pouru.baoxšna- [adj] 'rich in refreshments (?)' 'atone(ment) for the transgression': Skt. énas ... bhujema (RV) — OAv. aēnañhō ... būjam (Y 31.13) | | IIAL |
| *b ^h eug- | flee | Lat fugiō 'flee' Grk pheúgō 'flee' | West Central {1} Possibly connected with bhoj [1]. | | | Run & Jump | JPM IIAL |
| *b ^h eug- | use | Lat fungor 'am engaged in, perform' Skt bhunákti 'aids, serves, protects', bhuñkté 'enjoys, uses, consumes' | | | | Being & Doing | JPM |
| *b ^h i-k ^w ó- | bee, stinging insect | Olr bech OE beo > NE bee OCS bičela Lith bitė (with suffix *-tiha-) | North-West Underlying etymology is *bhei(hx)- 'strike, attack' | | | Bug | JPM |
| *b ^h ib ^h óih□e | is afraid | OE beofian 'tremble' NHG beben 'tremble' Skt bibhāya 'is afraid' | | | | Values | JPM |

Sheet1

| | | | | | | |
|---------------------------------------|-------------------|--|---|--|-----------------|-----|
| *b ^h id ^h - | large pot | Lat fidēlia 'earthenware pot' Icelandic biða 'small tub' | North-West possibly from an otherwise unattested *bheidh- 'bend' (from either coil-built pottery or basketry) | | Containers | JPM |
| *b ^h la ġ - | strike | Lat flagrum 'whip' ON blekkja 'strike' Lith blaškaũ 'throw, fling' | North-West | | Conflict | JPM |
| *b ^h la ġ ^h mēn | priest | Lat flāmen 'priest' Messapic blamini 'priest' OPers brazman- 'appropriate form, appearance' Skt brahmán- 'priest' | Latin-Messapic-Indo-Iranian isogloss primarily challenged because the - ġ ^h - of the reconstructed form is nowhere evident in the Latin word nor can one find any further evidence of a root *b ^h la ġ ^h - in any of the other Indo-European languages. | | Sacred | JPM |
| *b ^h leg- | burn, shine | Lat fulgō Lat flamma 'flame', fulmen 'lightning' NE black, i.e. 'burned' Grk phlégō 'burn' Av brāzaiti 'gleams, shines' Skt bhrājate 'gleams, shines, glitters' Toch AB pālk- 'shine' | | | Light & Dark | JPM |
| *b ^h leh ^h - | bleat | Lat fleō 'weep, cry, lament shed tears' MHG blæjen 'bleat' Latv blēju 'bleat' Rus blēju 'bleat' | North-West | | Animal Noises | JPM |
| *b ^h lei- | ± become inflated | Latv blīstu 'become thick' Grk phlidáo 'overflow of moisture' | an enlargement on Proto-Indo-European *bhel- 'blow' | | Blow Up | JPM |
| *b ^h lend ^h - | be/make cloudy | NE blind, blunder Lith blandūs 'unclean' Rus blud 'unchastity, lewdness' | North-West | | Light & Dark | JPM |
| *b ^h leu- | swell, overflow | Lith bljaũju 'roar' OCS bljujō 'spew' Grk phléō 'gush, teem, overflow' with *-d- extension: Toch B plutk- 'swell' Grk phludáo 'have an excess of moisture' with *-g- yields Lat fluō 'flow', flūmen 'river' Grk phlúzō 'boil up, boil over' | | | Blow Up | JPM |
| *b ^h lh□d- | leaf | NE blade Toch B pilta 'leaf' | Restricted to Germanic and Tocharian | | Trees | JPM |
| *b ^h lih□ ġ - | strike | Lat fligō 'strike' Latv blaižīt 'crush, strike' Grk phībō 'press' | West Central | | Conflict | JPM |
| *b ^h loh□d ^h o- | flower | Mlr blāth 'flower' OHG bluot 'flower', a derivative gives us NE blossom | North-West | | Plants (Wild) | JPM |
| *b ^h odh□rós | deaf | Olr bodar Skt bhadirá- | | | Health&Sickness | JPM |

Sheet1

| | | | | | | | |
|--|--|--|--|--|--|---------------------------|----------------------|
| *b ^h ōg- *b ^h (o)h□ ġ - *b ^h ól ġ ^h is | bake, roast (skin) bag bolster | NE bake Grk phōgō 'roast, toast, parch' Olr bolgr 'sack' Gaul bulga 'leather sack' OE bel(i)g 'bag' [> NE belly] OHG balg 'skin' Slovenian blazína 'feather bed' Av bərəziš 'bolster, cushion' Skt upa-bārhanī- 'cover, bolster' | West Central Derives from the verbal root *b ^h el ġ ^h - 'swell' | | | Food Prep Textiles | JPM Beekes JPM |
| *b ^h óliom | leaf | Lat folium Grk phúllon 'leaf plant' | | | | Trees | JPM Celt. |
| *b ^h ólom | forehead | OPrus ballo Alb ballë Skt bhālam | | | | Head | JPM |
| *b ^h org ^w o- | angry, violent | Olr borb 'stupid, violent' Latv bařgs 'hard, unfriendly' Arm bark 'angry, violent' | West Central | | | Values | JPM |
| *b ^h osós | bare, naked bare(footed) | NE bare Lith bāsas 'barefoot' OCS bosū 'barefoot' Arm bok 'barefoot' | | | | Health&Sickness | JPM Beekes |
| *b ^h ōu | both | Lat ambō 'both' OE bēgen 'both' [NE both is an Old Norse loanword] Lith abū 'both' OCS oba 'both' Grk ámphō 'both' Av uba- 'both' Skt ubháu 'both' Toch B antapi | | | | Numbers | JPM |
| *b ^h oud ^h éye/o- | waken, point out | Lith baudžiù 'waken' OCS buditi 'waken' Av baoḍayeiti 'indicates' Skt bodháyati 'wakens' | | | | Sight | JPM |
| *b ^h rak- | squeeze together | Grk phrássō 'push together' Toch B prākre 'firm' Lat fartus 'thick' Olr barc 'storm, fury' | | | | Bend and Press | JPM |
| *b ^h re ġ - | break | Lat frangō 'break' NE break | North-West | | | Reductive Activities | JPM |

Sheet1

| | | | | | | | |
|-----------------------------|------------------------|--|------------------|--|--|----------|---------------|
| *b ^h reh , ġ - | shine | | | Present I: bhráġate [3sg.med.] (RV+) Aorist R: ábhrāt [3sg.act.] (RV), bhráġyāsam [1sg.opt./prec.act.] (AV 17.1.20) Aorist mediopass: ábhrāji [3sg.] (RV 05.054.06) Aorist IṢ: bhráġiṣīya [1sg.opt.med.] (MS) | | | IIAL |
| *b ^h reh . wr, | spring | OE brunna 'spring' [> NE burn] Grk phréār 'fountain' Arm albiwr 'spring' | r/n Heteroclitic | | | Water | JPM |
| *b ^h réh : t(ē)r | brother | | | | | | Beekes |
| *b ^h réh □ter- | ± brother | Olr brāthair Lat frāter NE brother OPrus brāti OCS bratrŭ Grk phrētēr Arm elbayr Av brātar- Skt bhrā tar- Toch B procer | | | | Kinship | JPM Beekes |
| *b ^h reh □triyom | brotherhood | Grk phrātría Skt bhrātryam OCS bratrŭja | | | | Kinship | JPM |
| *b ^h reh □i- | destroy, cut to pieces | Lat friō 'tear apart' Rus briti 'shave' Skt bhrīṇānti 'injure, hurt' Olr ro-bria [subj.] 'may spoil, destroy' | | | | Conflict | JPM |
| *b ^h reih □ | cut off, shave | | | Present IX: bhrīṇānti [3pl.act.] (RV) Aorist S: bhreṣate [3sg.subj.med.] (RV) | | | IIAL |

Sheet1

| | | | | | | | |
|------------------------|---------------------------|--|--|---|--|---------------|------|
| *b ^h rem- | flicker | | {1} Most probably, an aniṭ-root set-forms (bhrāmyate, bhrānta-) are secondary and/or late. | Present I: bhrāmāsi [2sg.act.] (BĀU+), bhramyāt [3sg.prec.] (Sū.) Present IV: bhrāmyate [3sg.med.] (Up.+) Caus: bhramay° (Sū.+) Intensive: bambhramyamāṇa - [ptc.med.] (Up.+) TA-Ptc.: bhrānta- 'having wandered about, transmigrating' (Ep.+) | | | IIAL |
| *b ^h rem- | make a noise (of animals) | OE bremman 'roar' Skt bhramarā- 'bee' Lat fremō 'growl, roar' NHG brummen 'growl, grumble, hum' Pol brzmiec 'resound' | | | | Animal Noises | JPM |
| *b ^h renk- | fall off | | {1} [LK] Thus Gotō 1987: 231. Lubotsky 1997a: 1006, who takes bhrāśat as pres. inj., must be corrected. The causative bhrāśayan (RV 10.116.05) probably belongs to another root, bhrāś 'to be/make sharp', contra Lubotsky 1997a: 1006 see Jamison 1983: 86 Gotō 1987: 232. {2} [AL] bhrāśtākṣa- [adj] 'having fallen eyes [demon]' (AVP), cited by EW Aia, does not exist (AVP(O) 6.24.3 reads trāśtākṣa-). {3} [AL] Despite Adams' criticism (s.v.), this etymological connection, for the first time suggested by Jasanoff, seems semantically and phonologically cogent. The nasal in the root must be old, since the apparent forms without a nasal belong to another root, see fn. 1. | Present I: bhrāmśate [3sg.med.] (AVP 6.23.1+) Present IV: bhra(m)śyate [3sg.med.] (TĀ+) Aorist A: bhrāśat [3sg.inj.act.] {1} (RV 10.173.01) TA-Ptc.: bhrāśtā- 'fallen down' (AV 20.136.7, 20.136.8 (?), TSp+) {2} | | | IIAL |
| *b ^h rentós | stag | | | | | Fauna | JPM |
| *b ^h reu- | seethe | Oir berbaid 'boils, seethes' Lat ferveō 'boil' NE brew Alb brumë 'dough' Skt bhurvāṇi- 'restless, excited' Lat dēfrutum Thracian brūtos 'a kind of beer' | The meaning 'brew' is found only in the Germanic outcomes of *b ^h reu- but there are nominal forms in Italic (Lat dēfrutum) and Thracian brūtos 'a kind of beer' that indicate an alcoholic drink. | | | Food Prep | JPM |

Sheet1

| | | | | | | | |
|--|------------------------|--|---|---|--|----------------------|------------|
| *b ^h reus- | break, smash to pieces | Olr bruid 'breaks, crashes' Lat frustum 'piece' NE bruise Alb breshêr 'hail' | West Central perhaps an enlargement of *bher- 'strike (through), split' | | | Reductive Activities | JPM |
| *b ^h reus- | swell | Olr brū 'belly, breast' NE breast Rus brostī 'bud' | West Central | | | Blow Up | JPM |
| *b ^h rg- *b ^h r ġ ^h -sk- | roast | Lat frīgō 'roast, bake, fry' Grk phrūgo 'roast' Skt bhrjāti 'roasts' | {1} [LK] A hypersanskritized form of the regular 3pl.opt., i.e. +bhrjéyur (Hoffmann 1992: 813f.) or a 3pl. form of yet-optative (Kulikov 2001: 608). {2} [AL] The only feasible option is to start from an sk-present. Since the resulting cluster is voiced, the root-final stop must be a voiced aspirate. For the further development (cf. Skt. majján- < *mazj(h)an-) see Lubotsky2001a. | Present VI: bhrjāti [3sg.subj.act.] (RV 04.024.07+), bhrj(j)yéyur [3pl.opt.act.] {1} (MSp 1.10.11:151.6 = KSp 36.6:73.1) TA-Ptc.: bhrṣṭa- 'fried, roasted, baked' (GrSū.+) | | Food Prep | JPM IAL |
| *b ^h r, ġ ^h ñtiġ- | high one | OBrit Brigantia OHG Burgunt Skt br̥hatī 'high, lofty' | | | | Dieties | JPM |
| *b ^h r, ġ ^h ús *b ^h r, ġ ^h ént- | high | Arm barjr 'high' Hit parku- 'high' Toch B pārkare 'long' Av bərəzant- 'high' Skt br̥hāt- 'high, great' Lat for(c)tis 'strong' | A nominal form *bher ġ ^h s gives both NE barrow and borough (as well as NHG Berg 'mountain' and Burg 'fortress' and Av barš 'height') | br̥hatī- [f] (RV+), bá | to bring out a loud word': Skt. váco ... bharatā br̥hāt (RV 03.010.05) — YAv. bərəzəm barāt_ ... vācim (Yt 10.113 Yt 17.61) 'high mountain': Skt. br̥had-giri- 'coming from the high mountains' (RV) — YAv. garaiō bərəzantō 'high(est) sun': Skt. svār br̥hāt (RV) — OAv. barəzištəm barəzimanəm ... huuarə 'the sun, the highest of the heights' (Y 36.6), YAv. huuarə barəzištəm barəzimanəm (Vr 19.2) | Position | JPM IAL |
| *b ^h ris- *b ^h ers- | fast | NWels brys 'haste, speed' Lat festinō 'hurry oneself' Lith burzdūs 'fast' Rus borzój 'fast' | North-West | | | Time | JPM |
| *b ^h rod ^h nós | pale | OCS bronū 'white, variegated [of horses]' Skt bradhnā- 'pale red, yellowish, bay [of horses]' Kashmiri bodurġ 'tawny bull' | It is noteworthy that the two traditions that reflect this word largely restrict it to animals. | | | Color | JPM |
| *b ^h rstís | point | Olr barr 'point, tip' Lat fastīgō 'make pointed, bring to a point' NE bristle Rus boršč 'hogweed' Skt bhrṣṭī- 'point' | | | | Shape | JPM |

Sheet1

| | | | | | | | |
|---------------------------------------|-----------------|--|---|---|--|---------------|------|
| *b ^h ṛtís | carrying | Lat fors 'luck' NE birth Skt *bhr̥tí- 'carrying' | | | | Convey | JPM |
| *b ^h ṛúh□s | eyebrow | Olr forbrū- NE brow Lith bruvis Rus brovī Maced abrou̯tes Grk ophrūs Av brvat- Skt bhrū- Toch B pār̥wāne | | | | Head | JPM |
| *b ^h ṛw- | (bolt of) cloth | Lith būrva 'piece of cloth' Grk pháros '[bolt of] cloth' | West Central probably derived from a verbal root such as *bher- 'weave, twine'; | | | Textiles | JPM |
| *b ^h seh□- | chew | | | Present II: psāhi [2sg.impv.act.] (AV, ŚB+) Abs: -psāya (BAU) TA-Ptc.: psātā- 'chewed, eaten, consumed' (KS, ŚB) | | | IIAL |
| *b ^h ud ^h -n-o- | ground | | {1} *bhudh-n-ó- probably from *bhudh-mn- ós, gen.sg. of *bhudh-men-. {2} [AL] For the Germanic reflexes of this word see Kroonen XXX. | | | | IIAL |
| *b ^h ud ^h nó- | bottom | Mlr bonn 'sole of foot' Lat fundus 'bottom' OE botm [> NE bottom] Grk puthmēn 'bottom, foot' Skt budhná- 'bottom, foot' Av bū́ na- 'ground' | In the south-east of the Indo-European world derivatives of this word are used to name the archetypical monster, i.e. the Greek Pūthō and Sanskrit áhir bhudhnyás 'snake of the deep' | | | Construction | JPM |
| *b ^h u ḡ os | buck, he-goat | Olr boc 'buck' NE buck Arm buc 'lamb' Av būza- '[he-]goat' Skt bukka- '[he-]goat' | | | | Fauna | JPM |
| *b ^h uto- | dwelling | Olr both 'hut' NWels bod 'dwelling' OPrus buttan 'house' Lith būtas 'house' | from *b ^h eu(h□)- | | | Being & Doing | JPM |
| *bukk- | howl | SC búkati 'howl' Grk búktēs 'howling' Av buxti- 'howling' Skt bukkati 'barks' | | | | Animal Noises | JPM |
| *bulis | ± rump | Lith bulis 'rump' Skt buli- 'vulva anus' | | | | Body (Lower) | JPM |
| *d(e)h , -ti- | give | | {1} The zero-grade is original it is quite probable that full grade was introduced independently in Indo-Aryan and Iranian. | Only in compounds | | | IIAL |

Sheet1

| | | | | | | | |
|---|------------------|---|---|---|--|---------------------|-------------|
| *d ^(h) b ^h en ġ ^h - | make dense | | {1} [AL] This root is clearly a "Reimbildung" to *h ₃ emgh- 'to tie in' or even a compound, cf. PSI. *debelъ [adj] 'fat' PSI. *doblъ [adj] 'strong' or Skt. dabhrá- 'small' (?) {2}[AL] Iranian shows secondary semantic development along the lines 'to make dense' > 'to make strong, sturdy' > 'to be helpful, supportive'. | Caus: bamhayate [3sg.med.] (KS, MS, Br.) TA-Ptc.: bālhā- (RV 01.181.07) ní-bālhā- (RV 01.106.06) | | | IIAL |
| *d ^(h) b ^h n ġ ^h -u- | dense | | | bahvī- [f] bāmhiyas- [comp] 'very fat' (MS) bāmhiṣṭha- [sup] 'strongest, most' (RV+); | | | IIAL |
| *d ^(h) ek ^w -s- | show | Hit tekkussa- 'show' Av daxša- 'teach, show' | | | | Speech | JPM |
| *d ^(h) erb ^h - | ? | | {1} [AL] The connection with WRuss. dórob (< IE *d(h)orbh-ó-) 'basket, box', etc. seems highly doubtful to me. | Present VI: drphāti [3sg.act.] (SB) TA-Ptc.: sám-drpdha- 'bundled together, tied into a bunch' (SB) | | | IIAL |
| *d(h ₃)eu- | be favourable to | Skt dúvas- 'worship', duvasyāti 'honours' Olr de(i)n 'strong' Lat bonus 'good' < OLat duenos | | | | Sacred | JPM |
| *d(o)lh ₃ (-i-)g ^h o-h ₃ iu- | with a long life | | | | | | IIAL |
| *daih□wēr | husbands brother | Lat lēvir Grk dāē r Skt devār- OE tācor Lith dieveris OCS děverī Arm taygr | {1} The Iranian forms reflect Plr. *θaiyār- with unexplained θ-. | | | Kinship | JPM IIAL |
| *dapnom | ± ritual meal | Lat daps 'sacrificial meal' ON tafr 'sacrificial animal' Grk dapánē 'ostentatious expenditure, consumption' Arm tawn 'feast' Hit tappala- 'person responsible for court cooking' Toch A tāp- 'eat' | derives from *dap- 'apportion' | | | Food & Drink | JPM |
| *das- | lack | Hittite, i.e. das(u)want- 'blind' dialectal Norw tasa 'unravel' Skt dāsyati 'suffers want, becomes exhausted' | | | | Exchange & Property | JPM |
| *dē | away (from) | Olr di 'away' Lat dē 'away' | North-West | | | Position | JPM |

Sheet1

| | | | | | | | |
|------------------------------------|--------------------------------|---|--|---|--|-----------------|-------------|
| *dedrús | tetter, skin eruption, leprosy | OE teter (> NE tetter) Skt dadrú- 'skin eruption, a kind of leprosy' ON taka 'touch' Toch B tāk- 'touch' | Apparently derived from *der- 'split'. | | | Health&Sickness | JPM |
| *deg- | touch | | | | | Sensation | JPM |
| *deh ₁ - | bind | Alb duaj 'sheaves' Grk déō 'bind' Skt dyāti 'bind' | {1} [LK] See Kulikov 2000b. | Present IV/VI {1}: adyah [2sg.impf.act.] (RV 02.013.09+) Perfect: ʔdadé [3sg.med.] (RV) Passive: ʔdiyāmāna- [ptc.] (YVm+) Aorist mediopass: saṃ-dāyi [3sg.] (RV 01.139.01) TA-Ptc.: ní-dīta- 'bound on' (RV) na-ptc.: á-saṃ- dīna- 'unbound' (RV 08.102.14) | | Binding | JPM IIAL |
| *déh ₁ .mn ₁ | band | Grk diádēma 'diadem' Skt dāman- 'band' | from *deh ₁ - 'bind' | | | Textiles | JPM |
| *deh ₂ - | track down | | {1} [AL] Gr. δίζημαι [1sg.med.] 'to search, to investigate' < PIE *dēh ₂ - can hardly be connected. | Present II: abhi- dāti [3sg.act.] (SV 1.336=1.4.1.5.5) Present I: abhi- dāsati [3sg.act.] (RV+) (based on the subjunctive of the sigmatic aorist) | | | IIAL |
| *deh ₃ -w- | far | Gr. दें 'far' (Adv.) Lat. dū-dum 'some time ago' | | | | | Celt. |
| *deh ₃ .u- | burn | | | Present V: dunóti [3sg.act.] (AV+) Passive: dūyate [3sg.] (RV-Kh. 7.7.2, ChUp.+) na-ptc.: dūná- 'burned, tormented' (AV+), duna- (ŚrSū.) TA-Ptc.: duta- 'burned' (AĀ) | | | IIAL |

Sheet1

| | | | | | | | |
|---|----------------------|--|--|--|---|---------------------|-------------|
| *deh _s - | give | | | | 'to give life': Skt. ásum ... dadātu (RV 10.059.07) — Av. ahūm dadāt_ (Y 46.13) dātar- anjəuš (Y 50,11) | | IIAL |
| *deh _s - | give | Lat dō 'give' Lith dúoti 'give' OCS dati 'give' Arm tam 'give' Hit dā- 'take' Grk dídōmi 'give' Av dadāiti 'gives' Skt dádāti 'gives' Lat reddō [< *re-didō] 'give back' | {1} On the basis of pf.med. dadé, a secondary root dad- 'to keep' (RV+) has been formed, cf. Gotō 1987: 171f.: dādāte [3sg.], -dadyāmāna- [ptc.]. {2} [AL] Unclear remain the following forms, which are sometimes considered to belong to this root: OAv. vidīšəmna- (Y 51.1), vī dām (Y 32.6), dāiietē (Y 31.11). {3} [AL] In Iranian, the Pllr. roots *daH- 'to give' and *dhaH- 'to put' have largely merged into Plr. *daH-. Except for dazdē [3sg.pres.med.] (Y 30.4), dazdā [3sg.pres.inj.med.] (Y 27.13), which unambiguously belong to Pllr. *dhaH- because of Bartholomae's Law, the forms are indistinguishable. For this reason, all forms are given here together. | Present III: dádāti [3sg.act.] (RV+) dádāt [3sg.subj.act.] (RV+), dehi [2sg.impv.act.] (RV+), daddhi [2sg.impv.act.] (RV), datte [3sg.med.] (RV+) Aorist R: ádat [3sg.act.] (RV+), dāti [3sg.subj.act.] (RV), deyām [1sg.opt.act.] (RV 08.001.05), ádi [1sg.med.] (KS-MS) Aorist A: ádat (á-adat) [3sg.act.] (RV) (a secondary formation on the basis of 3sg.med. root-aor. *a-dH-a) Aorist S: dāsat [3sg.subj.act.] (RV), adiṣi [1sg.med.] (AV) Aorist mediopass: dāyi [3sg.] (RV) Perfect: dadáu [3sg.act.] (RV+), dadé [3sg.med.] (RV+) {1} Passive: dīyāte | | Give & Take | JPM IIAL |
| *déh _s r/n- | gift | Olr dān Lat dōnum Lith duonis OCS danī, darū Grk dōron Arm tur Skt dāna- | {1} [AL] There are no indications for the neuter gender of this word. dāna- [m, n] 'gift liberality' (RV+), dāna-vant- [adj] 'bestowing gifts, liberal' (RV 08.032.12) contain suffix -ana- (cf. Lubotsky 1988: 84f.) and do not belong here. | | to give a gift': Skt. dānam dā- (Mn., | Exchange & Property | JPM IIAL |
| *déh _s tōr-h _s wesuom | those who give boons | | | | | | Beekes |

Sheet1

| | | | | | | | |
|-----------|------------------------------|--|---|--|--|---------------------|-------------|
| *deh□(i)- | cut up; divide distribute | Alb pēr-daj 'distribute, divide, scatter' Grk daíomai 'divide feast on' Skt dāti 'cuts up, divides' Olr dām 'host, retinue' Grk dêmos 'people' NE tide and time Arm ti 'age, time' | {1} [LK] Possibly, the same root as dā [2] 'to mow, to cut off' and day [1] 'to destroy' see Kulikov 2001: 494ff. {2} See Kulikov 2000b. {3} Uncertain. [AL] YAv. viōātu- [m] 'decay, decomposition' may rather be connected with dā [3] 'to bind'. | Present I: dáyate [3sg.med.] (RV+) (< PIE *dh₁-eie-), Present IV/VI {2}: ava-dyāti [3sg.act.] (YV+) Aorist S: áva ... dišīya [1sg.opt.med.] (RV 02.033.05) Aorist R: avādāt [3sg.act.] (MS+), áva ... adīmahī [1pl.med.] (VS), dīšva [2sg.imp.act.] (VS+) TA-Ptc.: (nir-)áva- tta- '(completely) distributed' (KS+) | | Measure & Quantity | JPM IIAL |
| *déh□mos | (segment of) people | Olr dām 'troop, company, retinue' Grk dêmos 'people' | West Central from the verbal root *deh□- 'cut, divide' | | | Social Organization | JPM |
| *deh□nu- | river | Av dānu- 'river' | unclear most famously attested in the river names 'Danube' and 'Don' Possible "getting a fire started" | | | Water | JPM |
| *deh□u- | kindle, burn | Oir doud Grk daio 'kindle, burn' Skt dunoti 'kindles, burns' | | | | Fire | JPM |
| *dei- | shine, be bright | ON teitr 'glad' Grk déato 'is seen' Skt dīdeti 'shines is bright' | | | | Light & Dark Air | JPM |
| *dei-no- | day | Lat dīum 'sky' Skt dyáuṣ 'sky' Goth sinteins 'daily' Lith dienà 'day' Olr trēdenus 'three-day period' Lat nundinae 'the ninth [market] day' OCS dīnī 'day' Skt dīnam 'day' | from *dei- 'shine' | | | Time | JPM |

Sheet1

| | | | | | | | |
|-------------------------|----------------------|--|--|---|--|-----------|-------------|
| *deih ₂ - | shine | | | Perfect: dīdāya [3sg.act.] (RV+), dīdayat [3sg.subj.act.] (RV+), ádīdet [3sg.ppf.act.] (RV+) (the pres. meaning accounts for the ptc. dīdiyant-) Caus.: -dīpayas [2sg.inj.act.] (RV 06.022.08 +), dīday° (JB) | | | IIAL |
| *deik- | rule, canon, measure | Skt diś- □ dīśā- 'direction' Grk díke 'justice' ON teigr 'plot of land' OHG zeiga 'directions' Skt deśá- 'direction, region' | The base meaning of the word has been explained as 'norm' or 'fixed point' which might then develop into meaning 'direction', a 'Wxed area' such as a plot of land, etc. | | | Direction | JPM |
| *deik- | show | Lat dīcō 'say' OE tēon 'accuse' Grk deiknumi 'show' Av disyeiti □ daēsayeiti 'shows' Skt diśāti □ deśayati 'shows' | {1} [AL] The parallel, given in EWAla, viz. Skt. ásūn dideśa (AV 12.2.55) ~ YAv. disiāt_ ... aruhe (V 9.44) seems coincidental to me. The Avestan passage reads: disiāt_ ahmāi naire auuat_ miždām parō.asnāi arjvhe vazduuara vahištahe arjhāuš 'As a reward there in the future life, the [continuous] duration of Good Existence will be indicated for this man'. There is therefore no immediate connection between the verb and arjvhe 'in the (future) life'. | Present III: dīdeštu [3sg.impv.act.] (RV), didiḍhi [2sg.impv.act.] (RV), dīdešati [3sg.subj.act.] (RV) Present VI: diśánt- [ptc.act.] (RV 10.110.07 +), diśāmāna- [ptc.med.] (RV 03.031.21 +) Aorist S (secondary): adikṣi [1sg.med.] (RV), ádiṣta [3sg.med.] (RV) Perfect: didéśa [3sg.act.] (AV+) Intensive: dédiśánt- [ptc.act.], dédiṣte [3sg.med.] (RV) dediśyá° (RV-Kh., AV+) TA-Ptc.: dištá- 'shown (direction)' (RV+) | | Speech | JPM IIAL |
| *deiu-ih ₂ - | goddess | | | | goddess dawn': Skt. devīm uśásam (RV) — Gr. (Hom.) 'Hóa δίαυ, 'Hwç ... δία | | IIAL |

Sheet1

| | | | | | | | |
|---------|-----|---|--|--|---|---------|-------------|
| *deiwós | god | <p>Olr dīa Lat deus Lith diēvas Hit sius Skt devá- Av daēva- 'demon'</p> | <p>an o-stem derivative of *dyeu- 'sky, day' < *dei- 'shine, be bright' and it is widely attested across the Indo-European groups</p> | | <p>'god(s) and mortal(s)': Skt. devá-mártya- (RV+) — Av. daēuua-mašīia- 'all gods / daēvas': Skt. víśve devāḥ (RV+) — Av. daēuuā vīspāḥhō 'most divine among the gods / most daēvic among the daēvas': Skt. devánām devátama- (RV 02.024.03) — YAv. daēuuō daēuuanam daēuuō.təmō 'to worship the gods / daēvas': Skt. devayajñá- [m] 'sacrifice to the gods' (KS+) devayáj- [adj] 'sacrificing to the gods' (VS+) — YAv. daēuua-iasna- [adj], daēuua-iiáz- [adj] 'worshipping the daēuvas' 'surrounded by gods/daēvas': Skt. devávant- [adj] (RV) — YAv. daēuuauuant- 'all gods/daēvas': Skt. víśve devāḥ — OAv. daēuuā vīspāḥhō (Y 32.2) 'agreeable to the gods / daēvas': Skt. devājuṣta- [adj] (RV) — OAv. daēuuō.zušta- [adj] (Y 32.4), OP *bagá-dušta- [m] PN, Med. *bagá-zušta- [m] PN</p> | Dieties | JPM IIAL |
|---------|-----|---|--|--|---|---------|-------------|

Sheet1

| | | | | | | | |
|----------|-------------------------------------|---|---|---|---------------------------------------|------------------|-------------|
| *dek- | take, accept ?to take hesitantly | Lat decet 'it is proper', doceō 'seem, appear' OE teohhian 'determine, consider think, propose' ORus dositi 'find' Grk dék(h)omai 'take, accept receive graciously expect' Hit takki 'is the same as' Skt dāśnóti 'brings an offering' | {1} [AL] The present dāsti may derive from an original reduplicated present *di-dék-ti, *dé-dk-nti > *deh : k-nti with generalization of the weak stem. The aorist is supplied by vidh, cf. Garcia Ramón XXX. {2} The stem dīkṣa- has given rise to the secondary root dīkṣ-, which forms a separate paradigm after the RV: caus. dīkṣáy° (KS, TS+), sigm. aor. ádīkṣiṣṭa (YV+), pf. didīkṣé [3sg.med.] (Br.+), TA-Ptc. dīkṣitá- (AV+). | Present II: dāsti [3sg.act.] (RV 01.127.04 (bis)), dāśat- [ptc.act.] (RV 07.014.03, 07.017.07 dāśataḥ [nom.pl.]) {1} Present I: dāśati [3sg.act.] (RV+) Present V: dāśnóti [3sg.act.] (RV 08.004.06) Perfect: dadāśa [3sg.act.] (RV+), dāśvāms- [ptc.act.] (RV+) (< *de-dk-) Desid: dīkṣate [3sg.med.] 'to dedicate oneself, to consecrate oneself' (YVp+) (< *di-dk-) {2} | to worship with an excellent praise': | Give & Take | JPM IIAL |
| *dek- | thread, hair | Olr dūal 'lock of hair' NE tail Goth tagl 'a single hair' ON tǣg 'thread, fibre' Khot dasa- 'thread' Skt daśā- 'fringe' Toch A šāku 'head hair' | | | | Hair Textiles | JPM |
| *dekes- | honour | Lat decus 'honour' Av dasəma- 'defence, respect' Skt daśasyāti 'serves, obliges' Olr dech 'best' | | | | Give & Take | JPM |
| *dékm(t) | 10 ten | Olr deich Lat decem NE ten Lith dešimtis OCS desęti Alb dhjetë Grk déka Arm tasn Av dasa Skt dāśa Toch B šak | The form with a final *-t appears most clearly in the formation of the decades and of the word for 'hundred'. It is probably the original form from which the shorter variant was created by the loss of the final *-t in the otherwise very rare cluster *-mṭ. | dāśa [nom.acc.pl.], | ten months (pregnancy, foetus)': | Skt Numbers | JPM IIAL |

Sheet1

| | | | | | | | |
|---------------|-------------------|---|---|--|--|----------------------|-----|
| *dek̑m̑(t)-os | 10th tenth | OIr dechmad Lat decimus NE tenth Lith dešim~tas OCS desetī Alb dhjetë Grk dékatos Av dasəma- Skt daśamā- Toch B škante | | | | Numbers | JPM |
| *déks-i-no-s | right | OIr dess Lat dexter OHG zeso Lith dėšinas OCS desnū Alb djathtë Grk deksiós Av dašina- Skt dākṣina- 'right, south' | | | | Direction | JPM |
| *del- | carve, split, cut | OIr dello 'form' Lat dolō 'hew' ON telgja 'carve' Lith dalti 'divide' Alb dalloj 'cut' Grk daidállō 'work cunningly' ?Skt dālāti 'bursts, cracks' | As we see, it means 'cut' in Germanic, 'divide' in Baltic, but shows extended meanings associated with manufacture in Greek (cf. Daedalus who invents wings for himself and his too high-flying son Icarus) and in Celtic 'form'. | | | Reductive Activities | JPM |
| *del- | flow | NE tallow | | | | Liquid Motions | JPM |

Sheet1

| | | | | | | | |
|-----------------------|------------|---|--|--|--|----------|------|
| *del ḡ ^h - | hold | | | Present I<VII: dr̥mhata [2pl.impv.act.] (RV+) Present VI<VII: dr̥mhéthe [2du.impv.med.] (RV, AV) Present IV: dr̥hya [2sg.impv.act.] (RV), dr̥hyasva [2sg.impv.med.] (RV) Aorist IS: adr̥mhīt [3sg.act.] (KS+) Perfect: dādr̥hānā- [ptc.med.] (RV), ādadr̥hanta [3pl.ppf.med.] (RV 10.082.01) Caus: adr̥mhayata [3sg.impf.med.] (AV 4.11.7), dr̥mhayati [3sg.act.] (Sū.) TA-Ptc.: dr̥ghá- (< *dr̥zghá-) 'fixed, firm, solid' (RV+) dr̥mhitá- 'firm, fastened' (RV) | | | IIAL |
| *dem(h□)- | build (up) | Grk démō 'build' HierLuv tama- 'build' OHG zeman 'be fitting' NE timber Khot pa-dīm- 'make' Toch AB tsām- 'increase, grow' | | | | Dwelling | JPM |
| *demelís | worm | Alb dhemjē 'larva, caterpillar, maggot' Grk demeléas 'leeches' | | | | Bug | JPM |

Sheet1

| | | | | | | | |
|------------|---------------------|---|---|---|--|----------|-------------|
| *demh,- | tame | | | Present ĀYA: damāyāti [3sg.act.] (RV+) Present ANYA: damanyat [3sg.inj.] (RV 10.099.06) dāmyata [2pl.impv.act.] (ŚB=BĀU) Aorist A: dānaḥ [2sg.inj.] (RV 01.174.02) (with irregular -n-) Caus: damāyati [3sg.act.] (RV+) TA-Ptc.: dāntā- (Br.+) | | | IIAL |
| *demh□- | tame, subdue | Olr damnaid 'binds, breaks [a horse]) Lat domō 'break, tame' NE tame Grk dāmḗmi 'break' Hit damaszi 'presses, pushes' NPers dām 'tamed animal' Skt dāmāyati 'subdues' | The meanings also extend to other animals, e.g. Olr dam 'ox', and frequently refer to the subduing of human opponents in Greek and other groups | | | Fauna | JPM |
| *dems-pot- | master of the house | Grk despótēs Skt dām-pati- | Greek-Indo-Iranian Structurally part of the same set that gives us 'master of the clan', i.e. *wik (-ā)-pot- (in Baltic, Albanian, and Indo-Iranian) | dāmpatī [nom.acc.du.] 'husband and wife' (RV+) | | Marriage | JPM IIAL |

Sheet1

| | | | | | | | |
|-----------|---|---|-----------------------|--|--|---------------------|------------|
| *denk- | bite | NE tongs Alb darē 'tongs' Grk dáknō Skt dáśati Toch B tsāk- | | Present I<VI: dāsanti [3pl.act.] (MS+), dāśa [2sg.impv.] (RV+), dāśant- [ptc.act.] (RV+) Aorist S: ? dāñkṣur [3pl.inj.act.] (MGS 2.16.3) Perfect: dadaśvāms- [ptc.act.] (RV 04.038.06, AVP 3.16.6) Caus: damśay° (Sū.+) Intensive: dāndaśāna- [ptc.med.] 'snapping (of horses)' (RV 10.095.09) Abs: damṣtvā (Br.+) TA-Ptc.: daṣtā- (AV+) | | Vital Functions | JPM IAL |
| *dens- | teach, inculcate a skill have miraculous power, be capable of smth. wondrous | Grk didáskō 'teach' Av dīdāinhē 'am instructed' | Graeco-Aryan isogloss | Caus: damśayas [2sg.inj.act.] 'make capable' (RV 10.13 | | Knowledge & Thought | JPM IAL |
| *dens-os- | miraculous ability | | | | from *dens- 'teach, inculcate' ? (SGM) | | IAL |
| *deph□- | strike | SC depiti 'strike' Arm top'em 'strike' | West Central | | | Conflict | JPM |
| *der- | sleep | Lat dormiō 'sleep' OCS dremljō 'doze' Grk édrasthon 'slept' Skt drāti 'sleeps' | | | | Knowledge & Thought | JPM |

Sheet1

| | | | | | | |
|----------------------|----------------|--|---|--|----------------------|-------------|
| *der- | tear off, flay | NE tear Lith diriù 'flay' OCS derq 'flay' Grk dérō 'skin, flay' Arm teřem 'flay, strip bark' Av darədar- 'split' Skt drṇāti 'causes to burst, tears' Toch AB tsār- 'separate' | {1} [LK] The set-forms are secondary and cannot serve as evidence for the final laryngeal see now Praust 2000. {2} [LK] With the secondary suffix accentuation (see Kulikov 1998). {3} Thus Oldenberg, Geldner, Kümmel the form may also belong to drā 'to run' (thus Grassmann, Lubotsky) see Kümmel 2000: 230f. {4} The form cannot serve as evidence for the set-character of the root. {5} Based on the anīṭ-variant of the -ya-present, probably preserved in the late Vedic -driyāte (only with ā) 'to heed, care' (Br.+, but cf. also OAv. Y 46.5 ā ... dritā [3sg.aor.opt.med.] 'to respectfully receive', Insler 1975: 266) the genetic relationships between dīryāte 'to crack, to break, to burst' and -driyāte 'to heed, to care' (< "to make/become available' < 'to open' ?) are unclear see Kulikov 2001: 96f. and 298f. {6} [AL] A nonce form, see Praust 2000: 425, fn. 2. {7} [AL] For a discussion of this form, see Praust 2000: 438, fn. 40. | Present IV: dīryeta [3sg.opt.med.] (YVp+), dīryāte [3sg.med.] (ŠB) {2} Present IX: drṇiyāt [3sg.opt.act.] (ŠB) Aorist R: dārt [3sg.inj.act.] (RV) Aorist S: darṣasi [2sg.subj.act.] (RV) darṣīṣta [3sg.opt.med.(prec .)] (RV 01.132.06) SI-impv: dārṣi (RV) Perfect: dadāra [3sg.act.] 'has burst, has scattered (intr.)' (RV 06.027.04) dadrvāms- [ptc.act.] 'to burst' (tr.) (RV 04.001.14), dādrṇi [2sg.impv.act.] 'to burst' (tr.) (RV 01.133.06), - dadrvur [3pl.act.] (RV 04.019.05) {3} Caus: daráy° 'to storm, to attack' (RV 06.027.04) | Reductive Activities | JPM IIAL |
| *derb ^h - | turn, twist | OE tearflian 'turn, roll, wallow' Arm tořn 'cord' Av dərəβḏa- 'bundle of muscles' Skt drṇhāti 'knots, ties' | | | Motion | JPM |
| *derg ^h - | grasp | MLr dremm 'troop, band of people' ON targa 'shield' NE targ Grk drássomai 'lay hold of, grasp with the hand' Arm trc'ak 'bundle of brushwood' | West Central | | Give & Take | JPM |
| *derh□- | work | Lith dar(i)jaũ 'do, make' Grk dráo 'make, do' | West Central | | Being & Doing | JPM |

Sheet1

| | | | | | | | |
|-----------|-----------|---|---|---|---|---------------------|----------|
| *derk- | glance at | <p>Olr ad-con-darc 'have seen'</p> <p>Goth ga-tarhjan 'distinguish, note'</p> <p>Alb dritē 'light'</p> <p>Grk dérkamai 'see'</p> <p>Skt dr 'ḍti- 'sight'</p> <p>reduplicated Perfects:</p> <p>Grk dédorka</p> <p>Av dādarəsa</p> <p>Skt dadārśa</p> | <p>This verb may have been the expression par excellence of the baleful look of the dragon or monster of Proto-Indo-European mythology. Both Greek (drákōn whence, via Latin, NE dragon) and Olr (muidris '+sea-dragon') have derivatives of this root as the word for 'dragon' (though the formations are different and independent: *drkónt- and *drksi- respectively).</p> <p>{1} In suppletive relation with the root pás, which supplies present forms.</p> <p>{2} Nonce formation.</p> <p>{3} [LK] For the relationship between these two meanings, see Scarlata 1999: 234ff.</p> | <p>Aorist R {1}: drśan [3pl.inj.act.] (RV+), dārśan [3pl.subj.act.] (RV+)</p> <p>Aorist S: ádrkṣata [3pl.med.] (RV), drkṣase [2sg.subj.med.] (RV 01.006.07) {2} adrākṣam [1sg.act.] (Br.+)</p> <p>Perfect: dadārśa [3sg.act.] (RV+), dadrkṣé [3sg.med.] (RV+)</p> <p>Passive: drśyáte [3sg.] (RV 10.146.03 +)</p> <p>Aorist mediopass: ádarśi [3sg.], ádrśran, ádrśram [3pl.] (RV+)</p> <p>Fut: drakṣyāti [3sg.act.] (Br.+)</p> <p>Caus: darśáyati [3sg.act.] (AV+)</p> <p>Desid: dídrkṣ° (RV+)</p> <p>Abs: drṣtāya (RV 10.034.11), drṣtvá (AV)</p> <p>Inf: dráṣtum 'to see' (AV+)</p> <p>TA-Ptc.: drṣtá- 'apparent, visible' (RV+)</p> | <p>'visible over a long distance': Skt. dūre-drś- 'visible far and wide' (RV) — Av. dūraēdarštəma- 'looking far' 'looking like sun / seeing sun-light': Skt. svar-drś- [adj] 'looking like sun seeing sun-light' (RV) {3} Av. huuarə.darəsa- [adj] 'looking like sun'</p> | Sight | JPM IIAL |
| *derketos | visible | <p>Grk -dérketos</p> <p>Skt darśatá-</p> | West Central | | | Sight | JPM |
| *des- | enemy | <p>Grk doūlos 'slave' [< *dos-e-lo-]</p> <p>Av dahyu- 'region'</p> <p>Skt dāsá- 'demon, enemy barbarian slave'</p> <p>Skt dāsyu- 'demon, enemy of the gods, impious man'</p> | | | | Social Organization | JPM |

Sheet1

| | | | | | | | |
|---------------------|---|--|---|--|--|---------------------|---------------|
| *deu(s)- | be lacking | OE tēorian 'faint, grow weary fade [of colours]' > NE tire Grk déomai 'lack' Skt doṣa- 'crime' | {1} [AL] For this form see Kulikov 2001. {2} [AL] In spite of Mayrhofer's opinion to the contrary, the verbal root is clearly derived from duṣ- 'bad'. The long vocalism can easily be secondary. The oldest attested form of the verb is the red. aorist dūduṣat (RV 03.003.01), on the basis of which the caus. dūṣāyati with analogical long ū was created (type ādīdharat : dhārāyati). | Present IV: duṣyet [3sg.opt.act.] (AB+) {1} Caus.: dūṣāyanti [3pl.act.] (RV 07.104.09+) {2} Aorist RED: dūduṣat [3sg.inj.act.] (RV 03.003.01+) TA-Ptc.: duṣta- (Up., Sū.+) | | Exchange & Property | JPM IIAL |
| *deuh₁- | leave, go far away | Grk děn 'long, far' Hit tūwa 'to a distance' Skt dāvati 'goes', dūrā- 'distant, remote' | | | | Travel | JPM |
| *deuk- | pull ?carry to | Toch A tkā- 'will stir, consider' Lat dūcō 'lead' NE tow, tie Alb nduk 'pull hair out' Lat dūcō may also mean 'deduce' Grk deúkei 'considers' | | | | Convey | JPM Beekes |
| *dǵʰuh₁- | fish (for eating?) | | | | | | Beekes |
| *dʰ(e)h₁-ti- | position | | {1} [AL] In Iranian, full grade has been introduced into the root in accordance with the usual procedure (cf. Insler 1971). | | | | IIAL |
| *dʰ(e)h₁-tr- | creator | | {1} [AL] It is conceivable that all these words represent independent productive formations. | | | | IIAL |
| *dʰ(o)ngu- | dark | Hit dankuis 'dark' NWels dew 'mist, smoke' NHG dunkel 'dark' | | | | Light & Dark | JPM |
| *dh₁ékru *h₁ékru | tear | Lith ašara Hit ishahru Av asrū- Skt áśru- Toch B akrūna [pl.] OIr dēir OLat dacruma Lat lacrima NE tear Grk dákru | Problematic and some groups indicate an initial *d- and others give no indication of such a form. There is roughly an East–West dialectal split. The *d- may either be a prefix or a misdivision, e.g. *tod h₁ékru 'this tear' (cf. NE newt from a misdivision of the earlier an ewte). {1} [AL] The IE word most probably represented a compound *drǵk-h₁ékru- 'eye-bitter' (Kortlandt 1985b). | | | Vital Functions | JPM IIAL |
| *dh₁ǵʰh₁-mo- | athwart From side to side across. | | {1} ON keikr [adj] 'bent backwards' is not related to jihmā-, but reflects PIE *geig(h)-. | | | | IIAL |
| *dh₁ǵʰmós | aslant | Grk dokhmós 'slanting, oblique' Skt jihmā- 'athwart, oblique' | Greek-Indo-Iranian isogloss | | | Position | JPM |
| *dh₁tos | given | | | | | | Beekes |
| *dʰabʰros | craftsman | Lat faber 'workman, artificer, smith' Arm darbin 'smith' | From the root *dʰabʰ- 'put together' | | | Occupations | JPM |

Sheet1

| | | | | | | | |
|--|------------------------------|---|--|--|---|----------|------------|
| *d ^h al- | sprout | NWels dail 'leaf' Alb dal 'arise, appear, emerge' Grk thállō 'bloom' Arm dalar 'green' | | | | Trees | JPM |
| *d ^h e-d ^h h ₁ - *d ^h eb- | (sour) milk thick, packed | OHG tapfar 'weighty, strong' OPrus debīkan 'large' Rus debělyj 'strong' Hitt tabarna- 'ruler' Luvian tapar- 'rule' NE with dapper < MDutch | | In the RV, only oblique cases (from the stem dadhán-) are attested, nom.sg. dádhi | | Shape | IAL JPM |
| *d ^h eb ^h - | deceive, humble | | | Present V: dabhnuvanti [3pl.act.] (RV 01.055.07 +) Aorist R: ā-dabhúr [3pl.inj.] (RV), dabhan [3pl.inj.] (RV), dábhat, dabhāti [3sg.subj.act.] (RV), dabhanti [3pl.subj.act.] (RV) Aorist A: adabhat [3sg.act.] (YV+) Perfect: dadābha [3sg.act.] (RV), debhur [3pl.act.] (RV) dadāmbha [3sg.act.] (AV) (with secondary m in the root under the influence of the semantically close root dambh) Passive: dabhyate [3sg.] (RV 01.041.01) Desid: dípsati [3sg.act.] (RV+) Inf: ā-dābhe (RV 08.021.16) TA-Ptc.: ā- dabdha- 'undeceivable, unharm | 'undeceivable eye': Skt. cákṣur ... mitráyor ... várūṇayor ādabdham 'undeceivable eye of Mitra and Varuṇa (= sun)' (RV 06.051.01), ādabdha-cákṣus- (AV 13.2.44) — Av. dōiθrābiiō ... aōaoiiō ... miθrō (Yt 10.82) 'with infallible mental power': Skt. ādbhuta-kratu- [adj] (RV) — Av. aōaoiiō.xratu- [adj] | | IAL |
| *d ^h eb ^h - | harm | Lith dobiù 'beat, hit, kill' Skt dabhnóti 'hurts, injures deceives abandons') Hit tepnu- 'belittle' Av dab- 'deceives' | | | | Conflict | JPM |

Sheet1

| | | | | | | | |
|--|-----------------------------------|--|--|---|--|-------|---------------------|
| *d ^h éd ^h i | coagulated (sour) milk | OPrus dadan 'milk' Alb djathê 'cheese' Skt dádhi 'coagulated milk, thick sour milk, curds and whey' | | | | Meals | JPM |
| *d ^h ed ^h rs-i- *d ^h é g ^h ôm | be bold earth, perhaps earthly | Olř dū 'place, spot' Lat humus 'earth' Lith žėme 'earth' OCS zemlja 'earth' Alb dhe 'earth' Grk khthōn 'earth' Hit tēkan 'earth' Skt kṣam- 'earth' Toch A tkam 'earth' | {1} The vowel length is secondary. | | | Earth | IIAL JPM |
| *d ^h eg ^{wh} - *d ^h eg ^{wh} - | burn burn | Olř daig 'flame' Lat foveō 'heat, cherish' Lith degū 'burn', OCSžegō 'burn' Alb djeg 'burn', ndez 'kindle' Grk téphrā 'ash' Av dazaiti 'burns' Skt dáhati 'burns' Toch tsāk- 'burn' | {1} [LK] Although some occurrences show passive meaning, the suffix accent may be secondary and dahyate should be treated as a class IV present see Kulikov 2001: 292ff. | Present I: dáhati [3sg.act.] (RV+) nīr dahante [3pl.med.] (TS) Aorist S: adhāk [3sg.act.] (RV+) dhākṣat-, dākṣat- [ptc.act.] (RV), SI- impv: dhākṣi (RV) Aorist SIS: dhākṣīt [3sg.inj.act.] (GB+) Perfect: dadāha [3sg.act.] (Br.+) Present IV/Passive: dāhyase [2sg.med.], dāhyamāna- [ptc.med.] (RV- Kh. 3.15.20), dahyante [3pl.med.] (AV 12.4.3 +), dahyāmāna- [ptc.med.] (YVp+) {1} Fut: dhakṣy° (RV+) TA-Ptc.: dagdhā- (AV+) with -eh, - extension Present VI: kṣāyati [3sg.act.] (KS+) | | Fire | IIAL JPM IIAL |

Sheet1

| | | | | | | |
|------------------------------------|--|--|---|---|---|------|
| *d ^h eg ^{wh} - | miss the right moment, be off the mark | | | Present V: daghnuyāt [3sg.opt.act.] (KS, KpS) Aorist R: -dhak [2,3sg.inj.act.] (RV) daghyās [2sg.opt.act.] (RV 01.123.05) Fut: -daghiṣyante (JUB) | | IIAL |
| *d ^h eh ₁ - | put | | {1} [AL] In Iranian, the PlIr. roots *daH- 'to give' and *dhaH- 'to put' have largely merged into Plr. *daH-. Except for dazdē [3sg.pres.med.] (Y 30.4), dazdā [3sg.pres.inj.med.] (Y 27.13), which unambiguously belong to PlIr. *dhaH- because of Bartholomae's Law, the forms are indistinguishable. For this reason, all forms are given here together. | Present III: dādḥāti [3sg.act.] (RV+); dhattháh [2du.act.] (RV+); dadhmāsi [1pl.act.] (RV+); dādḥati [3pl.act.] (RV+) ádadhuh [3pl.impf.act.] (RV+); dadhé [1sg.med.] (RV+); dhatsé [2sg.med.] (RV+); dhatté [3sg.med.] (RV+) dadhre [3pl.med.] (RV+); dádhat [3sg.subj.act.] (RV+); dhehí [2sg.impv.act.] (RV+); dhatsva [2sg.impv.med.] (RV+) dádhat- [ptc.act.] (RV+) Aorist R: ádhāt [3sg.act.] (RV+); ádhuḥ [3pl.act.] (RV+); adhita [3sg.med.] (RV+); dhat, dhāti [3sg.subj.act.] (RV) dheyām /dheya?am/ [1sg.opt.act.] (RV) | 'to put down the feet': Skt. padó ní dadḥāti (RV 01.146.02) — YAv. pāḍa nidaṭaite (Yt 17.6) 'to put inside': Skt. antár dhā- 'to hide, cover' — Lat. inter-ficiō 'to destroy, kill' 'to give a name': Skt. nāma dhā- (RV+) — OAv. nāmam dadāt_ (Y 38.4+) — Gr. ὀνομα τίθεσθαι — Lat. nōmen indere — Hitt. ŠUM-an daiš | IIAL |

Sheet1

| | | | | | | | |
|--|-----------------------------|--|--|--|--|-----------------|-------------|
| *d ^h eh ₁ - | put, place | Grk títhēmi 'I set' Hit tittiya- 'establish' Av dadāiti 'puts, brings' Skt dādāhāti 'puts, places, lays' Toch B tattam 'will put' Lat facere NE do Lith dē'ti 'lay' OCS děti 'lay' Arm dnem 'put, place' Hit dā i 'puts, places', tēzzi 'says' Toch AB tās- □ tās- 'put, lay' | | | | Placement Verbs | JPM |
| *d ^h eh ₁ - | suck | Olř denid 'sucks' Lat fēlō 'suck' OHG tāju 'suck' Latv dēju 'suck' OCS dojq 'suckle' Grk thēsato 'sucked' Arm diem 'suck' Skt dhāyati 'sucks, suckles' | {1} [LK] Present I if derived from root dhayi (*dheih ₁ -e- thus Mayrhofer) or present AYA if derived from root dhā (*dhh ₁ -eje- thus Gotō 1987: 44f., Lubotsky 1989). {2} [LK] The form may also mean 'they have prepared' and thus belong to dhā- [1] 'to put' see Kümmel 2000: 275. | Present AYA {1}: dhāyati [3sg.act.] (RV+) Aorist SIS: adhaisīt [3sg.act.] (HirGS 1.17.5) Perfect: dadhūr [3pl.act.] 'they have sucked' (RV 09.099.03) (?) {2} Caus: dhāpāy ^o (RV) Inf: dhātave 'to drink' (RV), Abs: dhītṽā (ŚB) TA-Ptc.: dhītā- (AV+) | | Food & Drink | JPM IIAL |
| *d ^h eh ₁ - | uncle | Lith dėdė 'uncle' Rus djádja 'maternal uncle' Grk theĩos 'uncle' | West Central | | | Kinship | JPM |
| *d ^h eh ₁ -i-os- | suckle | | | | caring for the cows': Skt. gó-dhāyas- [adj] (RV 10.067.07) — O | IIAL | |
| *d ^h eh ₁ -lu- | suckling (in both meanings) | | {1} Connection with dhārú- is not very certain. | | | | IIAL |
| *d ^h eh ₁ -mn | placement | | {1} [AL] The idioms are doubtful: Skt. rtāsya dhāman 'abode of Rta' (RV) does not seem to correspond to OAv. (Y 48.7) ašā ... dāman where the two words are not combined Skt. víśvā ... dhāma 'all abodes' (RV 09.109.04) and YAv. vīspanam dāmanam (Yt 10.54) 'id.' are no standing expressions. | | {1} | | IIAL |
| *d ^h eh ₁ -i-nu- | suck(le) | | | | | | IIAL |
| *d ^h eh ₁ -lus | nourishing, suckling | Lat fēlix 'fruitful, prosperous, happy' Grk thēlus 'nourishing' Skt dhārú- 'suckling' Mlr deil 'teat' OE delu 'nipple, teat' | Derivative of the verb *dheh ₁ (i) - 'suckle' | | | Body (Upper) | JPM |

Sheet1

| | | | | | | | |
|-------------------------------------|--|---|---|---|--|----------------------|---------------|
| *d ^h éh .mi-/men- | what is established, law | Grk thémis 'law' Skt dhāman- 'law' | Derives from *d ^h éh- : - 'put, establish' | | | Law & Order | JPM |
| *d ^h éh .s | god ??holy | Grk theós Arm dik' 'the gods' Lat fēriae 'festival day' Skt dhiśāna- (epithet of various gods) Skt dhiśā 'with impetuosity' | | | | Dieties | JPM Beekes |
| *d ^h éh .tis | what is established | Lat conditiō 'basis' NE deed Grk thésis 'order' Skt -dhiti- 'position' | | | | Law & Order | JPM |
| *d ^h ei ġ ^h - | work clay; build up smear, plaster form, knead | Lat fīngō 'fashion' Skt déhmi 'smear, anoint' Toch AB tsik- 'fashion [pots, etc.]' NE dough Av pairi-daēzayeiti 'build a wall around' Olr con-utainc 'builds' Lith díežti 'whip, beat' Arm dizanem 'heap up' | {1} [AL] The same form is used as 3sg.inj.med. at V 15.36, which is most probably nonce (Kellens 1984: 14). {2} [AL] Middle and Modern Iranian lgg. show secondary -s-. {3} Forms with -gh- in Sanskrit (-degdhi, digdhá-, etc.) are analogical. | Present II: pári ... déhat [3sg.subj.act.] (RV 07.050.02), adihan [3pl.impf.act.] (JB), dihāná- [ptc.med.] (RV 10.087.04), - degdhi [3sg.act.] (KauśS) Aorist SA: adhikṣan [3pl.act.] (JB) TA-Ptc.: digdhá- (AV+) | | Being & Doing | JPM IAL |
| *d ^h eig ^w - | stick, set up | Lat fīgō 'fasten' NE dike Lith díegiu 'prick plant, sow' | North-West | | | Placement Verbs | JPM |
| *d ^h elb ^h - | dig | NE delve Lith dálba 'crowbar' | North-West | | | Reductive Activities | JPM |
| *d ^h elg- | pin | Olr delg 'thorn, pin, brooch', OE dalc 'bracelet, brooch' | North-West | | | Textiles | JPM |
| *d ^h elg- | sting, pierce | Olr delg 'needle, pin' Lat falx 'curved blade' OE dalc 'bracelet, brooch' Lith dílgūs 'stinging, smart' | North-West | | | Reductive Activities | JPM |

Sheet1

| | | | | | | | |
|-----------------------|-----------|--|--|---|--|------------|------|
| *d ^h emh□- | blow | | {1} [LK] The short root vowel is not borrowed from the class I present stem (contra Gotō 1987: 181, fn. 320), but may represent the regular development of *-mH _i in an unaccented syllable (cf. Lubotsky 1997b), the accent being on the suffix in the passive (see Kulikov 2001: 99f.). | Present I: dhāmati [3sg.act.] (RV+) Aorist S: adhmāsam [1sg.act.] (AVP) Passive: dhamyate {1} [3sg.] (RV 10.135.07) dhmāy° (JB, Up.) TA-Ptc.: dhmātā- 'blown up' (RV 07.089.02, Br.+) dhamitā- 'fanned' (RV 02.024.07) | | | IIAL |
| *d ^h en- | run, flow | Skt dhanāyati 'runs, sets in motion' exists alongside dhānvati 'runs, flows' OPers danuvatiy 'flows' Toch AB tsān- 'flow' Lat fōns 'spring' | | | | Run & Jump | JPM |
| *d ^h en-ur | bow | | {1} The two words dhānuṣ- and dhānvan- originally formed one paradigm, an r/n-stem. {2} [AL] The initial θ- is explained by Hoffmann as being due to the influence of the Iran. verb θang- 'to pull (the string)', but since its θ- is also in need of explanation (its IE cognates point to *ten-gh-), the influence probably went in the other direction. Ir. θ < *dh occurs in several other cases (cf. also Ir. f < *bh), but its origin is obscure. {3} [AL] Janda 1998: 1ff. connects OHG tenar [m], tenra [f] 'flat hand', Gr. θέλαρα 'palm of the hand, foot sole', Av. danara 'handful' (V 16.7), tarō.danan- 'more than a handful' (N). | | | | IIAL |

Sheet1

| | | | | | | | |
|------------------------------------|------------------------|--|---|---|--|--------------|------|
| *d ^h enh ₂ - | run, flow | | <p>{1} Extracted from the VA-present dhánva-.</p> <p>{2} Synchronically, class I present from the secondary root dhanv.</p> <p>{3} Derived from the secondary root dhanv.</p> | <p>Present VA: dhánva (< IE *dhenh₂-ue-) [2sg.impv.act.] (RV+) {2} Perfect: dadhanyur [3pl.opt.act.] (RV 04.003.12), dadhánat [3sg.inj.act.] 'set in motion' (trans.) (RV 10.073.01), dadhanváms- [ptc.act.] (both intr. and trans.) (RV) dadhanvé [3sg.med.] (RV) {3} Aorist IS: adhanviṣur [3pl.opt.act.] (RV, ŚB) {3} Caus: dhanáyan [3pl.inj.act.] 'to make run, to set in motion' (RV 01.071.03), dhanayante [3pl.med.] (RV)</p> | | | IIAL |
| *d ^h énr, | palm (of the hand) | OHG tenar 'palm' Grk thénar 'palm, sole [of the foot]' | | | | Body (Upper) | JPM |
| *d ^h er- | be immobile support | Lat firmus 'solid, firm' OE darian 'lie motionless, lurk' Av dārayat 'holds fast' Skt dhāráyati 'holds' | | | | Give & Take | JPM |

Sheet1

| | | | | | | | |
|-------------------------------------|----------------------|--|--|---|---|-----------------|------|
| *d ^h er- | hold | | {1} [LK] With the secondary suffix accentuation (see Kulikov 1997), attested only in the ŠB. {2} [AL] As indicated by Jamison 1983: 96, the active pf. appears only in the sg. non-past indicative, whereas dhārāya-has a large number of imperfect and modal forms, as well as a participle. | Causative (Present X): dhārāyati [3sg.act.] (RV+) Present IV: dhriyate (< *dhr-ie-) [3sg.med.] (RV 05.034.07 +), dhriyéran [3pl.opt.med.] (ŠB) {1} Aorist R: dhṛthās [2sg.inj.med.] (AV 3.25.1) Aorist RED: ádīdharat [3sg.act.] (RV+) Perfect: dādhāra [3sg.act.] (RV+) = present in later texts rebuilt into a reduplicated present dādharti [3sg.act.] (JB), dādhrtati [3pl.act.] (YVp) (Kúmmel 2000: 261ff.) {2} dadhré [3sg.med.] (RV+), intrans. Intensive: dārdharṣi [2sg.act.] (RV 05.084.03) ví adardhar | 'to uphold the Truth': Skt. ṛtām ... dhāray° (RV) — OAv. ašəm dar- 'to uphold the Earth': Skt. kṣām dādhāra (RV 01.067.05) — OAv. dərətā zəm (Y 44.4) 'to provide goods': Skt. vásūni dhārāya (RV 09.063.30) — OP dārāya-vau- [m] PN 'Dareios' (< PIIr. *dhārayat-vasu-) 'to support the pillar': Skt. sthūṇām ... dhārayantu (RV 10.018.13) — YAv. stunā vīdāraieiiti (Yt 10.28) | | IIAL |
| *d ^h er- | leap, spring | Mlr dar- 'spring' Grk thrō iskō 'leap, spring, attack, assault' Skt dhā rā 'flood' Grk thorós 'semen' | | | | Run & Jump | JPM |
| *d ^h er- | shit | Lat foria [pl.] 'swine dung', foriō 'defecate' Lith derėkti 'besmirch with filth' | North-West | | | Vital Functions | JPM |
| *d ^h erg ^h - | sloetree, blackthorn | Olr draigen 'sloetree' OHG dirn-baum 'cornel cherry' Rus derēn 'cornel cherry' | | | | Trees | JPM |
| *d ^h er ġ ^h - | bind fast | Skt dhṛḥyati Lith dirža 'belt' Av darəzayeiti 'fetters' | | | | Binding | JPM |

Sheet1

| | | | | | | | |
|----------------------|----------------------------|---|--|--|--|-----------------|-----|
| *d ^h ers- | attack -> venture | | {1} [LK] Isolated forms with the long reduplication syllable, probably metrically conditioned see Kümmel 2000: 268. | Present V: dhr̥ṣṇuhí [2sg.imp.act.] (RV 01.080.03+) Aorist A: adhr̥ṣas [2sg.act.] (ŚB), dhr̥ṣánt- [ptc.act.] (RV), dhr̥ṣámāṇa- [ptc.med.] (RV) Aorist IS: adhar̥ṣisur [3pl.act.] (TA ⁻ 5.1.3) Perfect: dadh̥r̥ṣa [3sg.act.] (RV+), dādh̥r̥ṣuh [3pl.act.] (AV) {1}, dadhar̥ṣīt [3sg.inj.] (RV) Caus: dhar̥ṣay° (KS+) TA-Ptc.: ādhr̥ṣta- 'irresistible' (RV+), dhr̥ṣitá- 'bold, brave, daring' (RV+) Inf: ṛdhr̥ṣ-e, ā-dhr̥ṣah (RV) | courageous mind': Skt. dhr̥ṣán mánas (RV), dhr̥ṣan-manas- [a] IIAL | | |
| *d ^h ers- | brave | NE dare Lith d̥r̥ṣù 'dare' Grk th̥rsos 'bravery' Skt dhr̥ṣṇóti 'is bold, dares' | | | | Conflict | JPM |
| *d ^h ers- | venture, be bold undertake | Lith d̥r̥ṣù 'dare' Skt dhr̥ṣṇóti 'is bold, dares' Germanic *dorso- > NE dare Grk th̥rsos 'bravery' Av dar̥ši- 'brave'). | | | | Being & Doing | JPM |
| *d ^h eu- | die | Olr d̥īth 'death, end' Lat fūnus 'burial' Goth diwans 'mortal' OCS daviti 'strangle' Arm di 'corpse' ON deyja → NE die | It is possibly related to *dhwes- 'breathe' as in 'expire' | | | Health&Sickness | JPM |

Sheet1

| | | | | | | | |
|--|--------------------------------|---|--|--|--|------------|-------------|
| *d ^h eu- | run ?walk | Grk théō 'run' MPers dawīdan 'run' Skt dhāvate 'runs' ??NE dew | Greek/Indo-Iranian {1} In prose, the present dhāvati forms a suppletive paradigm with sar-, which supplies aorist and perfect. {2} The distribution points to act. dhāvati vs. med. dhāvate, which can be explained from thematization of the original static present. | Present IA: dhāvati [3sg.act.] (RV+), dhāvate [3sg.med.] Present IB: dhavante [3pl.med.] (RV) Aorist IS: adhāviṣta [3sg.med.] (RV 09.070.08) Aorist RED: adadhāvat [3sg.act.] (RV 09.087.07, intrans., probably nonce) Caus: dhāváy ° 'to drive' (RV 10.146.02+) {1} | | Run & Jump | JPM IIAL |
| *d ^h eu- *d ^h eu(h□)- | walk, run be in (com)motion | Lat suf-fiō 'smoke' ON dýja 'shake' Goth dauns 'dust, smoke' Lith dujà 'dust' OCS dunq 'blow' Alb deh 'intoxicate, make drunk' Grk thúō 'rush on' Arm dedevim 'shake' Av dvažaiti 'flutters' Skt dhūnó ti 'shakes, moves about kindles a flame', dhūli- 'dust' Toch B tweye 'dust' | | | | Movement | IIAL JPM |
| *d ^h eub- | deep | NWels dufn 'deep' NE deep Lith dubūs 'deep'), OCS důno 'ground, floor' důbrū 'ravine, valley' Alb det 'sea' Toch B tapre 'high' | For the semantic change in Tocharian, we might compare NE 'high seas' It is a much discussed word since it offers evidence for the elusive (and very rare) Proto-Indo-European *b- otherwise, if the Tocharian and Albanian forms are not accepted, it has been seen as a north-west European substrate term, borrowed possibly from a non-Indo-European language. | | | Position | JPM |

Sheet1

| | | | | | | | |
|-------------------------------------|------------------------------|---|---|---|--|---------------|------|
| *d ^h eug ^h - | be good for smth., fit | | {1} Secondary from áduha (+t). {2} [AL] In spite of Mayrhofer's reservations, the connection must be correct, the semantic development being '(cow) fits' > '(cow) yields milk' (stative). | Present II: dógdhi [3sg.act.] (TSp+), duhánti [3pl.act.] (RV+), ádhok [3sg.impf.act.] (RV, AV), dohat [3sg.subj.act.] (RV+), dugdhi [2sg.impv.act.] (AVP-Sū.m), duhé [3sg.med.] (RV+), dugdhe [3sg.med.] (Br.+), duhré [3pl.med.] (RV+), duhaté [3pl.med.] (RV+), duhraté [3pl.med.] (RV- TSm) áduha [3sg.impf.med.] (MSp), áduhat [3sg.impf.med.] (RV+) {1}, dóhate [3sg.subj.med.] (RV+) dhukṣva [2sg.impv.med.] (RV+), duhām [3sg.impv.med.] (RV-Br.m), dohatām [3sg.impv.med.] (KSm, TBm) Aorist S: adhukṣata (RV-Br.m) | | | IIAL |
| *d ^h eu ḡ ^h - | be useful, produce something | Olr dūal 'fitting' OE dugan 'be useful' NE doughty Rus dúžyj 'strong, healthy' Grk teúkhō 'prepare' Skt dóhati 'extracts, milks' | | | | Being & Doing | JPM |

Sheet1

| | | | | | | | |
|--|-------------------|---|---|--|--|--------------|--------|
| *d ^h eu□- | shake | | <p>{1} [AL] There are two more (synchronically separate) presents in Vedic from this root, which have a different meaning: Present I: ā dhāvati [3sg.act.] (RV+)</p> <p>Passive (or Present IV, cf. Kulikov 2001: 356): sam-dhāvyete [3du.] (KS) 'to rinse, clean, rub, polish'</p> <p>Passive: ā-dhūyāmāna- [part.] 'being cleansed' (TSm 4.4.9.1)</p> <p>Present VI: ní dhuvāmi [1sg.act.] (AVŚ)</p> <p>upa dhuva [2sg.impv.] (AVP 2.20.2)</p> <p>ní dhūveyur [3pl.opt.act.] (KS)</p> <p>Passive: ní dhūyatām [3sg.impv.] (AVŚ 1.14.2) 'to throw down, shake down'.</p> <p>{2} [AL] For the analysis of this form see Narten 1981: 3-5 = Narten 1995: 235-7 and Kümmel 2000: 269.</p> | <p>Present V:</p> <p>dhūnoti [3sg.act.] (RV+)</p> <p>dhūnuthá [2pl.act.] (RV+)</p> <p>later dhunoti [3sg.act.], dhunute [3sg.med.] (Br.+)</p> <p>with secondary short vowel</p> <p>{1} Aorist S: adhūṣata [3sg.med.] (RV 01.082.02), adhūṣta [3sg.med.] (AVP)</p> <p>Perfect: dudhuvīta [3sg.opt.med.] (RV 08.070.11), dudhuve [3sg.med.] (AV 12.1.57)</p> <p>Intensive: dodhavīti [3sg.act.] (RV)</p> <p>dódhuvat, dávidhvat- [ptc.act.] (RV)</p> <p>davidhāva [3sg.pf.act.] (RV 01.140.06)</p> <p>dūdhot [3sg.inj.act.] (RV)</p> <p>{2}</p> <p>TA-Ptc.: dhūtá-</p> | | | IIAL |
| *d ^h ġ ^h (e)m-en | on(to) the ground | Lat humī Grk khamái Skt jmán | | | | Construction | JPM |
| *d ^h ġ ^h ies | yesterday | | | | | | Beekes |
| *d ^h ġ ^h m-on- | man | Lat homō 'person' Olr duine 'human' OE guma 'man' Lith žmuō 'person' | North-West *dh ġ hom- 'earth' Survives in NE bridegroom where the element 'groom' derives from OE guma 'man' which was changed to 'groom' by way of (erroneous) folk etymology. | | | Family | JPM |
| *d ^h ġ ^h uh□- | fish | Lith žuvis Grk ikhthūs Arm jukn | West-Central exhibits an archaic shape that suggests it may have been the word for 'Wsh' in Proto-Indo-European but was replaced by other words on the extremities of the Indo-European world. | | | Fish | JPM |

Sheet1

| | | | | | | | |
|---|--------------------------|--|---|---|--|--------------------------|----------|
| *d ^h g ^{wh} -eh ₁ | burn | | {1} [AL] The Pāli (and other MI and NI) forms clearly point to a voiced initial cluster, which makes connection with dah very attractive. I reconstruct *-eh ₁ – because otherwise we cannot account for the Indo-Aryan reflexes. The appurtenance of OAv. dājamāspa-, LAv. jāmāspa- remains uncertain, since we seem to have Av. vžar- / žgar- < *dhgwher- (see s.v. kšar). | | | | IIAL |
| *d ^h g ^{wh} -ei- | destroy | Grk phthínō 'destroy'; 'dwindle' Av dəj īt.arəta- 'destroying Arta' Skt kṣināti 'destroys' OIr tinaid 'vanishes' Lat situs 'abandonment' | {1} With the secondary set-variant of the root (kṣayi) extracted from the -ya-present. {2} Derived from the secondary set-variant kṣayi. {3} With the secondary suffix accentuation (see Kulikov 1998). {4} Iranian cognates are uncertain (OAv. avžōnuuamnām [neg.ptc.med.] 'undamaged (?)' (Y 28.3), OAv. dājīṭ_.arəta- [adj] 'violator of Truth' (Y 53.9) ?) | Present IX {2}: kṣināti [3sg.act.] (RV+) kṣinānti [3pl.act.] (RV+) Present V: kṣinómi [1sg.act.] (AV+) Present IV: kṣīyante [3pl.med.] 'to be destroyed, perish' (RV+) kṣīyāte {3} [3sg.med.] (AV, ŠB, TB) Aorist S: kṣeṣṭa [3sg.inj.med.] (AV+), kṣeṣṭhās [2sg.inj.med.] (VS+) Aorist mediopass: kṣāyi [3sg.] (TS-MSm) Caus: kṣāpáyati [3sg.act.] (AV) TA-Ptc.: kṣitá- 'exhausted, decreased' (RV, KS+) á-kṣita- (RV+) na-ptc.: kṣīṇá- {2} (AV, Br.+) | | Conflict Health&Sickness | JPM IIAL |
| *d ^h g ^{wh} -er- | flow (away) | Grk phtheirō 'ruin, waste' Av azaraiti 'flows' Skt kṣáratī 'flows, perishes' | Greek-Indo-Iranian | | | Liquid Motions | JPM |
| *d ^h g ^{wh} -i-ti- | perishing, decrease | | | | imperishable fame': Skt. ákṣiti śrávaḥ, śrávas- ... ákṣita- (RV) – | Body (Upper) | IIAL |
| *d ^h h ₁ ileh□- | teat, breast | | Derivative of the verb *dheh ₁ (i) - 'suckle' | | | | JPM |
| *d ^h h ₁ elh ₁ - | blossom, come into being | Gr. thállō 'blossom' [Verb] Alb. dal | | | | | Celt. |

Sheet1

| | | | | | | | |
|---|-------------------------|---|---|--|--|-----------------|-------------|
| *d ^h í ġ ^h s | wall, fortification | Grk teikhos 'wall' Skt sa-dih 'mound, heap, wall' Skt dehī- 'wall, bank' OPers didā '(town) wall, fortification' Av pairi-daēza- 'enclosure' | In the North-West languages it refers to claylike substances, e.g. NE dough, and suggests that the original concept relates to an 'earthen bank'. | | | Construction | JPM |
| *d ^h lg ^h - | debt | Old Irish dligid 'is entitled to, is owed' Goth dulgs 'debt' OCS dlǫgŭ 'debt' | North-West | | | Law & Order | JPM |
| *d ^h ól ^h us- | wolf | Phryg dáos 'wolf' Grk thōs 'jackal' wild dog panther' | | | | Fauna | JPM |
| *d ^h oh ^h -néh ^h - | (harvested) grain | Lith dúona 'bread' NPers dāna 'grain' Skt dhānās [pl.] 'kernels of grain, fried grain reduced to powder' Toch B tāno 'grain, kernel' | {1} [AL] Hardly a LW from Iranian. because its inflection is not productive. Most probably, contains zero-grade of the root (*dh ^h ē-neh:-). | | | Plants | JPM IIAL |
| *d ^h ól ^h .os | valley vault | NWels dōl 'valley, meadow' NE dale Rus dol 'valley, under side' Grk thólos 'vault' [a sort of 'upside-down valley'] | has reflexes across the geographical spectrum of Indo-European | | | Earth | JPM |
| *d ^h onu- | fir | OHG tanna 'fir' [> NHG Tannenbaum] Hit tanau 'fir' | German-Hittite correspondence | | | Trees | JPM |
| *d ^h reg- | precipitate lightly | NE dark Lith dērgti 'be slushy, sleety' ORus padorog 'stormy weather' Toch B tarkār 'cloud' | | | | Water | JPM |
| *d ^h re ġ- | glide, pull (something) | ON drak 'stripe' Lith drežóti 'tear apart' Skt dhrājati 'move' | | | | Convey | JPM |
| *d ^h reg ^h - | pull, tear (out) | NE draw Latv dragāju 'tear' Rus dērgatī 'pluck, tear' Lat trahō 'pull' | | | | Convey | JPM |
| *d ^h reg ^h - | run | Latv drāžu 'run fast' Grk trékhō 'run' Old Irish droch 'wheel' Grk trokhós 'wheel' Arm durgn 'wheel' | West Central | | | Run & Jump | JPM |
| *d ^h reib ^h - | drive | NE drive, drove (of cattle) Lith drimbū 'slowly drop down' | Both Old Norse and Lithuanian employ this verb to describe the fall of snow. | | | Convey | JPM |
| *d ^h reid- | shit | OE dritan NE dirt [<*drit- <*dhrīd-] dialectal Russian dristá tī 'suffer from diarrhea' | North-West | | | Vital Functions | JPM |

Sheet1

| | | | | | | | |
|---------------------------------------|-----------------------|--|---|---|--|----------------------|----------------|
| *d ^h ren- | rumble, drone buzz | NE drone Lith trānas Grk thrōhaks Mlr dresacht 'creaking noise' Lat drēnsō 'cry [of a swarm]' Grk thrēhos 'funeral lamentation' Arm dmnč'im 'toot, resound' Skt dhrāṇati 'resounds' ?Toch B treñk- 'speak' | | | | Human Sounds Bugs | JPM |
| *d ^h reug ^h - | deceive | OHGtriogan 'deceives' Skt drúhyati 'harms, is hostile to' Mlr aur-fraich 'ghost' ONdraugr 'ghost' Av draoga- 'lie' ON draumr 'dream' | | Present IV: drúhyati [3sg.act.] (AVP+) Aorist A: druhan [3pl.inj.act.] (RV+) Aorist S: adrukšas [2sg.inj.act.] (Br.+) Perfect: dudróha [3sg.act.] (RV, AV, JB) Fut: dhrokšyati [3sg.act.] (MS) TA-Ptc.: drugdhá- 'deceitful, false' (RV+) | 'destroyer of evil': Skt. druhá hantā (RV 02.033.17) — YAv. jānta ... drujō 'breaking agreement, betraying friends, treacherous': Skt. drōghamitra- (RV 10.089.12), mitra- drúh- (MS+) — YAv. miθrō.drug- miθrəm družīnti (Yt 10.45), Parth. drwxt-myhr, MP mihr-drōz | Values | JPM IIAL |
| *d ^h rig ^h - | ± a (coarse) hair | Mlr gairb-driuch 'bristle, rough hair' Grk thríks 'a single hair' Khot dro 'hair' | | | | Hair | JPM |
| *d ^h rog ^h - | dregs | ON dregg Lith drāgės [pl.] OCS droždīje Alb dra Lat fracēs [pl.] | | | | Meals | JPM |
| *d ^h rog ^h ós | wheel | Olr droch Grk trokhós Arm durgn 'potter's wheel' | | | | Transport | JPM |
| *d ^h roug ^h -o- | deceit | | {1} [AL] drógha- in RV 06.062.09d dróghāya cid vácasa ānavāya is the first member of a compound in tmesis, see Lubotsky 1988: 64f. | | telling lies': Skt. drogha-vāc- [adj] 'saying deceitful words' (RV) - | | IIAL Beekes |
| *d ^h roug ^h ós | companion, comrade | OE ge-drēag 'troop' Lith draūgas 'friend' OCS drugū 'friend, companion' | North-West | | | Social Organization | JPM |
| *d ^h roug ^h ós | phantom | Skt drógha- Olr airdrech 'phantom' ON draugr | As a personalized form it is limited to the North-West but it is cognate with Skt drogha- 'deceiving' and derives from *d ^h reug ^h - 'deceive' | | | Dieties | JPM |
| *d ^h rs-nt- | dare | | | | | | IIAL |

Sheet1

| | | | | | | | |
|---------------------------------------|--------------|--|---|--|--------------------------------------|--------------|-----------------------|
| *d ^h u-en-h ₂ - | smoke | | {1} Or 3sg.impf.act. of the root present, type bráviti (Jamison 1983: 115). | Aorist IS<R: ádhvanīt [3sg.act.] (RV 08.006.13) {1} Caus: ádhvānayat [3sg.impf.act.] (RV 06.018.10) dhvanayīt [3sg.inj.] (RV 01.162.15 nonce) TA-Ptc.: dhvāntā-, also [n] 'darkness' (RV+), [m] 'name of a wind' (VS+) | | | IIAL |
| *d ^h úb ^h os | wedge, peg | NE dowel dialectal Grk túphos 'wedge' | West Central | | | Tools | JPM |
| *d ^h u ḡ (h□)tér | daughter | Gaul duxtir Osc fuutír NE daughter OPrus duckti OCS dŭšti Grk thugátēr Arm dustr Lyc kbatra Av duaədar- Skt duhitār- Toch B tkācer | {1} [AL] Both forms must have been present in Pllr., most probably forming one paradigm. | | daughter of heaven/Zeus': Skt. duhit | Kinship | JPM IIAL |
| *d ^h u ḡ h□térdiwós | sky daughter | Lith diėvo duktė~ 'Saulytė' who was Grk thugátēr Diós Skt duhitā diváh Grk thugátēr Diós, Skt duhitā diváh | | | | Dieties | JPM |
| *d ^h uh ₂ mós | smoke | Lat fūmus Lith dūmai OCS dymu Skt dhūmā Grk thūmós 'spirit' | | | | Fire | JPM Beekes IIAL |
| *d ^h ūnos | ??? | Gael dun NE down(s) NE town (from Celtic) | North-West *d ^h uh□nos? | | | Dwelling | JPM |
| *d ^h urh ₂ - | chariot pole | | | dhūr [nom.sg.], dhúram [acc.sg.], dhurā [instr.sg.], dhūrśu [loc.pl.], etc. | | | IIAL |
| *d ^h wen- | sound | NE din Lith dundėti 'rumble, roar, thunder' Skt dhvānati 'sounds, roars' | | | | Human Sounds | JPM |

Sheet1

| | | | | | | | |
|-------------------------------------|--------------------|--|--|---|--|----------------------|------|
| *d ^h wenh _z - | cover over, darken | Skt dhvāntā- 'covered, veiled, dark darkness, night' Grk thnēskō 'die' Grk thnētós 'mortal' Grk thánatos 'death' | Graeco-Aryan from *b ^h eh _z - 'shine' | | | Light & Dark | JPM |
| *d ^h wens | pulverize | | | Present I: dhvāmsate [3sg.med.] (AVP+) Present IV: - dhvasyati [3sg.act.] (Br.) Present X: dhasayah [2sg.inj.act.] (RV) dhasāyant- [ptc.act.] (RV) Aorist A: - dhasán [3pl.inj.act.] (RV 08.055.05) Perfect: - dadhvase [2sg.med.] (RV 10.113.07), dadhvasat [3sg.subj.act.] (AVP) vi-dadhvasur [3pl.act.] (Up.) Caus.: dhvasáy° (YVp+) TA-Ptc.: dhvastā- (AVP+) | | | IIAL |
| *d ^h wer- | pierce | Lith duriù 'thrust, stab' Grk túrkhē 'two-pronged fork' Arm dur 'tool, gimlet' an enlarged *d ^h werh □ Hit dwarnai- 'break, shatter' Skt dhvāratī 'bends, causes to fall, shatters' | | | | Reductive Activities | JPM |
| *d ^h werh □- | harm | Hit duwarnai- 'break, shatter' Skt dhvāratī 'bends, cause to fall, hurts' | Possibly from *d ^h wer- 'pierce' | | | Conflict | JPM |
| *d ^h werh □- | yoke | Hit tūriye- 'harness' Skt dhūr 'yoke', dhūriya- 'draft animal' Toch B trusk- 'harness', probably also pyorye 'yoke' Grk théraps 'comrade servant' | | | | Transport | JPM |

Sheet1

| | | | | | | | |
|--|---------------------------------|--|---|---|--|-----------------|-------------|
| *d ^h wes- | breathe, be full of (wild) spir | Oir dāsacht 'rage fury' Lat furō 'rage' MHG tuster 'ghost, spectre' Lith dvasià 'ghost, spirit' Lith dvesiù 'gasp, expire' | There is the suggestion of some form of animated breathing, a suffusion of wild spirits derivatives give us general names for 'wild animals', including NE deer, Lat bēlua 'wild animal' from the verb *d ^h wes- 'breathe' | Root present ? (SGM) | | Vital Functions | JPM |
| *d ^h wes- | spirit | Gaul dusios 'type of demon' MHG getwās 'fantom' Lith dvasià spirit' | | | | Dieties | JPM |
| *d ^h wōr | door, gate | Oir dorus Lat foris NE door Lith dūrys, OCS dvīrī Alb derē, Grk thūrā Arm dur-k' Skt dvāras Toch B twere Hit andurza 'within' (literally 'in-doors') | Often the word for 'door' occurs in the dual and indicates two leaves of a door. {1} [AL] The unexpected *d- in Indo-Aryan is usually explained by the influence of the numeral 'two'. | In the RV only du. and pl.: dvāra, dvārau [nom.acc.du.], dvāras [nom.pl.], dūras [acc.pl.] dvār [nom.sg.] (AV+). From Br. on, dvāra- [n]. | | Construction | JPM IIAL |
| *di-n- *dib ^h ro- *dib ^h ro- | day (sacrificial) animal | Gothic tibr 'sacrifice' OE tīber 'offering' MHG ungezibere 'vermin' [< 'unsuited for the sacrifice'] OHG zebar 'offering' [the only form requiring *dibhro-] Arm tvar 'male sheep, herd of cattle' | West-Central | | | Fauna | IIAL JPM |

Sheet1

| | | | | | | | |
|---|----------------------------------|---|--|---|--|-----|---------------|
| *dieu- | shine | | {1} Old is root-aorist, which supplies the aorist forms to roc. The present is secondary. See also jyot. | Present I: dyótamāna- [ptc.med.] (RV 10.177.02), dyótate [3sg.med.] (AV+) Present AYA: dyutayanta [3pl.inj.med.] (RV 02.034.02) Aorist S<R: ádyaut [2,3sg.act.] (RV+) Aorist R: dyutant- [ptc.act.] (in dyutád-yāman- [adj] 'with shining driving' (RV), dyutá(d)dyu- [adj] 'with shining days' (MS)), dyūtāna-, dyutāná- [ptc.med.] (RV+) Perfect: (vi) didyute [3sg.med.] (RV+) ádidyutat [3sg.ppf.act.] (RV) didyóta [3sg.act.] (AV) Caus: dyotay° (RV, AV) Intensive: dávidyot [3sg.inj.act.] (RV+) dávidyutat [3sg.ppf.act.] (RV+) | | | IIAL |
| *dieu-t- | shine | | {1} [AL] For the phonetic development *diaut-> jyot- see aan de Wiel 2000. | Present I: jyotatām [3sg.impv.med.] (MS) Passive: ava- jyotyāmāna- [ptc.] (ŚB) Caus: jyotáy° (AV) Abs: ava-jyótya (Br.+) | | | IIAL |
| *diēus-ph₂tēr *di ġ ^(h) - | Father Sky, the king-god tick | Mlr dega 'stag beetle' OE ticia Arm tiz | | | | Bug | Beekes JPM |

Sheet1

| | | | | | | | |
|-------------------------------------|---------------------|--|---|---|--|--------------|--------------|
| *dih ₁ - | fly move swiftly | Skt dīyati 'flies' Grk díō 'run away' Latv diēt 'dance' Olr dīān 'fast' | | | | Run & Jump | JPM Celt. |
| *diks | goat | OE ticcen 'kid' Alb dhi 'she-goat' ?Grk dīza 'shegoat' Ishkashmi dec 'goatskin bag' | | | | Fauna | JPM |
| *dis- | apart, asunder | Lat dis- 'asunder' Goth dis- 'apart' Alb sh- 'apart' Grk diá 'through, on account of' | West-Central from the numeral 'two' | | | Position | JPM |
| *diu-ih□o- | heavenly | | | /div(i)já-/ | | | IIAL |
| *diwyós | divine | Lat dīus Grk dīos and Skt divyá- | | | | Dieties | JPM |
| *dlh ₁ g ^h ós | long | Lat in-dulgeō 'long-suffering' Goth tulgus 'firm' Lith ilgās OCS dlŭgŭ Alb gjatë Grk dolikhós Hit daluki- Skt dīrghá- | {1} [AL] MP drang, NP dirang 'delay, lateness' does not reflect IE *dl-on-gh-o-, but is rather a derivative of the Iranian verb *drang- 'to fix, hold'. | drāghīyas- [comp] 'lasting longer, longer (in length)' (RV+) drāghīṣṭha- [sup] 'longest' (RV+) | 'long-lasting darkness': Skt. dīrghá-támas- 'long-lasting darkness' (RV), dīrghá-tamas- [m] N. of a r̥ṣi (RV) — OAv. darəgām āiū təmaṇhō 'long life-time of darkness' (Y 31.20) 'long life-time': Skt. dīrghá- āyu(ṣ)- (RV) — OAv. darəgām āiū (Y 31.20) 'long-lived': Skt. dīrghāyu- [adj] (RV) — OAv. darəgāiu- [adj] — Gr. δολιχαίωv [adj.] 'with a long life' (with analogical -α-) 'long-armed': Skt. dīrgha-bāhu- [adj] (Ep.+) — OAv. darəgō.bāzu- [adj], YAv. darəḡō.bāzu- [adj] 'whose fame reaches far and wide': Skt. dīrghá-śravas- [adj] (RV), dīrgha-śrūt- [adj] (RV+) — OP *darga-çavah- [m] PN | Shape | JPM IIAL |
| *dlong ^h os | long | Lat longus NE long MPers daran | | | | Shape | JPM |
| *dm-n-éh ₁ -ti | subdue | | Nasal Present | | | | Beekes |
| *dmpedom | floor | ON topt 'place for building' Grk dápedon 'floor' | West Central a compound derived from *dem- 'build' and *ped- 'foot' | | | Construction | JPM |

Sheet1

| | | | | | | | |
|--|-----------------------------|---|--|--|--|--------------------|-----------------------|
| *dn ġ ^h uh□- *dn ġ ^h weh, - | tongue | Olř tengae OLat dġngua NE tongue Lat lingua Old Latin dġngua Lith liežùvis Arm lezu Toch A kăntu Toch B kantwo OPrus insuwis OCS językŭ Av hizŭ- Skt jihvā- | Widely remodelled, probably by the initial sound in the verb 'to lick' Tocharian forms exhibit metathesis. Both OPrus insuwis and OCS jġi ezykŭ show the loss of the Proto-Indo-European *d-before *ŋ, while Av hizŭ-and Skt jihvā- show even more reformation. | | | Head | JPM IIAL Beekes |
| *do *de | to, toward | Olř do Lat dō-nec 'up to' NE to Lith da 'up to' OCS do 'up to' Grk -de 'toward' Av -da 'to' | | | | Position | JPM |
| *dóm | house(hold), nuclear family | Grk dō Arm tun Av dam- Skt dām | The structure and the social unit of the house are combined under a single term. {1} nom.sg. *dóm , gen.sg. *dém-s, cf. the verbal root *dem- 'to build'. | pátir dán [gen.sg.] (RV also śísur dán RV 10.061.20), dām supátnġ (RV 06.003.07), dāmām [gen.pl.] (RV 10.046.07), probably dámsu [loc.pl.] (RV 01.134.04, 01.141.04) | | Family | JPM IIAL |
| *dóm(h□)os | house(hold) | Lat domus 'house' Lith nāmas 'house' OCS domŭ 'house' Grk dómos 'house' Skt dáma- 'house' | Ultimately derived from *dem(ha)- 'build' on which is formed the noun for 'house(hold)' Latin also shows the extended form dominus 'master of the house'. | | | Dwelling Family | JPM |
| *dom(h□)u-no-s | master | Lat dominus Skt dāmuna- | A clear derivative of the word for 'house' (cf. *dom(ha)os above) with the suffix *-no- which is used to create words 'leader of' | | | Marriage | JPM |
| *domh□yos | one to be tamed | Alb dem 'bull, steer' Skt damya- '[young bull] to be tamed' | | ? | | Fauna | JPM |
| *don- | reed | Latv duonis 'reed' Grk dónaks 'reed' | West-Central | | | Plants (Wild) | JPM |
| *dórk ^w om | evening meal | Alb darkē Grk dórpon Alb drekē 'breakfast' Bret dibri 'lunch' | West Central | | | Food & Drink | JPM |

Sheet1

| | | | | | | |
|----------|---------------------------|---|---|--|---------------------------------------|--------------------------|
| *dóru | tree | Olř daur 'oak' Grk dóru 'tree trunk wood spear' Hit tāru 'tree, wood' Av dāuru 'tree, tree trunk wooden weapon' Skt dāru 'wood' Toch AB or 'wood' NE tree Grk drūs 'tree, oak' OCS drūva 'wood' Alb dru 'wood, tree' drushk'oak' OCS drěvo 'tree' | Hitt. tāru, Gr. dóry 'tree, trunk, spear', ToAB or 'wood', Av. dāuru | drōš, drūnaḥ [gen.sg.] 'wood' (RV+), drūṇā [instr.sg.] (RV) | Trees | JPM IAL |
| *dous- | (upper) arm, shoulder | Olř doē 'arm' Latv pa-duse 'armpit' [< 'that under the arm'] Slovenian paz-duha 'armpit' Av daoš- 'upper arm, shoulder' Skt dóš 'forearm, arm' | | dōḥ [nom.acc.sg.] (RV, ŠB), doṣṇāḥ [gen.sg.] (ŠB), doṣ | Body (Upper) | JPM IAL |
| *dr-ti- | tear | | | | | IAL |
| *drap- | clothes, cloak | Gallo-Roman drappus 'clothes', ith drāpanos [pl.] 'clothes' Skt drāpī- 'cloak' | may come from *drep- 'split off', i.e. it originally indicated a skin garment. | | Textiles | JPM |
| *drop- | | | | | | |
| *dreh, - | sleep | | {1} Attested also with other root extensions: *-em- (in Lat. and ORu.) and *-dh- (in Gr.). | Present II: ni- drāyāt [3sg.opt.act.] (Br.) Fut: drāsyāti [3sg.act.] (Br.) | | IAL |
| *drem- | run | OE trem 'footstep' Grk dremeîn 'run' Skt drāmati 'runs about' | {1} Probably root enlargement of the root *der- 'run', preserved also with other extensions (and similar meanings): *dr-eu-, *dr-eh, - | Intensive: dandram | meeting': YAv. haṇ-dramana- [n] '(pl) | Run & Jump JPM IAL |
| *drep- | scratch, tear ?cut off | Rus drjāpati 'scratch, tear' Grk drépō 'pluck' Toch A rāp- 'dig' Toch B rāp- 'dig' Hit tēripzi 'ploughs' | | | Reductive Activities | JPM IAL |

Sheet1

| | | | | | | | |
|-----------------------|-----------------------|---|--|--|--|--------|------|
| *dreu- | run | | {1} [LK] Or pluperfect and perfect subjunctive (see Kümmel 2000: 252f.). {2} [AL] All these Avestan forms have been explained from the root dru- 'to deceive' by M. Schwartz, JRAS 1966: 119-122. This analysis is also accepted by Kreyenbroek 1985 (Sraoša). {3} [AL] The root *dreu- may be a root enlargement of the root **der- 'run', preserved also with other extensions (and similar meanings): *dr-em-, *dr-eh- -, etc., although it seems disquieting that there are no certain cognates outside Indo-Iranian. The European river names (Dravos, Druentia, Druta, etc.) can hardly be cognate, cf. especially the typical a-vocalism. | Present I: drávati [3sg.act.] (RV+) Perfect: dudrāva [3sg.act.] (Br.+) Fut: drošyati [3sg.act.] (Br.) Aorist RED: ádudrot [3sg.act.] (RV 02.030.03), dudrávat [3sg.subj.act.] (RV) {1} Caus: dráváyati (RV+) Present AYA: dravayanta [3pl.inj.med] (RV 10.048.05) Intensive perfect: dodrāva [3sg.act.] (TS) TA-Ptc.: (úd-)druta- 'run (away)' (VS) | | | IIAL |
| *dreuh□- | cut ? | | | Present IX: drūñānā- (metrically, druñānā-) [ptc.med.] (RV 04.004.01), druñāti, drū | | | IIAL |
| *drewentih- - | (river name) | | Gaul (Druentia) India (Dravantī) | | | Water | JPM |
| *dr̥h□weh□- | ± grain ?tare | Gaul dravoca 'darnel, ryegrass' NDutch tarwe 'wheat' Skt dūrva- 'panic-grass' [related to millet] | | | | Plants | JPM |
| *dr̥k- | dragon | MLr muirdris 'sea-monster' Grk drákōn 'dragon' | derives from the verbal root *derk- 'see' as the dragon fixes its opponent with its baleful gaze. | | | Fauna | JPM |
| *du(e)h- -ro- | far, lasting long {4} | | {1} This OP superlative reflects Pllr. *duaH-išto- and is more archaic than Skt. daviṣṭhá-. {2} [AL] Usually, this adjective, attested in Yt 1.12 and Yt 12.7, is rendered 'seeing far', but 'visible from afar' also seems possible. {3} daurešruta- [m] PN is already attested in the Br. {4} The meaning of the root seems to be 'to extend in space and time'. | dāvīyas- [comp] (R) | 'visible far and wide': Skt. dūre-dīś- [adj] (RV) — YAv. dūraē-darš(təma)- [adj] {2} 'far-renowned': dūre-śravas- [adj] (ŚrSū.) {3} — YAv. dūraē-srūta- [adj], MP dūrēsraw [m] PN | | IIAL |
| *duh- -to- | far away | | {1} Lat. lautia / lautia 'welcome of foreign quests and messengers' is hardly related. | | | | IIAL |
| *duh□ros *dweh□ros | long (of time, space) | Lat dūrāre 'to last' Grk dērós 'long' Arm erkar 'long' Av dūire 'far' Skt dūrā- 'far' Hit tūwa- 'far, distant' (with a different suffix) | | | | Shape | JPM |

Sheet1

| | | | | | | | |
|--------------------------|--------------------------------|---|--|--|---|----------|-------------|
| *dui-h ₂ p-ó- | having water on two sides | | {1} [AL] The Avestan form is acc.pl. and not loc.sg., cf. Oettinger 1983: 91, de Vaan 2003: 492. Mayrhofer reconstructs Pllr. *duai-Hp-a-, but it is more likely that the Avestan form is due to the introduction of the productive Iranian form *duai- 'two-, bi-', cf. Av. baē-arəzu- 'length of two fingers'. | | | | IIAL |
| *dus- | bad | prefix: Olr do- 'bad, mis-' OE tor- 'un-' NHG zer- [verbal prefix] Grk dus- 'bad, mis-' Av duš- 'bad, mis-' Skt duṣ- 'bad, mis-' Lat dif- may be cognate here Rus dožd' 'rain, bad weather', originally 'bad-sky'. | | | 'wrongly done': Skt. duṣ-kr̥tá- [adj] 'wickedly done', [n] 'evil action' (RV+) — OP duš-kr̥ta- [adj] 'badly done' 'speaking badly, insulting, slandering': Skt. duḥ-śámśa- [adj] (RV+) — YAv. duš.sar̥ha- [adj] 'difficult to reach': Skt. dur-āpaná- [adj] (RV), dur-āpa- [adj] (ŠB+) — YAv. duž-āpiia- [adj] 'difficult to access', 'hardship, danger': Skt. dur-itá- [adj, n] (RV+) — YAv. duž-ita- [adj, n] 'wrongly performed sacrifice': Skt. dúr-iṣṭi- [f] (AV+) — YAv. duž-iaṣti- [f] 'bad, inauspicious word': Skt. dur-uktá- [n] (RV+) — YAv. duž-uxta- [adj] 'badly spoken' — MP dušhūxt 'bad words' 'evil-minded': YAv. duš-mainiiu- [adj] 'evil-minded', [m] 'enemy' — MP dwšm(y)n' /dušmen/, Parth. dwšmyn, NP dušman 'enemy' 'evil-minded': Skt. dur-mánman- [adj] 'evil-minded' (RV) — OAv. duž-manah-, YAv. duš-manah- [adj] — Gr. (Hom.) δυσ-μενής [adj] cf. also Skt. dur-matí- [f] 'evil mind, hatred' (RV+), YAv. duš-mata- [adj] 'badly thought' | Values | JPM IIAL |
| *dus-menēs | hostile (literally: bad-though | Grk dusmenēs 'hostile' Av dušmanah- 'hostile' Skt durmanās 'sad' | West Central | | | Conflict | JPM |
| *dw(e)i-plos | 2x double, twofold | Olr dīabul Lat duplus Grk diplós | | | | Numbers | JPM |
| *dwei- | fear | Grk deídō 'fear' Arm erknō'im' 'frighten' Luv kuwaya- 'fear' Av dvaēš- 'be hostile, provoke' Skt dvéṣṭi 'hates, is hostile' Toch A wi- 'be frightened' | It appears to derive from the numeral *dwi- 'two' and its etymology may have been something like 'be of two minds' or, in the hindsight of modern psychological theory, express the natural decision-making process between 'fight and flight' when confronted with a danger. | | | Values | JPM |

Sheet1

| | | | | | | | |
|---------------------------|--------------|--|---|--|---|---------|-------------|
| *dwei(s)- | be inimical | | {1} The Ilr. root *duaiš- may be related to PIE *duei- 'to threaten' and be eventually based on the adverb *duis 'twice, (split) in two' (see s.v. dviš). Also OAv. duuaēθa- [adj] 'inimical' in the formula āiθiš duuaēθā 'inimical threat' (Y 32.16, Y 48.9) may belong to the unextended root *duei-. | Present II: dvēšti [3sg.act.] (RV+) dvišmās [1pl.act.] (RV+) -dvišáte [3pl.med.] (AV+) Aorist SA: dvikṣat [3sg.inj.act.] (AV) Aorist RED: -adidviṣat [3sg.act.] (AVP) Perfect: didveša [3sg.act.] (ŠB) TA-Ptc.: (Indra)dviṣta- (RV 09.073.05+) | | | IIAL |
| *dwi- | 2x bi-; two- | Lat bi- NE twi- Grk di- Av bi- Skt dvi- | | | 'two-footed, biped': Skt. dvi-pád- [adj] (RV+) — Sogd. (Buddh.) dyβ-p'd'kw — Khot. śi-vāva- [adj] (< *dvi-pāda-) — Gr. δί-πους [adj] — Lat. bi-pēs [adj] — OE twu-fēte [adj] 'double-tongued': Skt. dvi-jihva- [adj] (AV+) — Sogd. (Buddh.) dyβzβ"k — Lat. bi-linguis [adj] 'two-legged': Skt. dvi-pratiṣṭha- [adj] (Br.) — YAv. bi-paitištāna- [adj] | Numbers | JPM IIAL |
| *dwi-yos *dwi-tos | second | Alb dytë Av daibitya- □ bitya- [< pre-Av *dwitya-] Skt dviṭīya- [cf. also dviṭā'doubly so'] Toch B wate Hit duyanalli- 'second officer' < *dwi-yo- | {1} [AL] It is probable that the form is analogical after the word for 'third', cf. Skt. trīṭīya-, Umb. terti 'for the third time', but this analogy may be of IE date. | | for the second time': Skt. dviṭīyam [adv] (RV+) — OAv. daibitīm [adv] (Y 45.1), YAv. bitīm, āt_bitīm [adv] — OP <duuviitiym> [adv] — Umb. duti 'iterum' | Numbers | JPM IIAL |
| *dwis | 2x twice | Olr fo di Lat bis NE twice Grk díς Av biš | | /d(u)viš/ | | Numbers | JPM |
| *dwōdekm(t) *duoh.dekm | 12 twelve | NWels deuddeg Lat duodecim Grk dōdeka Arm erkotasan Av dvadasa Skt d(u)vādaśa | | /duvādaśa/ | | Numbers | JPM IIAL |

Sheet1

| | | | | | | |
|---|--|---|---|--|-----------------|--------------------------|
| *dwóh, (u) *duo- | 2 two | Olr dāu [m.], dī [f.], dā [nt.] Lat duo [m./nt.], duae [f.], NE two Lith dù [m.], dvi [f.] OCS dŭva [m.], dŭvě [f./nt.] Alb dy Grk dúō Arm erku Av dva [m.], baē [f./nt.] Skt dvā[m.], dvē[f./nt.] Toch A wu [m.], we [f.] | neuter: *dwoih- | The forms in the RV are: d(u)vā, d(u)vāu [nom.acc.m.], c | Numbers | JPM IAL |
| *dwoi- | 2 two, group of two | Olr dīas 'couple' Hit tām 'for the second time' | | | Numbers | JPM |
| *dwoyos ?*duoih□os *dye(u)- | 2x double(d), twofold day day(light), heaven | Grk doiós 'doubled' Skt dvayā- 'duplicity' Olr dīa 'day' Lat diēs 'day' Grk éndios 'at mid-day' Arm tiw 'day' Hit sīwatt- 'day' Skt divasā- 'day' | from *dei- 'shine' | dvayī- [f] dyāuh [nom.sg.], d- | Numbers Time | JPM IAL JPM IAL |
| *dyēusph□tēr | sky father | Lat Jūpiter Illyr Dei-pátrous Grk Zeús patēr Skt dyāuspitā | | | Dieties | JPM |
| *ǵ (e)m(h□)ros *ǵ (e)mh□-ōr *g(e)ulo- | sisters husband fire, glowing coal | Lat gener Grk gambrós Olr gūal 'coal' NE coal | Celtic and Germanic only | | Kinship Fire | JPM Beekes JPM |
| *ǵ (ʰ)ombʰros | bison | Lith stum~bras Latv subrs Rus zubr OPrus wis-sambris 'bison' | | | Fauna | JPM |
| *g(ʰ)rewom | reed, rush | Av grava- Toch A kru | Eastern | | Plants (Wild) | JPM |
| *g(ʰ)ru(n)(d)- | grunt | Lat grunniō □ grundiō 'grunt' NE grunt Grk grúzō 'grunt' | West Central | | Animal Noises | JPM |
| *ǵ (l)ákt | milk | Lat lac Grk gála Hit galaktar 'milky fluid from trees and plants soothing substance, balm, nutriment' Grk gála 'milk' Lat lac 'milk' Waigali zōr 'milk' | The underlying verb is present only in Hit kala(n)k- 'soothe, satisfy'. | | Meals | JPM Beekes |

Sheet1

| | | | | | | | |
|---|--------------------------|--|---|--|--|---------------|-------------|
| *g ^(w) elb ^h -u-s *g ^w olb ^h -o- | womb | Grk delphús Av garəwa- Skt gárbha- Av gərəbus 'newly borb animal' OE cilfor-lamb 'ewe-lamb' NE calf | | | | Body (Lower) | JPM IIAL |
| *g ^(wh) eh : ġ ^h - | wade | | | Present I: gáhate [3sg.med.] (RV+) TA-Ptc.: ava- gāḍha- 'penetrated into the water, dived in' (ŠrSū.+) | | | IIAL |
| *ga/ond ^h - | wheat | Hit kant- '[einkorn?]- wheat' Av gantuma- 'wheat' Toch B kanti 'bread' | Possibly a loan from other Eurasian peoples | | | Plants | JPM |
| *gag- | cackle | NE cackle Lith gagù Rus gogolátī Arm kakač'em | West Central | | | Human Sounds | JPM |
| *gal- | be physically able | NWels gallu 'is able' Lith galiù 'am able' | North-West | | | Being & Doing | JPM |
| *gal- | call out, speak | Olr gall 'swan' NWels galw 'call' Lat gallus 'cock' OE ceallian 'call' NE call (from ON) ON kalla Lith galšas 'echo' OCS glasŭ 'voice' Oss valas 'sound' | | | | Speech | JPM |
| * ġ ar- | shout, call | Olr do-gair 'call' Lat garriō 'chatter, prattle' OE cearu 'care, sorrow, mourning' [> NE care] Grk gérus 'voice, call' Oss zarun 'sing' | Its meanings generally indicate a calling out or 'shout' (in Armenian we again find it forming bird names, cicařn 'swallow', cicařnuk 'nightingale'). The Germanic meaning 'mourn' may give some indication of Proto-Indo-European, or at least Pre- Germanic, mourning customs involving wailing by the mourners. | | | Speech | JPM |
| *gar ġ os | frightening, threatening | Olr garg 'rough' OCS groza 'shudder, horror' Arm karcr 'hard' Grk gorgós 'terrible, frightful, savage' | West Central | | | Values | JPM |
| * ġ e | because | | | | | | Beekes |

Sheet1

| | | | | | | | |
|------------------------|-----------------------------|--|---|--|--|----------------------|--------------|
| *geh, - *g(*)eh□-i- | sing | Skt. gā 'sing', gāthā 'song' Av. gāθā 'song' Lith giedóti 'sing' OE gieddian 'sing' giedd, gidd 'song, poem, riddle, tale' | {1} [AL] Parth. ng'y- [verb] 'to pray, supplicate' rather belongs to the Ir. verb *jad- 'to ask, demand'. | Present IV: gāyanti [3pl.act.], gāye [3sg.med.] (RV+) Aorist S: gāsi [1sg.inj.med.] (RV) Aorist SIS: agāsiṣur [3pl.act.] (RV+) Perfect: jagau [3sg.act.] (Br.+) Fut: gāsy° (Br.+) Passive: gīyāmāna- [ptc.med.] (RV+) TA-Ptc.: gītā- (RV+: RV only abhigīta-) | | Poetics | JPM IIAL |
| *geh, (l)- | sing | Lith giedóti 'sing [hymns]' ORus gajati 'crow' Av gāθā- 'metre, line of poetry' Skt gāti □ gāyati 'sings', gāthā- 'song' | | | | Formal Speech & Song | JPM |
| *geh□d ^h - | rejoice | Grk gēthēō 'am happy, rejoice' Toch AB kātḱ- 'rejoice' Olr gūaire 'noble' Lat gaudeō 'am happy, rejoice' | | | | Values | JPM |
| *geh□u- | rejoice | Lith džiaugúos (<*gaudžiúos) 'am happy' Grk gánumai 'rejoice', gaúros 'proud' | West Central | | | Values | JPM |
| *geh□ ḡ ^h - | enter water, wade | Slov gáziti 'wade' Skt gā hate 'wade' | | | | Swim | JPM |
| *geid- | tickle | OE citelian Arm kcem | Germanic-Armenian Isogloss | | | Reductive Activities | JPM |
| *gel- | cold, to freeze | Lat gelū 'cold, frost' NE cold | North-West | | | Qualities | JPM |
| * ḡ el- | swallow | | | | | Food & Drink | JPM |
| * ḡ elu- | leech | Olr gil Skt jalūkā- | Derives from a verbal root * ḡ el- 'swallow' | | | Bug | JPM Celt. |
| *gem- | press, squeeze together, sc | Mlr gemel 'fetters' Umb gomia 'pregnant' OE cuml 'swelling, wound' Lith gūmstu 'seize, grasp' OCS žimq 'press' Grk gémō 'am full' Arm čmlem 'press together' | West Central | | | Bend and Press | JPM |
| * ḡ em- | weep, lament, moan | Nlr geamh 'prattle' Lat gemō 'sigh, moan, lament, groan' Arm cmrim 'grieve' | West Central | | | Human Sounds | JPM |

Sheet1

| | | | | | | | |
|------------------------|-----------------|--|--|---|--|----------------|--------|
| * ġ emb ^h - | bare ones teeth | | | Aorist IS: jambhiṣat [3sg.subj.act.] (RV 10.086.04) Intensive: abhi- jañjabhāna- [ptc.med.] (AV), jañjabhyāte [3sg.med.] (TS) | | | IIAL |
| * ġ emb ^h - | destroy | | | Present AYA: jambhāyati [3sg.act.] (RV+) Aorist RED: ajñjabham [1sg.act.] (AV 7.56.5) | grind up the two jaws (of the wolf)': Skt. hānū ... jambhaya (AV | | IIAL |
| * ġ emh□- | marry | Grk gaméō Lat gener 'son-in-law' Grk gambrós 'son-in-law' Av zāmātar- 'son-in-law' Skt jāmātar- 'son-in-law' Alb dhëndër 'suitor' Skt jārā- 'suitor' | In later Greek, and perhaps already in earlier Greek, this word was used also of the sexual act by which a marriage was consummated. | | | Marriage | JPM |
| *gen- | ± compress | NE knock, knife dialectal Grk knuzōō 'draw together' | West Central | | | Bend and Press | JPM |
| *genh.- | lineage, clan | | | | | | Beekes |

Sheet1

| | | | | | | | |
|-----------------|--------------------------|---|---|--|--|-----------------|-------------|
| * ġ enħ - | beget a child be born | OLat genō 'beget' Lat gignō 'produce' OE cennan 'beget' Grk gennáo 'beget' Skt jánati 'begets' Lat gnāscor 'am born' (intr.) Grk gígnomai 'am born' (intr.) Skt jajána 'am born' (intr.) | | Present I: jánāmi [1sg.act.] (RV+) Present IV: jáyate [3sg.med.] 'be born' (RV+) Aorist R: ajani [1sg.med.] (RV 08.006.10 later ajñi TB) Aorist IS: ájaništa [3sg.med.] (RV+), jánišva [2sg.impv.med.] (RV+) Aorist RED: ájjanat [3sg.act.] 'has produced, has created' (RV+) Aorist mediopass: ájani [3sg.] (RV), jáni [3sg.inj.] (RV 01.141.01), jáni [3sg.inj.] (RV 08.007.36) Perfect: jajána [3sg.act.] 'has produced, has given birth (to)' (RV+), jajñé [3sg.med.] 'is born' (RV+) Fut: janišyáte [3sg.med.] 'will be born' (RV 01.081.05+) Caus: janáyati | | Vital Functions | JPM |
| * ġ enħ -men- | offspring | | {1} [AL] The distribution of jániman- and jánman- is not quite clear. One of the options is *génħ -mn [nom.acc.sg.] > jánima, *génħ -mn-éi [dat.sg.] > jánmane (thus G. Schmidt, M. Peters), but the opposite is likewise possible. | | | | IIAL |
| * ġ enħ -tōr | father; procreator | Lat genitor Grk genétōr Skt janitár- | {1} OAv. zəθā (Y 44.3) can hardly be misspelled for *zanā = Ved. janitā. | | | Kinship | JPM IIAL |
| * ġ enħ -tro- | birth-place | | | | | | IIAL |
| * ġ enħ -tu- | tribe | | | | | | IIAL |
| * ġ énh -es- | family | Lat genus 'family' Grk génos 'family' | Which derives from * ġ enħ - 'be born' | | | Family | JPM |
| * ġ enħ -os- | ??race | Arm cin 'birth' Skt jánas- 'family' | | | | | IIAL |
| * ġ enħ -trih□- | mother, procreatix | Lat genetrix Grk genéteira Skt janitrī- | | | | Kinship | JPM IIAL |

Sheet1

| | | | | | | |
|------------------------|------------------|--|--|--|---|--------------|
| * ġ énu- | jaw | <p>Olr gin 'mouth'</p> <p>Lat gena 'cheek'</p> <p>NE chin</p> <p>Grk génuś 'chin, jaw'</p> <p>Phryg azén 'beard'</p> <p>Av zānu- 'jaw'</p> <p>Skt hānu- 'jaw'</p> <p>Toch A śanwem [dual] 'jaws'</p> | {1} The origin of Skt h- (instead of expected *j-) is unknown. | | grind up the two jaws (of the wolf): S Head | JPM IAL |
| * ġ eP- | ± eat, masticate | <p>Olr gop 'muzzle, snout, beak'</p> <p>OE ceaff 'jaw, jowl' [> NE jowl]</p> <p>Lith žebiu 'masticate, eat slowly'</p> <p>Rus zobátī 'eat'</p> <p>Av zafar- □ zafan- 'mouth of a demonic being'</p> | | | Food & Drink | JPM |
| *ger- | ± hiss, howl | <p>OE ceorran 'creak'</p> <p>Lith gūrti 'yell'</p> <p>Alb nguron 'howls [of the wind]'</p> | West Central | | Human Sounds | JPM |
| *ger- | herd, crowd | <p>Mlr graig 'horse herd'</p> <p>Lat grex 'herd, company'</p> <p>Grk gárgara 'crowd'</p> | West Central | | Social Organization | JPM |
| *ger- * ġ erh : no- | crane | <p>NWels garan</p> <p>Lat grūs</p> <p>NE crane</p> <p>Lith gėrvė</p> <p>Rus žeravī 'crane, goose'</p> <p>Arm křunk</p> <p>Oss zymnæg</p> | Clearly onomatopoeic and the root vowel is unclear | | Bird | JPM Celt. |
| *gerg- | crack, resound | <p>OE cearcian 'creak, gnash'</p> <p>NE crack</p> <p>Lith ġirgždžiu 'creak'</p> <p>Skt ġarjati 'roars, howls'</p> <p>Arm karkač 'noise'</p> | | | Human Sounds | JPM |

Sheet1

| | | | | | | |
|---------------|-----------------------------|--|--|--|-----------------|-------------|
| * ġ erh, - | make decayed, make old | | <p>{1} [LK] Treated as a thematic aorist by Whitney 1885, Narten 1964: 121 and Joachim 1978: 83, as a class VI present by Gotō 1987: 152).</p> <p>{2} [AL] In RV 01.179.01, jaráyantīḥ must probably be scanned with a long root vowel, see Jamison 1983: 154.</p> <p>{3} [AL] The distribution RV -ūr- : AV -īr- is unparalleled. Since -ūr- only occurs in the RV (ajuryá- in later texts is a loanword from the RV), this reflex must be due to a specific development in this text. It is therefore reasonable to assume that the verb jūrv 'to destroy, eradicate', most probably derived from the same root and only attested in the RV, played a crucial role. For a similar -ūr- / -īr- interplay see tari.</p> <p>{4} [AL] RV jīrvī-, AV jīrvī- [adj] 'helpless, weak, decrepit', often connected with this root, can hardly reflect Pllr. *jīrH-u- (+ -i-), because the latter would most probably have yielded **juru-.</p> | <p>Present I: járanti [3pl.act.] (RV) 'to make age'</p> <p>Present IV: jūr̥yati [3sg.act.] (RV), jīryati [3sg.act.] (AV+) 'to become decrepit'</p> <p>Aorist IS: jāriṣur [3pl.inj.act.] (RV)</p> <p>Aorist A or Present VI {1}: jurátam [2du.impv.act.] 'make decrepit!' (RV 01.182.03)</p> <p>juránt- [ptc.act.] (RV) 'old, decrepit'</p> <p>Perfect: jajāra [3sg.act.] 'has become old' (AV 10.8.26), jujurvāms-, jujurúṣ- [ptc.act.] (RV)</p> <p>Caus: jaráy° 'to make age' (RV+) {2}</p> <p>na-ptc.: jūr̥má- (RV), jīr̥má- (AV+) {3}</p> | | IIAL |
| * ġ erh, -nt- | be old | | | [f] járatī- (RV, AV). | | IIAL |
| * ġ erh□- | grow, age, mature ?ripen | <p>OCS zūrēti 'ripen'</p> <p>Grk gēraskō 'age, grow old'</p> <p>Skt jīryati □ jūr̥yati 'grows old, becomes decrepit'</p> <p>Toch AB kwār- 'age, grow old'</p> <p>Grk gērōn 'old man'</p> <p>Arm cer 'old man'</p> <p>Skt járant- 'old man'</p> | | | Vital Functions | JPM |
| * ġ erh□-o-s | old man | <p>Arm cer</p> <p>NPers zar</p> | | Already in the RV (2x) acc.sg. jarām, from where jará- [f | Family | JPM IIAL |
| * ġ erh□-ont- | old man | <p>Grk gērōn 'old man'</p> <p>Oss zærand 'old'</p> <p>Skt járant- 'old man'</p> | Greek and Indo-Iranian | | Family | JPM |

Sheet1

| | | | | | | | |
|------------------------------|-----------------------------|--|---|---|---|--------------|------|
| * ġ es- | be hungry | | {1} [AL] Khot. ysah-, quoted by EWAia, cannot be related as it means 'to be quiet', rather than 'to cease' OKhot. yseh- means 'to make quite', and not 'to give up' (see Cheung XXX for the references). | Present IV: jasyata [2pl.impv.] (RV), Aorist A: jāsamāna- [ptc.med.] (RV), Perfect: jajāsa [3sg.act.] (AV), jajastām [3du.impv.] (RV) Caus: jāsay° (Br.+), Aorist RED: ajījasah [2sg.act.] (AVP+) | | | IIAL |
| * ġ eus- | taste (A) be pleased (M) | | {1} [LK] Reduplicated present, probably based on perfect (Kümmel 2000: 671f.). | Aorist A: jušánta [3pl.inj.med.] (RV+) Aorist R: ajušran [3pl.med.] (RV 01.071.01), jóšat [3sg.subj.act.] (RV), jušanā- [ptc.med.] (RV) SI-impv: jóši (RV) Aorist IS: jóšišat [3sg.inj.act.] (RV 02.035.01) Perfect: jujóša [3sg.act.], jujušé [3sg.med.] (RV+) Caus: jošáyate [3sg.med.] 'to enjoy (mutually)' (RV) Abs: juštví (RV) TA-Ptc.: juštá-, júšta- 'welcome, wished, agreeable' (RV+) | 'to enjoy according to the wish': Skt. uśán ... jujoša (RV 04.025.01) — YAv. uštīm zaošəmca 'to be agreeable to the gods': Skt. devá-jušta- (RV), júštam devébhiḥ (RV 10.125.05) — OAv. daēuuō.zušta- 'desired by the Daēuuas, favourite of the Daēuuas' 'of the same wish': Skt. sa-jóša(s)- [adj] 'being in harmony with, united' (RV+) — OAv. ha-zaoša- [adj] | | IIAL |
| * ġ eus- | taste, enjoy | Olr do-goa 'choose' Lat dēgunō and gustō 'taste' NE choose Grk geúomai 'taste' Av zaoš- 'be pleased' Skt jušáte □ jóšati 'enjoys' | | | | Food & Drink | JPM |
| * ġ ^h (e)utreh□- | ± pot | Thrac zetraia 'pot' Grk khútra 'pot' | Greco-Thracian Isogloss | | | Containers | JPM |
| * ġ ^h (h.)iy-eh□- | yawn | Lat hiāre OHG gīēn NE yawn Lith žiójū Rus zijátī Toch B kāyā- 'yawn, gape' | | | | Human Sounds | JPM |

Sheet1

| | | | | | | | |
|--|-------------------------------------|---|---|--|--|--------------|----------------------|
| * ġ ^h (o)(h□)- *g ^h ab ^h - | gold, yellow, silver take, seize | Olr gaibid 'takes' Lat habeō 'have' Lith gabenū 'present' Pol gabac 'seize' Skt gābh-astin- 'hand' | {1} [AL] The meaning of gābhasti- in the compound syūmagabhasti- (RV), which is an epithet of a chariot, is not quite certain. Also the passage RV 01.054.04d -śītām gābhasim aśānim prṭanyāsi 'you fight the sharp ...' remains unclear. {2} [AL] The etymology remains uncertain because of -a- in Latin and the interchange Skt. -bh- : Ir. -u-. Also the remarkable make-up of the Indo-Iranian word (suffix -sti- ?) does not inspire confidence in the connection with the European Igg. | | | Give & Take | Beekes JPM IAL |
| *g ^h ab ^h lo/eh□- | fork, branch of tree | Olr gabul 'fork' OE gafol 'fork' [> NE gavel] | | | | Trees | JPM |
| * ġ ^h ai-só-s | throwing spear | OE gār 'spear' [cf. gār + lēac 'leek' > NE garlic] Grk khaĩos 'herdsman's staff' Skt hēśas 'missile' | It would appear to be from * ġ ^h i- 'throw' | | | Weapons | JPM |
| *g ^h aidos | goat | Lat haedus NE goat | | | | Fauna | JPM |
| *g ^h ait(so)- | hair, mane | Mlr gaĩsid 'stiff hair' Grk khaitē 'mane' Av gaēsa- 'curly hair' | | | | Hair | JPM |
| * ġ ^h alg ^h eh□- | pole, stake | NE gallows Lith žalgà 'long thin pole' | | | | Construction | JPM |
| * ġ ^h alh□ros | evil, unpleasant, unhealthy | Olr galar 'sickness, distress' Hit kallara- 'something unpleasant' NE gall [on the skin] Lith žalà 'damage, loss injury wrong' Ukrainian zolok 'painful place of a wound' | | | | Values | JPM |
| * ġ ^h an-s | goose | Olr gēis Lat ānser NE goose Lith žąsis Rus gusĩ Grk khēn Skt haṃsa- 'waterfowl' | some have derived it from the verbal root * ġ ^h han- 'gape, yawn' | | | Bird | JPM |
| *g ^h asd ^h - | spear, shaft | Lat. hasta 'spear-shaft, lance' Goth. gazds 'goad' | | | | | Celt. |
| * ġ ^h asd ^h os | rod, staff | Lat hasta 'spear' OE gierd 'staff, measuring pole' NE yard | North-Western | | | Construction | JPM |

Sheet1

| | | | | | | | |
|--------------------------------------|--------------------|---|---|--|--|-----------------|-----|
| *g ^h e(n)d ^h - | seize, take in | OIr ro-geinn 'finds a place in' Lat pre(he)ndō 'grasp' NE forget, begin Lith godóti 'guess, suppose' OCS gadati 'imagine, guess' Alb gjej 'find, obtain' Grk khandánō 'take in, comprise' | West Central | | | Give & Take | JPM |
| *g ^h eb ^h ōl | head | ON gafi 'gable, gable-side' [whence, via Old French, comes NE gable] Grk kephálē 'head' Toch A špāl 'head' | Yields the meaning 'gable' as well as 'head' or 'skull' in the Germanic languages. | | | Head | JPM |
| *ġ ^h ed-ye/o- | defecate | Alb dhjes Grk khézō Skt hadati | | | | Vital Functions | JPM |
| *g ^h ed ^h - | join, fit together | NE together Lith guōdas 'honour, respect' OCS godŭ 'appointed time' Skt gádhya- 'what really holds fast, what suits one' | Yields an o-grade *g ^h ōd ^h o- in Germanic whence we have NE good. | | | Binding | JPM |

Sheet1

| | | | | | | | |
|----------------------------|----------------------------------|--|--|---|--|--------------|-------------|
| * ġ ^h eh, - | leave | NE go Grk kikhāno 'meet with' Av zizāmi 'leave off' Skt jáhāti 'leaves' | {1} [LK] Or, rather, 1sg.pres.subj.act. 'I will abandon you' (see Kümmel 2000: 608f.). | Present III: jáhāti [3sg.act.] (RV+), jihīte [3sg.med.] (RV+) Present IV: hīyate, hīyāte [3sg.med.] (RV+) Perfect: jahúr [3pl.act.] (RV+), jahā [3sg.act.] 'he has abandoned' (RV 10.071.08) {1} Aorist S: ahās [2,3sg.act.] (RV+), ahāsata [3pl.med.] (RV) Aorist SIS: hāsiṣtam [2du.inj.act.] (AV+) Fut: hāsyanti [3pl.act.] (AV+) Caus: ví hāpayāmasi [1pl.act.] 'to make open, to spread apart' (AV+) Aorist RED: áva jīhipas [2sg.inj.act.] (RV 03.053.19) na-ptc.: hīná- (RV+) Abs: hitvá (RV+) | | Travel | JPM IIAL |
| *g ^h eh□- | yawn | ON gan 'yawn' Grk kháskō 'yawn' | West Central | | | Human Sounds | JPM |
| *g ^h éh□(u)-mr, | interior of mouth (gums, palate) | NE gums Lith gomurys 'palate' | North-West | | | Head | JPM |
| * ġ ^h ei- | impel, drive | | {1} As clearly indicated by the Skt. form, *gheimen was originally loc.sg. of the word for 'winter', so that an n-stem is secondary. | | | Fauna | JPM |

Sheet1

| | | | | | | | |
|--|---------------|---|--------------|--|--|-----------------|-------------|
| * ġ ^h eim- * ġ ^h iem- | winter, snow | Gaul Giamonios [name of a winter month] Lat hiems 'winter' Lith žiemà 'winter' OCS zima 'winter' Alb dimër 'winter' Grk kheiuma 'winter' Arm jiwn 'snow' Hit gímmant- 'winter' Av zyām- 'winter' Skt héman 'in winter' ON gymbr 'ewe lamb one year old' dialectal English gimmer 'ewe between the first and second shearing' | | | | Time | JPM IIAL |
| * ġ ^h eis- | frighten | NE ghost ON geiska-fullr 'full of fear' Av zaēša- 'horrible' Skt hēḍa- 'anger' | | | | Values | JPM |
| *g ^h el- | cry out, sing | NE yell Rus na-gálitī 'cry, sing' Grk khelīdōn 'swallow' [the bird] | West Central | | | Speech | JPM |
| * ġ ^h el- | plough | Lith žuolis 'sleeper, tie' Arm jlem 'plough' Skt halá- 'a plough' | | | | Tools | JPM |
| * ġ ^h el- *g ^h el- | yellow | Olr gel 'white' NWels gell 'yellow' Lat helvus 'honey yellow' NE yellow Lith gelfas 'yellow' želfas 'golden' Av zairi- 'yellow' Skt hāri- combines both 'yellow' and 'green' OCS zelenī 'green' Grk khlōrós 'green' Skt hāri- 'yellow, green' NE gold Latv zēlts OCS zlato Av zaranyam Skt hīranyam | | | | Color Metals | JPM |
| *g ^h el(h.)d- | hail | OCS žlédica 'freezing rain' Grk khálaza 'hail' NPers žāla 'hail'. | | | | Water | JPM |
| *g ^h eld ^h - | desire | OCS žlīdēti 'desire', gladū 'hunger' Skt grīdhyati 'is envious', gardha- 'envy' | | | | Desire | JPM |
| *g ^h el ġ ^h eh□- | gland | Rus železá 'gland' Arm geljk' [pl.] 'gland' | West Central | | | Organs | JPM |

Sheet1

| | | | | | | | |
|--|---------------------------|---|--|--|--|----------------------|-------------|
| *g ^h éluh□s | tortoise | OCS žely Grk khélus | | | | Fauna | JPM |
| *g ^h eluneh□- | lip | ON gjoġlnar 'jaws' Grk khelú nē 'lip' Arm jēlun 'palate' | West Central | | | Head | JPM |
| * ḡ ^h eng ^h - ?* ḡ ^h eng ^{wh} - | step, walk | Ōlr cingid 'steps' OE gangan 'go' Lith žengiu 'stride, step' Av zanga- 'ankle' Skt jāṃhas- 'step, wingbeat' | {1} [AL] The reconstruction of an ā-stem for Plr. follows from Ossetic (D. zængæ points to Plr. -ā). {2} [AL] The rendering 'shank', often found in the dictionaries, is imprecise, at least for older Vedic. | | | Come & Go | JPM IIAL |
| * ḡ ^h eng ^h -os- *g ^h ēr | wing (?) hedgehog | Lat ēr Grk khēr | West-Central | | | Fauna | JPM |
| *g ^h er- | cry (of animals or birds) | Lat hirrē 'howl like a rabid dog' ON garpr 'warlike man' RusCS gŭrkati 'coo' Skt gharghara- 'gurgling' | | | | Animal Noises | JPM |
| * ḡ ^h er- | shine, glow | NE grey Lith žeriu 'shine' OCS zŕŕjŕ 'glance, see' | North-West | | | Light & Dark | JPM |
| *g ^h erd ^h - | gird, surround | NE gird, girdle | | | | Textiles Dwelling | JPM |
| * ḡ ^h erh□ | like | | | Present IV: háryati [3sg.act.] (RV-TBm, ŠB=BAU), háryamāna- [ptc.med.] (RV) Caus: harayanta [3pl.inj./subj.med.] (RV 04.037.02) | | | IIAL |
| * ḡ ^h ers | be stiff, be excited | | {1} [AL] Contrary to what is stated in the EWAla, it is unnecessary to assume that in hars/ghrs, two Ilr. roots have fallen together, viz. *jharš- and *gharš-. Since the IE facts unequivocally point to *ghers-, we must rather assume that in zero-grade *ghrs-, the palatovelar was depalatalized (Weise's Law). Forms like hršvant- can easily be restored. | Present I: hársate [3sg.med.] (RV+) Present IV: hršyati [3sg.act.] (RV 10.086.07, Br.+) Perfect: járḥsāná- [ptc.med.] (RV 01.101.02) Intensive: jarḥrsanta [3pl.inj.med.] (RV) Caus: haršáyati [3sg.act.] (RV+) TA-Ptc.: hršitá- 'glad, excited' (RV+) | | | IIAL |

Sheet1

| | | | | | | | |
|--|----------------------------|--|--|---|--|----------------|-----------------------|
| * ġ ^h ers- | stiffen (of hair), bristle | NE gorse Lat horreō 'bristle' Av zaršayamna- 'feathers upright' Skt hārṣati 'bristles, becomes erect or rigid' becomes sexually excited' | | | | Qualities | JPM |
| *g ^h érsos | asp | Norw gjørs 'pikeperch' zérekħ 'asp' Skt jhaṣá- 'a kind of large fish' | | | | Fish | JPM |
| * ġ ^h es-l-dkōmth. | 1000 thousand | | | | | | Beekes |
| * ġ ^h és-r- ?* ġ ^h es-to- | hand | Lat hīr 'hollow of the hand' Alb dorē 'hand' Grk kheir 'hand' Arm jeṛn 'hand' Hit kissar 'hand' Toch B ṣar 'hand' | | | | Body (Upper) | JPM Beekes IIAL |
| * ġ ^h esl(iy)os | 1000 thousand | Grk khīlioi [pl.] Av hazaṇra- Skt sa-hásram | Greek-Indo-Iranian isogloss the first element * ġ ^h es- is probably related to the word for 'hand' and the number is possibly an expression of a handful or two handfuls of grain. | | | Numbers | JPM |
| * ġ ^h eu- | pour | Grk khé(w)ō 'pour' Toch AB ku- 'pour' Lat fūtis 'pitcher' Av zaoθra- 'libation' Skt hōtar- 'priest' who juhóti 'pours out the sacrificial libation' | {1} [AL] As made probable by Beekes 2000a, Germanic word for 'god' (Go. guþ [n] 'god', etc.) is not related. {2} [AL] See Scarlata 1999: 702f. | Present III: juhóti [3sg.act.] (RV+) Perfect: juhvé [3sg.med.] (RV) Aorist S: hauṣam [1sg.inj.act.] (TS+), ahaṣur [3pl.act.] (KS) SI-impv: hoṣi (RV 06.044.14) Aorist mediopass: áhavi [3sg.] (RV) Fut: hoṣyāti [3sg.act.] (AV+) Passive: hūyáte [3sg.] (RV+) TA-Ptc.: hutá- 'poured worshipped with a sacrifice' (RV+) | | Liquid Motions | JPM IIAL |
| * ġ ^h eu-ter- | pourer | | | | | | IIAL |
| * ġ ^h eu-tr-eh-:- | libation | | | | | | IIAL |

Sheet1

| | | | | | | | |
|---|-------------------------|--|---|--|--|----------------|---------------|
| * ġ ^h eu(h□)- | call to, invite, invoke | Olr guth 'voice' OCS zovŭ 'call' Av zavaiti 'calls' Skt hāvate 'calls, invokes' Toch B kuwā- 'call, invite' Gmc 'god' as 'what is invoked' (* ġ ^h utóm) Toch B ñakte 'god' < *nī- ġ huto- i.e. 'the one invoked downward' | | | | Speech | JPM Beekes |
| * ġ ^h eud- | pour | Lat fundō 'pour' NHG giessen | North-West an enlargement of * ġ ^h eu- 'pour' | | | Liquid Motions | JPM Beekes |
| *g ^h eu ġ ^h - | protect, hide | Lith gūžti 'cover with something warm' Av gūzra- 'hidden, secret' Skt gūhati 'conceals' | | | | Conflict | JPM |
| * ġ ^h eumn- | libation | Grk kheúma 'that which is poured' Phryg zeumán 'libation' Skt hóman- 'libation' | | | | Meals | JPM |
| * ġ ^h éyos | horse | Arm ji 'horse' Skt háya- 'horse' | from * ġ hei- 'impels, drives' | | | Fauna | JPM |
| * ġ ^h ens- | goose | | {1} Derivation from the PIE root for 'to yawn' *ghh ₃ -en- (Gr. ἔχων, etc.) seems probable. | | | | IIAL |
| * ġ ^h □wos | gaping hole | Grk kháos 'chaos' Toch A ko 'mouth' | | | | Dwelling | JPM |
| * ġ ^h i | surely, indeed | | | | | | IIAL |
| *g ^h leh□d ^h -(ro)- | smooth | Lat glaber 'smooth' NE glad Lith glodūs 'smooth(ed)' OCS gladiti 'to smooth' | North-West from *g ^h el- 'shine' | | | Qualities | JPM |
| *g ^h leu- | revel | NE glee Lith gláudoti 'joke' Rus glum 'joke' Grk khleúē 'joke' | West Central | | | Values | JPM |
| * ġ ^h lh ₃ -en- | gold | | | | | | IIAL |
| * ġ ^h ng ^h éno/eh□- | ± buttock | Grk kokhōnē 'crotch' Skt jaghána- 'hind end, buttock, pudenda' | Greek-Indic isogloss | | | Body (Lower) | JPM |
| * ġ ^h ō- | behind | Lith až(ù) 'behind' Rus za 'by, to' Arm z- 'with regard to' | West-Central | | | Position | JPM |
| * ġ ^h óh ₃ ros | gap, empty space | Grk khóros 'free space, area between, land' Toch B käre 'pit, hole' Grk khêrā 'widow' | | | | Space | JPM |
| * ġ ^h óln- | gall | Lat fel NE gall Grk khóloskholē Avzāra- | A transparent derivative from * ġ hel- 'yellow' | | | Organs | JPM |
| * ġ ^h ólos | | | | | | | |
| * ġ ^h or- | young pig | Alb derr 'pig, hog, swine' Grk khoĩros 'young pig swine' | | | | Fauna | JPM |

Sheet1

| | | | | | | | |
|-------------------------------------|------------------------------|--|--|--|--|----------------------|---------------|
| * ġ ^h or(ye/o)- | desire | Lat horior 'exhort, incite' NE yearn Grk khairō 'rejoice' Skt hāryati 'finds pleasure in, desires' Toch B ker(y)- 'laugh' | | | | Desire | JPM |
| *g ^h órd ^h os | fence, hedge; enclosure, pen | NWels garth 'pen, fold' Rus górod 'town' Hit gurtas 'citadel' | | | | Dwelling | JPM Beekes |
| * ġ ^h orh□neh□- | entrails | NE yarn Grk khordé 'string of gut sausage' Skt hīra- 'band, strip' Lat haruspex 'entrail-seer' ON ġörn 'guts' Lith žarnà 'guts' | Suggests the connotation 'string of gut' | | | Organs | JPM |
| * ġ ^h ós-to-s | hand | Lat praestō [< *prai-hestōd] 'a hand' Lith pa-žastis 'ampit' Av zasta- 'hand' Skt hásta- 'hand' | | | | Body (Upper) | JPM |
| *g ^h ostis | guest; stranger, enemy | Lat hostis 'stranger, enemy' Lat hospēs 'foreigner, guest host' [< *ghosti-pot- 'guest-master'] OE giest 'stranger, guest' [the related NE guest is a loanword from ON] OCS gostī 'guest', gospodī 'master' | North-West | | | Social Organization | JPM |
| *g ^h ou- | perceive, pay heed to | Lat faveō 'favour' ON gā 'pay attention to' OCS govějō 'honour' Arm govem 'praise' | West Central | | | Knowledge & Thought | JPM |
| *g ^h ou-ro- | awful ? | | | | | | IIAL |
| *g ^h oyso- | spear | Skt. hēṣa- 'arm' OE gār | | | | | Celt. |
| *g ^h reb ^h - | dig | NE grave Lith gré'btī 'rake' OCS pogrebō 'bury' | North-West | | | Reductive Activities | JPM |
| *g ^h reb ^h - | grasp, take, enclose | Middle Dutch, MHG grabben 'seize' Latv grebju 'seize' OCS grabiti 'snatch up' Hit k(a)rap- 'devour' Av ġərwñā itī 'takes' Skt ġr̥bhñāti 'grabs' | | | | Give & Take | JPM |
| *g ^h red ^h - | step, go | Olr in-ġreinn 'pursue' Lat gradior 'stride', gradus 'step' Goth ġrips 'step' Lith ġrīdyju 'go, wander about' Rus ġrjadú 'go' | | | | Come & Go | JPM |
| * ġ ^h reh□d- | hail | | | also ġ ^h ī- [f] (TS+), hlāduni- [f] (Br.) | | | IIAL |

Sheet1

| | | | | | | | |
|---------------------------------------|------------------------------|--|---|--|--|----------------------|---------------|
| *g ^h rei- | touch lightly | Lith gr(i)ejù 'skim [cream]' Grk khríō 'touch the surface of a body lightly, graze [hence] rub or anoint with oil, coat with colour' | West Central | | | Sensation | JPM |
| *g ^h reib- | grip, grasp | NE grip, gripe, and grope Lith griēbti 'seize' | North-West | | | Give & Take | JPM |
| *g ^h rend ^h - | grind | Lat frendō 'gnash the teeth' NE grind Lith grėndu 'scrape, scratch (off)' Grk khóndros 'grain' | | | | Agriculture | JPM |
| *ġ ^h res | shorten | | | Caus: hrāsay° (Gobh.+) TA-Ptc.: nir-hrasta- (ŚrSū.) | | | IIAL |
| *g ^h res- | ± threaten, torment | Toch AB krās- 'vex, torment' Lith gresiū 'threaten, menace' | | | | Values | JPM |
| *ġ ^h résd ^h (i) | barley | Lat hordeum German Gerste Grk krí krīthē Hitt karas 'wheat' Alb drīthē 'cereal grain' | | | | Plants | JPM Beekes |
| *g ^h romos | thunder | OCS gromŭ 'noise' vŭz-grīmēti 'to thunder' Grk khrómos 'noise' | from the verb *ghrem- 'groan' | | | Air | JPM |
| *ġ ^h uh□-éie | call | | | | | | Beekes |
| *ġ ^h utóm | that which is called/invoked | NE god NHG Gott *ní-ġ hutos Toch B ñakte Toch A ñkāt | | | | Dieties | JPM |
| *ġ ^h wáks | torch | Lat fax 'torch' Lith žvākė 'candle' | West Central | | | Tools | JPM |
| *ġ ^h wēr | wild animal | Lat fera 'wild animal' Lith žvėris 'wild animal' OCS zvėrī 'wild animal' Grk thēr 'wild animal' | | | | Fauna | JPM |
| *ġ ^h wonos | a sound, voice | OCS zvonŭ 'noise' Alb zē 'voice' Arm jayn 'voice' | | | | Human Sounds | JPM |
| *gla ġ ^h - | cry out, lament | OHG klagōn 'bewail, complain about' Av gərəzaiti 'laments, cries' Skt grhāte 'lament' | | | | Human Sounds | JPM |
| *gleh□-u- | ball, bump | | {1} The appurtenance of the Iranian words, especially because of their -l-, is uncertain. | glāuh [nom.sg.] (AV), glāvam [acc.sg.] (AVP), glāvah [nom.pl.] (AB 1.25.13), glaut | | | IIAL |
| *gleub ^h - | cut off, cut out | Lat glōbō 'peel' NE cleave Grk glúphō 'carve out' whence glyph | West Central | | | Reductive Activities | JPM |

Sheet1

| | | | | | | | |
|---|-----------------|--|--|--|--|---------------------|---------------|
| *głh ₁ ís | dormouse? | Lat glīs 'dormouse' Grk galéē 'weasel' [< *'mouser'] Bakhtiari girza 'rat' Skt giri- 'mouse' | | | | Fauna | JPM |
| * ġ lh ₂ -i- | husbands sister | | {1} [AL] Slav. *z- clearly points to an initial palato-velar, but it is unclear why it became depalatalized in Skt. It seems improbable to me that FU *kǝnǝ > Fin. kǝly 'sister of the husband or the wife' is a borrowing from Plir. (!) *gǝlh ₂ ím (acc.sg.) (as argued for in Katz 2003: 179). This word might be of Nostratic origin. {2} [AL] The word has been identified by Eichner-Kühn 1976: 28-32 in a late mantra (ĀpMB 2.22.5). In spite of Eichner-Kühn's argumentation that girer in this mantra must be abl.sg. of the word for 'sister-in-law' rather than of the word for 'mountain', the late attestation makes the identification doubtful. | | | | IIAL |
| * ġ lh ₃ -wos- * ġ elh ₂ -ōu | husbands sister | Lat glōs 'sister-in-law' OCS zǫlǫva 'husband's sister' Grk gálōs 'sister-in-law' Arm tal 'husband's sister' Skt giri- 'brother's wife' | | | | Kinship | JPM Beekes |
| *gloiwos | clay | NE clay Grk gloiós 'clay' | Limited Distribution | | | Earth | JPM |
| * ġ n(e)h ₃ -tēr | knower | Lat nōtor Grk gnōstēr (with analogical -s-) Av žnātar- Skt jñātār- | | | | Knowledge & Thought | JPM |

Sheet1

| | | | | | | | |
|---------------------------|--------------------------|--|--|---|--|---------------------|----------|
| * ġ neh ₃ - | know, be acquainted with | Present: * ġ neh ₃ -neh ₃ - OIr ad-gnin 'recognizes' OE cunnan 'know, be able to' Lith žinóti 'known' Av zānāiti 'knows' Skt jānāti 'knows, recognizes' Toch A knānā- 'know' formed with the suffix *-ske/o- Lat (g)nōscō 'know' Alb njoh 'know' Grk gignōskō 'know' | {1} Isolated form, probably built analogically on the model of deyām, dheyām (Narten 1964: 122). {2} [AL, LK] Most forms traditionally taken as perfects of jñā (weak stems) belong in fact to jani 'to be born' see Kümmel 2000: 203f. Also pra-jajñivāms- (RV 03.002.11) rather belongs to this root. {3} See jārā-. | Present IX: jānāti [3sg.act.] (RV+) (< *jñ-n-aH- with restored laryngeal in the root) jānīté [3sg.med.] (RV+) Aorist R: jñeyās [2sg.opt.act.] (RV 02.010.06) {1} Precative: jñesam [1sg.act.] (AV, VS) Aorist S: ajñāsthās [2sg.med.] (AV+) Aorist SIS: ajñāsiṣma [1pl.act.] (JB) Perfect: vi-jānús- [ptc.act.] (RV 10.077.01 nonce), jajñau [1sg.act.] (late Br.+) {2} Passive: ví jñāyante [3pl.] (RV 04.051.06), +sam jñāyate [3sg.] (AV 20.129.11), - jñāyāte [3sg.] (YVp+) Aorist mediopass: ajñāyi [3sg.] (RV 06.065.01) Caus: sám jñāpay | | Knowledge & Thought | JPM IIAL |
| * ġ neh ₃ -tis | knowledge | Lat nōtiō 'a becoming acquainted, investigation conception' Rus znatī '[circle of] acquaintances' Grk gnōsis 'knowledge' Skt pra-jñāti- 'knowledge' | | | | Knowledge & Thought | JPM |
| * ġ neh ₃ -mn | ?sign | Lat cognōmen 'surname' Rus znamja 'sign, mark' Grk gnōma 'distinctive mark' | West Central | | | Sight | JPM |
| * ġ nh ₁ -mi- | birth, related by birth | | {1} Connected with jāmātar-, which is probably wrong. | | | | IIAL |
| * ġ nh ₁ -to- | born | | | | | | Beekes |
| * ġ nh ₁ -tu- | birth | | | | | | IIAL |

Sheet1

| | | | | | | | |
|---------------------------|-------------------------|---|---|--|--|---------------------|-------------|
| * ḡ ṇh₃tós | known | Olr gnāth 'used to, known' Lat nōtus 'known' Grk gnōtós 'known' Skt jñātā- 'known' | | | | Knowledge & Thought | JPM |
| *gol- | branch | Rus goljǎ́ 'branch' Arm kolr 'branch' | | | | Trees | JPM |
| * ḡ ombʰio- | belonging to the teeth | | | | | | IIAL |
| * ḡ ómbʰos | tooth, set/row of teeth | NE comb Latv zūobs 'tooth' OCS zqbŭ 'tooth' Alb dhēmb 'tooth, tusk' Grk gómphos 'large wedge-shaped bolt or nail' Skt jámbha- 'tooth' Toch B keme 'tooth' | | | | Head | JPM IIAL |
| * ḡ omh□-ter- * ḡ omo- | son-in-law | Skr jāmatar- | {1} [AL] YAv. zāmaoiia- has taken over the suffix of YAv. brātruiia- [m] 'nephew' and tūiriia- [m] 'father's brother' < PlIr. *pHtruiia- and may indicate that PlIr. had a form without the suffix -ātar- (which, in its turn, has been taken from the word for 'brother'). {2} [AL] The relevance of Gr. γαμρός, attested in inscriptions, seems doubtful to me. {3} [AL] It is clear that no reconstruction would account for all forms and that we have to reckon with secondary associations with other words and roots. The long vowel in Indo-Iranian is the major crux, although it is seldom treated as such. Both Ilr. and Gr. seem to point to a form without any laryngeal, *ḡomo- (+ *-Hter-) and *ḡmro-, respectively. The connection with Gr. γαμέω (< *ḡmH-eio-) 'to marry' is then indirect, the verbal root being extended with a laryngeal, cf. further s.v. Plr. *zamH- (XXX). | | | Kinship | JPM IIAL |
| * ḡ ónh₁-o- | race | | | | | | IIAL |
| * ḡ onh□dʰ-o-s | jaw | Lith žándas 'jaw, cheek' Grk gnáthos 'jaw, mouth' Arm cnawt 'jaw' | West Central | | | Head | JPM |
| * ḡ ónu | knee | Olr glŭn Lat genŭ NE knee Alb gju Grk gónu Arm cunr Hit gēnu Av žnu-, Skt jānu Toch B kenī(ne) [dual] | | | | Body (Lower) | JPM IIAL |
| *gordebʰós | wild ass | Skt gardabhā- Toch B kercapo | Eastern | | | Fauna | JPM |

Sheet1

| | | | | | | | |
|------------------------------------|---------------------|---|---|---|--|----------------|---------------|
| *gówr, | (animal) body hair | Mlr gūaire '[animal] hair, bristles' Lith gaūras 'down, tuft of hair' Av gaona- 'body hair, colour' Skt guṇā- 'thread, string' | | | | Hair | JPM |
| *gras- | eat, graze | ON krās 'delicacy' Grk gráo 'gnaw, eat' Skt grásate 'swallows, consumes' Lat grāmen 'grass' | it is possible that it may have originally referred to herbivores (or Latin transferred the word to herbivores) | | | Food & Drink | JPM |
| *greut- | ± compress | Olr gruth 'cheese' NE crowd | Irish-English Isogloss | | | Bend and Press | JPM |
| * ġ rħ □ nóm | grain | Olr grān Lat grānum NE corn Lith žirmis 'pea' OCS zríno Alb grurē 'wheat' Pashto zaṇnai □ zaṛai 'kernel, seed' | | | | Plants | JPM Beekes |
| *grōdo- | hail | Lith grúodas 'frost' OCS gradŭ 'hail' Lat grandō 'hail' Arm karkut [< *gagrōdo-] 'hail' | | | | Water | JPM |
| *gub ^h o/eh □- | (store)room, alcove | OE cova 'bedchamber' NE cove Bajui bidvāj 'lower part of a storeroom' | | | | Dwelling | JPM |
| *gudóm | intestines | Low German kūt Macedonian góda Skt gudá- | May derive from the verbal root *geu- 'bend, twist' | | | Organs | JPM |
| *gutṛ, | gullet, throat | Lat guttur 'gullet, throat, neck' Hit kuttar 'nape of neck' | | | | Organs | JPM |
| *g ^w (i)yēh □- | taut thread | Grk biós 'bow' Av jyā 'bowstring' Skt jyā 'bowstring' Lith gijā 'warp threads' OCS žica 'thread' | It seems more probable that the underlying PIE meaning simply referred to a 'taut thread' and was specialized to bowstring in Greek and Indo-Iranian. | | | Weapons | JPM |
| *g ^w ab ^h - | dip | ON kafa 'dive' Grk báptō 'dip in' Skt ga(m)bhīrā- 'deep' | | ? | | Swim | JPM |
| *g ^w ād ^h - | dive | Olr bāidid 'dives, drowns' Grk bēssa 'valley' Av vi-gāθa- 'ravine' | | ? | | Swim | JPM |
| *g ^w eh ₁ - | go | | {1} Originally, n. of the participle to jīgāti. [AL] This indicates that some of the forms of the reduplicated present had -á- in the reduplication syllable. | Present III: jīgāti [3sg.act.] (RV+) Aorist R: ágāt [3sg.aor.act.] (RV+) Perfect: jagāyāt [3sg.pf.opt.act.] (RV) Inf: gātave (RV) | | | IIAL |
| *g ^w eh ₃ us | cow | | | | | | Beekes |

Sheet1

| | | | | | | | |
|--|------------------------|--|--|--|--|----------------------------------|------|
| *g ^w eh□- | come | OIr baid 'dies' Latv gāju 'go' dialectal Grk bibánti 'they stride' Skt jīgāti 'goes' | This alteration *g ^w em-: *g ^w eh□- is paralleled in the verbal root 'to run', i.e. drem- : *dreh□- | | | Come & Go | JPM |
| *g ^w eid ^h - | be foul, purulent | ON kveisa 'boil, whitlow' OCS židukū 'sap-filled, juicy [of plants]' Grk defsa 'slime' | | | | Health&Sickness | JPM |
| *g ^w eih,- *g ^w yeh,- | live | Lat vivō 'live' Lith gyjū 'become healthy' OCS živō 'live' Av j vaiti 'lives' Skt jīvati 'lives' Grk zōō 'live' Toch B šāw- 'live' NE quick is related to this root | | | | Vital Functions | JPM |
| *g ^w el- | strike, stab pierce | NWels ballu 'die' NE kill and quell OPrus gallan 'death' Lith géliti 'sting', 'ache' Arm kelem 'torture' Grk belónē 'needle' | West Central | | | Conflict Reductive Activities | JPM |
| *g ^w el(s)- | well up, flow | OHG quellan Grk blúō Skt gá lati Toch B kā ls- 'trickle, ooze' | | | | Liquid Motions | JPM |
| *g ^w eld ^h - | be greedy | | {1} With present meaning 'they are greedy'. {2} Regularly < PlIr. *g(h)rdh-sa-. The reflex of *grdzha- may be found in Pa. gijjha- 'greedy, vulture'. {3} For *gərəðra- = Ved. gr̥dhra- (?). Connection of other Avestan forms (e.g. OAv. gərəzdi-) with gardh- is uncertain. {4} = Skt. gr̥dhnú- (?), cf. gr̥dhra- 'vulture' for the meaning. | Present IV: gr̥dhyant- [ptc.act.] (RV 02.038.03, ŚB+) Aorist A: ágr̥dhat [3sg.act.] (RV 10.034.04) Perfect: jāgr̥dhúh [3pl.act.] (RV 02.023.16) {1}, jāgr̥dhur [3pl.act.] (ŚB 3.9.3.21) Fut: gardhiṣyati [3sg.act.] (Br.) | | | IIAL |

Sheet1

| | | | | | | | |
|------------------------|-----------------|---|---|---|--|----------|-------------|
| *g ^w elh - | throw | NWels blif 'catapult' Grk bállō 'throw' Av ni-yar- 'be thrown down' | {1} Or mistake for *niynāire? (Insler). | Present VI: ud- gurāmāṇa- [ptc.med.] (VS) Intensive: apa- jāgurāṇa- [ptc.med.] 'raising the arm (for striking)' (RV 05.029.04) Abs: apa-gūryā (RV 05.032.06) na-ptc.: ud-gūrṇa- (Cl.) | | Throw | JPM IIAL |
| *g ^w elh □- | acorn | Lat glāns Lith gilė Rus želudī Grk bálanos Arm kalin Skt gula- 'penis' | | | | Trees | JPM |
| *g ^w elōn | insects stinger | Lith geluō 'stinger' Grk déllithes 'wasps' | | | | Bug | JPM |
| *g ^w elōn | insects stinger | Lith geluō 'insect's stinger' dialectal Grk déllithes [pl.] 'wasps' | West Central | | | Conflict | JPM |

Sheet1

| | | | | | | | |
|----------------------|--------------|---|---|---|---------------------------------------|-----------|-------------|
| *g ^w em- | come go?? | Lat veniō 'come' NE come Grk baínō 'come' Skt gácchati 'goes' Toch B kām- 'come' Lith gimù 'am born' | {1} [AL, LK] Based on the sentence jamad agni[h] 'Agni will come' (pace Mh. 'zu Agni gehend'), where jamat probably represents the root aorist subjunctive, with the regular palatalization (i.e. < *gwemet). | Present SK: gáchati [3sg.act.] (RV+) Aorist R: ágan [3sg.act.] (RV+) (< PIE *h ₁ é-gwem- t with secondary g- from the present) Aorist A: gámat [3sg.act.] (RV+) Aorist RED: ajīgamat [3sg.act.] (AV) Perfect: jagāma [3sg.act.] (RV+) jagmé [3sg.med.] (RV+) Fut: gamisy ^o (AV+) Caus: gamáyati [3sg.act.] (RV+) gāmaya [2sg.impv.act.] (RV 05.005.10) 'let go, bring!' Inf: gántave (RV+), gámadhyai (RV) TA-Ptc.: gatá- (RV+) | may you come to us for...': Skt. sá n | Come & Go | JPM IIAL |
| *g ^w énh□ | woman | Olr ben 'woman, wife' OE cwene 'woman, female serf, prostitute' OPrus genna 'wife' OCS žena 'wife' Grk guné 'woman, wife' Arm kin 'wife' Av gənā- 'woman, wife' Skt gnā- 'goddess, divine female' Toch B šana 'woman' | The development of this word in English shows two poles: the e-grade gives ultimately English quean, i.e. 'an impudent or disreputable woman' (but, in OE, also (any) 'woman or wife'), while a lengthened grade root (*gwēni-) gives OE cwēn 'woman, wife, consort', NE queen. {1} [AL] The forms with disyllabic ganā- are inexistent: they all in reality reflect disyllabic ā, like in root nouns in -aH-. {2} Uralic *nāxi 'woman' may be a LW from IE | | | Family | JPM IIAL |

Sheet1

| | | | | | | | |
|------------------------------------|--------------------|---|---|--|--|----------------------|-------------|
| *g ^w erh _s - | swallow devour? | Lat vorō 'swallow [up], devour' Av jaraiti 'swallows' Skt girāti 'swallows' Lith geriù 'drink' Grk borá'meat, food of a predator' | {2} Connection of Olr. gelid [verb] 'to eat (of animals), to devour' with gar- [2] is unlikely. | Present VI: girāti [3sg.act.] (AV+), gilati (Br.+) Aorist A: garan [3pl.inj.act.] (RV) Aorist IS: gārīt [3sg.inj.act.] (RV) Perfect: jagāra [3sg.act.] (RV+) Fut: garisy° (Br.+) Intensive: jaľgulas [2sg.subj.act.] (RV 01.028.01), galgaliti [3sg.act.] (VS) na-ptc.: gīrná- (RV 10.088.02 +) | | Food & Drink | JPM IIAL |
| *g ^w erh _□ - | praise | OPrus girtwei 'praise' Alb gērshas 'invite to a marriage' Av gar- 'praise' Skt grṇāti 'sings, praises' Lat grātēs [pl.] 'thanks' (i.e. 'praisings') | | | | Formal Speech & Song | JPM |
| *g ^w erh _□ - | welcome | | {1} [AL] Thus e.g. Gotō 1987: 153f. Some of the scholars only accept járate 'to become awake'. | Present IX: grṇāti [3sg.act.] (RV+) grṇitē [3sg.med.] (RV+) Present I: járate [3sg.med.] (RV+) {1} Aorist R: gūrta [3sg.inj.med.] (RV 01.173.02) Aorist A: ā gurasva [2sg.impv.med.] (RV in the Br. transformed into a present, e.g. TB ā gurate) Perfect: juguryāt [3sg.opt.act.] (RV) Abs: abhigúryā 'approving, accepting' (RV) TA-Ptc.: gūrtá- 'welcome' (RV+) | | | IIAL |

Sheet1

| | | | | | | | |
|------------------------------------|-----------------|--|---|---|--|-------------------------|-------------|
| *g ^w éru | spear, spit | Lat verū Olr biur Av grava- 'staff' | | | | Weapons | JPM |
| *g ^w es- | extinguish | Lith gèsti 'go out OCS ugasiti 'extinguish' Grk sbénnūmi 'extinguish' Hit kist- 'go out' Skt jáśate 'be extinguished' Toch B kes- 'go out' | As to our final reconstruction, Anatolian argues for an initial *g-, Greek and Indic for *gw- the other languages will allow either | | | Health&Sickness Fire | JPM |
| *g ^w éśdos | branch | OHG questa 'tuft of branches' OPol gwozd 'mountain forest' Alb gjeth 'leaf ' | | | | Trees | JPM |
| *g ^w et- | say | OE cweðan 'say' NE quoth Arm koč'em 'call' Sogdian žut 'says' Skt gádati 'says' | | ? | | Speech | JPM |
| *g ^w étu | pitch resin | Lat bitūmen 'mineral pitch, bitumen' OE cwidu cudu 'mastic' [> NE cud] Skt játu 'lac, gum' NWels bedw 'birch' Lat betulla 'birch' (< Gaulish) | | | | Trees | JPM IIAL |
| *g ^w étus | stomach, womb | OE cwip̥ 'belly, womb' Lat botulus 'intestines, sausage' Toch B kätso 'belly, womb' | | | | Organs | JPM |
| *g ^{wh} aidrós | bright, shining | Lith gaidrūs 'fine, clear [of weather], bright, limpid [of water]' Grk phaidrós 'beaming [with joy], cheerful' | West Central | | | Light & Dark | JPM |
| *g ^{wh} ed ^h - | ask, pray | Olr guidid 'asks, prays' Lith gedáuju 'desire' OCS žęždq 'desire' dialectal Grk théssasthai 'ask, pray' Av jaiyemi 'ask, pray' NE bid | | | | Formal Speech & Song | JPM IIAL |
| *g ^{wh} el- | wish, want | OCS želěti 'wish' Grk théló 'wish' | West Central | | | Desire | JPM |

Sheet1

| | | | | | | | |
|---|------------------|---|--|---|---|-----------|----------------|
| *g ^{wh} en- | strike ?slay | Olr gonaid 'wounds, strikes' Lat dēfendō 'protect' ON gunnr 'combat' Lith genù 'drive cattle hunt' Rus gon 'a drive, a hunt' Grk theinō 'strike', phónos 'murder' Arm ganem 'strike' Hit kuēnzi 'strikes' Av jainti 'strikes' Skt hānti 'strikes' Toch B kās-k- 'scatter [violently]' | This is the predominant verb used in the 'hero slays a serpent' motif which plays an important role in Indo-European mythology | Present II: hānti [3sg.act.] (RV+), ghnānti [3pl.act.] (RV+), jahí (< *gwhn̥-dhi) [2sg.impv.act.] (RV+) Present I<III: jīghnate [3sg.med.] (RV+) Perfect: jaghāna [3sg.act.] (RV+) Fut: hanisyāti [3sg.act.] (RV+) Passive: hanyāte [3sg.] (RV+) Caus: ghātayati (Br.+) Intensive: jāñghanti [3sg.act.] (RV+) Desid: jīghāmsati [3sg.act.] (RV+) TA-Ptc.: hatá- 'killed, slain' (RV+) Abs: hatvá (RV+), Inf: hāntave, hāntavái | Vr̥tra-slayer': Skt. vr̥tra-hán- (RV) — | Conflict | JPM IIAL |
| *g ^{wh} ermós *g ^{wh} or-mó- | warm | Lat formus 'warm' NE warm OPrus gorme 'heat' Thrac germa- 'warm' Alb zjarm 'fire' Grk thermós 'warm' Arm jerm 'warm' Av garəma- 'hot' Skt gharmá- 'heat, glow' | | | | Qualities | JPM IIAL |
| *g ^{wh} ih̥-(slo)- | ± sinew, thread | NWels gīau [pl.] 'nerves, sinews' Lat filum 'thread' Lith gijà 'thread (in a warp), skein' OCS žica 'sinew' Lith gy'sla 'vein' Arm jīl 'cord' | | | | Textiles | JPM |
| *g ^{wh} ntos *g ^{wh} on-o- | killed slayer | | | | | | Beekes IIAL |

Sheet1

| | | | | | | | |
|---|----------------------------|---|--|--------------------|--|---------------------|----------------|
| *g ^{wh} onós | ± thick, sufficient | Lith ganà 'enough' OCS goněti 'suffice' OPers āganiš 'full' Skt ghaná- 'thick' ?Grk eutheněō 'flourish' Arm y-ogn 'much' | | | | Measure & Quantity | JPM |
| *g ^{wh} r-no- | heat | | | | | | IIAL |
| *g ^{wh} r-to- | heat | | {1} [AL] Considering the fact that 'ghee' is 'melted butter', derivation from the verb 'to heat' is more probable than connection with ghar 'to sprinkle'. For Mlr. gert 'a product of cattle excluding calves, esp. milk or manure' see Schriever 1996. | | | | IIAL |
| *g ^{wh} ren- | think | ON grunr 'suspicion', grundr 'meditation' Grk phroněō 'think', phrěn 'midriff spirit' | West Central suggesting that the Greeks or their ancestors once placed the organ of knowledge in the chest and not the head | | | Knowledge & Thought | JPM |
| *g ^{wh} rensós | warm | Olr grís 'heat, fire' Skt ghramśá- 'heat of the sun' | Celtic-Indic isogloss | | | Qualities | JPM |
| *g ^w ieh□- | bow-string | | | jiyā- | | | IIAL Beekes |
| *g ^w ih ₃ wo- | resin, pitch | Olr bī 'pitch' Rus živicá 'soft resin' Arm kiv 'tree pitch, mastic' | the plant's 'living material' from *gwyeh ₃ - 'to live' | | | Trees | JPM |
| *g ^w ītur | vulture | Lat voltur □ volturis □ volturus Grk blosur-ōpis 'vulture-eyed' | | | | Bird | JPM |
| *g ^w m-ské | go (to) | | | | | | Beekes |
| *g ^w orh□- | mountain forest | OCS gora 'mountain' Alb gur 'rock' Av gairi- 'mountain' Skt girí- 'mountain', | Always 'forest' in Baltic | | | Earth | JPM |
| *g ^w ou-d ^h eh ₁ - | sucking cows | | | godhā(s) [nom.sg.] | | | IIAL |
| *g ^w ou-k ^w olos | cowherd cow turner | Mlr būachail 'cowherd' Grk boukólos 'cowherd' | | | | Occupations | JPM Beekes |
| *g ^w ou-sth ₂ -ó- | sheltered place for cattle | Skt gośthá- 'sheltered place for cattle' Celtiberian boustom 'cattle stall' | Could be independant formation | | | | JPM |
| *g ^w ōus | cow | Olr bō Lat bōs NE cow Latv guovs Grk bouś Arm kov HierLuv wawa- Av gāuš Skt gāu- Toch B keu | No semantic distinction between these three | | | Fauna | JPM |

Sheet1

| | | | | | | | |
|--|-------------------------|--|---|--|--|----------------------|---------------|
| *g ^w reh□-u- *g ^w rh ₂ -u- | heavy | Grk barús Mlr bair 'heavy' Lat gravis 'heavy' Latv grūts 'heavy' Toch B kramār 'weight, heaviness' Skt gurú- 'heavy' | {1} [AL] According to de Vaan 1997, YAv. gouru.zaoθra- (Yt 10.113) must be emended to *pouru.zaoθra- [adj] 'of many oblations'. The Middle Iranian adjective for 'heavy, difficult' is *garān: MP gl'n, (Man.) gr'n, Parth. gr'n, Sogd. yr'n (Buddh.Sogd. yr'nh 'pregnant'), which most probably represents an extension of *gar < Plr. *garu- with a suffix θ-an. {2} [AL] In view of the late attestation of this term and its rather technical meaning, I would hesitate to explain gru- by compositional laryngeal loss. Maybe a simple dissimilation? {3} [AL] For the short vowel in the root cf. Lubotsky 1997b. From *gwr(e)h□(-u) 'heavy' | gurvī- [f] (AVP, Sū.+) {3} gāriyas- [comp] (KS, TB+) garīṣtha- [sup] (Paṇ, Cl.) | | Qualities | JPM IIAL |
| *g ^w réh□-w-on- | quern | Olr brāu 'quern' NE quern Lith girna 'millstone', girnos [pl.] 'quern' OCS žrūny 'quern' Arm erkan 'quern' Skt grāvanīf it does indicate a 'stone for pressing soma' Toch B kārweñe 'stone' [if <*"millstone"]). | Beeks has *h ₂ for the laryngeal | | | Tools | JPM Beekes |
| *g ^w ret-sos | thick | Mlr bres 'large, thick' Lat grossus 'thick' | North-West | | | Shape | JPM |
| *g ^w rh□-ino- | rocky terrain, crag | OCS gora 'mountain' Lith. giriā 'wood', Alb. gur 'rock'. | | | | | Celt. |
| *g ^w rñ□d ^h h ₁ -ó-s | poet? | Olr bard NWels bardd Av garəm dā- 'give praise' Skt giram dhā- 'give praise' | from *g ^w rñ□d ^h eh ₁ - 'praise-put' very possibly independant creations | ?? | | Formal Speech & Song | JPM |
| *g ^w rih ₁ w-eh□- | neck | Latv grīva 'river mouth' Rus grīva 'mane' Av grīvā- 'neck [of a demonic being]' Skt grīvā 'neck' | Possibly derived from the verb *gwer(h ₂)- 'swallow', suggests the neck viewed from the inside, i.e. the throat. | | | Head | JPM |
| *g ^w uh□- | defecate | Arm ku 'dung, manure' Av gūθa- 'dirt, excrement' Skt gūtha- 'dung' ?Lat imbūbināre 'defile with menstrual blood' OHG quāt 'dirt, excrement' | | | | Vital Functions | JPM |
| *g ^w yéh ₂ wyom | animal | Grk zōon 'animal' Toch B šaiyye 'sheep/goat' | built on the root *g ^w yeh ₂ - > *g ^w eih ₂ - 'to live' | | | Fauna | JPM |
| *g ^w yeh□- | physical power overcome | ON kveita 'make an end to, kill' Grk biā 'physical force, violence' Skt jyā 'force, violence', jināti 'overpowers, suppresses' | | | | Conflict | JPM |
| *g ^w yo- | sinew, bowstring | | | | | | Celt. |

Sheet1

| | | | | | | | |
|---------------|--------------|---|---|--|---|-----------------|------------|
| * ġ yeuh□- | chew | NE chew Rus žujú 'chew' NPers jāvidan 'chew' Toch AB šuwā- 'eat' | | | | Food & Drink | JPM IAL |
| *h,(e)n-ter | between | | {1} The analysis of the second part is disputed. | | 'to place inside (-> conceal, destroy)': Skt. antār dhā- (RV+) — Lat. inter-ficiō 'to ban, expel': OAv. antarə ... mruiē — Lat. inter-dīcō | | IAL |
| *h,(e)su- | good | Grk eū 's 'good, useful' Hit āssu- 'good' Lat erus 'master' Celtic divine name Esus | | | | Values | JPM |
| *h,/,eis- | refresh | Grk ierós 'manifesting divine power, holy, hallowed', iáomai 'heal' Av tš- 'strength' Skt iṣ- 'refreshment, comfort, strength', iṣirā- 'strong, lively' Hit iski(ya)- 'salving' or 'anointing' | | | | Health&Sickness | JPM |
| *h,/,ek- | rake, harrow | Lith akėti 'to harrow' NWels oged Late Lat occa OE eg(e)ðe ecgan dial Grk oksína Grk ógmos 'furrow' Oss adoeg [< *agoed] 'furrow' Hit akkala- 'furrow' or 'type of plough' | | | | Agriculture | JPM |
| *h,/,óh,(e)s- | mouth | Mlr ā 'mouth' Lat ōs 'mouth' ON ōss 'mouth of a river' Hit a(y)is- 'mouth' Av āh- 'mouth' Skt ās- 'mouth' | | | | Head | JPM |
| *h,/,okéteh□- | harrow, rake | NWels oged 'harrow' Lat occa 'harrow' OE eg(e)ðe 'harrow, rake' Lith aké čios [pl.] 'harrow' Oss adæg [< *agæd] 'furrow' | | | | Tools | JPM |
| *h,/,ómsos | shoulder | Lat (h)umerus Goth ams 'shoulder' Grk ómos 'shoulder' Arm us 'shoulder' Hit an(as)sa- 'hip, buttocks upper back' Skt ámsa- 'shoulder' Toch B äntse 'shoulder' | {1} Possibly *h.emo- [AL] Hitt. anassa- '(lower) part of the back' is most probably unrelated, as it must stand for /?(a)nassa- (Kloekhorst, forthc.) | | | Body (Upper) | JPM IAL |

Sheet1

| | | | | | | | |
|---|---------------------------|--|---|---|------|----------------------|-------------------------|
| *h ₁ /i ōr- | speaking a ritual formula | Lat ōrō 'address the gods', ōrāculum 'oracle' Grk arā 'prayer' Hit ariya- 'consult an omen' Rus orū'cry out' Skt āryati 'acknowledges, praises' | | | | Formal Speech & Song | JPM |
| *h ₁ dónt- *h ₃ d-ont- | tooth | Olr dēt Lat dēns NE tooth Lith dantis Grk odón Arm atamn Av dantan- Skt dánt- Rus desná 'gums' | Originally a participle from the verb *h ₁ ed- 'eat' (cf. Hit adant-'eaten') {1} Based on acc.sg. dántam. {2} See kárūḡatin-. {3} [AL] Gr. (Aeol.) ἔδοντες [nom.pl.] 'tooth' does not prove *h ₁ being a folk-etymological adaptation. The IE root-present of the verb *h ₁ ed- 'to eat' clearly shows that the root was not resultative. | dán [nom.sg.], dántam [acc.sg.], datás [gen.sg.], etc. (R | Head | | JPM IIAL |
| *h ₁ e- | anaphoric pronoun | | {1} Forms a suppletive paradigm with ay- [2]. [AL] The PIE nom.sg.m. was *h ₁ e, to which -i- (+ Plr. *-am) was secondarily added. For the reconstruction of the PIE paradigm see Beekes 1982-3: 208ff. {2} With i- from the acc. im. | nom.sg.m. ayám, dat.sg.m./n. ásmāi abl.sg.m./n. asmāt gen.sg.m./n. ásyā {1} | | | IIAL |
| *h ₁ e/oti *h ₁ éd- | over eat | Olr ithid 'eats' Lat edō NE eat Lith é'du 'eat' Grk édō 'eat (up), devour' Arm utem 'eat' Hit ētmi 'eat' Av aāiti 'let eat' Skt ádmi 'eat' Toch A nātsw- 'starve' < *'not-eat'. | | | | Food & Drink | Beekes JPM Beekes |
| *h ₁ edie | today | | {1} adyá must be due to metrical lengthening. Cf. sa-dyás 'on one day, on the same day, immediately' (RV+), but the formation of adyá is unclear. {2} Hardly the same formation. from *h ₁ ed- 'eat' | | | | IIAL |
| *h ₁ edonom | food | Grk edanón Hit adanna- Skt ádanam | | | | Food & Drink | JPM |
| *h ₁ édwōl | pain evil | Hit idālu- 'evil' Toch B yolo 'evil' Olr idu 'pains, birthpangs' Grk odúnē 'pain, suffering' | From a root *h ₁ ed- 'eat' or 'bite' the word means 'evil' in both Anatolian and Tocharian | | | Health&Sickness | JPM |

Sheet1

| | | | | | | | |
|-------------------------|------------------|---|--|--|--|---------------------|---------------|
| *h,e ġ | 1S I | Lat ego 'I' OE ic 'I' (> NE I) Lith aš 'I' Arm es 'I' emphatic form *h, eg'óm OCS *(j)azŭ Alb unë Grk egō(n) Skt ahám | Accusative (*h, me) is found as the base form for Celtic (Olr mē 'I'), Anatolian (e.g. Lyc amu ēmu 'I, me'), and Tocharian (Toch B ñaś [< h, mé-g'e]). | | | Pronouns | JPM |
| *h, eg- | be in need, lack | Lat egeō 'need' ON ekla 'lack' Hit aki 'dies' Toch AB yāk- 'neglect, be careless about' [<*be lacking with regard to'] | | | | Exchange & Property | JPM |
| *h,e ġ- | say | Lat aiō 'say' Grk ē 'said' Arm asem 'say' Toch AB āks- 'announce, proclaim, instruct' | | | | Speech | JPM |
| *h,e ġ ^h - | cow | Olr ag Arm ezn Skt ahī- | No semantic distinction between this and other cow words | | | Fauna | JPM |
| *h,e ġ ^h (s) | out (of) | Olr ess- 'out' Lat ex 'out (of)' Latv iz 'out' OCS iz 'out' Grk eks 'from, out of' | West-Central | | | Position | JPM Beekes |
| *h,e ġ ^h om | I | | | | | | IIAL |
| *h,e ġ ^h is | hedgehog | OE igil Lith ežys Rus ež Grk ekhlunos Arm ozni Phrygian ezis Oss wyzyn | | | | Fauna | JPM |
| *h, ēg ^{wh} mi | drink | Hit ekumi 'I drink' Lat ēbrius 'having drunk one's fill, drunk' Grk nēphō 'am sober' (< *neh, e ^{wh} 'not drink' Toch AB yok- 'drink' | | | | Food & Drink | JPM |

Sheet1

| | | | | | | | |
|--|------------------------|--|--|---|---|-----------------|-------------|
| *h ₁ eh ₁ t-mén- | breath | OE æðre Skt ātmán- OHG ātum 'breath' Toch A āñcām 'self, soul' | {1}Also in reflexive usages (RV+). | nom.sg. ātmā, acc.sg. ātmānam, loc.sg. ātmāni weak stem: instr.sg. tmánā, dat.sg. tmāne, loc.sg. tmán(i), sometimes also acc.sg. tmānam (RV 01.063.08), puru-tmānam 'rich in life-breath' (RV 08.002.38) | | Vital Functions | JPM IIAL |
| *h ₁ eh ₁ tr- | ± lung, internal organ | Celtic inathar 'entrails' OHG ād(a)ra 'vein' Grk éto 'heart', étron 'belly, abdomen' Av hv-āθra- 'comfort' | Poses horrendous problems of semantic reconstruction | | | Organs | JPM |
| *h ₁ eh ₁ ug ^(w) h- | announce | | {1} [LK] To be distinguished from the forms of the root vāh 'to respect' see Insler 1996 Kümmel 2000: 488. vācam ... ūhiṣe probably does not belong here see Insler 1996: 184 ('[like a messenger his] word, I respect [you]'). {3} [AL] This is an original reduplicated present of *h ₁ uegwh- (attested in e.g. Lat. voveo), cf. Lindeman 1972: 67. | Present II: óhate [3pl.med.] (RV), óhāna- [ptc.med.] (RV), ohase [2sg.subj.med.] (RV) óhate [3sg.subj.med.] (RV) Aorist IS: áuhiṣṭa [3sg.med.] (RV 06.017.08) {1} | to say the word': Skt. vācas ... ohase (RV 01.030.04) — YAv. v | IIAL | |
| *h ₁ eh ₁ -os- | mouth | | {1} Not a-nās- 'without a nose' > 'with a flat nose'. {2} [AL] Cf. also paraca ā 'before (my) eyes' (Yt 8.1), Gershevitch apud Panaino 1990: 89. | āsā [instr.sg.] 'with the mouth, before one's eyes, present, visible' (RV) āsás [abl.sg.] (RV) other case forms are based on āsán- [n] (āsán, āsáni [loc.sg.], āsnā [instr.sg.] (RV+)) and āsyā- [n] 'mouth, jaws' (RV+) | with the mouth, with the tongue': Skt. āsā jihvāyā (RV 01.140.0 | IIAL | |

Sheet1

| | | | | | | | |
|---------------------------|---------------------------|--|--|---|--|-----------|---------------|
| *h.éi *h.ih□- *h.id | this (one) | Lat is ts/eā/id 'he/she/it' OHG ir er/iz ez 'he/it' Lith jīs/ji 'he/she' Cypriot Grk in 'him, her' HierLuv is 'this' Skt ayám/iyám/idám 'he/she/it,this' | Masc emphatic *h.eyom Neut emphatic *h.idóm □ *h.idéh□ | | | Pronouns | JPM |
| *h.ei- | go | Lat eō 'go' Goth iddja 'went' Lith eimi 'go' OCS iti 'go' Grk eīmi 'will go' Hit yanzi 'they go' Av aēiti 'goes' Skt éti 'goes' Toch AB i- 'go' | {1} [AL] It is unclear whether inóti (RV) 'to send, impel' and ūyate (RV+) 'to speed' belong to this root. | Present II (act.): 1sg. émi, 2sg. éši, 3sg. éti, 2du. ithas, 3du. itás, 1pl. imási, 2pl. ithá, 3pl. yánti, 2sg.impv. ihí, 1sg.impf. áyam, 3pl. áyan (< PIE *h.ē-h.ī-) (RV+) Present (them.) áyate [3sg.med.] (RV+) Perfect: iyáya [3sg.act.] (RV+), ŭyúš [3pl.act.] (RV+) Fut: ešyáti [3sg.act.] (AV+) TA-Ptc.: úd-ita- (RV) Inf: ityai (RV) {1} | | Come & Go | JPM IIAL |
| *h.ei-ti *h.eig- | pour libation, to move | ON eikinn 'furious' OCS igrati 'play' Grk ep-eigō 'drive on' Skt éjati 'stirs' | | | | Movement | Beekes JPM |
| *h.eih□(s)- | ice | NE ice Lith ýnis 'glazed frost' Rus ínej 'hoarfrost' Av aēxa- 'frost, ice' | '(hoar)frost' | | | Water | JPM |
| *h.eis- | set in motion | Skt iṣṇáti Av aēš- ON eisa 'go dashing' Grk ináō 'pour' | | | | Movement | JPM |

Sheet1

| | | | | | | | |
|-------------|-----------|--|--|--|--|----------|---------------|
| *h .eish₂- | send | | {1}[LK] Thus according to Gotō 1993: 130. This and other perfect forms built on the stem iyēs-/īs- are likely to belong to eš [1] 'to wish', see Kümmel 2000: 126ff. | Present IV: išyati [3sg.act.] (RV+), - išye [1sg.med.] (RV 04.033.01) Present IX: išnāsi [2sg.act.] (RV+), išnānt- [ptc.act.] (RV+), išnānā- [ptc.med.] (RV 01.061.13) Present X: išayema [1pl.opt.act.] (RV 01.185.09), išáyant- [ptc.act.] (RV+) Present ANYA: išanyāti [3sg.act.] (RV) (Perfect: īsiré [3pl.med.] (AV) (?) {1}) Aorist ANA: išanāt [3sg.inj.act.] (RV) Inf: išádhyai 'to drive on' (RV 07.043.01), išayádhyai (RV) TA-Ptc.: išítá- 'urged' (RV+) | | | IIAL |
| *h .éitr | way, road | Lat iter 'a going, walk, way' Hit itar 'a going' Toch B yťārye 'road, way' | r/n heteroclitic, from the verbal root *h .ei- 'go' | | | Roads | JPM |
| *h .eiwos | yew | Olr ēo 'yew' OPrus iuwis 'yew' Lith ievà 'bird cherry' Rus íva 'willow' Hit eya(n)- '+yew' | | | | Trees | JPM |
| *h .ekt- | net | Myc dektu- Grk díktuon Skt ákṣu- Hit ēkt- | | | | Textiles | JPM |
| *h .ékweh□- | mare | Lat equa Lith ešvā □ ašvā Av aspā Skt ásvā- | | | | Fauna | JPM Beekes |

Sheet1

| | | | | | | | |
|----------------|--|---|--|--|--|-----------------|--------------|
| *h.ékwos | horse | Olr ech Lat equus OE eoh Grk híppos Av aspa- Skt áśva- Toch B yakwe HierLuv azu(wa)- Lith ašvīenis 'stallion' | {1}Hitt. (Kikkuli) assussanni- 'horse-trainer' is most probably a loan word from Indo- Aryan. Also HLuv. asu- (and Hitt. assu-, if existent) 'horse' may be loan words. | | 'with quick horses': Skt. āśv-āśva- (RV+) — YAv. āsu.aspa- 'unbound horse': Skt. víṣita- āśva- (RV) — YAv. Vištāspa- [m] PN, OP vištasp- /vištāspa-/ [m] PN (= 'of unbound horses') 'to appease horses': Skt. āśvān prī- (RV+) Mitanni-IA Bi-ri-da-aš-ya [m] PN (= Skt. *prītāśva-), Mitanni-IA Bi-ri-ja- aš-šu-ya [m] PN (= Skt. *priyāśva-) — OAv. Frīnāspa- [m] PN Elam.-Iran. Pir-ri-ya-iš-ba [m] PN (= Iran. *Friyāspa-) | Fauna | JPM IAL |
| *h.el- | go | MWels el 'may go' Grk elaúnō 'drive' Arm el 'climbed, came out' | West Central | | | Come & Go | JPM |
| *h.el- | waterbird, swan | Olr ela Lat olor Grk eléā ? | | | | Bird | JPM |
| *h.élem | mountain elm (Ulmus mant.) | Mlr lem 'elm' Lat ulmus 'elm' NE elm Rus ílem 'mountain elm' | | | | Trees | JPM |
| *h.elew- | juniper, cedar | Rus jálovec 'juniper' Grk elátē 'pine, fir' Arm elevin 'cedar' | | | | Trees | JPM |
| *h.elh.ēn | red deer | Lith élnis, Rus olenī Grk élaphos, all 'red deer' Arm eln 'hind' Toch B yal 'gazelle' | | | | Fauna | JPM |
| *h.elh.níh□- | hind/cow-elk adult female Cervus elaphus | NWels elain Lith élnė OCS lanialni | | | | Fauna | JPM Celt. |
| *h.élkes- | ± ulcer | Lat ulcus 'ulcer' [> by borrowing NE ulcer] Grk hélkos 'ulcer' Skt árśas- 'haemorrhoids' | | | | Health&Sickness | JPM IAL |
| *h.elu-(s/no-) | dull red reddish | OHG elo 'yellow' Av aurūša- 'white' Skt aruśá-, 'aruṇá- 'reddish, golden' | {1} Less probable to PIE *h. reudh-. | | 'reddish/white steed': Skt. árvant- ... aruśá- (RV) — YAv. auruuant- aurūša- 'reddish/white horse': Skt. áśva- ... aruśá- (RV) — YAv. aspa- aurūša- auruśāspa- 'with white horses' | Color | JPM IAL |
| *h.em- | take, distribute | Lat emō 'take' Lith imù 'take' OCS imǫ 'take' | North-West | | | Give & Take | JPM |
| *h.em-o- | my | | {1} Only attested in the formula (AV 14.2.71 with repetitions in later texts) ámo 'hám asmi sá tvám 'This one here am I, she thou'. Probably, unrelated to amú-. {2} Connection with áma- uncertain. | | | | IAL |

Sheet1

| | | | | | | | |
|-----------------------------------|-----------------------|---|---|--|--|--------------|----------------------|
| *h. empís | gnat, stinging insect | OE ymbe 'swarm of bees' Grk empís 'gnat' | Uncertain | | | Bug | JPM |
| *h. en | in | | | | | | Beekes |
| *h. én-do | into | Lat endo 'in' Alb ndë 'in' Grk éndon 'within' Hit anda(n) 'in' | | | | Position | JPM |
| *h. en-t(e)rom | innards | ON innr 'entrails' OCS jętro 'liver' Grk éntera [pl.] 'entrails' Arm nderk 'entrails' Skt antrá- 'entrails' NE innards | | | | Organs | JPM |
| *h. en(i) | in, into | Olr in 'in(to)' Lat in 'in(to)' NE in Lith iñ 'in' Alb inj 'up to' Grk en 'in' Arm i 'in', Toch AB y(n)- 'in, among' | | | | Position | JPM |
| *h. endrós | egg, scrotum | Rus jadró 'kernel, scrotum' Skt āṇḍá- 'egg, scrotum', [dual] 'testicles' | Built on a preposition and indicates 'that which is inside' | | | Body (Lower) | JPM |
| *h. enek- | attain | Olr ro-icc 'reaches' Lat nanciō 'attain' OE geneah 'is adequate' (cf. NE enough) Lith nešù 'carry' OCS nesq 'carry' Grk enegkeiun 'to carry' Arm hasanem 'arrive' Skt aśnóti □ náśati 'gains' Toch A ents- 'take, grasp, seize' | | | | Come & Go | JPM |
| *h. énh. u | without | NHG ohne 'without' Grk áneu 'without' Oss ænæ 'without' | | | | Position | JPM |
| *h. éni-h. k ^w -o/eh□- | face | Olr enech Grk enōpē Av ainika- Skt ánīka- 'face, front' Gr. ōps 'face' OCS očī 'eyes' | | | | Head | JPM IIAL Celt. |
| *h. entér | into, between | Olr eter 'into, between' Lat inter 'between' OHG untar(i) 'between' OCS qtrī 'inside' Alb ndër 'between, among' Av antarə 'within, between' Skt antár 'between' | derived from *h. en 'in' | | | Position | JPM |

Sheet1

| | | | | | | | |
|----------------|---------------------|---|--|---|--|-------------|-------------|
| *h. entero- | inner | | {1} Both interior and intrā are based on Lat. *interus. {2} = Lat. *Intera. {3} From PGm. *inθerōz. | | | | IIAL |
| *h. entmh□o- | innermost | | | | | | IIAL |
| *h. entos | within | | {1} Cf. Paṣaī (Chilāsī) andastōn from *antaḥ-sthāna-. {2} Not an exact correspondence of antastya-. | antaṣṭya- (AVP 7.15.7, 8.8.3 for -ṣṭ- see Griffiths 2004 ad 7.15.7) | | | IIAL |
| *h. enu | along | | {1} ānu° is found in a few old compounds, cf. an-ānukṛtyā- [adj] 'inimitable' (RV), ānujāvarā- [adj] 'born after' (TS+), ānuṣūka- [adj] 'shot after' (TS), etc. For ānuṣāk see s.v. {2} The weak stem is anūc- (RV acc.pl. anūcās, f. anūcī), which also forms the basis of a few derivatives, e.g. anūcīnā- [adj] 'successive' (RV+), ānūka- [n] 'backbone' (AV+), anūkyā- [n] 'backbone' (RV+), anūcyā- [n] 'lengthwise piece (of a seat, bed)' (AV+). {3} [AL] The difference between Plir. Hanu and Hānu° may represent *h. enu vs. *h. onu°, cf. *h. epi vs. *h. opi°. {4} IE derivation is not very certain. Cf. also YAv. ana 'along'. | | | | IIAL |
| *h. enu-h:p-o- | along the water | | | | | | IIAL |
| *h. ep- | take, seize grab | Lat optō 'wish' OCS za-(j)apŭ 'presumption, suspicion' Grk epi-ōpsomai 'choose' | {1} Secondary present, formed in parallel to aś-nó-ti. For Plir. we can only reconstruct the perfect, which undoubtedly was the original formation. | Present V: āpnōti [3sg.act.] {1} (AV+) Perfect: āpa [3sg.act.] (RV+), āpiré [3pl.med.] (RV+), āpānā- [ptc.med.] (RV+) Passive: āpyāte (YVm+) Fut: āpsy° (Br.+) Caus: āpay° (Up.+) Desid: ṭps- (AV+) TA-Ptc.: āptā- 'reached, complete, known' (RV+) | | Give & Take | JPM IIAL |
| *h. ep-weh:- | mortal fear | | {1} Etymology given by Pokorny (Lith. opūs 'weak', etc.) is very uncertain. {2} Connection with apvā- remains uncertain (Hoffmann's etymology). | ap(u)vā- | | | IIAL |
| *h. eperos | boar | Lat aper OE efor Rus vepřī | | | | Fauna | JPM |

Sheet1

| | | | | | | | |
|--------------------------|------------------------------|--|--|---|---|----------|-----------------------|
| *h.epi *h.opi | near, on on, to | OIr iar 'after' Lat ob 'towards' Lith ap- 'about' OCS ob 'on' Grk epí'on, upon, on top of, ópisthen 'behind' Arm ev 'and, also' Av aipi 'upon' Skt ápi 'also, in addition' | {1} [AL] ŚB pi-dhāna- is a ghost word (pace EWAla): this form has been wrongly extracted from a compound dvār-apidhāna- 'closing of the door' (due to the fact that the usual form of the word for 'door' in Late Vedic is dvāra-). A similar origin must be assumed for pi-hita- and pi-hityai, attested in late texts. | | 'to close doors': Skt. dvār-apidhāna- — Gr. θύρας ἐπέθηκε 'to close, to cover': Skt. ápti-vṛta- (RV) — Lat. op-erire | Position | JPM IIAL Beekes |
| *h.epop | hoopoe | Lat upupa NE hoopoe Lith pupūtis Pol hupek Grk épops NPers pūpū | | | | Bird | JPM |
| *h.er- | arrive, get somewhere | | {1} [AL] For a discussion on the two roots ar- see Kümmel 2000a. {2} [AL] The attribution of the thematic aorist to ar [2] is due to Kümmel 2000a. {3} [AL] Synchronically, this causative belongs here, cf. Kümmel 2000a: 254. {4} [AL] For this form see Kümmel 2000a: 263f. | Present VI: rçchāti [3sg.act.] (RV+) Aorist A: ārat [3sg.aor.act.] (TS), (nir) ārata [2pl.aor.act.] (RV 01.004.05), ārāma [1pl.aor.inj.act.] {2} (RV) Caus: arpay° (RV+), TA-Ptc. (caus.): ārpita- (RV+), arpitá- (RV 01.164.48) {3} TA-Ptc.: ṛtá- (TS) | | | IIAL |
| *h.er- | earth | NE earth Grk érā 'earth' | West-Central | | | Earth | JPM |
| *h.er- | set in motion (horizontally) | Grk érkhomai 'set out come got' Skt rçchāti 'goes towards, reaches' Hit arta 'stands, is present, occurs' | | | | Movement | JPM |
| *h.ereg ^w -o- | pea | Lat ervum 'pea' OHG araweiz 'pea' Grk órobos 'pea' | Seen by many as a Near Eastern loanword. | | | Plants | JPM |
| *h.erh.- | quiet, at rest | NWels araf 'quiet, calm' Gothic rimis 'rest' Lith rĩmti 'to be calm' Grk erēmos 'lonely' Skt rámate 'stays still, calms down' | | | | Speech | JPM |

Sheet1

| | | | | | | | |
|-------------------------|-----------------------------|--|---|---|--|----------------------|---------------|
| *h. erh. i - | row | Olr rā īd 'rows' NE row *h. erh. i. tēr 'rower' Grk erētēs Skt aritār- | | | | Swim | JPM Beekes |
| *h. erh. i -ter- | rower | | {1} RV 02.042.01 09.095.02 aritéva návam 'like a ferry-man the ship'. The verbal root *ari- has probably disappeared because of the three homonymical roots ar-. | | | | IIAL |
| *h. erh. i. trom | oar, paddle | Lith iřklas Skt aritra- Lat rēmus 'oar' OE rōðor 'steering-oar' NE rudder | from *h. erh. i - 'row' | | | Transport | JPM |
| *h. erh. i. s- | be well disposed to someone | Grk éramai 'love' Toch AB yārs- 'be deferential, respectful' | | | | Values | JPM |
| *h. erh. i. - | wash | Hit ārr(a)- Toch A yār- | | | | Clean | JPM |
| *h. eri- | sheep/goat | Grk ériphos 'young of a goat' OPrus eristian 'lamb' Lith éras 'lamb' Arm oroj 'lamb' Lat ariēs Skt āreya- Toch B ariwe | | | | Fauna | JPM |
| *h. erk ^w - | praise ?sing | Hit arkuwai- 'explain, answer' Skt ārcati 'praises' | {1} [AL] The meaning 'to shine, be brilliant' is rare in Vedic (Gotō 1987: 97ff. and further Roesler 1997). | Present I: ārcati [3sg.act.] (RV+), abhí arce [1sg.med.] (RV 05.041.08, 06.022.01), abhy ārcase [1sg.med.] (RV 10.064.03) Perfect: ānrçúh [3pl.act.] (RV+), ānrçe [3sg.med.] (RV 01.160.04) Passive: rçyáte [3sg.] (RV+) Caus: arcayas [2sg.inj.act.] (RV 03.044.02) Inf: rçáse (RV) | | Formal Speech & Song | JPM IIAL |
| *h. erk ^w ós | song of praise | Olr erc 'heaven' Arm erg 'song' Oss aryaaw 'tale' Skt arká- 'song' Toch B yarke 'honour' | XXX Tucker | rç-am [acc.sg.], rç-ā [instr.sg.], rg-bhíř [instr.pl.] | | Formal Speech & Song | JPM IIAL |

Sheet1

| | | | | | | | |
|-----------|-------------|--|---|---|---|-----------------|-------------|
| *h.ermen- | sickness | OE earm 'weak, wretched' Alb jerm 'stupor' Arm olorm 'pity' Hit arman- □ ěrman- 'sickness' | | | | Health&Sickness | JPM |
| *h.ers- | flow | Hit arszī 'flows' Skt árṣati 'flows' Grk aperáo 'pour out' Lat errō 'go astray' OHG irran 'confused' Arm eřam 'seethe, be disquieted' | | | | Liquid Motions | JPM |
| *h.ers- | stream | | | Present I: árṣati [3sg.act.] (RV-YVm) | | | IIAL |
| *h.es- | be | Lat est NE is Grk estí Skt ásti | {1} 2sg.pres.act. *h. ési < *h. és-si, 3sg.pres.act. *h. és-ti, 3pl.pres.act. *h. s- énti, 3sg.opt.act. < *h. s-iéh -t. {2} Cf. further Schlerath II 150b, 153b, 158a, 160a. {3} abhiṣṭi- [m] 'helper' (RV+), abhiṣṭi- [f] 'help, assistance' (RV+) may derive both from abhi-as- 'to be superior' and from abhi- sthā- 'to overpower, defeat to rise over'. | Present II (act. all RV+): ásmi [1sg.], ási [2sg.], ásti [3sg.], sthāh [2du.], staḥ [3du.], smāh, smási [1pl.], sthā(na) [2pl.], sánti [3pl.], āḥ, āsīt [3sg.impf.], āsan [3pl.impf.] (< *Ha-Hs-), ásat(i) [3sg.subj.], syāt [3sg.opt.], edhi [2sg.impv.], ástu [3sg.impv.], sántu [3pl.impv.], sánt- [ptc.] (cf. also s.v.) Perfect: āsa [1/3sg.act.] (RV+) āsitha [2sg.act.] (RV+) | 'may we be those ...': Skt. té syāma (RV) — Av. tōi ... xiiāmā 'who are you? to whom do you belong?': Skt. ko 'si kasyāsi (Ep.) — OAv. ciš ahī kahiiā ahī {2} | Being & Doing | JPM IIAL |
| *h.es- | throw, hurl | Hit siyēzi 'throws, hurls' Av as- 'throw' Skt ásyati 'throws, hurls' | | | | Throw | JPM |

Sheet1

| | | | | | | | |
|--|---------------------------|--|--|--|--------|----------------------|---------------------|
| *h.ēs- *h.eh.s- | sit | Grk ēsthai 'sit' Hit ēsa 'sits', āszi 'stays, remains, is left' Av āste 'sits' Skt āste 'sits' | This appears to be an intensive of *h.ēs- 'be' (one might note that Spanish employs both the original verbs 'be' and 'sit' in its paradigm for 'be'). {1} [AL] This form is not well explained. {2} [AL] Most probably, based on reduplicated present. | Present II: āste [3sg.med.] (RV+) āsate [3pl.med.] (RV+) āsānā- [ptc.med.] (RV), āsīna- [ptc.med.] (RV+) {1} Aorist: āsišta [3sg.med.] (Br.+) Perfect: āsām cakre [3sg.med.] (Br.+) TA-Ptc.: āsitā- 'seated' (TS+) | | Placement Verbs | JPM IIAL |
| *h.es-en- | autumn | Goth asans 'summer, harvest time' OPrus assanis 'harvest' OCS jesenī 'autumn' Grk op-ōrē 'end of summer harvest time' (< *op-osar-ā) Hit zena(nt)- 'autumn' | It is the only season for which we do not find a reflex in Indo-Iranian | | | Time | JPM |
| *h.esh.éh□- *h.esh.ós | mistress master | Lat era Lat erus Hit ishā- 'master, lord, owner' | | | | Marriage Marriage | JPM JPM |
| *h.ésh.ṛ, *h.esh.ṛ(-g ^w -) *h.ēsh.ṛ-no- | (flowing) blood | Lat asser Grk éar Arm ariwn Hit ēshar Skt āsrk Toch B yasar | | nom.sg. āsrk (RV 01.164.04), gen.sg. asn-ās (AV+), ins | Organs | | JPM Celt. IAL |
| *h.esk ^w e(h.) | towards | | {1} [AL] It is unclear whether Lat. ūsque belongs here. For a discussion of the etymology see Lubotsky 2001a: 41f. | | | | IAL |
| *h.ét(e)no- | kernel | Mlr eitne 'kernel' [< *h.eteniyom Nlr eitne and dialectally eithne] Grk étnos 'thin soup made from peas or beans' | The semantic equation is excellent, but the usual Irisht- is phonologically irregular (expected isth-); | | | Plants | JPM |
| *h.eti | and / further, yet beyond | Gaulish eti 'also, further' Lat et 'and also' Goth ip 'but' Grk éti 'yet, further' Skt āti 'over, towards' | | | | Conjunctions | JPM IAL |
| *h.eu- | put on clothes, cover | Lat induō 'put on [clothes]', exuō 'take off [clothes]' Lith aūti 'put on shoes' OCS obujō 'put on shoes', izujō 'take off shoes' Arm aganim 'dress' Olr fūan 'tunic' Toch B ewe 'inner skin' | Beekes gives *h□ou- | | | Textiles | JPM Beekes |

Sheet1

| | | | | | | | |
|------------------------|----------------|---|-----------------------------------|--|--|----------------------|------|
| *h.eu(h□)- | empty, wanting | Grk eūnis 'deprived' Arm unayn 'empty' Lat vānus 'empty' NE wan, wane Av ūna- 'wanting' Skt ūná- 'lacking' | | | | Measure & Quantity | JPM |
| *h.eug ^{wh} - | speak solemnly | Grk eúkhomai 'pray [for], vaunt' Lyd ow- '+proclaim' Av aojaite 'says, pronounces' Skt ójate 'they praise' | present *h.éug ^{wh} etor | | | Formal Speech & Song | JPM |
| *h.euh□- | help, protect | | | Present I: ávati [3sg.act.] (RV+) Aorist S: ávit [3sg.act.] (RV+) avišas [2sg.aor.subj.act.] (RV+) avištu [3sg.impv.act.] (RV+) aviḍḍhí [2sg.impv.act.] (RV+) Perfect: āva [3sg.act.] (RV+) āvitha [2sg.act.] (RV+) TA-Ptc.: -ūta- (RV+) (yušmóta- [adj] 'supported by you' (RV) indrotá- [m] PN (='supported by Indra') (RV, Br.) possibly identical with the Hurrian name In-tar-ú-da, En-dar-ú-ta) | | | IIAL |
| *h.euh□-men- | help | | | | | | IIAL |
| *h.euh□-os- | help | | | | | | IIAL |

Sheet1

| | | | | | | | |
|----------|-------------------|--|---|---|--|---------------------|-------------|
| *h .euk- | become accustomed | OIr do-ucci 'understands' Goth bi-ūhts 'used to' Lith jūnkstu 'become accustomed to', OCS učiti 'teach', vyknoṭi 'become accustomed' Arm usanim 'learn, be used to' Skt úcyati 'is accustomed to' | {1} [AL] The Ir. roots *iauč- 'to learn, teach' and *mauč- 'id.', which are only attested from Middle Iranian onwards, are most probably due to a wrong analysis of prefixed formations in *abi-, *ni- and *ham-, respectively (Cheung 2007 s.v. with ref.). | Present IV: ucyasi [2sg.act.] (RV+) Perfect: uvóca [3sg.act.] (RV), ūcišé [2sg.med.] (RV 08.082.02), okivāms- (RV 06.059.03) for *okvāms- < IE *He-Huk-uōs-, ūc- úš- [ptc.act.] (RV) | | Social Organization | JPM IIAL |
| *h .eus- | burn, singe | Lat ūrō 'burn' ON ysja 'fire' Alb ethe 'fever' Grk heúō 'singe' Skt óṣati 'burns, singes' | {1} [AL] uṣṇāti is not attested in the AVP. At AVP 9.16.5 read aṣṇāti with the Orissa mss. | Present I: oṣati [3sg.act.] (RV+), óṣas [2sg.inj.act.] (RV) Present IX: uṣṇánt- [ptc.act.] (RV) {1} Aorist IS: oṣiṣtam [2du.inj.act.] (ŠB+) Perfect: uvoṣa [3sg.act.] (Br.) Passive: praty-uṣyamāṇa- [ptc.] 'being scorched' (PB) Caus: oṣaya [2sg.impv.act.] (AVP(O) 2.48.4) TA-Ptc.: 'uṣṭa- 'scorched' (Br.+) | | Fire | JPM IIAL |

Sheet1

| | | | | | | |
|-----------|-------|---|---|--|---|-------------|
| *h₁ger- | awake | Alb ngre 'awake, raise up, lift' Grk egrēgora 'was awake' Av jagāra 'was awake' Skt jāgārti 'is awake, awakes' ?Lat expergō 'I waken' (if from *ex-per-gr-) | | Present I: jārāse [2sg.med.] (RV) Present III (<Perfect): jāgrat- [ptc.act.] (RV X), jāgrati [3pl.act.] (AV), jāgārti [3sg.act.] (MS) Perfect: jāgāra [3sg.act.] 'he is awake' (RV+) jāgrvāms- [ptc.act.] (RV+) jāgrhī [2sg.impv.act.] (RV+) ājāgar [3sg.ppf.act.] (RV+) Caus: jārāy° (RV) (<< *gārāy°, cf. Av.) Aorist RED: ājīgar [3sg.act.] (RV) | waking Mitra': Skt. jāgrvāmsā ... mitrā Knowledge & Thought | JPM IIAL |
| *h₁i- | this | | {1} < nom.sg.f. *h₁ih₂, nom.acc.sg.n. *h₁id, acc.sg.m. *h₁im + the added llr. particle *-am. The acc.sg.m. form was the basis of the llr. pronominal stem *ima-. | iy-ām [nom.sg.f.], i-d-ām [nom.acc.sg.n.], i-m-ām [acc.sg.m.] {1} | | IIAL |
| *h₁i-deh□ | now | | | | | IIAL |
| *h₁idh□ | here | Olr -id- [infixd particle] Lat ibī 'there' Grk ithā-genēs 'here born' Skt ihā 'here' | | | Pronouns | JPM IIAL |
| *h₁ieh₂ | drive | | {1} [LK] ŷyate may represent either a -ya-present (class IV thus most scholars, in particular Insler) or a reduplicated present (*h₁i-h₁i₂-toi or *h₁i-h₁ih₂-toi, with the subsequent thematicization thus Eichner, Joachim) and belong to either yā [1] or ay [1] see Kulikov 2001: 261f. {2} Perhaps a laryngeal enlargement of *h₁ej- (Skt. ay [1]), i.e. *h₁i₂eh₂- | Present II: yāti [3sg.act.] (RV+) Present IV (?) {1}: ŷyate [3sg.med.] (RV+) Aorist S: ayāsam [1sg.act.] (RV+) Perfect: yayāu [3sg.act.] (RV+) TA-Ptc.: yātā- (RV+) Inf: yātave (RV+) | | IIAL |

Sheet1

| | | | | | | | |
|---|-------------------|---|---|--|--|-------------|---------------|
| *h ₁ ieh ₂ -went- | as much as | | | | 'as far as I/we can': Skt. yāvad íše (RV) — OAv. yauuat ₂ isāi (Y 28.4), yā.tā isāmaidē (Y 35.7) 'how much soever': Skt. yāvanta-kíyanta- ca (AV+) — YAv. yauuat ₂ cuuat ₂ ca (V 6.29), cuuat ₂ yauuat ₂ | | IIAL |
| *h ₁ io-tro | where | | | also yātrā | | | IIAL |
| *h ₁ ísus | arrow | Grk iós Av išu- Skt iṣu- | | | | Weapons | JPM Beekes |
| *h ₁ iteros | (an)other | Lat iterum 'again' Skt itara- 'the other, another' | Latin-Sanskrit isogloss | | | Pronouns | JPM |
| *h ₁ ith□ | thus | MWels yt- (verbal particle) Lat item 'also, likewise', ita 'so, thus, in this manner' Lith [dial.] it 'as' Skt iti 'thus, in this manner' | {1} [AL] Possibly, Iranian has adopted the onset of *uta. | | | Pronouns | JPM Beekes |
| *h ₁ le(n)g ^{wh} - | light (of weight) | Olr laigiu 'lighter, poorer' Lat levis 'light' NE light Lith leigvas 'light, easy, slight' OCS līgŭkŭ 'light' Alb lehtë 'light, soft, slight, nimble' Grk elakhós 'small, little' Oss roewoeg 'light' Toch B lankutse 'light' OHG lungar 'rapid' Grk elaphrós 'light, fast' Skt laghú- 'fleet, fast' | | | | Qualities | JPM |
| *h ₁ lei ġ | (make) shake | | {1} Only attested in the Yajurvedic mantra réḍ asi 'you are trembling', probably resulting from the reinterpretation of rejasi 'you tremble' (see Gotō 1987: 272). {2} The root is not directly related to *(H)leig- 'to spring'. {3} [AL] In Middle and Modern Iranian we further find the root *larz- 'to shake, tremble', which seems to reflect a reduplicated *ra-r(i)z-: Sogd. (Chr.) wlrz-, wdrz [verb] 'to tremble, shake' (+ *uj-) MP Ilc- /larz-/ [verb] 'to shake, tremble' Parth. Irz- [verb] 'to tremble' NP larzīdan [verb] 'to shake' Khwar. Bržyk 'shaking fever, ague' (+ *abi-) Pas. rāždād [verb] 'to shake, tremble' | Present I: réjate [3sg.med.] (RV+), réjati [3sg.act.] 'make tremble' (RV) Caus: rejáyati [3sg.act.] (RV) | earth quakes': Skt. rejata kṣāṇ 'earth quaked' (RV 04.022.04) – | IIAL | |
| *h ₁ leig- | jump | OE læcan 'leap, fly' NPers ālēxtan 'jump' Skt réjate 'tremble' Grk eelíizō 'whirl around' Lith láigyti 'run around wildly' | | | | Run & Jump | JPM |
| *h ₁ leng ^h - | blame, reproach | Grk elégkhō 'blame' Hit li(n)k- 'swear' | Where it is taken to indicate the practice of calling down a curse on oneself if one violated an oath | | | Law & Order | JPM |

Sheet1

| | | | | | | | |
|----------------------------------|-----------------|---|--|--|--|---------------------|-------------|
| *h. leud ^h - | go (out) | Aorist *h. leud ^h ét Olr lod 'went' Grk ê luthon 'went' and Toch AB lac- 'went out' | | | | Come & Go | JPM |
| *h. leud ^h - | grow | Olr lus 'plant' Lat Līber 'god of growth' OE lēodan 'spring up, grow' Av raodaiti 'grows' Skt ródhati 'grows' Lat līberī [pl.] 'children' Lat līber 'free' Grk eleútheros 'free' NHG Leute 'people' Lith liáudis 'common people' Rus ljúdi 'people, servants' | | | | Vital Functions | JPM |
| *h. leud ^h os | people, freeman | OE lēod 'people, nation' NHG Leute 'people' Lith liáudis 'people' OCS ljūdīje [pl.] 'people' Khowar loi 'people man, person' | it derives from the verbal root *h. leudh- 'grow, increase', which in other forms is found, for example, in Lat līberī 'children'. | | | Social Organization | JPM |
| *h. lng ^h -u- | fast, quick | | | raghvī- [adj f] (RV+) rághiyas- [comp] 'faster, very fast' (TS) (replacing *rámh°, cf. YAv. rəñjišta-) | | | IIAL |
| *h. nd ^h -wen- | road | | {1} [AL] NB: Pok.'s analysis is wrong. {2} Accent uncertain. Presumably, an original Instr.sq. of ádhvan-. | | | | IIAL |
| *h. nd ^h -wer- | road (?) | | {1} Probably, an original heteroclitic noun *Hadhuar- / Hadhuan- '(holy) road'. | | | | IIAL |
| *h. neun-dkomth, *h. neun-ti- | 90 ninety | | | | | | JPM IIAL |

Sheet1

| | | | | | | |
|---|-----------|---|---|---|----------------------|------------|
| *h₁newh₁m₁ ?*h₁néwh₁ŋ₁ | 9 nine | Olr nōī Lat novem NE nine Lith devynī OCS devětī Alb nëndë Grk ennéa Arm inn Av nava Skt náva Toch AB ñu | The evidence for *h₁(e)n- is limited to Greek and Armenian, but if the actual initial was *h₁n-, those would be the only two Indo-European branches to show any trace of the laryngeal anyway. Lat nōnus would be much simpler to explain if the Proto-Indo-European original ended in *-ŋ₁, whereas Olr nōmad, Skt navamá- are harder, and Toch B ñmuk '90' almost impossible, to explain unless we start from *-m₁. The evidence of Baltic and Germanic would seem to favour *-ŋ₁ except we know that all final m's became n in the histories of those branches, so they really give no evidence one way or another. Etymologically, the reconstructed form has been variously explained as derived from *néwos 'new' (see Section 18.6), hence the 'new number' (after 'eight'), or from *h₁énh₁u 'without'. The Wrst explanation has only the phonological similarity of 'nine' and 'new' going for it. If the latter, it would be another example of a subtractive formation where the number 'nine' would then be explained as 'ten without (= less) one'. Such an explanation is strengthened by undoubted examples in Indo-European of '. | navāñām [gen.pl.] 'nine' (RV I, X+) | Numbers | JPM IAL |
| *h₁newh₁m₁-mos *h₁newh₁ŋ₁-mos *h₁n(e)unh₁o- | 9th ninth | Olr nōmad Lat nōnus NE ninth Lith deviñtas OCS devětŭ Alb nëndë Grk éñatos Av naoma- Skt navamá- Toch B ñunte | {1} Changed from *HnauanHa- under the influence of other ordinals in -má-. | | Numbers | JPM |
| *h₁nómŋ₁ *h₁neh₁-men- | name | Olr ainm Lat nōmen NE name OPrus emens OCS imę Alb emër Grk ónoma Arm anum Hit lāman Av Skt nāma Toch B ñem | {1} [AL] Middle-Iranian suffix *ñmān (< Plr. acc.sg. *ñmān-am) in Sogd. and Parth. *ñmān, NP *ñmān, cf. also Sogd. t'nm'n, Parth. w'nm'n, NP bahmān 'so-and-so' can hardly be old. XXX Sims-Williams JRAS 1990. {2} [AL] Gr. (Dor.) ἐνυμᾶ- in a personal name 'Ενυμακραπίδας, attested on one inscription, must be secondary. | instr.sg. nāmñā / nā 'having many names': Skt. purú-nāman- [adj.] (RV) — Gr. πολυώνυμος [adj] 'dear name': Skt. priyá- nāman- (RV) — OE frēo nama 'surname, cognomen' 'famous name': Skt. śrútya- nāman- (RV) — Gr. ὄνομα κλυτόν — ToA ñom-klyu, ToB ñem-kālywe 'fame' 'to call the name': Skt. ahve ... nāma (RV 03.056.04) — YAv. nāma zbaiaieša (Yt 15.49) 'Asurian names': Skt. asuryāñi nāma (RV 10.054.04) — OAv. āhūiriia nāmāñī (Y 37.3) 'using a good name': Skt. su-nāman- [adj] (AV) — Elam.-Iran. *hu-nāman- [m] PN XXX (Hinz) | Formal Speech & Song | JPM IAL |

Sheet1

| | | | | | | | |
|-------------------------|--|---|---|--|--|----------------------|---------------|
| *h₁nóm̥n dʰeh₁- | name (to put a name) | OCzech dieti jmě Hit lāman dā- Skt nāma dhā- Grk onomatothētēs 'name-giver' | | | | Formal Speech & Song | JPM |
| *h₁ógʷh₁s | snake | NWels euod 'sheepworm' OHG egala 'leech' Grk ékhis 'viper', óphis 'snake' Arm iz 'snake, viper' Av aži- 'snake' Skt áhi- 'snake' Toch B auk | | | | Fauna | JPM IAL |
| *h₁oi-no-s | 1 one | Olř oīn 'only one, single' Lat ūnus 'one' NE one Lith vienas 'one' OCS ino- 'one-' [as a prefix], jed- in- 'one' Alb një 'one' Grk oīnē 'ace on a die' Grk oīos 'single, alone' < *h₁oi-wo- Av aēva- 'one' < *h₁oi-wo- Skt éka- 'one' < *h₁oi-ko- | The root etymology is generally presumed to be the anaphoric pronoun, i.e. *h₁ei-, cf. NE one in the sense 'One does what one's told'. Although there are a number of other theories, this etymology is one of the few thought up for any of the numbers that is at all likely to be correct. Because *h₁oinos (etc.) is etymologically transparent it is probably a relatively recent addition to the number system. The variation in suffixes (*-no-, *-wo-, *-ko-) in the various stocks also suggests the form of this number was still somewhat plastic at the time that Proto-Indo-European unity was dissolving. | | | Numbers | JPM Beekes |
| *h₁óistro/eh₁- | anger, any strong feeling | Lith aistrà 'passion' Grk oīstros 'gadfly, sting, anger' | West Central from *h₁eis- 'set in motion' | | | Values | JPM |
| *h₁óitos | a going; oath | Olř oeth 'oath' NE oath Grk oītos 'course, fate' Toch B aittanka 'directed towards' | It is commonly derived from the verb *h₁ei- 'go' which has been explained by a practice of walking between slaughtered animals as part of taking an oath | | | Law & Order | JPM |
| *h₁ónh₁es- | burden | Lat onus 'burden' Skt ánas- 'wagon-load' | | | | Exchange & Property | JPM |
| *h₁ónteros | other | NE other Lith aītras 'other, second' OCS vŭtorŭ 'second' | North-West | | | Measure & Quantity | JPM IAL |
| *h₁op- | desire | Lat optō 'wish' OCS za-(j)apŭ 'presumption, suspicion' Grk epiópsomai 'choose' | West Central perhaps from *h₁ep- 'grasp' | | | Desire | JPM |
| *h₁opi-bʰeh₁ *h₁opús | omen, inauspicious event (animal) fat | Lat ad-eps 'lard, suet' Hit apuzzi 'animal fat, tallow' Roshani aḏawoj (< *ad-op-eko-) 'piece of lard' Toch B op 'fatness' Arm atoc 'abundant, fertile' | | | | Meals | Celt. JPM |
| *h₁ordʰo- | separate | | {1} [AL] For the meaning see Lubotsky 1988: 71, fn. 21. {2}[AL] This Baltic root cannot be related with Skt. ard- because of its circumflex intonation. Connection of árdha- with Lat. orbis 'circle' < PIE *h₁or-dhh₁-ŕf- seems improbable to me. | | | | IAL |

Sheet1

| | | | | | | | |
|-----------------------------|---------------------|--|--|---|--|----------------------|----------|
| *h. orh □ deh □ - | heron | Lat ardea 'heron' ON arta 'teal' SC róda 'stork' Grk (e)rōdiós 'heron stork' | Some kind of waterbird | | | Bird | JPM |
| *h. órs(o)- | rear-end | NE arse/ass Grk órros 'rump' Arm of 'rump' Hit ārra- □ ārrī- □ arru- 'rump' | | | | Body (Lower) | JPM |
| *h. óuh □ d ^h r, | breast, udder | Lat ūber 'udder, teat, [lactating] breast' NE udder Lith pa-ūdre 'abdomen' Grk outhar 'udder' Skt ūdhar- 'udder' | {1} [AL] For Fi. udar (gen. utaren) 'udder', Mordvin odar 'id.', Mari wadar, wodar 'id.', being probably borrowed from Plir., see Katz 2003: 198f. | nom.acc.sg. ūdhar, gen.sg. ūdhnas, loc.sg. ūdhan(i), instr.pl. ūdhabhiḥ (RV+) also early secondary forms of stem ūdhas-: nom.acc.sg. ūdhaḥ, loc.pl. ūdhassu (RV+) | | Body (Upper) | JPM IIAL |
| *h. owes- | (inner) skin | Lat ōmentum 'fatty membrane or caul covering the intestines' Toch B ewe 'inner skin, hide' | Derived from verbs meaning 'to cover' | | | Body (Upper) | JPM |
| *h. reb ^h - | cover with a roof | Grk eréphō 'cover with a roof' and oróphē 'roof' Khufi rawū 'j 'plank' | An o-grade derivative in Germanic *h. robh-tro- gives us NE rafter (and by way of borrowing from ON we have NE reef | | | Construction | JPM |
| *h. reg ^w -es- | (place of) darkness | Goth riqis 'darkness' Toch B orkamo 'dark' Arm erek 'evening' Skt rájas- 'night' Grk érebos, the name of the underworld | | | | Light & Dark | JPM IIAL |
| *h. rei- | move | NE run OCS vy-rinoti 'thrust out' Skt rīṇvati 'lets flow' Grk orínō 'stir', erínúō 'be angry with', i.e. 'be stirred up' Toch AB rin- 'renounce' | | | | Movement | JPM |
| *h. reih □ - | move | Skt rin *h. rih □ tís Olr rīathor Skt rīti- 'stream, run' Lat rīvus 'brook' | | | | Liquid Motions | JPM |
| *h. reik- | tear (off) | NWels rhygo Grk ereikō OHG rīhan 'pull a thread' Lith riekū 'cut bread' Skt rikhāti 'scratch' | | | | Reductive Activities | JPM |
| *h. reip- | tear | Lat rīpa 'river bank' ON rīfa 'tear out' Grk erípnai [pl.] 'broken cliff' | West-Central an extended form of the unextended, and unattested, *h. rei- also seen in the more widely attested *h. reik- | | | Reductive Activities | JPM |

Sheet1

| | | | | | | | |
|----------------------|------------------|---|--------------|---|--|-------------|------|
| *h. rem | stop, come rest | | | Present I: rāmate [3sg.med.] 'to become appeased' (RV+), rama [3sg.impv.act.] 'appease, make quiet' (VS+) Present IX: āramṇāt [3sg.impf.act.] 'to quiet, to appease' (RV) Aorist S: āramsta [3sg.med.] (RV- AV) Aorist RED: ārīramat [3sg.act.] (RV, AVP) Perfect: reme [3sg.med.] (Br.+) Fut: rāmsya ° (Br.+) Caus: rāmāya ° 'to make stop' (RV+), rāmāya ° id. (RV+) Abs: ratvā (Br.) TA-Ptc.: ratā- 'pleased, delighted, devoted' (Br.+) | | | IIAL |
| *h. rep- | snatch, pluck | Lat rapō 'snatch away, carry off, plunder' Lith ap-re`pti 'seize, embrace' Alb rjep □ rrjep 'flay, rob' Grk eréptomai 'browse on, feed on' [< "pluck"] | West Central | | | Give & Take | JPM |
| *h. res- *h. ers- | liquid, moisture | Lat rōs 'dew' Lith rasà 'dew' OCS rosa 'dew' Av Raṇḥa, the name for the R. Volga Skt rāsa- 'liquid, moisture' Alb resh 'rains' | | | | Qualities | JPM |

Sheet1

| | | | | | | | |
|----------------|----------------------------|--|---|--|---|-----------------|-------------|
| *h₁reudʰ- | (bright) red | OIr rūad 'red' Lat rūfus 'red' NE red Lith raūdas Rus rúdyj 'blood-red, red-haired' Av raoidita- 'red' Skt rōhita- 'red', lohā- 'reddish' Lat ruber 'red' Grk eruthrós 'red' Skt rudhirā- 'red' Toch B ratre 'red' | | | | Color | JPM |
| *h₁reudʰ-it-o- | red | | {1} [AL] For the development -dh- > -h- in Skt. see Lubotsky 1995a. | rōhiṇī- [f] (RV+) | | | IIAL |
| *h₁reug- | belch ?vomit | Lat ērūgō OE rocettan Lith riāugmi Rus rygā tī Grk ereúgomai Arm orcam NPers ā-rōv [noun] | | | | Vital Functions | JPM IIAL |
| *h₁roudʰós | the red metal, i.e. copper | ON rauði 'red iron ore' OCS ruda 'ore metal' NPers rōd 'copper' Skt lohā- 'copper' | A banal derivative of *h₁reudʰ- 'red', i.e. the 'red metal' or 'copper', which probably represents independent developments in diVerent Indo-European groups {1} [AL] For the development -dh- > -h- in Skt. see Lubotsky 1995a. | ? | | Metals | JPM |
| *h₁rsn(-bʰo)- | bull | | | | | | IIAL |
| *h₁rudʰ-ro- | red | | {1} The -i- in rudhirā- is probably due to contamination of *rudhrā- with the compound form rudhi° (possibly attested in rudhikrā-). | | | | IIAL |
| *h₁s-ent- | existing, being | | {1} prt.pres.act. of the root *h₁s- 'to be'. | satī- [f] (RV+ in later Skt. also 'virtuous, faithful wife') sāt- [n] also 'being, reality' (RV+) | | | IIAL |
| *h₁snt-io- | existing, true, real | | {1} A derivative of sánt-, prt.pres.act. of the root *h₁s- 'to be'. For the semantics cf. Hitt. /asant-/ [adj] 'true, real', Gr. τὸν εὐντα λέγειν λόγον, τὰ ὄντα λέγειν 'to tell the truth'. | | true formula': Skt. satyó mántraḥ (RV 01.152.02) — OAv. haiθī | | IIAL |
| *h₁sónt- | real, true | Lat sōns 'guilty' OE sōðian 'bear witness, prove true' NE soothe and also NE soothsayer Hit asānt- 'being, existing' but also asān-at iyanun-at 'it (is) true, I did it' Skt satyá- 'true' | | | | Values | JPM |
| *h₁su | well | | | | notice well!': Skt. viddhí šú (RV 02.020.01) — Gr. (Aisch.) εὖ .. | | IIAL |

Sheet1

| | | | | | | | |
|---|---------------------------------|--|--|---|---|---------------------|---------------|
| *h.su-d ^h h ₁ -énos | rich, well-off lit. well-placed | Grk euthenēō 'thrive, flourish' Skt sudha 'na- 'rich' | West Central | | | Exchange & Property | JPM |
| *h.su-menes(-ye/o-) | be well disposed to | Grk eumenēō 'am gracious' Skt sumanasyāte 'is favourable' | i.e. 'good' + 'thought' + verbal suffix | | | Values | JPM Beekes |
| *h.ub ^h -sk- | bind | | {1} [AL] For the phonological details of this reconstruction see Lubotsky 2001a. | Present VI: ubjāh [2sg.inj.act.] (RV), ubjānt- [ptc.act.] (RV) Abs: ny-ubjya (JB 1.353) TA-Ptc.: sám- ubjita- (AV+) | | | IIAL |
| *h.ui- | in two, apart, asunder | | {1} [AL] The initial laryngeal follows from the constant long scansion of the augment in ávidhat (10 times in the RV) < *Ha-Hui-dhH-a-, the root vidh- being due to the univerbation of the preverb ví and dhā- (cf. Lubotskv 1994a and s.v. vidh) | | | | IIAL |
| *h.uid ^h -uh ₂ - | robbed, unmarried widow | | | | | | Beekes |
| *h.uog ^{wh} -et- | vow | | | vāghát [nom.sg.], vāgháte [dat.sg.], etc. | | | IIAL |
| *h.ure ġ -o- | fenced area | | {1} [AL] The meaning of vrājana- (RV 07.003.02), usually translated as 'road, way', is not quite clear. {2} From root *h. uerg- 'to encompass' with unexplained Schwebeablaut. | | | | IIAL |
| *h.urh□-os- | breadth | | | | | | IIAL |
| *h.urh□-u- | broad, wide | | | urvī- [f] várīyas- [comp] (RV+) várīṣtha- [sup] (RV+) | 'broad earth': Skt. kṣām ... urvīm (RV) — Gr. εὐρῆα χθών 'far-reaching fame': Skt. urugāyām ... śrávas (RV) — Gr. κλέος εὐρύ 'broad seat': Skt. urú ... sádas (RV) urvī sádanī (RV) — Gr. εὐρυεδής | | IIAL |
| *h.weh ₂ | be extinguished | | {1} [AL] Middle forms are late, cf. esp. apa-vāyate [3sg.med.] 'to become feverish' (GB). {2} For the Greek forms see Nussbaum, Two Studies in Greek and Homeric Linguistics, Göttingen 1998, 9-84, besonders 14-45 73-84. | Present IV: vāyati [3sg.act.] (RV+) {1} Aorist S: avāsīt [3sg.act.] (Br.) Caus: (nir)vāpay° 'to extinguish' (RV+) TA-Ptc.: ud-vāta- 'extinguished' (Br.) | | | IIAL |

Sheet1

| | | | | | | | |
|-----------------------|-------------------------------|---|---|--|---|-----------|------|
| *h, weld ^h | grow, increase | | <p>{1} [AL] This distribution is clear in the present, but pf. act. has both meanings, cf. Kümmel 2000: 469ff.</p> <p>{2} [AL] For the so-called vardh- [2] 'to cut' see Kulikov XXX, who shows that this root comes from vy-rđh-.</p> <p>{3} [AL] Schindler's idea (expressed in his teachings) that the llr. root Huardh- is related to PIE root *h₁ludh- seems attractive, although the metathesis of -lu- to -ul- is unparallelled. The usual direction is the opposite, but it concerns -ur- to -ru-, cf. *k^wetur(C)- > *k^wetru- in Av. caθru^o, Gall. petru^o (e.g. Petru-corii), Lat. quadru(r), MW pedry^o, Gr. τρυ-φόλεια '(helmet) with four φόλοι'</p> <p>*suekurh₂- 'mother-in-law' (cf. Skt. śváśura- 'father-in-law') > *suek^ruh₂- (Skt. śvaśrú-, OCS svekry, OHG swigar) (Lubotsky 1994b).</p> | <p>Present I: várdhanti [3pl.act.] (RV+), várdhate [3sg.med.] (RV+) Aorist R: várdhat [3sg.subj.act.] (RV), vrđhánt- [ptc.act.] (RV), vrđháná- [ptc.med.] (RV) Aorist A: avrđhat [3sg.act.] (RV[+]) Aorist IS: vardhiṣimáhi [1pl.opt.act.] (VS+) Perfect: vavárdha [3sg.act.] (RV+), vāvrdhúh [3pl.act.] (RV+) vāvrdhvāms- [ptc.act.] (RV+), vāvrdhé [3sg.med.] (RV+) Caus: vardháya^o 'to make grown, big' (RV+) Aorist RED: ávivrdhat [3sg.act.] (RV+), ávivrdhanta [3pl.med.] (RV+) TA-Ptc.: vrđdhá- (RV+) Inf: vrđhase (RV), vāvrdhádhyai (RV)</p> | <p>'to increase the dominion': Skt. vardháyanti ... kṣatrám (RV 01.054.08) — OAv. xšaθrām ... varədaitī (Y 28.3) 'to strengthen the judgment': Skt. várdhān naḥ śámsam 'he will strengthen our judgment' (RV 05.041.09) — OAv. vərəzdāiš sēnghāiš 'with strengthened judgments' (Y 46.3) 'to increase in power': Skt. vāvrdháná ójasā (RV 03.045.05) — OAv. aojanhā varədaiaiaētā (Y 50.3)</p> | | IIAL |
| *h, wer ġ-eno- | settlement | | | | | | IIAL |
| *h, werh□-es | width, breadth | | | | | | IIAL |
| *h, wers- | rain | Grk eérsē 'dew' Hit warsa- 'rainfall' | | | | Water | JPM |
| *h, wes- | moist, especially of the grou | Umb vestikatu 'offer a libation' OE wōs 'juice, broth' Latv vasa 'forest with wet ground and blue clay' | North-West | | | Qualities | JPM |

Sheet1

| | | | | | | | |
|---|----------------------------|--|--|--|--|---------------------|---------------|
| *h ₁ yenh□-ter- | husbands brothers wife | Lat ianitr̥cēs 'brothers' wives' Lith jēntē 'husband's brother's wife' OCS jetry 'husband's brother's wife' Grk enā tēr 'husband's brother's wife' Arm ner 'husband's brother's wife' Skt yātār- 'husband's brother's wife' | | | | Kinship | JPM IAL |
| *h ₁ (e)nh ₁ t- | door-post | | {1} [AL] Beekes (apud de Vaan 2003: 136) suggests a hysterodynamic paradigm nom.sg. *h ₁ énHt-h ₁ acc.sg. *h ₁ nHt-éh ₁ -m, gen.sg. *h ₁ nHt-h ₁ ós > Pllr. *ánti, *átām, *áthás. The Avestan form would be then a derivative *antiā. {2} [AL] Here also probably P 49 aḥāhuua loc.pl. 'house', cf. JamaspAsa - Humbach 1971: 72 and de Vaan 2003: 136 | | | | IAL |
| *h ₁ (e)po | from, as of | | | | | | Beekes |
| *h ₁ (e)r ġ -nt- | silver | | probably from *h ₁ er ġ - white {1} [AL] The Khotanese form and Yazdi áldī 'money' seem to point to full-grade *arz- (cf. Cheung 2002: 164). | | | | Beekes IAL |
| *h ₁ (e)us-r- | dawn | | {1} [AL] The starting point for the r-stem seems to be a locative in *-er | uṣar [voc.sg.], usrah̥ [gen.sg., acc.pl.], usrī [loc.sg.], usrām [loc.pl.] | | | IAL |
| *h ₁ /s(e)l ġ (^h)- | grain (or millet?) | Hit halki- 'barley grain' NPers arzan 'millet' Grk áliks 'spelt' [borrowed from some Anatolian language?] Toch B lyekšye 'barley' ?? | | | | Plants | JPM |
| *h ₁ /seh□- | trust in, believe | Lat ōmen 'sign, omen' Hit hā(i)- 'believe, take as truth' | | | | Knowledge & Thought | JPM |
| *h ₁ /séh ₁ os *h ₁ ih□s-eh ₁ - ?? | shaft (of a cart or wagon) | Rus vojē 'pole, or shaft' Hit hissa- 'pole, shaft, thill [for harnessing draft animal to a cart]' Av aeša- '[pole-]plough, pair of shafts' Skt tṣā- 'pole, shaft' Grk oiēion 'tiller, helm, rudderpost' | {1} Katz 2003: 252 considers PPerm.*điša 'shaft' (Komi vož, Udmurt waž), FP *äjšjá 'pole' (Mordvin *ažja (Erzya ažja, Moksha ažje) as LW from Proto-Indo-Iranian. | | | Transport | JPM IAL |
| *h ₁ /senċ- | bestow | Hitt henkzi 'bestows' Grk ógkos 'burden' Skt āmśa- 'portion, share' Alb jap 'give' Arm unim 'possess' Hit epzi 'takes' Av apayēiti 'obtains' Skt āpnōti 'obtains' Toch B yapoy 'land' [< **+ dominion'] | | | | Give & Take | JPM |

Sheet1

| | | | | | | |
|---|-------------------------------|--|--|--|---------------------|----------|
| *h ₂ /s eu- | weave | NE cognate weeds as in 'widow's weeds' Skt u- 'weave' Rus usló 'weaving' | {1} The Skt. root variant vā- is secondary, based on reinterpretation of the present vāyati (like dāyati from dā- 'to suck'). {2} [AL] The Sogdian verb prw'y- [verb] 'to envelop' ptw'y- [verb] 'to roll', cited by Mayrhofer, is rather derived from the verb *uiaH-, see vyā. {3} [AL] The colour of the laryngeal is not quite clear. | Present AYA: vāyati (< IE *h ₂ .u-éie-) [3sg.act.] (RV+) Perfect: ūvur [3pl.act.] (RV 001.061.08) Fut: vayiṣyánt- [ptc.act.] (RV based on the present stem) Passive: ūyate [3sg.] (YVp+) Inf: ótum (RV) ótave (RV 10.130.02) ótavái (RV 01.164.05) vātave (AV) TA-Ptc.: utá- (RV+) | Textiles | JPM IIAL |
| *h ₂ /s n̥sis | large (offensive) knife sword | Lat ēnsis 'sword' Av ahū- 'sword' Skt así- 'sword' | The presumption then is that the word may have originally indicated a 'dagger' or 'knife' (as it seems to do in the earlier Vedic literature) and that it developed the meaning 'sword' independently in each of the language groups in which it is found. Some support for this comes from the fact that there is also a Palaic cognate (hasīra-) which gives us our earliest citation of this word and here it means 'dagger'. | | Weapons | JPM |
| *h ₂ /s ónkos | what is bestowed | Grk ógkos 'burden' Arm hunjk' [pl.] 'harvest' Hit henkan- 'fate, death' Skt āmśa- 'portion, share' | Formed from the verb *h ₂ /s enk - 'bestow' | | Exchange & Property | JPM |
| *h ₂ /s orb ^h os | orphan, heir | Olr orb 'heir, inheritance' Lat orbus 'bereft, childless, orphan' OCS rabŭ 'servant' Arm orb 'orphan' Skt árbha- 'child' | Derives from a verbal form which was still preserved in Hit har(ap)p- 'change status'. {1} Hitt. ḫarp- 'to withdraw from' is probably unrelated. | | Marriage | JPM IIAL |
| *h ₂ /s osp- | aspen, poplar | NE aspen (Populus tremula, P. alba) Lith apušē 'ash (P. nigra)' Rus osína 'ash (P. tremula)' Arm op'í 'poplar (P. alba)' NPers fih 'oar', Skt sphýá- 'oar, pole, shovel' | Validity dependant on Indo-Iranian | | Trees | JPM |
| *h ₂ /s rgi- | wheel | Hit hurki- 'wheel' Toch A wärkánt 'wheel' | | | Transport | JPM |
| *h ₂ /s uh ₁ e/olo- | owl | NE owl NHG Eule 'owl' Hit huwalas 'owl' | | | Bird | JPM |

Sheet1

| | | | | | | | |
|--------------------------------------|------------------------------|--|--|--|--|----------------------|---------------|
| *h:/s up- *h:/s uk ^w - | cooking vessel | Lat aulla 'pot' OE ofen 'furnace' [> NE oven] OPrus wumpnis 'bake-oven' Grk ipnós 'oven' Hit hūppar(a)- 'bowl, pot' Skt ukhá- 'cooking-pot' | Suggests an association with cooking and so it may be presumed that this particular vessel was so employed (although in Hittite it may also indicate a 'unit of measure'). | | | Containers | JPM |
| *h:/s web ^h - | weave | NE weave Alb vej 'weave' Grk huphaínō 'weave' Hit huppai- 'entangle, ensnare' Skt ubhnāti 'ties together' Toch B wāp- 'weave' Skt ūrṇa-vābhi-, literally 'wool-weaver' | {1} [AL] The -f- in Iranian forms is not well explained, but has several parallels, cf. for instance s.v. nábhya-. | Present VII: sám unap [2sg.inj.act.] (RV 02.013.09), Present IX: ny- āubhnāt [3sg.impf.act.] (RV 04.019.04), ubhnās [2sg.inj.act.] (RV 01.063.04) Present VI<VII: āpombhata [2pl.impv.act.] (AVŚ 8.8.11+) TA-Ptc.: ubdhá- 'fettered' (RV+) | | Textiles | JPM IIAL |
| *h:/s wéd ^r | creatures, (wild) animals | Slov vedevec 'werewolf' | heteroclitc r/n possibly from *h:/3wed- 'to live' ?? | | | Fauna | JPM |
| *h:/s weg ^(h) - | pierce | Hit hwek- 'slaughter, butcher, slay' OPers vag- 'pierce' | | | | Reductive Activities | JPM |
| *h:/s werg ^h - | commit a crime | ON vargr 'felon, criminal wolf' OPrus wargs 'evil' Rus vórog 'enemy, devil' Hit hurkil 'sin, sexual perversion' Toch B wāršše 'highwayman, bandit' | | | | Law & Order | JPM |
| *h:/s wop- | treat badly | OIr fel 'bad' NE evil Anatolian huwappi □ huwapzi 'ill-treats, despoils' | | | | Values | JPM |
| *h.ed *h.ed- | to, by cereal crop, grass | Lat ador 'emmer wheat' Goth atisk 'grain Weld' Arm hat 'grain' Sog auk 'crop, cereals' Lyc xṓṓahe 'hay, fodder' Toch B atiyo 'grass' | | | | Plants | Beekes JPM |
| *h.ed ^(h) - | hawthorn | Old Irish *ad-, gen. aide Hittite hat(t)-alkisnas | | | | Trees | JPM Celt. |
| *h.e ġ- | land? | | root related to word *h:/e ġ ros | | | | Beekes |
| *h.e ġ- | lead (to) | | | | | | Beekes |

Sheet1

| | | | | | | | |
|---------------------------|-------------------|--|---|----------------|--|--------------|--------|
| *h : e ġ -ino- | (goat-)skin | | {1} Original 'goat skin' developed into 'skin' already in Pllr. times. {2} [AL] Long acute vowel in Slavic is due to Winter-Kortlandt's Law. For the semantic development 'goat skin' -> 'skin' cf. Russ. koža 'skin' < *koziā 'of a goat'. | | | | IIAL |
| *h : e ġ -men- | driving | | | | | | IIAL |
| *h : e ġ -o- | (billy-)goat | | {1} ajā- 'unborn' does not exist. {2} [AL] The relationship with Gr. αῖξ, αἰγ- 'goat', etc. can only be considered under assumption of a substratum loan word, cf. especially the typical vacillation a : ai in Germanic and Celtic substratum words, discussed in Schriever 1997: 303f. | | | | IIAL |
| *h : e ġ -ro- | pasturage | | {1} The meaning and, accordingly, the etymological attribution of this compound are very uncertain. {2} Different accentuation in ájra- and Gr. ἀνρός. | | | | IIAL |
| *h : e ġ ^h - | cow | | | vrkī-inflexion | | | IIAL |
| *h : eg ^h -lo- | distress | | {1} [AL] The accentuation is uncertain because the accents in the TĀ are often corrupt. | | | | IIAL |
| *h : eg ^h o- | evil | | | | | | IIAL |
| *h : e ġ ro- | acre | | | | | | Beekes |
| *h : e ġ ro- | hunt | Gr. ágrē 'hunt' Av. azrō- 'hunt' | | | | | Celt. |
| *h : eg ^w nos | lamb | | | | | | Beekes |
| *h : eh : (e) r- | ± kidney | Hittite hah(a)ri- 'some paired organ' Toch B arañce 'heart' Olr āru 'kidney, gland' Lat rēnēs [pl.] 'kidneys' Lat ārea 'threshing floor open field' Hit hahhar(a)- 'rake' | | | | Organs | JPM |
| *h : eh : er- | thresh, rake | | | | | Agriculture | JPM |
| *h : eh : -mo- | raw | | | | | | IIAL |
| *h : eh □ - | burn, be hot | Palaic hā- 'be hot' | | | | Fire | JPM |
| *h : eh □ -mer- | day | Grk ĕmērā Arm awr | West Central a derivative of *h : eh □ - 'burn' | | | Time | JPM |
| *h : eh □ -mer- | heat (of the day) | Grk hēmērā 'day' Arm awr 'day' | fr. *h : eh □ - | | | Fire | JPM |
| *h : éh □ -ōs | ash | 'fire', and | fr. *h : eh □ - | | | Fire | JPM |
| *h : eh □ -seh □ - | hearth | Lat āra Hit hāssa- | A derivative of the verbal root *h : eh □ - 'burn' (it also provides the base for NE ash) | | | Construction | JPM |
| *h : eh □ -tr, | fire | | fr. *h : ehx- 'burn, be hot' | | | Fire | JPM |
| *h : eh □ -tr-eh □ - | hearth | Lat ātrium 'hall or entrance way' Rus vatra 'hearth' | West Central | | | Construction | JPM |
| *h : ēh □ trō- | quick, fast | OHG ātar 'quick' Lith otrūs 'lively' | North-West | | | Time | JPM |
| *h : ei -os- | copper (?) | | {1} Possibly, derived from root *h : ei- 'to shine, to burn'. {2} [AL] Skjærvø 1997: 110 suggests to take OAv. aiiānhā as a verb form of ā-iiā- 'to beseech'. | | | | IIAL |

Sheet1

| | | | | | | | |
|------------------------|-----------------------|--|--|--|--|--|--------|
| *h: eid ^h - | burn | | | Present VII: indhé [3sg.med.] (RV+) indháte [3pl.med.] (RV+) probably here Present I édhate [3sg.med.] 'to thrive, fare well' (RV+) Aorist IS: áindhighvam [2pl.med.] (ŠB) indhištya [1sg.opt.med.] (TS 1.5.8.5) Perfect: ṭdhé [3sg.med.] (RV+) ṭdhiré [3pl.med.] (RV+) Fut: indhišy° (Sū.) TA-Ptc.: iddhá- (RV+) | | | IIAL |
| *h: ei ġ- | goat? | | highly problematic reconstruction | | | | Beekes |
| *h: eik- | own | | {1} [AL] The consistent short vowel in Avestan may indicate that, whereas in Skt. the long vowel of the perfect spread to the nominal derivatives, the opposite development occurred in Avestan (cf. also de Vaan 2002). | Present II: íše [1sg.med.] (RV+) íšte [3sg.med.] (RV+) | 'as far as I can': Skt. yāvad íše (RV 03.018.03) — OAv. yauuat_ isāi 'to possess ruling power': Skt. íše ... kṣatṛiyasya (RV 04.055.08) — YAv. isə.xšaθriiō.təma- [adj] 'possessing the greatest ruling power' | | IIAL |
| *h: éios | bronze, copper, metal | | | | | | Beekes |

Sheet1

| | | | | | | | |
|------------|--------------------------------------|---|---|--|-------|--|------|
| *h.eis- | seek, want | | {1} [AL] See Gotō 1993: 125f., Kümmel 2000: 127f. {2} [AL] See Kümmel 2000: 126ff. | Present SK: ichāti [3sg.act.] (RV+) ichánt- [ptc.pres.act.] (RV+) ichase [2sg.med.] (RV+) Aorist A: işema [1pl.opt.act.] (RV 08.044.27), âişanta [3pl.med.] (RV 01.126.05), işe [1sg.inj.med.] (RV) {1} Aorist IS: aişişma [1pl.act.] (KB), aişişur [3pl.act.] (ŞB) Perfect: İşur [3pl.act.] (RV 03.001.02 {2}, SV, Ep.+), iyeşa [3sg.act.] (Br.+) İşé [3sg.med.] (RV 10.098.03, Br.+), İşiré [3pl.med.] (AV, Br.+) Fut: eşisyati, -te [3sg.act., med.] (Br.) Passive: isyate [3sg.] (RV 09.069.01, AVP, Sü.) Inf: işáni (RV 02.020.02), işáti (RV) | | | IIAL |
| *h.eisd- | fear, honour | | | Present II: ĩde [1sg.med.] (RV+) ĩtte [3sg.med.] (RV+) ĩđāna- [ptc.med.] 'invoking, praising' (RV) TA-Ptc.: ĩđitá- (RV+) | | | IIAL |
| *h.ek-eni- | be sharp | | {1} A derivative of the PIE root *h₂ek- 'sharp, pointed'. | | | | IIAL |
| *h.ek-mon- | stone (meaning heaven controversial) | | | ášnas [gen.sg.] (RV+), ášnā [instr.sg.] (RV+) with cluster reduction | | | IIAL |
| *h.ēkr, | maple | Lat acer 'maple' OHG ahorn 'maple' Grk ákastos 'maple' Hit hiqqar '+maple' | | | Trees | | JPM |

Sheet1

| | | | | | | | |
|------------------------|--------------|--|--|--|--|--------|------|
| *h:el-eno- | other, alien | | {1} Opposite: nitya-. {2} Parallel to kṣétrāny āraṇāni 'other countries' (RV 06.061.14). {3} Opposed to Nitio-broges, cf. Skt. nitya-. | | | | IIAL |
| *h:élb ^h it | barley | Grk álphi 'barleymeal' Alb elb 'barley' | c.f. Hit seppit 'wheat' with the same suffix | | | Plants | JPM |
| *h:eld ^h - | succeed | | {1} [AL] With the secondary suffix accentuation (see Kulikov 1998). {2} The connection is not quite certain. | Present VII: rṇádhat [3sg.subj.act.] (RV 01.084.16), rṇdhánt- [ptc.act.] (RV) Present V: rḍhnoti [3sg.act.] (RV+) Present IV: sám- rḍhyatām [3sg.impv.med.] (RV 10.085.27 , AV+), rḍhyātai [3sg.subj.med.] (TS+), rḍhyāte {1} [3sg.med.] (TS, MS, ŚB) Aorist R: rḍhyāma [1pl.opt.act.] (RV), rḍhánt- [ptc.act.] (RV) Aorist IS: vyārdhiṣṭa [3sg.med.] (MSp) Aorist mediopass: ví ... ārdhi [3sg.] (YVp), sám ... ārdhi [3sg.] (ŚB) Perfect: sám- ānrḍhe [3sg.med.] (RV 10.079.07), ānardha [3sg.act.] (AV+) Caus: ardhāyati (AV+) | | | IIAL |

Sheet1

| | | | | | | | |
|-----------------------------|-------------------------------|---|--|--|--|---------------------|--------|
| *h:elg ^{wh} - | be of value | | | Present I: árhati [3sg.act.] (RV) árhant- [ptc.act.] (RV) Perfect: arhire [3pl.act.] (RV 10.092.11) Inf: arháse 'to be equalled, to correspond' (RV 10.077.01) | | | IIAL |
| *h:elg ^{wh} -o- | worth, price | | | | | | IIAL |
| *h:elg ^{wh} o/eh□- | payment, prize | Lith algà 'payment, salary' Grk alphê 'earnings' Hit halkuessar 'produce, supplies [for cultic use]' Av arəjah- 'value, price' Skt arghā- 'value, price' | | | | Exchange & Property | JPM |
| *h:elh□-eni- | rub, grind | | {1} Agent noun of type cakšāni- 'looking' < IE *h:elh□-eni-. | | | | IIAL |
| *h:elwos | elongated cavity, hollow | Lat alvus Grk aulós Lith aūlas 'leg of a boot' Rus úlica 'street' Lat alv(e)ārium 'beehive' | | | | Dwelling | JPM |
| *h:em- | hold on to, contain | Grk ámē 'water bucket, pail' Arm aman 'container' Khot handra- 'jar, pot' Skt ámatram 'large vessel' | These may be independently formed as well | | | Containers | JPM |
| *h:em-h□ēks-ih□ | wagon-chassis | Grk ámaksa '[framework or chassis of] a fourwheeled wagon' Toch A amākṣ-pānte 'wagon- master' | which has been explained as a compound of *h:em- 'hold on to' and *h□ēks- 'axle', i.e. the chassis of a wagon that holds the axle. | ? | | Transport | JPM |
| *h:em-ro-s | bitter, sour | Lat amārus 'bitter' OE ampre 'sorrel, dock' Skt amlā- 'bitter' Arm amok' 'sweet' Alb ëmbël 'sweet' | from a root *h:em- 'raw, bitter' | | | Sensation | JPM |
| *h:em ġ ^h - | tie, constrain | Lat angō'tie' 'throttle' OCS ožq 'constrain' Av aṣ- 'constrain' Hitt cognate hammenk- 'tie' or 'betroth' | | | | Binding | JPM |
| *h:en | along in an upwards direction | | | | | | Beekes |
| *h:en | interrogative particle | | | | | | Beekes |
| *h:en | there | | | | | | Beekes |
| *h:en- | draw (liquids) | Grk ántlon 'bilge-water' Arm hanem 'draw out, remove' Hit han- □ haniya- 'draw [liquids]' | | | | Food Prep | JPM |

Sheet1

| | | | | | | | |
|---------------------------|------------------------------|--|--|--|---|----------------|--------------|
| *h.en- | fathers mother | Grk annís OHG ana 'grandmother' OPrus ane 'female ancestor' OCS vŭnǫkŭ 'grandfather' Grk annís 'grandmother' Arm han 'grandmother' Hit hannas 'grandmother' OPers nyākā 'grandmother' | | | | Kinship | JPM |
| *h.end ^h -os- | sprout | | {1} Borrowed into PFU *ant3 > Komi od 'spring greens, germ, sprout'. | | | | IIAL |
| *h.énd ^h es- | ± flower | Fris ándul 'marsh-grass' Alb éndē 'flower' Grk ánthos 'flower' Arm and 'field' Skt ándhas- 'a herb the soma plant grassy ground' | | | | Plants (Wild) | JPM |
| *h.eng-ul- | joint? | | | | | | IIAL |
| *h.en ġ ^h -os- | narrowness | | {1} Also in RV 06.003.01, where a root-noun ámh- has sometimes been assumed. | | 'overcome trouble': Skt. ámhas- tari- (RV) — YAv. vītar-āzah- 'save from trouble': Skt. ámhas- trā- (RV) — YAv. āzahucit_ ... θrāiēnte | | IIAL |
| *h.enio- | other | | {1} Based on an adverb similar to anyátra. | | | | IIAL |
| *h.enk- | bend (v.) hook, barb (n.) | MPers ančītan 'bend' Hit hinkzi 'bows (reverentially), curtsies' Skt āñcati Olr ěcath OHG ango 'fishhook' OCS ǫkotī Grk ógkos 'barb' Av aka- Lat uncus | | | | Bend and Press | JPM |
| *h.enk-os- | curve | | | | | | IIAL |
| *h.enk-u- | turn, hook | | | | | | IIAL |
| *h.enr | manly strength | Lith. nóras 'will' Hitt. innarā 'forcefully' Olr ěis(s)e Grk (h)ēniā Myc. a-ni-ja Skt nāsyam 'nose cord [of a draft-ox, etc.] | | | | | Celt. |
| *h.ensiyo/eh□- | reins | | | | | Transport | JPM Celt. |
| *h.ent- | forehead | Olr ětan Lat ante 'in front of, before' Grk antí 'in front of, opposite' Hit, hant- 'face, forehead, front part' Skt ánti 'in front of, opposite', ánta- 'end, limit' Toch B ānte 'surface, forehead' | | | | Head | JPM |

Sheet1

| | | | | | | | |
|---|-------------------------------|---|---|--|--|---------------------|---------------------------------|
| *h:entb ^{hi} - | around, on both sides | Olr imm-imb- 'about, mutually' Lat ambi- 'on each side of, around, about' OHG umbi 'about' Alb mbi 'over' Grk amphí 'about, near' Arm amb-olj 'complete' Av aiwitō 'on both sides' Skt abhīta- 'on both sides' | | | | Position | JPM |
| *h:entb ^{hi} -i-k ^w olos *h:mb ^{hi} -i-k ^w ol(h□)-o- ?? | servant | Lat anculus 'servant' Grk amphipolos 'servant, priest' Skt abhicara- 'servant' | literally one who 'moves about on both sides' {1} Cf. for the meaning RV pári-car- 'to serve'. {2} With secondary č-. {3} Presumably, a vṛddhi-derivative in -i- from OP *abicara- 'servant'. | | | Social Organization | JPM IIAL |
| *h:entero- *h:enti | second in front against | Lat ante 'in front of' Lith aĩt 'on, upon at' Grk antí 'instead of, for' Arm ənd 'for' Hit anti 'facing, frontally opposite, against', hanza 'in front of' Skt ánti 'opposite' | A frozen case form of *h:ent 'face, forehead' (cf. Lith aĩtis 'breast(s)', Hit hant- 'forehead, front', Toch B änte 'brow'). {1} Acc.sg. of IE *h:ent- 'face'. | | | Position | Beekes JPM IIAL Beekes |
| *h:enti *h:ep- | over, against fasten, join | Lat aptus 'fitted to appropriate, fitting' [> by borrowing NE apt] Hit happ- 'join, attach' Toch A äpsä [pl.] 'limbs' ?Skt āpi- 'ally' | | | | Binding | Beekes JPM |
| *h:ep- | water (Animate) | Olr. ab 'river' | *p is sometimes voiced {1} Also RV apsu-jīt-, with loc.pl. apsu° introduced from compounds like RV apsu-kšīt-, apsu-śād- 'living in the waters'. In the later language cf. further AV apsu-yogá- m. 'water-connection' and MS+ apsavā- adj. 'located in the waters (of Varuna)'. | instr.sg. apă, gen.abl.sg. apás, nom.pl. ápas, acc.pl. apă | Water | | JPM IIAL |
| *h:epero- | later | | {1} Comparative to *h:epo. | | 'born later, younger': Skt. apara-já- (VS cf. also Singhalese varada 'younger brother') — YAv. apara-zāta- 'first ... second': Skt. pūrva- ... āpara- (RV) — YAv. paura- ... apara- | | IIAL |

Sheet1

| | | | | | | | |
|-----------------|------------------------|--|--|------------|--|--------------|---------------|
| *h.épes- | limb, part of the body | Hit hapessar 'limb, joint, part of the body' Oss æfcæg 'projecting part of the body, neck' Skt ápsas- 'protruding part of the body, breast, forehead, tusk' Toch A ápsā [pl.] 'limbs' | An admittedly banal derivative of *h.ɛp- 'to fit, fasten' | | | Body (Upper) | JPM |
| *h.ephɔn- | river | Hitt. hāpa- Lat. amnis , OHG -affa (in river-names) | | | | | Celt. |
| *h.epmh□o- | most distant | | {1} Superlative to ápa. {2} Connection with apamá- uncertain. | | | | IIAL |
| *h.epo | away | | | | | | IIAL |
| *h.epo-hɜkʷ- | turned backwards | | {1} Adj. in -aŋc-/ak- from ápa. {2} Russ. ópak(o) 'wrong, turned around' is most probably unrelated to ápak-. | ápācī- [f] | | | IIAL |
| *h.epōmnepōts | grandson of waters | Skt Apām Nápāt | | | | Dieties | JPM |
| *h.epotio- | coming behind | | | | | | IIAL |
| *h.eps-os- | breast | | | | | | IIAL |
| *h.er- | nut | Lith ruošutys 'nut' Rus orékh 'nut' Alb arrē 'walnut, nut tree' Grk árua 'nut' Hit harau- 'poplar' | | | | Trees | JPM |
| *h.er-o- | join, assemble | | | | | | IIAL |
| *h.erdi- | point, tip, spearpoint | Gr. árdis 'point (of spear)' | | | | | Celt. |
| *h.erdus | high, lofty | Olr ard 'high' Lat arduus 'steep, lofty difficult' ON qrðugr 'steep' Hit harduppi- 'high' | | | | Position | JPM |
| *h.er ġ -nɪ-om | white (metal), silver | Olr argat Lat argentum Arm arcat' Av ərəzatəm Toch B ŋkante | | | | Color Metals | JPM Beekes |
| *h.er ġ u-(no-) | light, white | | {1} Messap. argonan does not exist. | | | | IIAL |
| *h.erhɜ- | plow, to | | | | | | Beekes |
| *h.érhɜtrom | plough | Mlr arathar Lat arātrum ON arðr Lith árklas Grk árotron Arm arawr | | | | Tools | JPM Beekes |

Sheet1

| | | | | | | | |
|---------------|---------------------------|---|--|--|--|----------------------|-------|
| *h.érh, ye/o- | plough | <p> Mlr airid 'ploughs' Lat arō 'plough' Goth arjan 'plough' Lith ariū 'plough' OCS orjo 'plough' Grk arōō 'plough' ?Toch A āre if it means 'a plough' ?Hit hars- □ harsiya- 'till the earth' </p> | | | | Tools | JPM |
| *h. erh□- | destroy | <p> Lith irti 'dissolve, go asunder' OCS oriti 'destroy' Hit harra- 'destroy' </p> | | | | Conflict | JPM |
| *h. erk- | hold back | <p> Lat arceō 'shut in keep at a distance, prevent' Grk arkéō 'ward off, defend assist' Arm argelum 'hinder, restrain, hold back' Hit hark- 'hold, have' Toch B ārk- 'be obliged to' </p> | | | | Give & Take | JPM |
| *h. erk- | rend, destroy | <p> OIr oirgid 'slays' Arm harkanem 'split, fell' Hit harkzi 'is destroyed' </p> | | | | Conflict | JPM |
| *h. ers- | stab (?) | | <p> {1} [LK] See Gotō 1987: 105 contra Joachim 1978: 64f. {2} Connection with Lith. erškētis 'thorn, sloe' is less probable. </p> | <p> Present VI: ny- ršánti [3pl.act.] (RV 01.052.07) {1}, ud-ršánt- [ptc.act.] 'skewering onto' (RV 10.155.02), ršāti [3sg.act.] (AV+) TA-Ptc.: ny-īṣṭa- '(poured) full, stuffed' (RV) {1} </p> | | | IIAL |
| *h. eru- | pray, curse | <p> Grk aráomai 'pray, vow call down a curse' Luv hīrūt- 'curse' </p> | Greek-Luvian | | | Formal Speech & Song | JPM |
| *h. eryo- | free man? noble man? good | Skt. aryá- 'kind, favorable' | | | | | Celt. |
| *h. éryos | cavity | <p> Hit hariya- 'valley, dale' Arm ayr 'cave' Lith armuō 'abyss' </p> | | | | Dwelling | JPM |
| *h. es- | be/become dry | <p> Lat āreō 'be dry', āridus 'dry' Czech ozditi 'dry malt' Grk ázomai 'become dry' Toch AB ās- 'become dry' </p> | | | | Qualities | JPM |
| *h. eu | down | | <p> {1} The adjective is based on the adv. *avā > *arvā (Hoffmann 1956: 9f. = Hoffmann 1076: 390f.). </p> | | | | IIAL |
| *h. eu- | enjoy | | <p> {1} Connection with Lat. avēna 'oats', ORuss. овёс 'oats' is doubtful. </p> | | | | IIAL |

Sheet1

| | | | | | | | |
|-------------|----------------------|--|--|--|---|--------------|---------------|
| *h.eu- | see | | {1} [AL] The analysis of this form remains very uncertain. An interjection is a serious option. | | | | IIAL |
| *h.eu(h□)s- | draw water | Lat haurið 'draw water' ON ausa 'draw water' Pal hussiya- 'pour' grk aúō 'take fire to' | | | | Food Prep | JPM |
| *h.eug- | increase, multiply | | | | | | Beekes |
| *h.eug- | shine, become bright | Alb agon 'dawns' Grk augē 'beam of light' | Central (Albanian-Greek) | | | Light & Dark | JPM |
| *h.eug-men- | growth | | {1} This proto-form must have given **ogmán-. The -j- is taken from ójas-, ójyas-, etc-. [AL] These forms may also have influenced the meaning of the Skt. word. | | | | IIAL |
| *h.eug-os- | growth, power | | | | 'giving the most power': Skt. ojadātama- [adj] (RV) — YAv. aogaz-dastəma- 'the most powerful power': Skt. ójīṣṭham ójas (RV) — YAv. aojaṇha aojišta 'to slay with power': Skt. ghnantv ójasā (AV) — YAv. niyne ... aojaṇha 'dominion and power': Skt. kṣatrām ... ójas (RV) — OAv. aogō ... xšaθramcā, cf. also YAv. aogarə ... xšaθram (Yt 13.12) 'firm power': Skt. ójas ... dhruvām (RV) — YAv. druuahe ... aojaṇhō 'power of the arm': Skt. bāhv-ójas- [n] 'power of the arm', [adj] 'powerful in the arm, arm-strong' (RV) — YAv. bāzuš.aojah- [adj] 'powerful in the arm' | | IIAL |
| *h.éuh₂- | grandfather | Lat avunculus 'mother's brother' | North-West | | | Kinship | JPM |
| *h.euh₂ih□- | grandmother | Lat avia Alb joshë Grk aīa | West Central | | | Kinship | JPM |
| *h.euh₂os | grandfather | Lat avus Hit hūhhas ON afi Arm haw Toch B āwe 'uncle' | | | | Kinship | JPM Beekes |
| *h.ewer | down | | | | | | IIAL |

Sheet1

| | | | | | | |
|-----------------|----------------------------|--|--|---|--|------|
| *h:īdʰ-mo- | firewood | | {1} [AL] Iranian shows a suffix -sma-, which is also conceivable for Skt., although I know of no parallels. Since s disappears between two stops in this language, and m often behaves as a stop (cf. vocalization in initial *mnV-, for instance), we may assume that s also disappears in the cluster Csm. It is remarkable that the Hittite word for 'firewood', (GIS)uāršma-, also contains this suffix (or are these words compounds, cf. Hitt. šaminu-zi 'to burn (something)', šamešije/a-zi, šimišije/a-zi '(act.) to burn (something) for fumigation (midd.) to burn for fumigation (intr.)'?). | | to carry firewood': Skt. idhmám bhar- (RV), idhmá-bhṛti- [adj] 'b | IIAL |
| *h:ieus | (allotted) lifetime | | {1} Originally, a genitive of sphere from *Hāiu-, see āyu-. {2} [AL] Note 5x sám yóh + dhā- in the RV. The analysis of OAv. yaoš (Y 46.18) is disputed. Most probably, a form of the root dā- must be supplied there (thus Insler 1975: 87). | only in the formula sám yóh (RV+), sám ca yós ca (RV) '+_ happiness and longevity | | IIAL |
| *h:iu-h.n-ti- | young woman, youth | | | | | IIAL |
| *h:iu-h.on- | young | | {1} A derivative with the so-called Hoffmann's suffix from *h:oiu-, cf. s.v. āyu-. [AL] The reconstruction of the PIE paradigm nom.sg. *h:ieu-Hó(n), obl. *h:iu-Hn-, advocated by Hoffmann 1955: 40 (= Hoffmann 1976: 382) and Mayrhofer, seems unwarranted to me. Neither the -a- in NP and Armenian, nor the Celtic forms guarantee a full grade of the root. | yúvā [nom.sg.], yúvānam [acc.sg.], yúne [dat.sg.], yúnas [gen.sg.] (RV+) | | IIAL |
| *h:lei- | set in motion | Hit halā(i)- Lith lé'ju 'pour' OCS lějo 'pour' OHG līth 'fruit wine' OIr lie 'sea' Lat lītus 'beach' Grk áleison 'cup' | | | Movement | JPM |
| *h:mbʰi | around | | {1} Maybe, from *h:nt-bhi, instr. of *h:ent-'front'. {2} [AL] On the basis of these compounds, it is often assumed that Ilr. *Habhi partly continues PIE *Hebhi, related to OCS o(b)- (Pok. 287), which is rather doubtful. {3} Cf. the discussion in Narten 1986a: 272. | | 'as far as we are concerned': Skt. asmád abhí (RV) — OAv. ahmat_ ... aibī {3} 'to harness': Skt. abhi-dhā- (RV+), Skt. abhi-dhānti- 'halter' (AV+) — YAv. aiβidāiti- 'bridle', YAv. zaraniō.aiβidāna- 'with a golden halter', Sogd. βyď'n, βď"nh 'bridle' 'to study': Skt. abhi-as- (Mn.+) — YAv. aiβi-ah- Skt. abhyāsa- 'reading, study' (RPr., Mn+) — YAv. aiβišti- 'study, reading (aloud)' | IIAL |
| *h:mbʰi-h.p-o- | having water on both sides | | {1} Formed from *abhīpā- (cf. anūpā-, dvīpā-, pratīpā-) with the ablative suffix -tās. | | | IIAL |
| *h:mbʰi-h.kʷ-o- | nearness | | | | | IIAL |

Sheet1

| | | | | | | | |
|------------------------|-------------------------|--|---|--|--|-------------|----------------|
| *h:meh₁- | mow | NE mow Grk amáo Hit hamesha- 'spring, +early summer' < *h:meh₁-sh₂o- 'mowing [time]' | | | | Agriculture | JPM |
| *h:mel ġ - *h:merd- | milk, to bite, crush | | {1} The roots mard(i) and mrad have early become confused in Vedic, cf. Gotō 1987: 250. | Present IX: mr̥dnāti [3sg.act.] (ŚrSū.+) Passive: -mr̥dyéta [3sg.opt.] (MS 2.2.5:19.2), mr̥dyámāna- [ptc.] (ŚB+) Inf: sām-marditoḥ (TS) TA-Ptc.: mr̥ditá- 'smashed, crushed' (AV+) {1} | | | Beekes IIAL |
| *h:merg- | gather, harvest | Lat mergae 'reaping boards' Grk amérgō 'gather, harvest' Olr meithel 'reaping party' Lat metō 'mow, harvest' NE meadow | | | | Agriculture | JPM |
| *h:met- | mow | | North-West an enlargement of an unattested *h:em- | | | Agriculture | JPM |

Sheet1

| | | | | | | |
|-----------------------|----------------------------|---|---|--|---|------|
| *h:nek- | reach | | <p>{1} [LK] With the secondary root variants ás (based on the zero grade of naś) and namś (extracted from the perfect stem) see Kümmel 2000: 284ff.</p> <p>{2} With the secondary full grade in the root.</p> <p>{3} [AL] The forms ákṣiṣur [3pl.aor.act.] (RV 01.163.10) and ákṣat [3sg.aor.subj.] (RV 10.011.07) are likely to be nonce (Narten 1964: 160), cf. the RV conc. s.v. akṣ- [2].</p> <p>{4} Derived from three stem variants: ānámś- (< IE *h₁e-h₁no(n)k-/ānaś-, ānás-/ānás-, áś- see Kümmel 2000: 284ff.</p> <p>{5} [AL] Unclear is the status of the Vedic root nakṣ- 'to arrive at, reach' (Present I: náḁṣati [3sg.act.] (RV+), náḁṣate [3sg.med.] (RV+), náḁṣamāna- [part.med.] (RV+) Perfect: nanakṣúr [3pl.act.] (RV+), nanakṣé [3sg.med.] (RV+)), cf. Narten 1964: 160 for a discussion. Most probably, this root is based on the sigmatic aorist and is not an old present with the suffix *-se/o-. The YAv. forms nāśəmna- [part.pr.med.] and nāśāite [3sg.subj.med.] (Yt 19.12) do not prove an old thematic inflection (cf. also YAv. athematic nāśīma [1pl.aor.opt.act.] Y 70.4).</p> <p>{6} Some forms of the root *h₁nek- 'to carry' (</p> | <p>Present V: aśnóti [3sg.act.] (RV+)</p> <p>Present ĀYA: aśāyata [3sg.inj.med.] (RV), -aśāyah [2sg.inj.act.] (RV) naśāyathah [2] [2du.act.] (RV 10.040.06)</p> <p>Aorist R: ānaṭ (< IE *h₁e-h₁nek-t) [3sg.act.] (RV+), naṭ [3sg.inj.act.] (RV 07.104.23), prá nak [3sg.inj.act.] (RV), náṣat [3sg.subj.act.] (RV), aśyām [1sg.opt.act.] (RV+), áṣṭa [3sg.med.] (RV), áṣata [3pl.med.] (RV), náṣate [3sg.subj.med.] (RV), aśīmāhi, naśīmahi [1pl.opt.med.] (RV)</p> <p>Aorist S: áḁṣata [3pl.med.] (TB 1.3.10.3), áḁṣi [1sg.med.] (TĀ 2.3.1)</p> <p>{3} Perfect {4}: </p> | | IIAL |
| *h:neptih-o- | belonging to the offspring | | {1} Originally, *naptiya-, adapted to náptar- | only in compounds | | IIAL |
| *h:nob ^h - | navel nave | NE nave OPrus nabis 'nave, navel' Skt nábhya- 'nave' OE nafo-gar 'auger' < *naba-gaizaz PGmc 'nave-piercer' | With the indefinite article, i.e. *a nauger, this was falsely analysed as *an auger and hence NE auger. | | Transport | JPM |
| *h:óép(e)n- | goods, wealth | Lat opulentus 'rich, wealthy opulent' Ops 'deity of abundance' Grk áphenos 'wealth' Hit happina(nt)- 'rich' Av afnah-vant- 'wealthy' Skt ápnas- 'wealth' | | | Exchange & Property | JPM |
| *h:óġ-i- | competition | | | | | IIAL |
| *h:óġmo- | driving, path, furrow | | | | | IIAL |
| *h:oiu- | (allotted) lifetime | | | | life(time) disappears, expires': Skt. kṣitāyu- (RV) [adj] 'whose life | IIAL |

Sheet1

| | | | | | | | |
|---------------------|----------------------|---|---|--|--|-----------|-------------|
| *h.ók-ri- | sharp edge | | | | | | IIAL |
| *h.ol-o- | other, alien | | | | | | IIAL |
| *h.omós | raw, uncooked | Olr om Grk òmós Arm hum NPers xām Skt āmá- | | | | Food Prep | JPM |
| *h.ongo- | member | | {1} [AL] It is hardly plausible to dissociate ānga- from aṅgúri-, aṅguṣṭhá- and from the Germanic forms. | | | | IIAL |
| *h.onk-o- | part | | {1} Pllr. *ončo- (possibly, before the change PIE *o > llr. *a) is borrowed into Finno-Ugric, cf. Fi. osa 'part, share, luck'. {2} Not necessarily an IE formation. Possibly a derivative of *h.nek- 'to carry' or *h.nek- 'to reach'. The Schwebeablaut would, however, be remarkable. from *h.enk- 'bend' | | | | IIAL |
| *h.ónkos | something bent, hook | Olr ěcath 'fishhook' Lat uncus 'hook, barb' OHG ango 'Fishhook' Lith ánka 'knot' OCS ꙗkotī 'hook' Grk ógkos 'barb [of an arrow]' Av aka- 'hook' Skt anká- 'curve hook' | | | | Tools | JPM IIAL |
| *h.or-o- | fitting | | {1} Used predicatively with as- [1], bhavi-, kar-. Presumably, an old acc.sg. of adj. *ára- 'fitting'. The analysis of eváre (RV 08.045.38) is unclear. | | | | IIAL |
| *h.ósdos | branch | OHG ast 'branch' Grk ózos 'shoot' Arm ost 'branch' Hit hasduēr 'twigs, branches' | *h.o-sd-os 'what one sits upon', the branch from the bir'ds perspective, so to speak. | | | Trees | JPM |
| *h.óst *h.esth□- | bone | Lat os Alb asht Grk ostéon Arm oskr Hit hastāi- Av asti- Skt ásthi Toch B āsta [pl.] Olr esna □ asna 'ribs' | | nom.acc.sg. ásthi (RV+ later -i- also in nom.acc.pl. ástihīni AV, dat.pl. asthībhyas AV), elsewhere asthán- /asthn-: instr.pl. asthábhiṣ (RV+), gen.sg. asthnás (AV+), gen.pl. asnám < *asthnám (MS) | | Organs | JPM IIAL |
| *h.owikéh□- | ewe | NWels ewig 'hind' OCS ovici 'ewe' Skt avikā- 'ewe' | | | | Fauna | JPM |

Sheet1

| | | | | | | | |
|--------------------|--------|---|--|-----------------|---|-------|-------------|
| *h:ówis *h:eui- | sheep | Olr oī 'sheep' Lat ovis 'sheep' NE ewe Lith avis 'sheep' OCS ovīnŭ 'sheep' Grk óis 'sheep' Arm hōiw 'shepherd' Luv hāwa/i- 'sheep' Skt ávi- 'sheep' TochB āu 'ewe' | {1} [AL] See for these forms Schmitt 1997. {2} [AL] Not by haplology from ávyaya- (Schmitt 1997: 285, pace EWAia). {3} [AL] The reconstruction with *h: seems necessary in order to account for the Anatolian and Arm. h- and for pervasive o-vocalism, in spite of the Tocharian form, which then remains unexplained. The only alternative would be to reconstruct a static paradigm *h:oui- / *h:eui- and assume that the attested forms have the o-vocalism of the former variant, and the h- of the latter, which is hardly credible. | ávyas [gen.sg.] | | Fauna | JPM IIAL |
| *h:r-tó- | fitted | | | | 'residence of Truth': Skt. ṛtāsya dhāman- (RV) ṛtā-dhāman- [adj] 'who has Truth as residence' (KS+) Ar-ta-ta-a-ma PN (Mitanni-IA) — OAv. ašā ... dāmam (Y 48.7) 'reverence - Truth': Skt. ṛtām ... nāmasā (RV) — OAv. nəmarhā ašāi-cā (Y 34.3), aša-nəmah- PN 'master (?) of Truth': Skt. vedhā ṛtāsya (RV 10.086.10) — YAv. ašauuazdah- PN, 'Αρτάβασδος PN (Iranian), Arm. Artavazd PN (< Iran.) 'to serve Truth': Skt. ṛtām sapāmi (RV 05.012.02) ṛtasāp- [adj] 'serving Truth' (RV) — OAv. ašəm ... haptī (Y 31.22) 'yoked with Truth': Skt. ṛtā-yukti- [f] 'connection with Truth' (RV 10.061.10) — OAv. ašā yuxtā (Y 49.9) 'source of Truth': Skt. khām ṛtāsya (RV 02.028.05) — YAv. ašahe xā | | IIAL |

Sheet1

| | | | | | | | |
|--------------------------|------------------------|--|--|---|---|-------|---------------|
| *h:reh,d ^h | be successful, succeed | | {1} [AL] ORuss. raditi [verb] 'to care for', OCS ne-raditi [verb] 'to neglect, to be carefree' are most probably of Iranian origin, based on Slav. *radi [postposition] borrowed from Ir. *rādī. | Present IV: rādhyatām [3sg.impv.med.] (AV+) Present V: rādhnóti [3sg.act.] (YV+) Aorist R: rādhat(i) [3sg.subj.act.] (RV) Aorist S: arātsīs [2sg.act.] (AV+) Aorist IS: rādhiṣi [1sg.inj.med.] (AV+), rādhiṣīya [1sg.opt.med.] (AVP) Perfect: rarādha [3sg.act.] (RV 10.107.06 +) Fut: rātsy ^o (AV+) Caus: rādhay ^a 'to make succeed' (AV+) TA-Ptc.: rāddhá- 'brought about, accomplished' (AV, Br.+) | | | IIAL |
| *h:res- | be unfaithful, decline | | | | | | IIAL |
| *h:reu-i- | sun | | | | | | IIAL |
| *h:r ḡ-i-kuon- | with fast dogs | | | | | | IIAL |
| *h:r ḡ-i-pt-ió- | eagle | | | | | | IIAL |
| *h:r ḡ-ró- | shining (white), quick | | | | (with) fast horses': Skt. rjrá- áśva-, rjráśva- [m] PN (RV) — YAv | | IIAL |
| *h:r ḡ(u) | white | Hit harkis 'white' Grk árguros 'silver' Skt áriṇa- 'light, white' Toch B ārkwi 'white' *h:r ḡ-es- Grk argēs 'white' | | | | Color | JPM Beekes |
| *h:rh ₁ -wer- | arable land | | {1} [AL] For the reflexes of this sequence in Indo-Iranian see Lubotsky 1997b. | | 'waters and arable lands/plants': Skt. apās ... urvárās (AV 10.10.8a) — OAv. apō uruuarāšcā (Y 44.4) YAv. apascā uruuarāšcā (Y 51.7) | | IIAL |
| *h:rh□-mo- | shoulder, arm | | | | | | IIAL |

Sheet1

| | | | | | | | |
|-----------|---------|---|---|--|---|-------|-------------|
| *h:řtkos | bear | Olr art Lat ursus Alb ari Grk árktos Arm ar Av arəša- Skt řkša- Hit hart(ag)ga- 'a cultic official, bear-man' | Explained as a nominalized 'destroyer' | | | Fauna | JPM IIAL |
| *h:stér | star | Mlr ser 'star' Lat stēlla 'star' NE star Grk astér 'star' Arm astl 'star' Hit hasterza 'star' Skt tāras 'stars' | possibly from *h:ehx-s- 'burn' (i.e. PIE *h:₂(h□)-s-tér- 'ember' {1} = *h:s-tér- 'glower, shiner' | tārah [nom.pl.], str̥to adorn with stars': Skt. str̥bhiḥ ... p | Air | | JPM IIAL |
| *h:sus | be dry | | {1} Assimilation from *soš. {2} [AL] For the reconstruction see Lubotsky 1985. | Present IV: śúśyati [3sg.act.] (AV+) Caus: śośáya ° (AV+) | | | IIAL |
| *h:teug- | terrify | | {1} [LK] See Kümmel 2000: 221f. {2} [LK] See Kulikov 2001: 81f. Here may also belong tujete [3du.pres.med.] (RV 01.061.14), if from *tujyete. {3} [AL] The connection with MP han-dōxtan [verb] 'to heap on, obtain' han-dōxtan [verb] 'id.', NP andōxtan [verb] 'to gather, obtain' seems doubtful because of deviant semantics (see Cheung 2007). {4} [AL] The Ilr. root is often connected to Germ. forms with s-mobile (MLG, MDu. stoken [verb] 'to poke, stoke', MoHG stochen [verb] 'id.' < PGm. *stukōjan-, Nw. stauke [verb] 'to mash' < PGm. *staukōjan- ?), assuming an original meaning 'to thrust' vel sim., but this seems less attractive. In Skt., the meaning developed from 'frighten' to 'drive away' > 'push forward, set in motion' (cf. the pass. tujyáte 'be put to panic'). | Present VII>VI: tuñjánti [3pl.act.] (RV) Present VI: tujánt- [ptc.act.] (RV) Perfect: tutujyāt [3sg.opt.act.] 'to stimulate' (RV 01.143.06) tūtujāna-, tūtujāná- [ptc.med.] 'hurried, eager' (RV) {1} Passive: tujyáte [3sg.] 'to be put to panic (flight)' (RV) {2} Present AYA: tujáyant- [ptc.act.] 'to press forward' (RV 07.104.07) Inf: tujáse (RV) | | | IIAL |
| *h:ug-ro- | mighty | | | óṛiyas- [comp] 'stronger' (RV+) óṛiṣṭha- [sup] 'strongest' (RV+) | 'the mightiest of the mighty ones': Skt. ugrāṇām ... óṛiṣṭha- (RV) — YAv. uvrāṇam aoiṣṭa- 'with mighty arms': Skt. ugrá-bāhu- [adj] (RV, AV) — YAv. uvrá.bāzu- [adj]. Scyth. Ουγρ-βαζος [m] PN | | IIAL |

Sheet1

| | | | | | | | |
|--|-------------------------|---|---|---|--|----------|-------|
| *h ₁ uh ₁ -d ^h r- | cold | | {1} omán-, óman- [n] 'cold' (RV) is very uncertain, see s.v. omán-. | údhani [loc.sg.] (RV 05.034.03), possibly also údhar [loc.sg.] (RV 08.002.12, 10.006.01) | | | IIAL |
| *h ₁ uh ₁ -el- | wind, breeze | Gr. áella 'stormwind' | | | | | Celt. |
| *h ₁ we-h ₁ ur-i- | covering | | {1} [AL] The loss of the internal laryngeal is regular in this position in Indo-Iranian, cf. Lubotsky 1995. {2} [AL] The meaning 'lurking place', given by Mayrhofer (after the earlier dictionaries), is dispensable, see Geldner's translations. {3} [AL] It is unclear whether vavrā- [m] 'hole, pit' (RV) or the hapax of uncertain meaning vavráyāmahe (RV 08.040.02) belong here. Cf. also ūrvā- [m] 'container, prison' bíla- [n] 'hole, pit bowl' (RV+) of similar semantics. | | | | IIAL |
| *h ₁ wed(h ₁)- | lead in marriage, marry | NE wed Skt vadhū- NWels dyweddīo 'marry' NE wed OPrus weddē 'marry' Lith vedū 'lead, marry [of a man]' Av vaū- 'bride' Skt vadhū 'bride' | It is a special use of the verb 'lead', indicating that the male led away the woman in the early Indo-European system of marriage, a system whose vocabulary might be later recreated, e.g. Lat uxōrem dūcere 'to lead away a wife', i.e. 'marry' | | | Marriage | JPM |
| *h ₁ wed ^h | talk, speak | | {1} [AL] The connection of the Hittite words is uncertain. | Present I: vādati [3sg.act.] (RV+), vade [1sg.med.] (RV+) Aorist S: avādiṣur [3pl.act.] (RV+) Perfect: ūdima [1pl.act.] (RV 01.161.01), ūde [1sg.med.] (Br.+) Passive: udyāte [3sg.] (RV 05055.08+), vādyāte (to the caus. stem) (KS, ŠB+) Fut: vadiṣyá° (AV+) Caus: vāday° (Br.+) Intensive: vāvadīti [3sg.act.] (RV+) TA-Ptc.: uditā- 'spoken', [n] 'speech' (RV+) | | | IIAL |

Sheet1

| | | | | | | | |
|-----------------|---------------------------|--|---|---|--|---------|-------------|
| *h₁wedʰh₁- | strike, push | | {1} With secondary thematic optative forms since the AV (AVS 10.5.15-20 vadheyam, AVP 2.70.1 vadhet, 10.4.2 vadheyuh). {2} [AL] This root forms one suppletive paradigm with han. {3} [AL] For the etymology see Kloekhorst 2008: 349f. An additional argument for the initial laryngeal is the long scansion of the augment of ávadhīṭ in RV 1.80.11d vṛtrám marútvām ávadhīr and 8.12.26b sávasā vajrinn ávadhīṭ. | Aorist R (>IS): ávadhīt [3sg.act.] (RV+), vadhyāt [3sg.opt.act.] (TS+) {1}, vadhīṣṭhās [2sg.inj.med.] (RV-Kh) {2} | | | IIAL |
| *h₁weh₁- | blow | OE wāwan blow' OCS věžjati 'blow' Grk áēsi 'blows' Av vāiti 'blows' Skt vā ti 'blows' *h₁weh₁-ntos 'wind' NWels gwynt Lat ventus NE wind Hit huwant- Skt vāta- Toch B yente | {1} [AL] In late Vedic (Br.+), we find vāyati 'blows, smells', probably due to contamination with vā [2] (Kulikov 2001: 459f.). | Present II: vāti [3sg.act.] (RV+) {1} Aorist S: avāsīt [3sg.act.] (Br.) Perfect: vavau [3sg.act.] (Br.+) TA-Ptc.: vāta- (Sū.), úpa-vāta- (Br.) | | Blow Up | JPM IIAL |
| *h₁weh₁-iu- | wind, air, god of wind | | {1} [AL] With Iranian shortening from *uāju-. | | | | IIAL |
| *h₁weh₁-nt(-o-) | wind | NWels gwynt Lat ventus NE wind Av vāta- Skt vāta- Toch B yente Hit huwant- | from the verb 'to blow'. | Several times trisyllabic /va?ata-/ in the RV | | Air | JPM IIAL |
| *h₁weh₁-yús | wind | Lith véjas 'wind' Skt vāyú- wind' | | | | Air | JPM |
| *h₁wenisth□u- | stomach of a ruminant (?) | | {1} [AL] The discrepancy in the vocalism can be resolved if we assume *h₁uen- > Gr. *αFev- > *āv- > řjv-. The second part of the Greek word may be influenced by ὠστέρα, lon. -on lf.1 'womb'. | vaniṣṭu- | | | IIAL |

Sheet1

| | | | | | | |
|------------|-----------------------------|--|--|---|--|------|
| *h:wep(h)- | scatter become scattered | | <p>{1} Most probably, the two roots vap- are etymologically identical.</p> <p>{2} [AL] Less certain is the appurtenance of Ved. vapā- [f] 'omentum' (RV-Kh+ already in the RV vapāvant- 'containing vapā-' and vapódara-, an epithet of Indra)</p> <p>vaprā- [f] 'fireplace' (Sū.), vāpra- [m] 'rampart' (Ep.) and the Iranian words for 'snow': YAv. vafra- [m], Khot. borā-, MP wafr , NP barf .</p> | <p>Present I: vápati [3sg.act.] (RV+), vapate [3sg.med.] (RV+)</p> <p>Aorist S: vāpsur [3pl.inj.act.] (ĀpDhS)</p> <p>Aorist SIS: avāpsīt [3sg.act.] (Br.)</p> <p>Aorist mediopass: vāpi [3sg.inj.] (Br.)</p> <p>Perfect: ūpāthuh [2du.act.] (RV+)</p> <p>ūpe [3sg.med.] (RV)</p> <p>Passive: upyāte (RV+) [3sg.]</p> <p>Caus: vāpayati [3sg.act.] (YVp)</p> <p>Fut: vapsy° (Br.+)</p> <p>TA-Ptc.: uptā- 'strewn out, thrown' (RV ny-upta- +)</p> <p>Abs: abhy-úpyā (RV 02.015.09)</p> | | IIAL |
|------------|-----------------------------|--|--|---|--|------|

Sheet1

| | | | | | | |
|-------------|---------|--|--|--|--|------|
| *h:wer | cover | | <p>{1} [AL] For the initial laryngeal, the distribution of the present forms and the etymology of the root see Lubotsky 2000.</p> <p>{2} [AL] For forms with the stem varū- see s.v. varūtār-.</p> <p>{3} [AL] It seems very improbable to me that the family of varatrā- [f] 'yoke-)strap' (RV), vārdhrī- [f] 'leather band' (Br.+), vārdhra- [m] 'belt, girdle, leather band' (AV+) belongs to this root.</p> <p>{4} [AL] Unfortunately, the meaning and interpretation of the OAv. forms vaurāite [3sg.subj.med.] (Y 47.6), vauraiiā [1sg.opt.med.] (Y 31.3), vaurōimaidī [1pl.opt.med.] (Y 28.5) are uncertain (cf. for a discussion Kellens 1984: 195f.), but their long reduplication seems to point to an initial laryngeal in the root.</p> | <p>Present V: vr̥ṇóti [3sg.act.] (RV), vr̥ṇvé [1sg.med.] (RV)</p> <p>ūṛṇuté [3sg.med.] (RV+) {1}</p> <p>Aorist R: ávar [2,3sg.act.] with long augment (RV+)</p> <p>varat [3sg.subj.act.] (RV)</p> <p>avṛta [3sg.med] (RV)</p> <p>Aorist S: varṣathaḥ [2du.subj.act.] (RV nonce)</p> <p>Aorist IS: avārīt [3sg.act.] (Br.)</p> <p>Aorist mediopass: ávári [3sg.] (RV)</p> <p>Perfect: vavāra [3sg.act.] (RV+), vavre [3sg.med.] (RV+), ávavarīt [3sg.ppf.act.] (RV)</p> <p>Caus: vārayante [3pl.med.] (RV+)</p> <p>Abs: vr̥tvā, vr̥tvī (RV)</p> <p>TA-Ptc.: vr̥tā- (RV+, also ápā°, áptī°, abhī°, pártī°, prā°, etc.)</p> | | IIAL |
| *h:wer-tro- | stopper | | | | | IIAL |

Sheet1

| | | | | | |
|---------|------|--|--|---|------|
| *h:werg | turn | | | <p>Present VII: vr̥nākti [3sg.act.] (RV+), ávr̥nak [2,3sg.impf.act.] with long augment (RV), vr̥ñjē [1sg.med.] (RV+) Present I<VII: vr̥ñj- a- (Br.) Aorist R: avrjan [3pl.act.] (RV), várk [2,3sg.inj.act.] (RV), ávr̥kta [3sg.med.] (RV) Aorist S: vr̥kṣi [1sg.inj.med.] (RV) Perfect: vavrjuḥ [3pl.act.] (RV) vāvrije [3sg.med.] (RV) Passive: vr̥jyāte [3sg.] (RV+) Intensive: váriv̥rjat < *Huar-Hurj- [ptc.act.] (RV) Desid: saṃvív̥rkṣeta [3sg.opt.med.] (ŚB) Caus: pári varjay° (AV+) Abs.: vr̥ktvī (RV+) Inf: pra-vr̥je (RV), vr̥ñjáse (RV), vr̥jádhyai (RV)</p> | IIAL |
|---------|------|--|--|---|------|

Sheet1

| | | | | | | | |
|---------|-----------------------------|---|--|--|--|----------|------|
| *h.wes | live, stay, spend the night | | {1} [AL] This form is erroneously listed under vas- 'to shine' in Lubotsky 1997a. | Present I: vásati [3sg.act.] (RV+) Aorist S: avātsīḥ [2sg.act.] (AV+) Perfect: uvasa [1sg.act.] (KSp) ūṣatuḥ [3du.act.] (RV+) {1} āproṣivams- [ptc.act.] (RV 08.060.19) Passive: (to the caus. stem) udvāsyāmāna- [ptc.] 'being taken off the fire' (MSp+) Fut: vatsyā° (KS+) Caus: vāsay° (RV+) 'to make dwell, to let wait' TA-Ptc.: uṣita- 'having dwelt' (Br.+) Abs: uṣitvá (TS+) | | | IIAL |
| *h.wes- | dwell, pass the night, stay | Olr foaid 'pass the night live, dwell' Grk (núkta) á(w)esa "pass the night live, dwell' Arm goy "pass the night' Skt vásati "pass the night' Goth wisan 'live, dwell' Hit hues- 'live, dwell' Av vaṇhaiti 'live, dwell' Toch B wās- 'live, dwell' | The word probably meant originally 'to spend time' (a Hittite derivative huski means 'wait for, linger') and subsequently developed into meaning 'dwell'. | | | Dwelling | JPM |

Sheet1

| | | | | | | | |
|--------------------------|----------------------------|---|--|---|---|-------------|---------------|
| *h.wes- | light up | | {1} [AL] avasran [3pl.med.] (RV 04.002.19) seems rather to belong to vas [1] 'to clothe', since vas- 'to shine' is never middle and never transitive (cf. Kümmel 1996: 97-99). | Present SK: uchási [2sg.act.] (RV+) Aorist R: ávas [3sg.act.] (RV secondary forms are 3sg.act. avāt (AV) and avāt (MS)), ví vasas [2sg.subj.act.] (RV .008.03) {1} Perfect: uvāsa [3sg.act.], ūṣā [2pl.act.], ūṣūr [3pl.act.] (RV+) Fut: vatsya ° (MS, Br.) Caus: vāsáy ° 'to let dawn' (RV+) Inf: vástave (RV) TA-Ptc.: uṣṭá- 'brightened, lit up' (RV+) | the lighting dawn': Skt. (vy)uchántīm uśásam (RV) — YAv. usa IIAL | | |
| *h.wóstu | dwelling dwelling place | Grk ástu 'city' Skt vāstu 'place, seat' NWels gwas 'abode' Toch B ost 'house' | | | | Dwelling | JPM Celt. |
| *h.(e)ng ^{wh} - | nail | | {1} Loss of voice in the llr. word is possibly due to the influence of other body parts with voiceless aspirates, like aṅguṣṭhá-, kulphá-. | | | | Beekes IAL |
| *h.eb ^h i | towards | | | | | | Beekes |
| *h.ed- | give off a smell | Lat oleō 'smell, stink' Lith úodžiu 'smell' OCzech jadati 'sniff out, investigate' Grk ózō 'smell' Arm hotim 'smell' | West Central | | | Sensation | JPM |
| *h.ed- | hate | Lat ōdī 'hate' [verb], odium 'hate' [noun] OE atol 'atrocious' Grk odúsasthai 'be angry at, hate' Arm ateam 'hate' Hit hatukzi 'is terrible' underlies the name of the Greek hero Odysseus | | | | Love & Hate | JPM |

Sheet1

| | | | | | | |
|---|----------------|---|--|---|---|-----------------------|
| *h ₃ eh ₃ ku- *h ₃ ōku- | quick | Gr. ὀκῡς Lat. ōcior 'swifter' | {1} [AL] The interpretation of Lat. acu-pedius [adj] 'with fast feet' Lat. accipiter [m] 'hawk, falcon' (< *acu-) is troublesome. | āśīyas- [comp] 'quicker' (Br.) āśiṣṭha- [sup] 'quickest, very quick' (RV+) | 'quick horse': Skt. āśúm āśvam (RV) — YAv. āsušca aspō — Gr. ὠκέες ἵπποι 'having quick horses': Skt. āśvāśva- [adj] (RV) — YAv. āsu.aspa- [adj] 'possession of quick horses': Skt. āśvāśvya- [n] (RV) — YAv. āsu.aspiia- [n] 'to harness the quick ones': Skt. yunajmi ... āśú (RV) — OAv. yaogæt_ āsū (Y 44.4), asištā yaojanṭē (Y 30.10) 'quick sun': Skt. āśúm ... sūryam (AV) — Gr. ὠκέος Ἡελίοιο 'having a fast chariot': Skt. āśú-ratha- [adj] (VS RV already āśú- rātha-) — Med. *āsu-raθa- [m] PN | IIAL Celtic Lex |
| *h ₃ ekth ₃ -ti- | 80 eighty | | {1} Precise development in Indo-Aryan is unclear. | | | IIAL |
| *h ₃ ekʷ- | eye | Grk ὀπῶpa 'have seen', opīpeúō 'stare at' Skt īksate 'sees' | West Central {1} [AL] According to Kortlandt 1991: 5, -i is the original dual neuter ending. {2} Instead of *axši, analogical to uši 'ears'. | gen.sg. akṣṇās (RV) nom.acc.du. akṣ-ī (RV+) {1} | Sight | JPM Beekes IIAL |
| *h ₃ elek- | elbow, forearm | Lith úolektis 'ell', alkúne 'elbow' Rus lokótī 'elbow, ell' dialectal Grk álaks 'forearm' Arm olók 'shin, leg' | a regional variant of the more widespread *h ₃ elVn- | | Body (Upper) | JPM |
| *h ₃ elh ₃ - | destroy | Lat ab-oleō 'destroys' Grk óllūmi 'destroy' Hit hullā(i)- 'combat, fight' | | | Conflict | JPM |
| *h ₃ elVn- | elbow, forearm | Olr uilen 'corner' Lat ulna 'forearm, ell' NE ell, elbow Grk ōlénē 'forearm' dialectal Grk ō llón 'elbow' Arm oln 'spine' Toch B aliye 'palm' | Note that in both Latin and Germanic it also indicates the 'ell', a unit of measurement | | Body (Upper) | JPM |

Sheet1

| | | | | | | | |
|---|------------------------------|---|---|--|--|----------|-----------------------|
| *h ₃ emh ₃ - | grab, take swear | | {1} [AL] It seems unwarranted to reconstruct PIE *h ₃ emh ₃ - only on the basis of Hes. ἄμοιος . κακός. Σικελοί, next to ὁμοῖος (Hom.) 'κακός (?)'. | Present II: abhí amīsi [2sg.act.] (RV), abhí amánti [3pl.act.] (RV), abhí amīti [3sg.act.] (VS), amīṣva [2sg.impv.med.] (TS) 'to swear', sám amāte [3du.med.] 'to make a treaty' (TS), āmīt [3sg.impf.act.] 'to swear' (TS) Perfect: nir-emīṣe [2sg.pf.med.] 'to acquire by perjury' (AVP 5.36.7, 9.23.4 a secondary formation) Caus: āmay° (RV+) 'to hurt, ache' Aorist RED: amamat (Pp. āmamat) (RV) 'to hurt, ache' | | | IIAL |
| *h ₃ engʷ- | anoint (with salve), (be)sme | Lat ung(u)ō '(be)smear, anoint' Arm awcanem 'anoint' Skt anākti 'anooints' Olr imb 'butter' OHG ancho 'butter' OPrus anctan 'butter' Skt āñjas- 'salve' | | | | Binding | JPM |
| *h ₃ engʷh ₃ - *h ₃ éngwḡ | foot butter | Olr imb 'butter' Lat unguen 'fat, grease' OHG ancho 'butter' OPrus anctan 'butter' | {1} "Vrddhi"-formation to PIE *h ₃ ngwh ₃ - ? from *h ₃ engʷ- 'anoint' | | | Meals | IIAL JPM Beekes |
| *h ₃ enh ₃ - | contend, quarrel | Hit hann(a)- 'contend against, contest, take legal action [against], sue' Grk ónomai 'impugn, quarrel with' Olr on 'shame, disgrace, dishonour' | | | | Conflict | JPM |

Sheet1

| | | | | | | | |
|------------|-----------------------------|--|--|---|--|---------------------|------|
| *h.enos- | (cart-)load | | {1} ánar* is an analogical locative form. {2} [AL] For the explanation of the forms see Lubotsky 2007. {3} The connection is uncertain. If the Hittite verb does belong here, then reconstruct rather *h.enH-, cf. Melchert 1994: 85. | | | | IIAL |
| *h.énr, | dream | Alb ëndërr Grk ónar Arm anur | Albanian-Greek-Armenian isogloss | | | Knowledge & Thought | JPM |
| *h.ens- | be gracious to, show favour | OHG anst 'favour' Grk prose 'nês 'gentle, kind, soft' Hit ass- □ assiya- 'be favoured, be dear, be good' | | ? | | Values | JPM |
| *h.ep-nos- | property | | {1} [AL] The compound apna-ráj- is presumably based on the wrong interpretation of apna-sthá-. {2} The analysis is uncertain. Pok. combines Skt. ápnas- with ápas-, which would mean that ápnas- continues *h.ep-nos- and is then 'property acquired through work'. Gr. ὄρεως [n] 'wealth, fortune' is then unrelated. | | | | IIAL |
| *h.ep-os- | work | | {1} [AL] For ápas- (RV 01.178.01 = 04.038.04) and the reconstruction of the Ilr. form see Lubotsky 1990: 131ff. {2} Possibly, derived from apnú- to ápas- (i.e. 'working', like tapnú- 'glowing' to tápas- 'glow'), which may be present in an Elam.-Iran. name (from Plr. *afnu-?). {3} [AL] Also YAv. huuapah-. For the distribution see Lubotsky 1990: 131. | | | | IIAL |

Sheet1

| | | | | | | | |
|------------------------|----------------------------|--|--|---|--|----------|------|
| *h.er- | rise | | <p>{1} [AL] For the relationship between the two roots ar see Kümmel 2000a.</p> <p>{2} [AL] As argued by Kümmel 2000a: 254, ṛnóti in compounds with preverbs may belong to ar [2].</p> <p>{3} [AL] Formed to the quasi-root ṛr the root ar [1] disappears during the mantra period.</p> <p>{4} [AL] See Gotō 1987: 263 for the analysis of this form which is read by the Padapāṭha as ranta. In Lubotsky 1997a, the form is given under the root rā- [3] 'to rest'.</p> | <p>Present III: iyarti [3sg.act.] (RV+), ṛrte [3sg.med.] (<PIIr. *Hi-Har-, *Hi-Hr-) (RV+)</p> <p>Present V: ṛnóti [3sg.act.] {2} (RV+)</p> <p>ṛnvāti [3sg.act. (them.)] (RV+)</p> <p>Aorist R: (úd) āṛta [3sg.med.] (RV+), (sám) ārata [3pl.med.] (RV), aranta [3pl.inj.med.] (RV)</p> <p>Perfect: (vy) āra [3sg.act.] (RV 03.030.10), (ud) āṛitha [2sg.act.] (RV 02.009.03), āṛúh [3pl.act.] (RV+)</p> <p>Intensive: áłarti [3sg.act.] (RV)</p> <p>Fut: aṛiṣy° (Br.+)</p> <p>Caus: ṛray° (RV+) (to the medial stem ṛr-)</p> <p>na-ptc.: ṛmá- (TS) {3}</p> | | | IIAL |
| *h.er- | set in motion (vertically) | <p>Lat orior 'rise'</p> <p>a *neu-present form:</p> <p>Skt ṛnóti 'sets in motion'</p> <p>Av əṛənaoiti 'sets in motion'</p> <p>Grk ornūmi 'stir up'</p> <p>Arm y-arnem 'stand up'</p> | | | | Movement | JPM |
| *h.er-wen(t)- | racing | | | <p>árvā [nom.sg.] (RV, 'mighty race-horse': Skt. ugrāḥ ... árvā (RV) — OAv. auruuatō ... ugrāṅg</p> <p>'coursing horse': Skt. áśvānām árvatām (AVŚ 4.9.2c) — YAv. auruuat_āspa- '(riding on a) coursing horse'</p> | | | IIAL |
| *h.érb ^h is | circle, orb | <p>Lat orbis 'ring, circle, cycle disc, world, orb'</p> <p>Toch B yerpe 'disc, orb'</p> | | | | Shape | JPM |
| *h.erno- | rising (wave) | | | | | | IIAL |

Sheet1

| | | | | | | | |
|-------------------------|----------------------|---|--|-----------------------------------|--|-----------|-------|
| *h.es(k)- | ash | <p>Olr uinnis 'ash'</p> <p>Lat ornus 'mountain ash' (Sorbus aucuparia)</p> <p>NE ash</p> <p>Lith úosis 'ash'</p> <p>Rus jásení 'ash'</p> <p>Alb ah 'beech'</p> <p>Grk oksúē 'beech spearshaft'</p> <p>Hit hassikk- 'some form of tree with edible fruit' ??</p> | <p>Validity dependant on Hittite</p> <p>{1} [AL] The connection of Khot. astaucā 'dry land', Armenian astouč, aštouč 'dry' (LW from Iranian) seems doubtful to me, because its formation is unclear.</p> <p>{2} [AL] Hitt. a-aš-zi [3sg.pres.act.] 'to be left over' can hardly be related, but if Hitt. hāss- 'ashes soap dust' is connected, which seems quite probable, then the reconstruction must be adjusted to *h₁eh₁s₁o₁.</p> | | | Trees | JPM |
| *h.est-(s)kih□u- | bone ± shin | | <p>{1} [AL] For the etymology of this Ilr. word see Lubotsky 2002a. *ašthilā- [f] 'honeycomb (of wild bees)' (ŠB 10.3.4.3,5 arkāšthilā-, KS 37.14:94.6, JB 3.260 madhvašthilā-) is probably a non-IE word and has nothing to do with our word.</p> | | | | IIAL |
| *h.eu- | perceive | <p>Hit ūhhi 'see'</p> <p>Skt uvé'l see</p> | | | | Sight | JPM |
| *h.eu-tlo- | adorn > put on | | <p>{1} [AL] The derivation is uncertain. The root, which means 'to adorn' in Anatolian and 'to put on' elsewhere, is unattested in Indo-Iranian. The meaning development 'to put on' -> 'to put on shoes' is only documented in Balto-Slavic. It is therefore conceivable that the Iranian word is derived from the root *Hau- 'to weave, bind' or even from *HauH- 'to help, protect' (cf. Rastorgueva - Édel'man: 1.255).</p> | | | | IIAL |
| *h.eug- | cold | <p>Olr ūacht 'cold'</p> <p>Lith áušti 'become cold'</p> <p>Arm oyc 'cold'</p> | West Central | | | Qualities | JPM |
| *h.eust(y)o- | estuary, river mouth | <p>Lat ōstium</p> <p>Lith úostas 'river mouth, harbour'</p> <p>Rus ust'je 'river mouth'</p> | North-Western | | | Water | JPM |
| *h.ewi-keh ₂ | little sheep | Skt. avikā- | | with diminutive -heh ₂ | | | Celt. |
| *h.ēwis- | hear | <p>Lat audiō 'hear'</p> <p>Grk aisthánomai 'perceive'</p> <p>OCS aviti 'reveal'</p> <p>*h₁ēwis gives us a Slavic-Iranian isogloss</p> <p>OCS (j)javě</p> <p>Av āviš</p> | | | | Sight | JPM |

Sheet1

| | | | | | | | |
|-----------------------------|---------------|--|--|--|--|----------------------|-------------|
| *h.ieb ^h | copulate | | {1} [LK] In the mss. yábhyamāna- see Kulikov 2001: 366ff. {2} [LK] See Kulikov 2001: 368f. | Present I: yábhati [3sg.act.] (RV- Kh., AV+) Fut: yapsyánt- [ptc.act.] (TB+) Passive (?): +yabhyamāna- {1} [ptc.] (RV-Kh. 5.22.3) Des.passive: yīyipsyate [3sg.] '(the wife) is sought for copulation' (ŚrSū.) | | | IIAL |
| *h.lem- | break | OIr ro-laimethar 'dares, ventures' NE lame [<*broken'] Latv lemesis 'ploughshare' OCS lomljō 'break' Alb lemë 'threshing floor' Grk nōlemēs 'without a break, unceasingly' | West Central | | | Reductive Activities | JPM |
| *h.ligos | ill | Lith ligà 'illness' Alb lig 'bad' Grk olígos 'few' Toch B lykaške 'small, fine' Grk loigós 'ruin, harm' | | | | Health&Sickness | JPM |
| *h.meig ^h - | drizzle, mist | NE mist Lith miglā 'mist' Rus mglā 'mist, darkness' Grk omíkhlē 'cloud' Skt meghā- 'cloud' | | | | Air | JPM |
| *h.méi ḡ ^h -e/o- | urinate | Lat meiō □ mingō OE mīgan Lith minžū Serbo-Croatian mižati Grk omeíkhō Arm mizem Av maēzaiti Skt méhati | | Present I: áva mehanti [3pl.act.] (RV) Aorist R: amiham [1sg.act.] (Br.) Aorist SA: amikṣat [3sg.act.] (Br.) Fut: mekṣyāmi [1sg.act.] (AV+) Caus: mehay ^a 'to make urinate' (RV) TA-Ptc.: pari- mīḍha- (Sū.) Inf: mihé (RV) | | Vital Functions | JPM IIAL |
| *h.mer ḡ - | wipe off | Grk omórgnūmai 'wipe off' Av marəzaiti 'strokes' Skt mr̥ṣākti 'wipes off' | Greek-Indo-Iranian isogloss | | | Reductive Activities | JPM |

Sheet1

| | | | | | | | |
|--------------------------|-----------------------|---|--|--|--------------------------------------|--------------|-------------|
| *h.moig ^h -o- | cloud | | | | | | IIAL |
| *h.n(e)id- | taunt (to) | | | | | | Beekes |
| *h.neid- | abuse, curse | | <p>{1} With the secondary root variant nind- extracted from the thematic nasal present.</p> <p>{2} Derived from the secondary root variant nind-.</p> <p>{3} [AL] Probably reflecting an old athematic root-present, cf. also Tremblay 1999. The lengthened grade and -s- of nāismi come from the monosyllabic 3sg. nāist.</p> <p>{4} [LK] See also Fenart & Manessy-Guitton 1974.</p> | <p>Present I<VII: nīndati [3sg.act.] (RV+)</p> <p>Aorist IS: ānindiṣur [3pl.act.] (RV 01.161.05, ŚrSū.)</p> <p>{2}</p> <p>Aorist R: nidānā- [ptc.med.] 'blamed' (RV 04.005.12)</p> <p>Perfect: ninidúr [3pl.act.] (RV 10.027.06), nindima [1pl.act.] (RV 01.161.01)</p> <p>Passive: nidyāmāna- [ptc.] (RV 06.052.03)</p> <p>nindyate [3sg.] (DhSū.+)</p> <p>{2}</p> <p>Desid: nínitsāt [3sg.subj.act.] (RV+)</p> <p>TA-Ptc.: ninditā- {2} 'mocked, defective' (RV+)</p> | | | IIAL |
| *h.nob ^h - | navel, nave | <p>OE nafu 'nave'</p> <p>OE nafela 'navel'</p> <p>Olr imbliu 'navel'</p> <p>Lat umbilīcus 'navel', umbō 'boss on a shield'</p> <p>OPrus nabis 'nave, navel'</p> <p>Grk omphalós 'navel'</p> <p>Skt nābhi- 'navel', nābhya- 'nave'</p> | {1} The Iranian -f- is not well-explained. | | next-of-kin': nābhā-nédiṣtha- [m] PN | Body (Upper) | JPM IIAL |
| *h.nog ^h (w)- | (finger- or toe-)nail | <p>Olr ingen</p> <p>Lat unguis</p> <p>NE nail</p> <p>Lith nāgas</p> <p>OCS nogŭtī</p> <p>Grk ónuks</p> <p>Skt nakhā-,</p> <p>Toch B mekwa [pl.]</p> <p>Lith nagà 'hoof'</p> <p>Rus nogá 'foot, leg'</p> <p>Skt ánghri- 'foot'</p> | | | | Body (Upper) | JPM |

Sheet1

| | | | | | | | |
|------------------------|-----------------|---|--|---|---|--------|-------------|
| *h.ok ^w | eye | Olr enech 'face' Lat oculus NE eye Lith akis OCS oko Grk ómma Arm akn Av aši-(dual) 'eyes' Skt ákṣi- Toch B ek | | | | Head | JPM |
| *h.or- | eagle | Olr irar NE erne Lith erēlis Rus orēl Hitt hāras Grk órnīs 'bird' Arm urur 'kite', oror 'gull', and ori 'raven' | | | | Bird | JPM |
| *h.rd ^h uo- | high, upright | | {1} [AL] The anlaut development in Sanskrit is unclear, but the reconstruction can hardly be doubted. Connection with vardh seems improbable to me (NB: there is no evidence for the initial digamma in the Greek word). | | to stand erect': Skt. ūrdhvā- sthā- (RV+) — YAv. əṛəðβā ^h hištəṇ | | IIAL |
| *h.re ġ - | extend, stretch | Olr rigid 'stretches' OE reccan 'stretch out be concerned about' [> NE reck] Lith ré, žti 'stretch' Grk orégō 'stretch' Skt rñjāti 'stretches' Lat regō 'direct in a straight line' Av rāzayeiti 'adjusts, arranges' | {1} < rñj-yant- 'geradeaus gehend' ? (K. Hoffmann apud Joachim 1978: 61f.). | Present VII, VII>VI: rñjánti [3pl.act.] (RV 03.043.06), rñjate [3pl.med.] (RV), rñjate [3sg.med.] (RV), rñjāta [3pl.inj.med.]/[2pl.i mpv.act.] (RV 05.087.05) Present IV: -rjyate [3sg.med.] (RV 01.140.02), rñjiyant- [ptc.act.] (RV 06.037.02, 06.037.03) {1} Present YĀ: irajyā- 'to direct, to direct straightforwardly, to lead' (RV) Present VII+AS: rñjase [1sg.med.] (RV), rñjasānā- [ptc.med.] (RV) | | Extend | JPM IIAL |

Sheet1

| | | | | | | | |
|---|---------------|--|---|---|---|---------------------|-----------------------|
| *h ₃ rē ġ - | stretch | | | Present II: rāṣti [3sg.act.] (RV 01.104.04), rāt [3sg.inj.act.] (RV 06.012.05), Present I: rājati [3sg.act.] (RV+), vi-rājāni [1sg.subj.act.] (RV) Aorist S: arāṣuḥ [3pl.act.] (RV) Intensive: rārajat [ptc.act.n.] (RV) Inf: rājāse (RV) | | | IIAL |
| *h ₃ re ġ -es- | space, region | | | | at the far (end) of the space': Skt. dūrē pārē rājasah (RV 10.04) | | IIAL |
| *h ₃ rē ġ -n-ih ₂ - | queen | | | | | | IIAL |
| *h ₃ rē ġ -tr- | sovereign ? | | | | | | IIAL |
| *h ₃ rē ġ s | ruler, king | Olr rī 'king' Lat rēx 'king' Av bərəzi-rāz- 'ruling in the heights' Skt rāj- 'king' | It appears not to have been exclusively political in its meaning but rather to have referred to a person who also had religious functions. Indeed in those situations where the monarchy itself disappeared, as in Rome or Athens, the title of 'king' remained in its priestly function (e.g. the Roman rēx sacrorum). This word too has beside it a widespread feminine derivative (e.g. Olr rīgain, Lat rēgīna, Khot rīna, Skt rājñī-, all 'queen'), though the details of the formation diVer a bit in the various branches. The deeper etymology of this word has been frequently discussed it is usually explained as an agent noun of *h ₃ re ġ - 'stretch out the arm, direct' with some arguing that the word derives from the concept of a king who stretches out his arms in rituals, especially those laying out a precinct, or perhaps a more direct semantic development from 'direct' to 'rule'. | rāt [nom.sg.] | | Social Organization | JPM Beekes IIAL |
| *h ₃ re ġ tos | right | Olr recht 'law, authority' Lat rēctus 'right' NE right Grk orektós 'stretched out' Av rašta- 'right, straight' | from *h ₃ re ġ - 'stretch out' | | | Direction | JPM |

Sheet1

| | | | | | | | |
|------------|--------|--|--|---|--|----------------------|------|
| *h.rei(h□) | flow | | {1} [LK] For the meaning, see now Praust 2001?. XXX {2} Perhaps an enlargement of the root *h:er 'move'. | Present IV: rīyate [3sg.med.] (intr.) (RV, YVm) Present IX: riṇāti [3sg.act.] (trans.) (RV+) Present V: ariṇvan [3pl.impf.act.] (MS) Intensive: lelāya [3sg.pf.] (KS, MS), alelet [3sg.ppf.] (KS), alelīyata [3sg.ppf.med.] (KS), -> pres. lelāyā- (TS, ŚB+ here also ŚB lelayā [adv] 'in a tremble' (cf. Praust 1999: 51ff.) | | | IIAL |
| *h.reu(h□) | roar | | | Present VI: ruvāti [3sg.act.] (RV) Present II: rauti [3sg.act.] (ŚrSū.+), ruyāt [3sg.opt.act.] (ŚB) Present I: āravanta [3pl.impf.med.] (MS+ secondary after návate) Aorist IS: ārāvīt [3sg.act.] (RV) ārāviṣuḥ [3pl.act.] (RV) Caus: rāvay° (Sū.+) Intensive: rōravīti [3sg.act.] (RV+) | | | IIAL |
| *h.reuk- | dig up | Latv rūkīt 'dig' Grk orússō 'dig' Olr rucht 'pig' [i.e. *'one who digs up'] Lat runcō means 'weeds' (<*'pluck') Skt lūñcati 'tears, plucks'. | | | | Reductive Activities | JPM |

Sheet1

| | | | | | | | |
|--------------------------------------|---------------------|--|--|---|---|-------------|------|
| *h ₁ r ġ -u- | straight | | | ŗjyams- [comp] (RV+) ŗajįřtha- [sup] (RV+) | straight path': Skt. řjúnā pathā (RV 01.041.05) — OAv. əřəzūř | | IIAL |
| *h ₁ sleid ^h | slip | | | Present I: sredhati [3sg.act.] (RV) Aorist A: sridhat [3sg.inj.act.] (RV), á-sridhāna- [ptc.med.] | | | IIAL |
| *h ₁ weig- | startle, start back | | | Present VI: avije [1sg.impf.med.] (RV), vįjānte [3pl.med.] (AV+) Aorist R: vikta [3sg.inj.med.] (RV) vikhthās [2sg.inj.med.] (AVP+) Perfect: vivįre [3pl.med.] (RV) Intensive: vévįjāna- [ptc.med.] (RV) vevįjāte [3sg.med.] (RV) Caus: vejay ^o (Br.+) Aorist RED: vįvįjas [2sg.inj.act.] (RV) TA-Ptc.: prá-vikta- (RV+) | | | IIAL |
| *h ₁ (e)lb ^h – | elf | NE elf Skt řphú- 'an artisan deity' | | ? | | Dieties | JPM |
| *h ₁ ed ^h és- | axe, adze | OE adesa > NE adze Hit ates- and atessa | | | | Tools | JPM |
| *h ₁ ékmōn | stone | Grk ákmōn 'anvil' Skt ářman- 'stone' OPrus asman- 'heaven' Lith akmuō 'stone' OCS kamy 'stone' | This semantic convergence has been variously explained by assuming that the Proto-Indo-Europeans believed that they lived under a stone vault, that the stone hills and mountains rose to the sky, or that stone axes fell out of the sky, i.e. as thunder-stones (e.g., Lith Perkū no akmuō 'thunder-stone' [lit. 'Perkūnas' stone', where Perkūnas is the god of thunder]) | | | Earth | JPM |
| *h ₁ el- | grind down | Grk aléō 'grind' Arm alam 'grind' Skt aŗu- 'fine (< ground down) Panicum miliaceum' | | | | Agriculture | JPM |

Sheet1

| | | | | | | | |
|--|--------------------------|---|--|--|--|-----------------|-------------|
| *h. elb ^h ós | white | OHG albiz OCS lebedī Hit alpā- 'cloud' Lat albus 'white' Grk alphós 'white leprosy' | | | | Color | JPM |
| *h. elh ^h -n- | sweat | OIr allas 'sweat' [noun] Hit allaniye- 'sweat' [verb] | Celtic-Anatolian | | | Vital Functions | JPM |
| *h. eli- | he-goat | Toch B ā l 'ram, he-goat' Hit aliyan(a)- 'roeibuck' | Note that roeibuck have very undeerlike horns, horns that are closer to those of goats than to those of other deer | | | Fauna | JPM |
| *h. em- | mother | Lat amma Grk ammās Skt ambā- | | | | Kinship | JPM |
| *h. en- | (old) woman, mother | OIr Ana 'mother of the gods' Lat anus 'old woman' Hit annas 'mother' | | | | Kinship | JPM |
| *h. ep- | fourth-generation marker | Lat av-avus 'great-great-grandfather' Lat abnepōs 'great-great-grandson' | We find *h. ep- also in NE offspring. | | | Kinship | JPM |
| *h. ep-ér- | back, behind | Goth afar 'after' Av apara- 'behind, following, other' Skt ápara- 'later' NE after (with a different extension) | | | | Position | JPM |
| *h. épo | back, behind | Lat ab 'from' Goth af 'from, since' Grk apó 'from' Hit āppa 'behind' Av apa 'away from' Skt ápa 'away, forth' | Also has a shortened version *(h.)po which is used as a verbal prefix in Baltic (e.g. Lith pa-) and Slavic (e.g. OCS pa-), Av (pa-), and can also be seen in Lat po-situs 'situated', and perhaps Alb pa 'without' | | | Position | JPM |
| *h. erg ^w - | argue, assert | Lat arguō 'assert, prove, accuse' Hit arkuwai- 'plead, argue, make excuses' | | | | Conflict | JPM |
| *h. erh ^h :os *h. ent-o- | border, line, limit | Hit arha- 'line, boundary' Lat ōra 'brim, edge, boundary, region' OE ōra 'border, bank, shore' Latv āra 'border, boundary country limit' | {1} In RV also 'nearness' the original meaning is 'place to the opposite'. {2} Hardly etymologically identical to Got. andeis, etc. | | | Space | JPM IIAL |

Sheet1

| | | | | | | | |
|--------------------------------|--------------------------|---|---|--|--|---------------------|----------------------|
| *h. erós | member of ones own group | Hit arā- 'member of one's own group, peer, friend' Lyc arus- 'citizens' *h. eryós yields Olr aire 'freeman' Av airya- 'Aryan' Skt aryá- 'kind', árya- 'Aryan' (cf. arí- 'faithful') | The evidence suggests that the word was, at least initially, one that denoted one who belongs to the community in contrast to an outsider a derivative of the word is found in Hit āra '(what is) Wtting' and natta āra 'not right', cf. the use of kosher which originally meant (in Hebrew) 'what is fitting'. Although in Indo-Iranian the word takes on an ethnic meaning, there are no grounds for ascribing this semantic use to Proto-Indo-European, i.e. there is no evidence that the speakers of the proto-language referred to themselves explicitly as 'Aryans'. | | | Social Organization | JPM |
| *h. eu- | eat | Alb ha 'eat' Skt āvayati 'eats, consumes' | | | | Food & Drink | JPM |
| *h. eu(o) | away (from) | Olr ō 'from' Lat au-ferō 'carry away' Lith au- 'away' OCS u- 'away' Hit awan 'away', u- 'hither' Av ava 'down, off' Skt āva 'from' | {1} Possibly, PlIr. *Hau changed to *Haua under the influence of *Hapa. | | | Position | JPM Beekes IAL |
| *h. lo ġ - | branch vine, tendril | Rus lozá 'vine, tendril, shoot' Grk ológinos 'branchy' Av razura- 'forest, thicket' Hit alkista(n)-'branch' | | | | Trees | JPM |
| *h. ór ġ ^h ei | mounts | ON ergi 'lascivious behaviour' Lith aržūs 'lascivious' Rus jěrzejat 'Wdgets, moves in coitus' Grk orkhéomai 'makes lascivious motion' Ht ārki arga 'mounts (used with respect to a male animal)' Skt rghāyāte 'is impetuous' | | | | Vital Functions | JPM |
| *h. ór ġ ^h is | testicle | Mlr uirge Alb herdhe Grk órkhis Arm orjik' Hit arki- and Av ərazī | A deverbative from *h. ór ġ ^h ei 'mounts (sexually)' (e.g. Hit ārki 'mounts', Rus jěrzejat 'Wdgets, wiggles, moves in coitus', Grk orkhéomai 'make lascivious motions, dance') | | | Body (Lower) | JPM |
| *h. upó | up (from underneath) | OWels gwo- [preverb] OE ufe- 'on', and with doubled consonant: OE upp(e) 'up' [> NE up] Grk hupó '(to) under, by, towards' Av upa 'towards' Skt úpa 'upwards, towards' | From the underlying verbal root *h. up that means 'go up, rise' (e.g. Hit ūpzi '[the sun] rises', Alb hypem 'go up'). | | | Position | JPM |
| *h. upo-sth ₂ -i/o- | servant | Mlr foss 'servant' Skt úpasti- 'subordinate, servant' | A Celtic loan into Latin gives us the Late Lat vassus or vassalus, whence NE vassal. | | | Social Organization | JPM |

Sheet1

| | | | | | | | |
|---|------------------------|---|--|--|--|----------|---------------|
| *h ₁ welk- | pull | Lith velkù 'pull' OCS vlěkø 'pull' Alb heq 'pull [out], remove' Grk ô lka 'furrow' Av frāvarčātiti 'carries off' | | | | Convey | JPM |
| *h ₁ (e)us-ské-ti | it lights up, dawns | Lith aūšta 'it dawns' Av usaiti 'it dawns' Skt ucchāti 'it dawns' | From the verbal root *h ₁ ewes- 'shine' | | | Time | JPM |
| *h ₁ ebi- | fir | Lat abiēs 'silver fir' dialectal Grk ábis 'fir' | | | | Trees | JPM |
| *h ₁ ebVI- *h ₁ ebōl | apple | Olr uball NE apple Lith obuolys Rus jábloko Pashto maṇá 'apple', if from *amarna- < *abarna-) | | | | Trees | JPM Beekes |
| *h ₁ ed | at, to | Olr ad- [preverb] Lat ad 'to, at' NE at Phryg ad- 'to' Irish ad- 'to' | West-Central found in the North-West and Phrygian | | | Position | JPM |
| *h ₁ ed-b ^h er- | sacrifice | Olr ad-opair 'sacrifice' Umb arsfetur 'priest' Skt prá- bhartar- 'one who brings' | | | | Sacred | JPM |
| *h ₁ e ġ - | drive | Lat agō Grk ágō Skt ájati Olr ad-aig 'drive' ON aka 'travel' Arm acem 'lead' Toch AB āk- 'lead' Olr tāin (< *to-a ġ -no-) bō 'cattle raid' Lat bovēs agere 'to drive or raid for cattle' Av ɣam varətam az- 'drive off cattle as booty' | | | | Convey | JPM |
| *h ₁ e ġ - | fight | Grk agōn 'athletic contest' Skt ájman- 'career, passage, battle', ā ji- 'race, fight' Olr tāin [< *to-ag-no-] 'raid' | | | | Conflict | JPM |
| *h ₁ eg ^h - | be afraid, be downcast | Olr ad-āgathar 'fears' ON agi 'terror' Grk ákhos 'mental pain or distress' | West Central | | | Values | JPM |
| *h ₁ eg ^h -los | unpleasant | Skt aghalá 'wound' OE egle 'disagreeable, loathsome' Av avō- 'bad' Skt aghá- 'bad', aghalá- 'terrible' | from a root *h ₁ eg ^h - the *-lo- suffix may have been added independently in the two regions. | | | Values | JPM |

Sheet1

| | | | | | | | |
|---------------------------------------|----------------|--|--|--|--|---------------------|----------|
| *h□ég ^h le ^h □- | affliction | NE ail Av avrā 'type of disease' Skt ághrā 'affliction' | | | | Health&Sickness | JPM |
| *h□eg ^h lu | rain | OPrus aglo 'rain' Grk akhlūs 'fog, cloud' | | | | Water | JPM |
| *h□é ġ ^h r, | day | NE day Av azan- 'day' Skt áhar- 'day' | All the Germanic forms show the result of an initial *d- which has been variously explained (away) as having crossed with the Proto-Germanic *dā3waz 'warm time of the year' ([< *d ^h ōg ^{mh} o- 'burning'] or from the false division of an expression such as *tod h□é ġ ^h r, 'that day' into *to(d) dh□é ġ ^h r. Neither explanation has inspired much confidence. | nom.acc.sg. áhar (RV+) loc.sg. áhan, áhani (RV, áhni AV+), instr.sg. áhnā (RV+), dat.sg. áhne (RV+), gen.abl.sg. áhnas (RV+), dat.pl. áhabhyas (RV+), nom.acc.du. áhanī (RV+), nom.acc.pl. áhā (RV), áhāni (RV+), gen.pl. áhnām (RV+), loc.pl. áhasu on the basis of the latter form (analysed as < *ahas-su), other s-stem forms have arisen: áhobhyas [dat.pl.] (RV I,X+), áhaḥsu [loc.pl.] (Br.+) secondary a-stem form gen.pl. áhānām (RV 08.022.13) | | Time | JPM IIAL |
| *h□e ġ ilos | fast | Lat agilis 'quick' Skt ajirā- 'quick, agile' | may be independent formations built on the verbal root *h□e ġ - 'drive' | | | Time | JPM |
| *h□e ġ inom | hide, skin | OCS (j)azno 'hide, leather' Skt ajīnam 'hide' | Derives from *hae ġ ós 'goat' thus originally 'goat-hide' | | | Body (Upper) | JPM |
| *h□e ġ men- | troop | Lat agmen 'troop, train' Skt ajman- 'train' | | | | Social Organization | JPM |
| *h□e ġ ós | he-goat | Lith ožys 'he-goat' Av aza- 'he-goat' Skt ajā- 'he goat' | | | | Fauna | JPM |
| *h□e ġ ós | leader; driver | Grk agós 'leader' Skt ajā- 'driver' | | | | Social Organization | JPM IIAL |
| *h□ēgos | shame | Grk āgos 'guilt, pollution' Skt āgas 'guilt, sin' | Greek-Indo-Iranian isogloss | | | Law & Order | JPM |

Sheet1

| | | | | | | | |
|--------------------------|--------------------------|---|---|--|--|-------------|-----|
| *h□e ġ reh□- | hunt | Olr ār 'carnage' Grk ágrā 'hunt' Av azrō- 'hunt' | From verbal root *h□e ġ - 'drive' | | | Travel | JPM |
| *h□e ġ ros | field, pasture | Lat ager OEæcer [> NE acre] Grk agrós Arm art Skt ájra- 'plain' | Note that the Skt does not refer to agriculture | | | Plants | JPM |
| *h□eg ^{wh} nos | lamb | Lat agnus NE yean OCS (j)agnfie Grk amnós | | | | Fauna | JPM |
| *h□egwisy(e)h□- | axe | Lat ascia 'adze of carpenters and masons' NE axe Grk aksínē 'axe' | West Central | | | Tools | JPM |
| *h□eh□-peros | river bank, shore of sea | OE ōfer 'bank' Grk ēpeiros 'shore' Arm ap'n 'shore' | | | | Water | JPM |
| *h□ei- | assail, afflict | Hit inan- 'illness' Av aēnah- 'violence, damage' Skt énas- 'sin, guilt' Grk zētrós 'executioner' Skt yātār- 'avenger' < *hay-eha- | | | | Conflict | JPM |
| *h□ei- | give | Hit pai- 'give' [< *pe-ai-] Toch B ai- 'give' Lat aemulus 'emulator, rival' Grk aínunai 'take, seize' | a situation that we see does have quite a few parallels in that the action requires a 'giver' and a 'taker' and either side may become the focal point of the word (cf. NE take to but also take from). | | | Give & Take | JPM |
| *h□eid- | swell | OHG eiz 'abscess' Lat aemidus 'swollen' Grk oidéō 'swell' Oidípous 'Oedipus' [literally 'swollen-foot'] Arm aytnum 'swell' | | | | Blow Up | JPM |
| *h□eid ^h | burn, fire | Olr áed 'fire' Lat aedēs 'temple' OE ād 'heat, Wre' Grk aíthō 'burn' Skt indhé 'kindle' | | | | Fire | JPM |
| *h□eig- | oak | NE oak Grk aigilōps 'Turkey oak (Quercus cerris)' Lat aesculus 'mountain oak [Quercus farnetto]' | | | | Trees | JPM |
| *h□ei ġ s | goat | Alb edh 'kid' Grk aíks '[she-]goat' Arm ayc '[she-]goat' Av izaēnā- 'goathide' | | | | Fauna | JPM |
| *h□eig ^{wh} es- | shame | Goth aiwiski 'shame' Grk aískhos 'shame' | West Central | | | Law & Order | JPM |

Sheet1

| | | | | | | | |
|----------------|--------------------------|--|---|--|--|--------------|-----|
| *h□eik- | possess | OE āgan 'possess' [whence NE own] Av ise 'is lord of ' Skt īse 'owns, possesses' Toch B aik- 'know' | | | | Give & Take | JPM |
| *h□eiksmo/eh□- | spear, pointed stick | Lith iēšmis 'spit, spear' Grk aikhmē 'point of spear, arrow, spear' | West Central | | | Weapons | JPM |
| *h□eis- | wish for, seek out | Lith ieškau 'seek' Av isaiti 'seeks, wishes' Skt ēṣati 'seeks', icchāti 'wishes, seeks' Lat aeruscō 'ask' NE ask | | | | Desire | JPM |
| *h□ek- | sharp | | | | | | JPM |
| *h□ek- | sharp, pointed | NWels hogi 'to sharpen' | | | | Shape | JPM |
| *h□eke(tro)- | sturgeon | Lat acipenser Lith eškētras Rus osētr | | | | Fish | JPM |
| *h□ekes- | ear of grain | Lat acus NE ear Grk ákhnē Toch B āka [pl.] 'barley' | | | | Plants | JPM |
| *h□ekkeh□- | mother | Lat Acca Grk Akkō Skt akkā- | | | | Kinship | JPM |
| *h□eks- | axle | Lat axis OE eax Lith ašis OCS osī Grk áksōn Skt ákṣa- | {1} It is unclear whether words for 'armpit' belong here. {2} Meaning 'armpit' is not attested in IA, so that it remains uncertain whether this word belongs to the 'axle'-family. | | | Transport | JPM |
| *h□eks-(leh□-) | shoulder (joint) axle | Lat axis 'axis, axle', āla 'shoulder, wing', axilla 'armpit' OE eax 'axle, axis', eaxl 'shoulder' Lith ašis 'axle, axis' OCS osī 'axle, axis' Grk áksōn 'axle, axis' Av aši- 'shoulder' Skt ákṣa- 'axle, axis' | | | | Body (Upper) | JPM |
| *h□ekstí- | ± awn, bristle | NWels eithin 'furze' Lith akstis 'spit (for roasting)' Rus ostī 'awn, bristle' Toch B āšce 'head' ?? | | | | Plants | JPM |
| *h□ekú- | perch | ON qgr 'sea-bass' Lith ešerýs □ ašerýs | Because the word derives from *haek- 'sharp' (the perch has spiny fins), it may have been independently created in the two groups. | | | Fish | JPM |
| *h□ek*eh□- | water | Lat aqua NE island | North-Western | | | Water | JPM |

Sheet1

| | | | | | | |
|--|-----------------------------|--|---|--|--------------------|-------------|
| *h [□] el- | burn | Lat altar 'altar' Lat adoleō 'burn a sacrifice' Swed ala 'blaze, flare up' Skt alātam 'firebrand, coal' | | | Fire | JPM |
| *h [□] el- | grow | Olr ailid 'nourishes' Lat alō 'grow' NE old Lat altus 'high' | West Central | | Vital Functions | JPM |
| *h [□] el- | wander | Lat ambulō 'take a walk' Latv aluō t(iēs) 'go astray' Grk aléomai 'go astray' Grk aleúomai 'avoid' Toch AB ā l- 'keep off' | Either we have a single verb with divergent semantic histories or two homophonous verbs: 'wander' and 'avoid'. | | Travel | JPM |
| *h [□] el- | well up, flow | Lith al̃mės 'serum, pus' Skt árma- 'spring' Toch B ālme 'spring' Latv aluōgs 'spring' a number of European river names, e.g. Almus, Alma | | | Liquid Motions | JPM |
| *h [□] éliso- | alder | Lat alnus Lith aliksnis Rus ólkhna Hit alanza(n) 'type of tree' ?? | Status as a valid reconstruction depends on Hittite. A Proto- Germanic *aluzo- gives us NE alder. Some argue that *ha éliso-, if not reflected in Hittite, is actually a substrate term picked up by the Indo-Europeans in central and western Europe. | | Trees | JPM |
| *h [□] élmōs | spring | Skt árma- Toch B ālme | | | Water | JPM |
| *h [□] elnos | beyond, yonder | Olr oll 'ample' Lat uls 'beyond' NE all OCS lani 'last year' | North-West Based on the same root that gives Proto-Indo-European 'other' | | Position | JPM |
| *h [□] elut- | beer | NE ale OPrus alu 'mead' Lith alūs 'beer' OCS olū 'beer' Oss ælūton 'beer' | | | Meals | JPM |
| *h [□] élyos | other | Olr aile Lat alius NE else Grk állos Arm ayl Toch B alyek | {1} Ilr. *Hania- is most probably due to contamination of *h [□] elio- with the comparative *h [□] entero-. {2} anyá- means 'other of more than two', ántara- means 'the other of two', cf. also Lat. alius resp. alter with the same semantic difference. | | Measure & Quantity | JPM IIAL |
| *h [□] em(h [□])-I-weh [□] - | suffering | Grk aníā 'grief, sorrow, trouble' Skt árnīvā 'suffering, sickness' ON ama 'bother, pester, molest' | | | Health&Sickness | JPM |
| *h [□] emes-I- | blackbird | NWels mwylach Lat merula OE ðsle [>NE ousel] | | | Bird | JPM |
| *h [□] emh [□] ,- | lays hold, grasps swears | Grk ómnūmi 'swear' Skt árnīti 'lays hold of, grasps swears' | Greek-Indo-Iranian isogloss the meaning 'swears' may be a late development in the groups involved and reflects the custom of grasping some sacred object while one makes an oath (cf. the practice of swearing with one's hand on the Bible in a contemporary court). | | Law & Order | JPM |

Sheet1

| | | | | | | | |
|-----------------------------|---------------------------|--|--|---|--|-----------------|------------|
| *h□en- | that | Olr an-d 'here' Lat an 'or whether' Lith aĩs 'yon' OCS onũ 'he yon' Alb a 'whether' Grk án 'possibly' | West Central | | | Pronouns | JPM |
| *h□en- | year | Grk énos 'year' Lith pér-n-ai 'in the last year' dialectal Rus lo-ni 'of last year' | West Central | | | Time | JPM |
| *h□en-h□e | up (onto), upwards, along | NE on Grk aná'up on, up along, over, through, among' Av ana 'onto' | | | | Position | JPM |
| *h□en-u | up (onto), upwards, along | Av anu 'after, corresponding to, towards' Skt ánu 'after, along, over, near' Toch B omšmem 'from above' | Indo-Iranian-Tocharian isogloss | | | Position | JPM |
| *h□end ^h ós | blind | Gaul anda-bata gladiator who fights blind with a helmet without eye-openings Av anda- 'blind' Skt andhá- 'blind' | Problematic because it rests in the Gaulish term {1} Presumably, containing Gall. *anda- 'blind' (**blind-fighter). | | | Health&Sickness | JPM |
| *h□en ġ ^h (w)ēn- | neck | Rus vjazī 'nape' Grk ámphēn □ aukhēn 'nape' Arm awjik' [pl.] 'neck' | West Central from *haen ġ h-'narrow' | | | Head | JPM |
| *h□én ġ ^h es- | ± suffering, grief, fear | ON angr 'grief' → NE anger Lat angor 'fear' Av afi zah- 'oppression' Skt ámpas- 'fear' | | | | Health&Sickness | JPM |
| *h□en ġ ^h u- | narrow | Olr cum-ung 'narrow, restricted' Lat angi-portus 'narrow street, cul de sac' OE enge 'narrow' Lith aĩkštas 'narrow' MPers hnzwg- 'narrow' Skt amhú- 'narrow' | | abl.sg.n. amhós 'from distress, peril' (the only attested form) amhiyas- [comp] 'narrower' (AitB+) | | Shape | JPM IAL |
| *h□éng ^{wh} is | snake | Olr esc-ung 'watersnake' Lat anguis OHG unc 'snake' Lith angis 'snake' Rus už 'snake' Illyr ábeis 'snakes' Arm awj 'snake' | | | | Fauna | JPM |
| *h□énh□-mi | breathe | Goth uzanan 'breathe one's last' Skt ániti 'breathes' Toch B anāsk- 'breathe [in]' | | | | Vital Functions | JPM |
| *h□énh□-mos | breath | Lat animus 'spirit, wind' Grk ánemos 'wind' Arm holm 'wind' | | | | Vital Functions | JPM |

Sheet1

| | | | | | | | |
|---|----------------------------|---|--|--|--|-----------------|-----|
| *h ₁ énh ₁ t(e)h ₁ | doorjamb | Lat antae 'pillars framing a door' ON ond 'foreroom' Arm dr-and 'door-posts' Skt ātā 'door-posts' | | | | Construction | JPM |
| *h ₁ enk- | bend | | | | | Shape | JPM |
| *h ₁ enkulos | shoot | ON ðill 'bud, shoot' Skt añkurá- 'young shoot' | may derive from the verbal root *haenk- 'bend' | | | Plants (Wild) | JPM |
| *h ₁ énr, | (manly) strength, vitality | Alb njeri 'person' Grk anēr 'man' Phryg anar 'man' Arm ayr 'man, person' Luv annar- 'man' Av nār 'man' Skt nār- 'man, person' Lith nóras 'will' Hit innara 'violently' Hit innarawant- 'sexually potent' | | | | Health&Sickness | JPM |
| *h ₁ enseh ₁ - | handle | Lat ānsa MHG öse 'ring, loop' Lith ašà 'pot handle' | North-West | | | Containers | JPM |
| *h ₁ énsus | god, spirit | ON öss 'god' (nominative plural) Æsir of Norse mythology Iranian ahura- 'god, lord' and Ahura-mazdāh Skt āsu- 'powerful spirit' and the Asura-, a special class of Indic deities. | | | | Dieties | JPM |
| *h ₁ epus | weak | Grk ēpedanós 'fragile, weak maimed, halting' Skt apuvāyāte 'becomes ill, spoils' | Associated with *haépo 'backwards'. | | | Health&Sickness | JPM |
| *h ₁ er- | prepare, put together | Armaīnem 'make' Avarānte 'they set themselves, remain' Skt arā- means 'spoke [of a wheel]' Lat ars 'art' Arm ard 'structure, ornament' Skt r̥tū- 'fixed time, time appointed for some purpose' | | | | Being & Doing | JPM |
| *h ₁ er- | reed | Lat harundō 'reed' Grk áron 'arum' Khot arā- 'reed, rush' | | | | Plants (Wild) | JPM |
| *h ₁ érd ^h is | point | Olr aird 'point direction' ON erta 'to goad' Grk árdīs 'arrowhead' Skt ali- 'bee' | | | | Shape | JPM |
| *h ₁ éreh ₁ - | ± ryegrass | Latv āires 'ryegrass' Grk airai 'ryegrass' Skt erakā- 'sedge' | | | | Plants | JPM |

Sheet1

| | | | | | | | |
|--|------------------|---|--|--|--|-----------------|--------------|
| *h ₁ érh ₂ wr ₁ | field | OIr arbor 'seed' Lat arvum 'ploughed field' Grk ároua 'field' Arm haravunk' 'field' Skt urvárā- 'fertile soil' | | | | Plants | JPM Celt. |
| *h ₁ érh ₁ mos | arm, forequarter | Lat armus 'forequarter, shoulder [of an animal]' NE arm OPrus irmo 'arm' OCS ramo 'shoulder' Av arēma- 'arm, forearm' Skt ĩrmā- 'arm' | May derive from *haérhx- 'attach' | | | Body (Upper) | JPM |
| *h ₁ érk ^w os | bow and/or arrow | Lat arcus NE arrow | North-West | | | Weapons | JPM |
| *h ₁ értus | fitting, order | Lat artus 'joint' MHG art 'innate feature, nature, fashion' dialectal Grk artús 'arranging, arrangement' Arm ard 'ornament, shape' Av arēta- 'order' Skt rtú- 'right time, order, rule' Toch B ārtt- 'love, praise' | From the root *h ₁ er- 'fit' | | | Law & Order | JPM |
| *h ₁ éru(s)- | wound | ON ørr 'scar' Skt áruṣ- 'wound') | {1} [AL] This analysis is based on Hajnal 1999. In spite of Hajnal's scepticism concerning the Germanic cognates, they may still be related. | | | Health&Sickness | JPM IAL |
| *h ₁ et | away, beyond | OIr aith- 'back, out of' Lat at 'but' Goth aþ-pan 'however' Lith ato- 'back, away' OCS ot- 'away, out' Grk atár 'however' Skt átas 'from there' Toch B ate 'away' | | | | Position | JPM |
| *h ₁ et- | go | Lat annus 'year' Goth aþn 'year' Skt átati 'goes' NWels wyf 'am' | | | | Come & Go | JPM |
| *h ₁ etnos | year | Lat annus 'year' Goth aþna- 'year' | North-West From the verbal root *h ₁ et- 'go' (i.e. 'what's gone') | | | Time | JPM |
| *h ₁ eu- | favour | OIr con-ō i 'guards' Lat aveō 'desire strongly' Runic auja 'good fortune' Doric Grk aĩ'tas 'friend' Av avaiti 'cares for, helps' Skt ávatĩ 'is pleased, promotes' | If Alb ha 'eat' belongs here (< * 'enjoy [food]'), then the PIE root is *h ₁ eu- | | | Values | JPM |

Sheet1

| | | | | | | | |
|---|--------------|---|---|---|--|-----------------|-------------|
| *h ₁ eug- | grow | Lat augeō 'augment, increase' NE eke Lith áugu 'grow' Grk aéksō 'increase' Av uxšyeiti 'grows' Skt úkṣati 'strengthens' Toch B auk- 'grow, increase' | | | | Vital Functions | JPM |
| *h ₁ euges- | strength | Lat augustus 'sacred' Av aojah- 'strength' Skt ójas- 'strength' | Generally been linked to the type of strength required of a warrior | | | Conflict | JPM |
| *h ₁ euges- | strength | Lat augustus 'sacred' and the related augur 'priest, seer' Skt ójas- 'spiritual or physical might' | | | | Sacred | JPM |
| *h ₁ eusom *h ₁ weseh ₁ - | gold | Lat aurum OPrus ausis Toch B yasa | A noun ultimately derived from the root *h ₁ ewes- 'shine' which also underlies the word for 'dawn', *h ₁ éusōs It has been plausibly suggested that an Indo-European form similar to the one ancestral to Tocharian has been widely borrowed into the Uralic languages, e.g. Proto-Balto-Finnic-Lapp-Mordvin *waške 'copper, brass', Proto-Ugric *waś'metal, iron', Proto-Samoyed *wesā 'metal, iron' | | | Metals | JPM |
| *h ₁ éusōs | dawn | Olr fā ir 'sunrise' Lat aurōra 'dawn' OE ēastre 'goddess of springtime' [> NE Easter] Lith aušrà 'dawn' OCS ustra 'morning' Grk hēōs 'dawn' Av ušā- 'dawn' Skt uṣā- 'dawn' | | ušās [nom.sg.] (RV) ušāsam, uṣāsam [acc.sg.] (RV, later uṣām [acc.sg.] in RV 01.181.09, 10.068.09), ušāsas [gen.sg., acc.pl.], older uṣās (also uṣas in RV 10.095.04), ušási [loc.sg.] (RV+), uṣāsau, uṣāsau [nom.acc.du.] (RV+), uṣāsah [nom.pl.] (RV uṣās (AV+)), ušádbhīṣ [instr.pl.] (RV+), ušāsām [gen.pl.] (RV+) | | Time | JPM IIAL |
| *h ₁ éusōs | dawn goddess | Lat Aurōra Lith Aušrine Latv Auseklis Grk E ⁻ ōs Skt Uṣās- | | | | Dieties | JPM |

Sheet1

| | | | | | | | |
|-------------------------------------|-----------------------------|--|--|---|---|--------------|-------------|
| *h ₁ eust(e)ro- | east | Lat auster 'south wind south country' NE eastern Latv āustrums 'east' OCS ustrŭ 'summer' Av ušatara- 'east' | A transparent derivative from *h ₁ eus- 'dawn', i.e. the direction of the rising sun | | | Direction | JPM |
| *h ₁ ewei- | bird | NWels hwyad 'duck' Lat avis 'bird' Alb vida 'dove' Grk aietós 'eagle' Arm haw 'bird chicken' Av viš Skt vi- | | RV forms: véh/víh [nom.sg.], vím [acc.sg.], véh [gen.sg.], váyah [nom.pl.] víbhih [instr.pl.], víbhayah [dat.pl.], vínám [gen.pl.] | 'the birds fly': Skt. prá ... váyah ... paptan (RV) — YAv. frā vaiiō patan 'carried by birds (?)': Skt. ví-bhr̥ṭa- [adj] (RV) — YAv. vaiiō.bərəta- [adj] | Bird | JPM IIAL |
| *h ₁ ewis | (wild) oats | Lat avēna Lith āvižos OCS ovisŭ Khot hau 'some form of cereal' | | | | Plants | JPM |
| *h ₁ ey-es- | metal > copper > bronze | Lat aes 'copper, bronze' NE ore Av ayah- 'metal (probably bronze)' Skt áyas- [earlier] 'copper', [later] 'iron' | It is generally presumed to mean 'copper' or the copper-tin (or copper-arsenic? [SGM]) alloy of 'bronze' although it has come to mean 'iron' in some of the Indo-European languages, e.g. Indo-Iranian however, there is clear evidence that it earlier meant 'copper' or 'bronze'. In the Germanic languages it tends to mean 'ore' and it is possible it simply meant 'metal' rather than a specific type of metal. | | | Metals | JPM |
| *h ₁ eyer- | early | OHG ēr Grk ἄριστον 'morning meal' Grk ἑέριος 'of the morning, in the morning' Av ayarə 'day' | | | | Time | JPM |
| *haha | a laugh | Lat hahae Grk hà há Skt ha ha | A single *ha tended to indicate surprise (Lat hā, Grk hà, Skt ha) | | | Human Sounds | JPM |
| *h ₁ id ^h rós | pure | Grk itharós 'glad pure' Skt vidhrá- [<*wi-h ₁ id ^h ro- 'burned away'] 'clean, pure' | Greek-Indic derives from *h ₁ eid ^h - 'burn' and may either be inherited or independent developments. | | | Clean | JPM |
| *h ₁ lei- | smear | Olr as-lena 'stain' Lat linō 'smear' Lith laistaū 'smear' Grk alínō 'spread, smear' Skt lināti 'pastes' Toch B linā- 'stick, place' | | | | Binding | JPM |
| *h ₁ leit- | ± do something hateful or a | Olr lius 'abhorrence' NE loath Grk alitainō 'trespass, sin' | West Central | | | Love & Hate | JPM |

Sheet1

| | | | | | | | |
|------------|-----------------|--|--|---|---|----------|-------------|
| *h□lek- | defend, protect | OE ealgian 'protect' Grk aléksō 'defend' Arm aracel 'tend' Skt rákṣati 'protect' OE ealh 'temple' Lith alkas 'sacred grove' | | Present I: rákṣati [3sg.act.] (RV) Aorist IS: rakṣīṣat [3sg.subj.act.] (RV), rakṣīs [2sg.inj.act.] (AV 5.7.1), arakṣīt [3sg.act.] (MSm 1.5.14:84.10) Perfect: rarákṣa [3sg.act.] (RV, ŚB) TA-Ptc.: rakṣitá- (RV+) | | Conflict | JPM IIAL |
| *h□mel ġ - | milk | Olr bligid □ bluígid NE milk Lith mėlžu ORus mǔlzu Grk amélgō Lat mulgeō Toch A mālk- Olr mlicht Rus molokó Alb mjel Toch B malkwer | | | | Meals | JPM |
| *h□něr | man, person | NWels nēr 'hero' Umb ner- 'chief' Alb njeri 'person' Grk anēr 'man' Arm ayr 'man, person' Phryg anar 'man' Luv annara/i- 'forceful, virile' Av nar- 'man' Skt nár- 'man, person' | Indicates 'power, strength' (e.g. Olr nert 'strength, power', Lat neriōsus 'firm'), and even 'anger' (OPrus nertien) | nāram [acc.sg.] (RV+) nāre [dat.sg.] (RV+) nāras [nom.pl.] (RV+) nīṇ [acc.pl.] (RV+), narām [gen.pl.] (RV+) | 'protector of men': Skt. nr̥-pātár- [m] (RV), nr̥-pa- [m] 'king' (Sū.+) — Gr. Ποίμανδρος [m] PN 'with the courage of a hero': Skt. nr̥- māṇas- [adj] (RV) — YAv. naire.manah- [adj] — Gr. μένος ἀνδρῶν, 'Ἀνδρομένης [m] PN 'glory of men': Skt. śráno ... nr̥nām (RV) — Gr. κλέα ἀνδρῶν 'killing men': Skt. nr̥-hán- [adj] (RV) — OAv. jēnar- [adj] — Gr. ἀνδροφόνος [adj] 'wisdom of men': Skt. nr̥-médha- [m] PN (RV, TS+) — YAv. narəm mazdram 'following the hero': Skt. nr̥-śác- [adj] (RV) — YAv. haxšāne narəm (V 19.26) (?) | Family | JPM IIAL |
| *h□nh□ti- | duck | Lat anas OE ened Lith ántis Rus útka Grk néssa Oss acc 'wild duck' Skt ātī- | | | | Bird | JPM IIAL |

Sheet1

| | | | | | | | |
|--------------|----------------------------------|--|---|--|--|------------------------------------|---------------|
| *h□ō(w)i-om | egg | NWels wy Lat ōvum German Ei OCS ajice Grk ōión Avāvaya 'having eggs' | suspiciously close to the primary word for 'bird' (*haewei-) and, indeed, a fairly transparent derivative of it | | | Bird | JPM IIAL |
| *h□ógeh□- | ± berry, fruit | NE acorn (probably) Lith úoga 'berry' Rus jágoda 'berry' Toch AB oko 'fruit' | | | | Trees | JPM |
| *h□óus- | ear | Olr ō Lat auris NE ear Lith ausis Rus úkho Alb vesh Grk ouís Arm unkn Av uši [dual] | Beekes has *h:eus | | | Head | JPM Beekes |
| *h□óyus | vital force, life, age of vigour | Olr æes 'life, age' Lat aevus 'lifespan, age' Goth aiws 'time, eternity', aiō n 'vitality, lifespan' Av äyū 'lifespan' Skt āyu(s)- 'life, lifespan' | | | | Health&Sickness Vital Functions | JPM |
| *h□r' ḡ -rós | flashing | Grk agrós Skt rjrá- | West Central used to describe dogs and horses | | | Time | JPM |

Sheet1

| | | | | | | | |
|------------------------|--------|--|--|---|---|-----------------|-------------|
| *h□woks-éye/o- | grow | NE wax Av vaxšaiti 'grows' Skt vakṣayati 'grows' | {1} [AL] Since the root accentuation of this zero-grade is anomalous, Insler (apud Jamison 1983: 139) suggested to read *úḱsyant- with correct accentuation, which would then be cognate to Av. uxšiiēiti. {2} [AL] There is further a synchronically distinct root ukṣ- 'to (be)sprinkle': Present VI: ukṣāti [3sg.act.] (RV+), ukṣānte [3pl.med.] (RV+) Aorist IS: áukṣis [2sg.act.] (YVp, ŠB) Caus.: ukṣayati (Sū+) Passive: -áukṣyata [3sg.impf.] (ŠB+) Fut: proḱṣisyāmi (Sū+) Abs: -ukṣya (YVp, ŠB) Gerundive: prókṣya- (MS) TA-Ptc.: ukṣitá- 'besprinkled' (AV+). According to Kiehnle 1979, the root ukṣ- 'to (be)sprinkle' has secondarily developed from vakṣ- differently Gotō 1993: 124. {3} s-enlargement of IE root *h₂eug- 'to increase' (cf. Skt. ójas-). | Present VI: úḱsant- [ptc.act.] (RV 01.114.07) {1}, áukṣat [3sg.impf.] (RV 10.055.07), ukṣámāna- [ptc.med.] (RV+) Aorist IS: áukṣis [2sg.act.] (RV 10.027.07) Perfect: vavákṣa [3sg.act.] (RV), vavakṣé [3sg.med.] (RV) Caus: vakṣayam [1sg.inj.act.] 'to make strong' (RV 10.049.08) ukṣayanta ? [3pl.subj.med.] (RV 06.017.04 for this form see Jamison 1983: 139) TA-Ptc.: ukṣitá- 'grown, grown up' (RV) {2} | 'to increase the rule': Skt. kṣatrām ukṣatam (RV 01.157.02) — OAv. xšaθrām ... vaxšat_ (Y 31.6) 'to increase oneself': Skt. tanvām ukṣámānāḥ (RV 06.066.04) — OAv. uxšiiā ... tanūm (Y 33.10) 'the growth (rise) of the sun': Skt. sūryasya ... vakṣátha- (RV 07.033.08) — YAv. hū vaxšāt_ (Yt 5.91) | Vital Functions | JPM IIAL |
| *h□yeu- | young | OIr óa 'young' Lat iuvenis 'young' NE young Lith jáunas 'young' OCS junŭ 'young' Av yvan- 'youth' Skt yúvan- 'young' | | | | Family | JPM |
| *h□yuh□-ñ-kós | youth | OIr óac 'youth' Lat iuvenicus 'young (cow)' Skt yuvaśá- 'young' | | | | Family | JPM IIAL |
| *h□egro- | top | | {1} agrimá- is a contamination of agriyá- and prathamá-. {2} [AL] Latv. agrs 'early', etc. cannot be related because of Winter's Law (pace EW Aia). | | 'at the head of the chariots': Skt. ágre ráthānām (RV) — Av. Avraēraθa- 'honey(-drink) of the best quality': Skt. mādḥvo agriyām (RV) — Av. avriia- maðu- | | IIAL |
| *h□eh₁l-en- | elbow | | {1} [AL] The reconstruction with two laryngeals seems necessary in order to account for the acute intonation of Lith. úolektis, Latv. uo¹lektis 'ell' < *Heh₁l-, cf. Lubotskv 1990. | | | | IIAL |
| *h□ei ḡ ^h - | desire | | | Present III>I: sam ṛhase [2sg.med.] (VS+) | | | IIAL |

Sheet1

| | | | | | | | |
|--|------------------------------|--|--|---|---|---------------------|------|
| *h ₁ ēpis | confederate | Grk ēpios 'gentle, kind, soothing, friendly' Skt āpī- 'ally, friend, acquaintance', āpyam 'confederation, alliance, friendship' | Possibly from *h ₁ ep- 'join'; | | | Social Organization | JPM |
| *h ₁ ieud ^h | move (intrans), stir > fight | | {1} It is conceivable that Ved. úd yodhati 'to rebel' is somehow connected with Ilr. *(H)jiauǵ-a- (> YAv. yaoz-a-, OP yaud-a- 'to rebel'). {2} With analogical *-smo- for *-mo- in IE *Hiudh-mó-. {3} [AL] According to an ingenious suggestion by Renou 1952: 254, this name represents 1pl. present. | Present IV: yúdhyaata [2pl.impv.act.] (RV+), yúdhyaate [3sg.med.] (RV+) Present I: úd yodhanti [3pl.act.] 'to rebel' (AV 12.3.28), ud ... ayodhan [3pl.impf.act.] (PB 7.5.2) {1} Aorist IS: áyodhīt [3sg.act.] (RV+), yodhiṣat [3sg.subj.act.] (RV 08.045.05) Aorist R: yodhat [3sg.subj.act.] (RV 06.039.02) SI-impv: yótsi (RV) Caus: yodháy° (RV+) Inf: yodhanāyai (AVP 5.10.8) TA-Ptc.: yuddhá- 'conquered', also [n] 'fight' (RV+) | | | IIAL |
| *h ₁ ih ₁ i ġ ^h -(e/o)- | desire (strongly) | Grk ikhar 'violent desire' Av īžā- 'desire' Skt ihate 'strives for, wants' Toch B ykässe 'concupiscence' | | | | Desire | JPM |
| *h ₁ ih ₁ lu- | mud swamp | Rus il 'mud' Grk tīlūs 'mud, swamp' | | | | Water | JPM |
| *h ₁ io-ti | how much | | | | | | IIAL |
| *h ₁ ish ₁ -ro- | active | | | | 'active mind': Skt. iṣirēṇa ... mānasā (RV 08.048.07) — Gr. ἰερὸν μένος (Hom.) 'powerful speech': Skt. vācam iṣirām (RV) — OAv. vāxš aēšō | | IIAL |

Sheet1

| | | | | | | | |
|-----------------------------|-------------------------|---|--|--|--|-------------|-------------|
| *h□leh□d- | dear | Rus ládyj 'dear' Toch B láre 'dear' Arm alalem 'love, caress' Skt lādayate (-d- < *-dr-) 'desires' Lycian it yields lada- 'wife' Rus láda 'wife' | | | | Love & Hate | JPM |
| *h□nás *h□n(e)h:s- | nose | Lat nāris 'nostril', nārēs [pl.] 'nose' NE nose Lith nó sis 'nose' OCS nosŭ 'nose' Av nāh- 'nose' Skt nāsā [dual] 'nostrils' | | nāsā [nom.du.] (RV 02.039.06), nas-ós [gen.du.] (RV+), | | Head | JPM IIAL |
| *h□ng*nis | fire | Skt. Agni Lat. ignis Lith ugnis Latv uguns OCS ognī Rus ogónī | Masc. {1} [AL] The initial laryngeal depends on the connection with the family of ángāra- 'coal'. | | | Fire | JPM IIAL |
| *h□oi(-ko)- *h□óiwō/eh□- | 1 one ± berry, fruit | Lat ūva 'bunch of grapes, fruit' Grk óā 'service-berry' Arm aygi 'grapevine' Olr di-auc 'not-fast' Lat ōcior 'faster' Grk ōkús 'fast' Av āsu- 'fast' Skt āśú- 'fast' | | | | Trees | JPM |
| *h□ók-us | fast | Olr di-auc 'not-fast' Lat ōcior 'faster' Grk ōkús 'fast' Av āsu- 'fast' Skt āśú- 'fast' | Apparently derived from *h□ek- 'sharp' | | | Time | JPM |
| *h□ókto-wós | 8th eighth | Olr ochtmad Lat octāvus NE eighth Lith āšmas □ aštuñtas OCS osmŭ Alb tetë Grk ógdo(w)os Av aštəma- Skt aṣṭamā- Toch B oktante | | | | Numbers | JPM |
| *h□oktō(u) *h.ekt-eh. | 8 eight | Olr ocht Lat octō NE eight Lith aštuoni OCS osmī Alb tetë Grk oktō Arm ut' Lycian ait- Av ašta Skt aṣṭā(u) Toch B okt | {1} Reconstruction is uncertain, also *Hokt-oH being conceivable. The e-grade is usually reconstructed on the basis of the e-grade in other numerals. Further analysis of the numeral 'eight' is highly speculative. | aṣṭā, aṣṭāu [nom.acc.] (RV+), aṣṭābhīh [instr.] (RV+), aṣṭ | | Numbers | JPM IIAL |

Sheet1

| | | | | | | | |
|-------------------------------------|--|---|---|--------------|--|---------------|-------------|
| *h□ol-eh:- | pointed instrument, tool with a thorn-like point | | {1} Plir. *ōraH- has been borrowed into FU, cf. Fin. ora 'awl, bodkin, bore, etc.', Lap. oari 'awl, bodkin', Mordvin (Moksha) orā 'big bodkin'. | | | | IIAL |
| *h□old ^h u- | (dugout) canoe, trough | OE ealdop 'trough' Lith aldiā 'boat' Rus lódka 'boat' Toch B olyi 'boat' | It suggests that the original referent may have been a dugout boat of some sort. | | | Transport | JPM |
| *h□óleh□- | awl | NE awl Skt āra- Khot aiysna- | | | | Tools | JPM |
| *h□ólkis | elk/American moose | NE elk Rus los' 'elk' Khot rūš- 'Ovis poli' Skt rśya- 'male of antelope' | Presumably related to *h□elu- 'dull red' | | | Fauna | JPM |
| *h□olu- | spell | Hit alwanzatar means 'witchcraft, spell' Runic alu, may mean 'spell' | | | | Sacred | JPM |
| *h□óng- *h□ong ^w -l- | charcoal | Nir aingeal 'light, fire' Lith anglis 'charcoal' OCS ogli 'charcoal' Skt. ángāra | {1} [AL] The forms seem to point to a HD l-stem: nom.sg. *h□ong-ól, obl. h□ong-l-. {2} NP angist 'charcoal' has a different formation and is probably unrelated. | | | Fire | JPM IIAL |
| *h□ópes- | work n. | Lat opus 'work' OE oefnan 'to work, make' Av -apah- 'work' Skt āpas- 'work' Lat opēs [pl.] 'possessions, abundance, wealth' Grk áphenos 'wealth' Hit happina(nt)- 'rich' Av afnavant- 'wealthy' Skt āpnas- 'wealth' | | | | Being & Doing | JPM |
| *h□org ^h i- | nit | Alb ergjēz Arm orjil | | | | Bug | JPM |
| *h□orki- | tick | Lith érké Arm ork'iwn | | | | Bug | JPM |
| *h□ósg ^h os | knot (in wood) | Olr odb 'knot' Grk óskhos 'sucker, sprout, vine, branch' NPers azy 'branch' Skt ádga- 'knot, joint' | {1} [AL] The Celtic forms reflect *osbos < *Ho(d)sgwo-. The -e- in Lith. uodegā 'tail' is problematic (uo- may be due to lengthening in accordance with Winter-Kortlandt's Law). Gr. ὄσχη f. 'vine with grapes' cannot reflect *Hodsg(w)eh:- and is likely to be a Mediterranean LW. It is tempting to connect another IE family for 'branch, twig', viz. Arm. ost, Gr. ὄσος, Go. asts, etc. (Pok. 785 - 786) < *Hosdn- | | | Trees | JPM |
| *h□oust-eh□- | mouth, lip | Lat ōstium 'mouth of a river' OPrus austō 'mouth' Lith uostā 'mouth of a river' OCS usta [pl.] 'mouth' Av aušt(r)a- 'lip' Skt ōṣtha- 'lip' | | | | Head | JPM |
| *h□reh:-tr-ih:- | bringing to rest | | | rātri- (AV+) | | | IIAL |

Sheet1

| | | | | | | | |
|-------------|--------------|--|--|---|---|--|--------|
| *h□reh:d- | gnaw, furrow | | {1} The connecting vowel -i- must be secondary. {2} [AL] For the short vowel in Skt. see Lubotsky 1981. {3} [AL] Lat. rādere 'to scratch, to plane' and MW rhathu point to *razd-. The Iranian verb rand- 'to make smooth' (e.g. MP and NP randīdan 'to scratch, scrape (off)', Oss. rændun 'to iron') does not seem to belong here either (to randh ?). | Present I: rādati [3sg.act.] (RV) SI-impv: rátsi (RV 05.010.01) Perfect: rarāda [3sg.act.] (RV 07.049.01) TA-Ptc.: raditá- {1} 'gnawed, bitten' (AV+) | to prepare the way': Skt. pathó rádantī (RV+) — YAv. paθō rād; IIAL | | |
| *h□resg-u- | rope | | | | | | IIAL |
| *h□ret- | walk | | | | | | Beekes |
| *h□reu-men- | hair | | | | | | IIAL |
| *h□reu(h□) | tear up | | | Aorist IS: rāviṣam [1sg.subj.act.] (RV) Aorist R / Present II: rávat [3sg.subj.act.] (MSm-KSm) TA-Ptc.: rutá- 'wounded, hurt' (RV, AV) | | | IIAL |
| *h□reud- | weep, cry | | {1} [AL] The set character of the root seems to be secondary, introduced in order to preserve the endings. In late Vedic texts we also encounter sporadic thematic forms like rodanti (JUB), cf. Gotō 1987: 275). | Present II: rudanti [3pl.act.] (RV+), arodīt [3sg.impf.act.] (YVp+) {1} Aorist A: árudat [3sg.act.] (AV+) Caus: roday° 'to make weep' (RV+) Abs: ruditvā (Sū.+) | | | IIAL |

Sheet1

| | | | | | | | |
|--------------|-------------|--|--|---|--|--|------|
| *h□reup | break, tear | | {1} [LK] The suffix accentuation is likely to be secondary (see Kulikov 1998). {2} The root was originally identical with rop, q.v. | Present VII>VI: lumpāmi [1sg.act.] (AVP), ālumpét [3sg.opt.act.] (AVŚ) Present IV/Passive: lupyáte [3sg.med.] (AV+), lúpyeta [3sg.opt.med.] (TS) {1} Aorist A: apālupat [3sg.act.] (AVP 8.15.12+) Aorist mediopass: lopi [3sg.inj.] (Sū.) Perfect: lulopa [3sg.act.] (Br.+) Caus.: lopay° (Br.+) Abs: saṃ-lúpya (AVŚ 10.1.30), lúmpam (MS) TA-Ptc.: úl-lupta- (AV+) | | | IIAL |
| *h□reup | break, tear | | | Present IV: arupyan [3pl.impf.act.] (AVP 8.15.7+) Caus: ropáy° 'to cause racking pain' (AVP+) Aorist RED: arūrupas [2sg.act.] (AV) rūrupas [2sg.subj.act.] 'to cause racking pain' (AV) | | | IIAL |
| *h□rh,-ei-e- | be quiet | | | Present AYA: iláyatā [2pl.impv.] (RV 01.191.06, AV+) | | | IIAL |
| *h□rh,-mo- | quiet | | | | | | IIAL |
| *h□rh,-es- | envy | | {1} [AL] The Indo-Iranian forms are clearly of denominial origin (cf. Klingenschmitt 1982: 149, fn. 9), being formed from an s-stem irás-, īrṣ- < *HrHas, *HrHs- (type bhiyás- 'fear', instr. bhīśā) [Pronk] | Present IV: īrṣyant- [ptc.act.] (TSp 2.3.5.1, DhSū.) | | | IIAL |

Sheet1

| | | | | | | |
|-------------------------|-------|--|--|--|---|------|
| *h□rot-h,-o- | car | | {1} Derivative of PIE *Hrot-eh₂- 'wheel', cf. PIE *Hret 'to roll, to walk' (Olr. rethim, roithim). | | standing on the chariot': Skt. rathe-ṣthā- (RV+) — Av. raθaē-štā IIAL | |
| *h□ruh□kso- | rough | | {1} Khwar. m-žxš- [verb] 'to become wrinkled, to become rough' (< Plr. *uz-ruxša-) and Lith. rūkti [verb] 'to become wrinkled' cannot be directly connected because of the "wrong" velar. | | | IIAL |
| *h□Vng ^h el- | eel | Lat anguilla Lith ungurys OCS oḡulja Grk égkhelus | | | Fish | JPM |
| *h□wers- | rain | | {1} [AL] The colour of the initial laryngeal is uncertain: *h₁- seems more probable (Gr. ἔερον), since ἄερον is only attested in the glosses (ἄερον την δρόσον. Κρήτες H.). Anatolian cognates (Hitt. uarša- 'rain-shower' Luv. uarša- 'drop') are not assured. Gr. οὐρέω may have lost its laryngeal because of the so-called Saussure's effect (o-grade in the root) or be due to contraction. | Present I: váršanti [3pl.act.] (RV+) Present ĀYA: vršāya [2sg.impv.act.] 'to let rain' (RV 10.098.01, probably, nonce) Aorist IS: avaršīt [3sg.act.] (RV+) Aorist A: avrṣat [3sg.act.] (KS+, nonce) Perfect: vavaršváms- [ptc.act.] (MS, KS) Caus: varšáy° (RV+) TA-Ptc.: vrštá- (abhívršta- RV+) Abs: vrštví (RV) | | IIAL |
| *ieh₃s-neh₂- | | | {1} Presumably, rášnā- is due to contamination of *yášnā- 'girdle' with rašanā- 'rope, cord, bridle'. | | | IIAL |

Sheet1

| | | | | | | | |
|------------------------|----------------------|--|---|---|--|--------------|-----------------|
| *ieug | yoke, harness, join | | {1} Perhaps, a root enlargement of *ieu- (yav [1]). | Present VII: yunájmi [1sg.act.] (RV+) yuríkté [3sg.med.] (RV+) Aorist R: ayuji [1sg.med.] (RV+), yukšvá [2sg.impv.med.] (RV+) Aorist S: ayukšata [3pl.med.] (RV+), ayukši [1sg.med.] (MSm) Perfect: yuyujma [1pl.act.] (RV 06.061.12), yuyujé [3sg.med.] (RV+) Passive: yujyáte [3sg.] (RV+) Fut: yokšyate [3sg.med.] (AV+) Aorist mediopass: áyoji [3sg.], áyujran [3pl.] (RV) Abs: yuktvā 'having yoked' (RV+) Inf: yujé 'to yoke' (RV) TA-Ptc.: yuktvā- (RV+) | 'to harness the fast(est) ones': Skt. yunajmi ... āśū (RV) — OAv. yaogət_ āsū (Y 44.4) asištā yaojañtē (Y 30.10) 'yoking with truth': Skt. ṛtā-yukti- [f] (RV 10.061.10) — OAv. yūjān ... ašā.yuxtā (Y 49.9) 'having yoked horses (as wealth)': Skt. yuktaśva- [adj] (RV 05.041.05), yuktaśva- [m] PN (JB+) — YAv. yuxta.aspa- [adj], yuxtāspa- [m] PN | | IIAL |
| *ieus | justice, welfare | | difficult to establish | | | | Beekes Celt. |
| *imh□-o- | twin | | {1} Identical with yamā- [1]. {2} [AL] For the reconstruction see Lubotsky 1988: 79. | | {1} [AL] For the reconstruction see Lubotsky 1988: 79. | | IIAL |
| *iod | that | | | | | | Beekes |
| *is ġ ^h is- | loins | Grk iskhíon 'hip', iksús 'loins, groin' Hit iskis(a)- 'loins' Lat īlia [pl.] 'abdomen below the ribs, groin, flanks' | | | | Body (Lower) | JPM |
| *ish .ros | sacred power holy | Grk hierós 'sacred, powerful' Skt iṣirā- 'powerful' Grk hieròn ménos 'sacred strength' Skt iṣiréna mánasā 'sacred strength' | Greek-Indo-Iranian isogloss | | | Sacred | JPM Beekes |

Sheet1

| | | | | | | | |
|--------------|----------------|--|---|--|--|--------------|-------------|
| *it- | thus | MWels yt- [preverb] Lat ita 'thus' Lith it 'very' Skt iti 'thus' | | | | Conjunctions | JPM |
| *iuh□s | you (plural) | | {1} Skt. yūyām has been refurbished after vayām. The expected form would be *yūrām < *iuHžam < *iuHš + -am. | obl. yuṣmá-, encl. vas | | | IIAL |
| *iuh□s- | soup, broth | | | gen.sg. yūṣnás (RV), loc.sg. yūśán (TS) in later texts, thematic yūśá- (TS+) | | | IIAL |
| *k(e)h□isVr- | mane | Lat caesariēs 'long flowing hair' Skt késara- Toch A śišri | | | | Hair | JPM |
| *k(o)nid- | nit, louse egg | Olr sned 'nit' NE nit Lith glinda Rus gnída Alb thërije Grk konís Arm anic | | | | Bug | JPM |
| *k(o)us- | dwelling | NE house Toch B kwaṣai- 'village' Arm xuc 'room' and xul 'hut'. | These would all appear to be derivatives of *keus- 'hollow out', and the use of this root for 'dwelling' words presumably reXects structures that were at least once semi-subterranean. | | | Dwelling | JPM |
| *k(u)wōn | dog | Olr cū Lat canis OE hund [> NE hound] Lith šuō Rus súka 'bitch' Grk kúōn Arm šun Av spā Skt śvā Toch AB ku Hit kuwan- 'dog-man' | | śvā [nom.sg.] śvánam [acc.sg.] śúnas [gen.sg.] | 'swift dog': Skt. rjí-śvan- [m] PN '= with swift dogs' (RV) — Gr. kúnες ὄπυοί 'four-eyed dog': Skt. śvánau caturakṣáu (RV) — YAv. spānəm ... caθru.cašməm 'with the feet of a dog': Skt. śvá-pad- [m] 'wild animal' (AV+) — YAv. spō.pad- [m] PN | Fauna | JPM IIAL |

Sheet1

| | | | | | | | |
|---------------|------------------|--|--|---|--|-----------------|------|
| *k(w)erĳ- | be lean | | {1} [AL] For the acute tone in Lithuanian see Derksen 1996: 285-294. | Present IX: áva-kršniyāt [3sg.opt.act.] 'to make lean' (MS 3.6.9:73.8) Present IV: kršyati [3sg.act.] (Br.+) Perfect: cakárša [3sg.act.] (AV 12.3.16) Caus: ava-karšáyanti [3pl.act.] 'to make lean' (RV 06.024.07) TA-Ptc.: kršita-'emaciated' (Br.) | | | IIAL |
| *k(w)leik- | suffer | Lith klišės 'crab-claw' Rus klestítí 'press' Skt klíśyate 'suffers, is tormented' Toch B klaiks- 'shrivel, wither' | | | | Health&Sickness | JPM |
| *k(w)rk-o- | lean | | {1} According to Thieme, *k(w)rk-o- < PIE *k(w)rk-ro-. | | | | IIAL |
| *k(w)seud- | disperse | | {1} [AL] The circumflex accent in Slavic can be due to Meillet's Law. | Present I: kšódante [3pl.med.] (RV 05.058.06), kšodanti [3pl.act.] (RV 07.058.01) Caus: kšoday° (RV), ákšodayat [3sg.impf.act.] (RV 04.019.04) 'to pulverize, to make small' or 'to make shake' (Jamison 1983: 153) | | | IIAL |
| *k(w)seud-os- | dispersal | | | | | | IIAL |
| *k(w)sud-ro- | dispersed, small | | | | | | IIAL |
| *k/geu(-k)- | curve | Skt kucá ti 'bends, curves', kuca-'breast' Olr cūar 'curved' Lith kaũkaras 'hill' NE high Toch B kauc 'high' OPrus cawx 'devil' Lith kaũks 'goblin' OCS kukonosŭ 'curvenosed' | is treated as a verbal root which only survives in a number of nominal forms, e.g. *gudom 'intestines', *gu-ro-s 'lock of hair', *gu-r-nos 'back', all presumably derived from a no longer extant (or at least recoverable) verbal form. | | | Bend and Press | JPM |

Sheet1

| | | | | | | | |
|--------------------------|------------------------------|---|---|--|--|----------------------|-----|
| *kād- | fall | Olr casar 'hail' Lat cadō 'fall', cadāver 'corpse' Arm c'acnum 'fall' Skt śad- 'fall' | | | | Crawl, Slide, Fall | JPM |
| *kag ^h - | catch, grasp | NWels cau 'close, clasp' Lat cōlō 'tend, take care of' OE haga 'hedge' Alb ke 'has, holds' | West Central | | | Give & Take | JPM |
| *kag ^h - | hedge, enclosure | NE haw, hedge ??Lat caul(l)ae 'hole, opening' | North-West from a verbal root *kagh- 'catch, seize'. | | | Dwelling | JPM |
| *káikos | one- eyed | Skt kekara- 'cross-eyed' Olr cāech 'one-eyed' Lat caecus 'blind' Goth haihs 'one-eyed' | | | | Health&Sickness | JPM |
| *kaiwelos | alone | Lat cae-lebs 'living alone, celibate' Skt kévala- 'alone' | | | | Measure & Quantity | JPM |
| *káiw(r)t | cave, fissure (in the earth) | (dialectal) Grk kaíatas 'ditches, fissures in the ground opened by earthquakes' Skt kéraṭa- 'cave, hollow' | | | | Dwelling | JPM |
| *kak(k)eh□ye/o- | defecate | Mlr caccaid 'defecates' Lat cacō 'defecate' Rus kákati 'defecate' Grk kakkáo 'defecate' Arm k'akor 'excrement' | West Central | | | Vital Functions | JPM |
| *kal- | beautiful | Grk kalós 'beautiful' Skt kalya- 'healthy, prepared for, clever', kalyāṇa- 'beautiful' | Graeco-Aryan | | | Light & Dark | JPM |
| *kam-p- | bend (of terrain) | Lat campus 'field' Goth hamfs 'maimed' Lith kam~pas 'corner region' Grk kampē 'bend of river' | West Central | | | Bend and Press | JPM |
| *kamareh□ | vault | means 'belt' in Avestan Grk kamara | Limited and questionable | | | Dwelling | JPM |
| *kámos | sheatfish | Lith šāmas Rus som Grk kamasénes [pl.] 'a kind of fish' | | | | Fish | JPM |
| *kan- | sing | Olr canaid 'sings' Lat canō 'sing', carmen 'song, prophecy, form of incantation' OHG hano 'cock' Grk ēikanós 'cock' ?Toch B kene 'song, tune' | West Central | | | Formal Speech & Song | JPM |
| *kan-t ^(h) o- | corner, a bending | NWels cant 'tyre' [Lat canthus or cantus 'wheel rim' comes from Gaul] Rus kut 'angle' Grk kanthós 'corner of the eye' | West Central | | | Shape | JPM |

Sheet1

| | | | | | | | |
|-----------------|-----------------------|--|--|--|--|----------------------|-------------|
| *kank- | branch | Olr cēcht 'plough' NWels cainc 'branch' ON hār 'thole-pin' Lith atšankē~ 'barb crooked projection from a tree' Rus suk 'branch, knot' Skt šankú- 'peg' | | | | Trees | JPM |
| *kannabis | hemp | Lat cannibis NE hemp | | | | Plants | JPM |
| *kap- | hawk, falcon | NE hawk Rus kóbec '[type of] falcon' | derived from *kap- 'seize' | | | Bird | JPM |
| *kap- | seize | Olr cāin 'law, tribute' Lat capiō 'take' NE have Latv kàmpju 'seize' Alb kap 'catch, grab, seize' Grk káptō 'gulp down' Skt kapaṭi [dual] 'two handfuls' | | | | Give & Take | JPM |
| *kapōlo- | ± head, skull | OE hafola 'head' Skt kapāla- 'head cup' | Skt means both 'head' and 'cup', an association found elsewhere among the Indo-European languages, e.g. French tête 'head' derives from Lat testa 'pot' | | | Head | JPM |
| *kápos | piece of land, garden | Roshani sēpc 'cultivated field' OHG huoba 'piece of land' Grk kêpos 'garden' | | | | Plants | JPM |
| *kápr | penis | Olr gabor 'goat' Skt káprṭh 'penis' Lat caper OE hæfer Grk kápros 'boar' | i.e. these are archetypically 'male' animals | | | Body (Lower) | JPM |
| *kápros | he-goat | Olr gabor 'he-goat' Lat caper 'he-goat' OE hæfer 'he-goat' NPers kahra 'kid' | | | | Fauna | JPM |
| *kaptos | captive | Lat captus 'captive' NE haft | North-West | | | Conflict | JPM |
| *káput | head | Lat caput NE head ? | North-West | | | Head | JPM |
| *kar- *kerh₂ | praise (loudly) | Av čarekərə- 'praise' Skt carkarti 'praises' OE hrēp 'fame' ON herma 'report' | {1} [AL] Possibly, here belong also YAv. kāraia- 'to announce, perform', MP hng'r- 'to (ac)count, reckon', hng'l- /hangār- 'to perform, offer (thanks) calculate, determine consider' (Kellens 1984: 147f.). The other possible cognates are Bactr. mō-aynō- 'to agree, settle', Khwar. m nk'ry- 'to settle (a score) with someone to say goodbye'. {2} [AL] The mechanism of the Schwebeablaut in this root is not quite clear. | Intensive: carkarmi [1sg.act.] (RV), carkirāma [1pl.subj.act.] (RV), carkrḍhi [2sg.impv.] (AVP 5.34.8), carkrše [3sg.med.] (RV) Aorist IS: ákārīt [3sg.act.] (RV+) akāriṣam [1sg.act.] (RV+) | | Formal Speech & Song | JPM IIAL |
| *kārḥkeḥ- | magpie | Lith šarka Rus soróka | Isolated to Baltic and Slavic | | | Bird | JPM |

Sheet1

| | | | | | | | |
|----------|------------------------------|---|--|--|--|----------------------|-----|
| *kark- | crab | Lat cancer (< *karkro-?) Grk karkínos Skt karkat-a- (< *karkrto-) Skt karkī- 'cancer (as a sign of the zodiac)' | | | | Bug | JPM |
| *kars- | scratch comb (wool) | Lat car(r)ō 'comb wool', carmen 'comb for wool' Lith karšiū 'comb/card wool' elsewhere it means 'scratch'. | | | | Textiles | JPM |
| *kāru- | poet | Grk kêruks 'herald' Skt kārú- 'one who sings or praises, poet' | Greek-Indo-Iranian isogloss from *kar- 'praise' although the Indo-European status of the Greek word has been challenged | | | Formal Speech & Song | JPM |
| *kas- | grey | Lat cānus ON hqss Osc casnar 'old' 'hare' NWels ceinach NE hare OPrus sasins Khot saha- Skt śaśá- | | | | Color | JPM |
| *kasos | hare | NE hare OPrus sasins Skt śaśá- | derives from the adjective 'grey' | | | Fauna | JPM |
| *kat- | cat | Lat cattus | A late loanword perhaps associated with the spread of the domestic cat from Egypt, cf. Nubian kadīs 'cat', which was in turn widely borrowed by many other European languages. | | | Fauna | JPM |
| *kat-h□e | down | Grk káta 'katá' down through, among according to' Hit katta 'down, by, with, under', katkattiya- 'kneel, go down' Toch B kâtk- 'lower' | | | | Position | JPM |
| *katu- | fight | Olr cath 'battle', OHG hadu- 'fight' OCS katora 'fight' | North-West also widely employed in Celtic [e.g. Gaul Catu-rīx] and Germanic [e.g. OHG Hadubrant] personal names | | | Conflict | JPM |
| *kau(k)- | cry out cry out as a bird | Skt káuti 'cries out' Lith kaukiū 'howl' Grk kōkúō 'cry, lament' Arm k'uk' 'sighing, groaning' Skt kokūyate 'cries out' NWels cuan 'nightowl' Lat cavannus 'nightowl' OHG hūwo 'owl' Grk kêks 'tern' Skt kóka- 'kind of goose' | | | | Animal Noises | JPM |

Sheet1

| | | | | | | | |
|-------------|------------------|--|--|--|---|----------------------|-------------|
| *kaulós | ± cabbage | Lat caulis 'stalk of the [cabbage] plant' Grk kaulós 'cole, kail, cauliflower' Hit kaluis(sa)na 'some sort of vegetable' | Confined to the Mediterranean | | | Plants | JPM |
| *kaulós | stalk | Lat caulis 'stalk' OPrus caules 'thorn' Lith káulas 'bone' Grk kaulós 'stalk' | West-Central | | | Plants (Wild) | JPM |
| *kaunos | humble, lowly | OE hēan 'lowly, despised' Latv kàuns 'shame, disgrace' Grk kaunós 'bad, evil' | West Central | | | Love & Hate | JPM |
| *ké(n)s- | declare solemnly | Lat cēnseō 'proclaim solemnly, judge, assess, estimate, tax' OE herian 'praise' Av səŋghaiti 'proclaims' Skt śāmsati 'recites, praises, declares, vows' | | | | Formal Speech & Song | JPM |
| *ked- | ± pass through | Lat cēdō 'go from' Toch AB kātĕ- 'cross over' | | ? | | Come & Go | JPM |
| *kēh : - | declare solemnly | Alb thotē 'says' OPers θātiy 'says, proclaims' | with a present *kēh : ti | | | Formal Speech & Song | JPM |
| *kēh : kom | edible greens | ON hā 'aftermath, second cutting of hay' Lith šėkas 'green fodder' Skt śāka- 'potherbs, vegetables' | | | | Plants | JPM |
| *kēh : s- | instruct | Av sāh- 'say instruct, call' Skt śāsti 'punishes, controls, commands, instructs' Toch A kās- 'chide, reprimand' | Indo-Iranian-Tocharian isogloss from *kēh : - 'declare solemnly' | | | Formal Speech & Song | JPM |
| *keh : -mo- | wish | | | | 'to accept a wish': Skt. kāmam étya (RV 10.066.14) — OAv. kāmahiā ... itē (?) (Y 43.13) 'to grant a wish': Skt. kāmam ā pr̥ṇa (RV) — OAv. pərənā ... kāmam (Y 28.10) | | IIAL |
| *kēh : u- | burn | TochB kaum 'day' Grk kaíō 'burn' | | | | Fire | JPM |
| *keh □ - | love | Av kā- 'long for' Skt kāyamāna- 'liking' OIr cara 'friend', caraid 'loves' Lat cārus 'dear' NE whore | | Present IV: kāyamāna- [ptc.med.] (RV 03.009.02) Perfect: (ā) cake [3sg.med.] (RV) cakānā- [ptc.med.] (RV) | | Love & Hate | JPM IIAL |

Sheet1

| | | | | | | | |
|-----------|-----------------|---|--------------|--|--|----------------------|-----|
| *keh□des- | ± concern; hate | <p> Mlr cais 'hate' NE hate Grk kēdos 'care, concern, sorrow' Av sādra- 'grief' Skt ri-śādas- 'caring for a stranger' </p> | | | | Love & Hate | JPM |
| *keh□k- | jump | <p> Lith šókti 'jump, dance' Grk kēkíō 'jump' </p> | Baltic-Greek | | | Run & Jump | JPM |
| *keh□ros | friendly | <p> OIr cara 'friend' Lat cārus 'friend' NE whore Latv kārs 'greedy' </p> | North-West | | | Family | JPM |
| *keh□u- | hollow out | <p> Lat cūpa 'cask' Grk (Hesychius) kūpē 'cave' Skt kū pa- 'hole, hollow, cave' Enlarged with *-l- Lat caulis 'stalk' NE hollow Grk kaulós 'stalk' Lith káulas 'bone' Skt kúlyam 'bone' ?Hit gullant- 'hollow?' </p> | | | | Reductive Activities | JPM |
| *keh□u- | strike, hew | <p> NE hew Lith káuja 'strikes, forges' OCS kovq 'forge' Toch B kau- 'strike down, kill, destroy' </p> | | | | Conflict | JPM |
| *keh□(i)- | sharpen, hone | <p> Skt śísāti □ śyāti 'sharpens, whets' Lat catus 'wise' Grk kónos 'pinecone, fircone' peak of a helmet' [if < *sharp(ened) object'] Skt śāṇa- 'whetstone' Toch B kāntsā- 'sharpen' Arm srem 'sharpen' NE hone </p> | | | | Reductive Activities | JPM |
| *keh□i- | hot | <p> NE hot Lith kaĩsti 'heat, become hot' </p> | North-West | | | Qualities | JPM |
| *kei- | set in motion | <p> Lat cieð 'set in motion' Grk seúō 'set in motion' Arm c'vem 'set off' Av š(y)avaite 'sets off' Skt cyávate 'goes forth' Alb qoj means 'wake' </p> | | | | Movement | JPM |

Sheet1

| | | | | | | | |
|---|----------------------------|--|--|---|--|-----------------|-------------|
| * <i>kei-</i> | lie | Grk <i>keimai</i> 'lie' Hit <i>kittari</i> 'lies' Av <i>saēte</i> 'lies, rests' Skt <i>śāye</i> 'lies' | Conjugated in the middle rather than the active voice and in poetic language the word is also used to indicate the position of the deceased (e.g. Homeric Grk <i>keiutai</i> <i>Pátroklos</i> '[here] lies Patroclus'). {1} [LK] <i>śiyate</i> 'falls' may belong to this root as its dynamic present (Lubotsky apud Kulikov 2001: 329ff.) see also <i>śyā</i> . | Present II: <i>śāye</i> [3sg.med.(stat.)] (RV+) <i>śāyāna-</i> [ptc.pres.med.] (RV) <i>*śayīta</i> [3sg.opt.med.] (AVP 8.15.5) <i>śére</i> [3pl.med.(stat.)] (AV+) <i>śéte</i> [3sg.med.] (Br.+) <i>vi śerām</i> [3pl.impv.] (AVP 2.73.3) Present IV: <i>śiyate</i> [3sg.med.] 'falls' (AV+) {1} Aorist IS: <i>aśayiṣṭhās</i> [2sg.med.] (RV 10.124.01) <i>śéṣan</i> [3pl.subj.act.] (RV 01.174.04) Perfect: <i>śaśayāná-</i> [ptc.med.] (RV+) Inf: <i>śayádhyai</i> (RV) TA-Ptc.: <i>á-ni-śita-</i> 'restless' (RV+) | | Placement Verbs | JPM |
| * <i>kei</i> (h□) * <i>keig^h-</i> | lie, be somewhere fast | OE <i>hīgian</i> 'hasten' [> obsolete or archaic NE <i>hie</i>] Rus <i>sigátī</i> 'spring' Skt <i>sīghrá-</i> 'quick, fast' | North-West | | | Time | IIAL JPM |
| * <i>keir-</i> | dull or brownish black | OIr <i>cīar</i> 'dark brown' NE <i>hoar</i> OCS <i>sěru</i> 'grey' Alb <i>thirr</i> 'soot' Grk <i>kíraphos</i> 'fox', <i>kírrós</i> 'orangy' | West Central | | | Color | JPM |
| * <i>kéiws</i> | belonging to the household | Lat <i>cīvis</i> 'citizen' Oscan <i>ceus</i> 'citizen' OE <i>hīwan</i> 'household' Latv <i>sieva</i> 'wife' Skt <i>śivá-</i> 'kind, auspicious, dear' Shiva | Some derive this word from * <i>k</i> ~ <i>éi-</i> 'lie', i.e. either 'those who lie together (in sleep)' or 'those who depend on one another' | | | Family Dwelling | JPM |

Sheet1

| | | | | | | | |
|-----------|----------------|--|--|--|--|----------------------|------------|
| *keĳ- | polecat | Lith šėškas Skt káša- | Baltic and Indic only | | | Fauna | JPM |
| *kel- | deceive | Lat calvor 'calvō 'deceive' OE hōl 'slander' Grk kēlēō 'bewitch, deceive' | West Central | | | Values | JPM |
| *kel- | drive | Lat celer 'swift' Grk kēllō 'drive a ship to land' Skt kaláyati 'impels' NE hold Gothic haldan 'pasture cattle' Toch B kálts- means 'press, goad, drive' | | | | Convey | JPM |
| *kel- | prick | NE holly OCS klasŭ 'ear of grain' Toch B klese 'barley meal' Alb kallí 'straw, chaff' Skt kaṭamba- 'arrow' | It may be related to the homophonous root *kel- 'cut' | | | Reductive Activities | JPM |
| *ĳel- | conceal, cover | Olř ceillid 'conceals, dissembles' Lat cēlō 'conceal' OE helan 'conceal' Grk kalúptō 'cover' | West Central {1} [AL] Khot. śaraima 'covering' (KT2 47.5), cited by Bailey (DKS: 395b), does not exist: śaraima is to be interpreted as śarai ma (Cheung, p.c.). | | | Motion | JPM IAL |
| *kel(h□)- | lift, raise up | Lat ante-cello 'surpass' Grk keléontes 'vertical beams in an upright loom' Lith kėlti 'raise up' Toch AB kály- 'stand' NE hill | | | | Convey | JPM |
| *ĳel(h□)- | ± (spear)point | ONhali 'point of shaft, tail' OPrus kelian 'spear' Alb theł 'big nail, spike', Grk kēla [pl.] 'arrowshafts' Skt śalyá- 'spear, arrowhead' | | | | Weapons | JPM |
| *ĳelb- | help | NE help Lith šelpiũ 'help, support' | North-West | | | Being & Doing | JPM |
| *kelh ı- | call out to | Olř cailech 'cock' Skt uṣā-kala- < *'dawn-singer' Lat calendae 'the first days of the month on which the ides and nones were announced' Grk kaléō 'call', kalētōr 'herald' ON hjala 'chatter, talk' Latv kal uōt 'chatter' Hit kalless- 'call' | | | | Speech | JPM |
| *kelh ı- | strike | Lat calamitās 'loss, injury, damage, misfortune' [> by borrowing NE calamity] Lith kalũ 'strike, forge' OCS koljō 'stab, slaughter' Grk keleós 'green woodpecker' | West Central | | | Conflict | JPM |
| *kelp- | jug, pot | Olř cilom 'pitcher' Grk kálpis 'jug, [water] pitcher' ?Skt karpara-'cup, pot' | West Central | | | Containers | JPM |

Sheet1

| | | | | | | | |
|--------------------|------------------|---|--|--|--|----------------|-------------|
| *kēls | (store)room | Lat cella 'storeroom' Grk kalīā 'hut' NE hall (a derivative) | It would appear to derive from *kel- 'protect, conceal' | | | Dwelling | JPM |
| *kelto- | cold | Lat calidus 'warm, hot' Welsh clyd 'sheltered, warm, snug' Lith šáltas 'cold' Av sarəta- 'cold' Skt śísira- 'cold season' | | | | Qualities | JPM |
| *kem- | ± press together | NE hamper Lith kamúoti 'press together' Rus komítī 'press into a ball' Grk kómos 'band of revellers (=crowd)' Arm k'amel 'press, squeeze, filter' | West Central | | | Bend and Press | JPM |
| *kem- | hum | NE hum Latv kamines 'bee, bumble-bee' Rus cmelī 'bumble-bee' | North-West | | | Animal Noises | JPM |
| *kem- | love | Lith kamaros [pl.] 'lasciviousness' Skt kāmáyati 'longs for, is in love with, copulates with' Toch B kāmim- 'play' | | | | Love & Hate | JPM |
| *kēm- | cover | Late Lat camīsia 'linen shirt, nightgown' (perhaps borrowed from Gaulish) OE hama 'dress, covering' Skt śāmūla- 'thick woollen shirt' | | | | Motion | JPM |
| *kēm- *kēm(h□)- | hornless | Skt śāma- 'hornless' NE hind Grk kemás 'young deer' OPruss camstian 'sheet' Rus konī 'horse' | | | | Fauna | JPM IIAL |
| *kemos | ± hellebore | OHG hemera 'hellebore' Lith kemė-ras 'marigold' ORus čemerŭ 'hellebore' Grk kámaros 'larkspur' | West Central hellebore and larkspur are poisonous (SGM) | | | Plants (Wild) | JPM |

Sheet1

| | | | | | | | |
|----------|--------------------------|--|--|--|--|-----------------|----------|
| *kēmh□- | grow tired, tire oneself | Mlr cuma 'grief' Grk kámnō 'be tired, work hard at' Skt śāmyati 'becomes quiet, fatigues, ceases' | | Present IV: śāmyati [3sg.act.] (AVP+) Present ĀYA: śamāyate [3sg.med.] (RV) Aorist R: śamīṣva [2sg.impv.med.] (TS+) Aorist IS: śśamiṣṭhās [2sg.med.] (RV 03.029.16), śśamiṣṭa [3sg.med.] (RV 05.002.07) Perfect: śśamé [3sg.med.] (RV), śśāma [3sg.act.] (Br.+) śśamāna- [ptc.med.] (RV+) Caus: śamáy° 'to make peaceful, appease to slaughter (a sacrificial animal)' (AV+) Aorist RED: aśīśamat [3sg.act.] (AV+) TA-Ptc.: śāntá- 'soothed, extinguished' (AV+) | | Health&Sickness | JPM IIAL |
| *ken- | fresh | Mlr cana □ cano 'young animal [of wolf, dog, etc.]' Lat recēns 'fresh, just arrived' [> by borrowing NE recent] OCS začēti 'begin' Grk kainós 'young' ?Skt kañīna- 'young' | | | | Health&Sickness | JPM |
| *ken- | love | Mlr cin 'love, tendency' Av čanah- 'demand, request' Skt cānas- 'pleasure' | | | | Love & Hate | JPM |
| *kenh□is | ash | Lat cinis 'ash' Grk konis 'dust, ash' Toch B kentse 'rust, verdigris' | | | | Fire | JPM |
| *kenk- | ± hock, back of knee | NE hock, Lith kenklė 'hock, back of the knee' Skt kankāla- 'bone, skeleton' | | | | Body (Lower) | JPM |

Sheet1

| | | | | | | | |
|-------------------------------|---|---|--|----|--|-----------------|-------------|
| *kenk- | gird, wrap around | Lat cingō 'gird, surround' Lith kinkaũ 'bridle, harness [a horse]' Skt kâñcate 'bind' kâñci- 'girdle' | | | | Textiles | JPM |
| *kenk- | hunger | NE hunger Lith kankà 'pain, torment' dialectal Grk kégkei 'is hungry' | West Central | | | Food & Drink | JPM |
| *kênt- | sharp | Goth handugs 'wise' Latv sîts 'hunting spear' Grk kentéō 'prick' | | | | Shape | JPM |
| *kéntr/n- | ± patch, patched garment | Lat centō 'patchwork clothes' OHG hadara 'patches' Grk kéntrōn 'patched clothes' Arm k'ot'anak 'clothes' | West Central | | | Textiles | JPM |
| *ker- | burn | Goth haúri 'coal' ON hyrr 'fire' OE heorþ, whence NE hearth Lith kúrti 'heat' OCS kuriti sę 'smoke' *kr-em- in Lat cremō 'burn' perhaps *ker-s- if Skt kaṣāku- □ kuṣāku- 'fire, sun' | | | | Fire | JPM |
| *ker- | caw | Lat corvus 'raven' Grk kóraks 'raven' Skt karāta- 'crow' Czech krákorati 'cackle' Grk skorakízō 'dismiss contemptuously' | | | | Animal Noises | JPM |
| *kér- | decay | Olr ara-chrín 'decays' Lat cariēs 'decay' Skt śíryate 'decays' Alb ther 'slaughter, stab, goad' Grk keraĩ'zō 'devastate, kill' Av a-sarəta- 'unbroken' | | | | Conflict | JPM |
| *kér- | grow | Lat creō 'create' Grk korénnūmi 'satisfy', kouřos 'adolescent' Arm sirem 'bring forth' Tocharian kârk- 'sprout' | Latin goddess Cerēs derives from this root | | | Vital Functions | JPM |
| *kér- *kr-wos | greyish blue, | Lith širvas □ širmas 'blue-grey' Alb thjermë '(blue-)grey', surmë 'dark grey, black' Skt śārā- 'coloured' | | | | Color | JPM |
| *kér(es)- | ± (rough) hair, bristle | NE hair Lith šřys 'bristle, animal hair' Rus řerstř 'wool, animal hair' | | | | Hair | JPM |
| *kér(h□)-o-b'o- *kér(s)no- | horned animal hoarfrost, frozen snow | Lith šarmà 'frost' Rus sėren 'frozen snow' Arm sařn 'ice' | | | | Water | IIAL JPM |
| *kérberos | spotted | | Would seem to underlie the names of both the Greek hound of Hades Kérberos and the epithet (śárvara-) of one of the dogs of Yama, the Indic god of the dead. | ?? | | Dieties | JPM |

Sheet1

| | | | | | | | |
|-----------------------------------|--------------------------------------|--|---|---|--|----------------------|-----------------------|
| *kērd *kr̥dyeh□- | heart | Olr cride Lat cor NE heart Lith širdis Rus sérdce Grk kēř, kardíāñ Arm sirt Hit kir Av zərəd- Skt hr̥ṣṭ, hr̥ṣṭaya- Toch B kāryāñ [pl.] | {1} *jh- must be due to contamination with another word. The original *č- is preserved in śraddhā-. | nom.acc.sg. hārdi, gen.sg. hr̥dās, loc.pl. hr̥tsú | | Organs | JPM IIAL Beekes |
| *kerd- | ± defile, defecate | Lat mūs-cerda 'mouse droppings', bu-cerda 'cattle dung' MPers xard 'clay' Shughni šarθk- 'defecate' Skt kardama- 'mud, slime, mire, dirt, filth' Toch B kārkkälle 'swamp, mire' | | | | Vital Functions | JPM |
| *kerd- | belt | Olr cris 'belt' Rus čéres 'leather belt' | North-West | | | Textiles | JPM |
| *kerd- | cut into, carve | Olr cerd 'art, handicraft' Grk kērdos 'profit' | West Central | | | Reductive Activities | JPM |
| *kerd- *kerd ^h eh□- | profit, wealth, gain herd, series | Gr. kērdos 'gain, profit' NE herd Lith (s)keřdžius 'herdsman' OCS črēda 'herd, series' | North-West | | | Measure & Quantity | Celt. JPM |
| *kērdos | craft | Olr cerd 'craftsman' NWels cerdd 'song, poem craft' Grk kērdos 'profit' but in the plural it means 'cunning arts craft' | West Central | | | Occupations | JPM |
| *kéres- | millet, grain | NHG Hirse 'millet' Kalasha karasha 'millet' Lat cerēs 'bread, grain' | | | | Plants | JPM |
| *kergh- | bind | Lith keřgti 'tie, bind' Toch AB kārkh- 'bind' | | | | Binding | JPM |

Sheet1

| | | | | | | | |
|----------|--------|---|--|---|--|--------------|-----------------------|
| *kérh₂ | break | | {1} [LK] With the secondary suffix accentuation (see Kulikov 1998). {2} [LK] The 3sg.med. form šašire (AVP), allegedly an archaism (< *ča-črH-?), does not exist see Kümmel 2000: 518. | Present IX: śrñāti [3sg.act.] (RV) Present IV: śīryate [3sg.med.] (RV 01.164.13 +), śīryate [3sg.med.] (ŚB = BĀU), śīryáte [3sg.med.] (MS, KS) {1} Aorist IS: aśarīt [3sg.act.] (AV+) Aorist mediopass: śāri [inj] (RV) Perfect: śaśré [3sg.med.] (AV, ŚB) {2} na-ptc.: śīrñá- 'broken' (AV+) TA-Ptc.: a-śīrta° 'unharméd' (KS+) śūrtá- 'smashed, crushed (?)' (RV 01.174.06) Inf: śārītoḥ (RV) | | | IIAL |
| *kérh₂s | horn | Grk kēras Toch B karse 'stag' [< *'horned one'] | | | | Fauna | JPM |
| *kérh₂sr | horn | Lat crābrō 'hornet' Lith širšuō 'hornet' Toch B krōriya 'horn' | | | | Fauna | JPM |
| *kerh□- | propel | Skt kirāti 'pour out, throw' Toch B kārsk- 'propel' | Indo-Iranian-Tocharian isogloss | | | Movement | JPM |
| *kerh□- | mix | OE hrēran 'move, stir' Grk kirmēmi 'mix' Av sar- 'associate with, mix with' Skt śrīñāti 'mixes, mingles' | | | | Food Prep | JPM Beekes IIAL |
| *kerk- | hen | MLr cerc 'brood hen' Grk kērkos 'rooster' (dialectal) Av kahrka- 'hen' Skt kr̥kara- 'a kind of partridge' Skt kr̥kavāku- 'rooster' Toch B krañko 'chicken' | Obvious is the suggestion that the name of the bird may be onomatopoeic (compare NE cluck) and so its reconstruction is not entirely certain | | | Bird | JPM |
| *kērmēn- | skin | OPrus kērmens 'body' Av čareman- '[animal] skin, leather' Skt cārman- 'skin' | derives from the verb *(s)ker- 'cut (off)'. | | | Body (Upper) | JPM |

Sheet1

| | | | | | | | |
|----------------------|----------------|--|--|---|--|-------------|---------------|
| *kerp- | pluck, harvest | Mlr corrān 'sickle' Latv cīrpe 'sickle' Skt kṛpānī 'sword' Lat carpō 'pluck' Grk karpós 'fruit' NE harvest OE hoerfest 'autumn' | from *(s)ker- 'cut' | | | Agriculture | JPM |
| *kers- | plow | | {1} Skt. kaṣ- is a popular form of karṣ. | Present I: apākaṣan [3pl.impf.act.] (AV 10.7.20) | | | IIAL |
| *kers- | run | Lat currō 'run' MHG hurren 'hasten' Grk epíkouros 'running for help' Olr carr 'vehicle' | | | | Run & Jump | JPM |
| *kert- | knife | Skt kṛtī- Av kərəti both 'knife' Toch B kertte 'sword' | | | | Weapons | JPM |
| *kert- | plait, twine | Lat crātis 'wickerwork, hurdle, honeycomb' NE hurdle OPrus cortō 'hedge' Grk kártallos 'basket', kurtía 'wattle' | | Present VII: út- krṇatti [3sg.act.] (RV 10.130.02) krṇātti [3sg.act.] (AV, TS+) | | Textiles | JPM IIAL |
| *kert-tro- | spindle | | | also cāt(t)ra- | | | IIAL |
| *kes- | comb | Mlr cīr 'comb' Lith kasà 'braid' OCS kosa 'hair' Hit kiss- □ kisā(i)- 'comb' Grk ksainō 'scrape, comb [hair or wool], full [cloth]' OE heordan [pl.] 'hards [of flax], tow' | | | | Textiles | JPM Beekes |
| *kēs(k)eh□- | time | OCS c̣asŭ 'time' Alb kohē 'time, period, epoch weather' | West Central | | | Time | JPM |
| *ket- | room | OE heaðor 'enclosure, prison' OCS kotīci 'chamber' Av kata- 'chamber' Av čāiti 'in a hole' Skt cātvala- 'hole for the sacrificiafiWre' Toch B kotai- 'hole' | Refers to a single chamber and was borrowed into the Uralic languages, e.g. Finnish kota 'dwelling, tent, hut'. It may be that the 'chamber' was originally something like a 'storage pit' | | | Dwelling | JPM |
| *ket- | be angry | Grk kótos 'spite, anger' Skt śātru- 'enemy' | Greek-Indic isogloss | | | Values | JPM |
| *keudes- | magic force | OCS čudo 'wonder' Greek kúdos 'renown' | Slavic-Greek Isogloss | | | Sacred | JPM |
| *kéud ^h - | hide | NE hide Grk keúthō 'hide' Arm suzanem 'hide' after metathesis into *d ^h euḱ - OE dēagol 'secret, hidden' Toch B tuk- 'be hidden' | | | | Conflict | JPM |

Sheet1

| | | | | | | | |
|-------------------------|------------------------------|---|--|---|--|----------------------|--------|
| *kéuh ₁ - | swell, grow great with child | Lat inciēns 'pregnant' Grk kuéo 'am pregnant' Skt śváyati 'swells, becomes powerful' NWels cawr 'giant' Grk kú rios 'lord' Av sú ra- 'powerful' Skt śūra- 'powerful' | | | | Blow Up | JPM |
| *kéuh□- | hollow out | Mlr cūa 'hollow' Lat cavus (Early Lat covus) 'cave' Alb thellē 'deep' Grk kúar 'eye of a needle' kollos 'hollow, deep' Arm soyl 'hole' Skt śūnya- 'empty, hollow' Toch B kor 'throat' | | | | Reductive Activities | JPM |
| *kéuh□ | hernia | OE hēala Lith kũ las Rus kilá Grk kālē Oss k'ullaw | The word itself apparently derives from *keuhx- 'be bent (convexly)' | | | Health&Sickness | JPM |
| *keuk- | be crooked, bend | | | Present VI: ut-kucant- [ptc.act.] (KauśS) | | | IIAL |
| *kéuk- | cry out (to) | Lith šaukiù 'call, cry, shout summon' Toch B kuk- 'call out to' | | | | Speech | JPM |
| *kéuk- | shine, burn | Av suč- 'burn, flame' Skt śócate 'shines, glows, burns' Toch B šukye 'shining' grk kúknos 'swan' | | | | Light & Dark | JPM |
| *keul- | pig | Lith kiaūle 'pig' | [MWels Culhwych, a mythological Wgure associated with swineherds and boarhunting] | | | Fauna | JPM |
| *keus- | hollow out | Lith kaūšti 'hollow out' ON hauss 'skull' Lith káušas 'skull, ladle' Skt koṣa- 'vessel' NE house Arm xuc' 'room' Khot kūšda- 'mansion' Toch B kušā- 'village' [<*'collection of dwellings'] | Suggests that one type of Proto-Indo-European dwelling was at least partially dug below ground level | | | Reductive Activities | JPM |
| *kew- | gull ? | Gr. kaúaks 'gull' | | | | | Celt. |
| *kéwh ₁ -ro- | strong | Skt. śávīra- 'strong' Gr. kýrios 'lord'. | | | | | Celt. |
| *kh ₁ -s- | hare | | | | | | Beekes |
| *k ^a -a- | laugh | Lat cachinnō 'laugh' OE ceahhettan OCS chochotati Grk ka(g)kházō Arm xaxank Skt kákhati □ khákkhati | | | | Human Sounds | JPM |

Sheet1

| | | | | | | | |
|---------------|-------------------------------|--|--|--|--|-----------------|--------|
| *kh□ónks | honey-coloured, golden | Lat canicae [pl.] 'bran' Grk knēkós 'pale yellow' Skt kánaka- 'gold' NE honey Toch B kronkše 'bee' | | | | Meals | JPM |
| *kh□m(-s)- | be fatigued, sleepy | Skt klām(y)ati 'becomes weary, fatigues' Toch B klānts- 'sleep' | Indic-Tocharian isogloss | | | Health&Sickness | JPM |
| *kieu- | move, go | | {1} [AL] OAv. šauuaitē (Y 29.3) can hardly be 3pl.pres., as is often assumed, rather an infinitive (Insler 1975: 149). | Present I: cyávam [1sg.subj./inj.act.] (RV 01.165.10) cyavante [3pl.med.] (RV+), cyávāna- [ptc.med.] (athematic!) (RV 10.115.06, usually PN) Aorist S: cyoṣṭhās [2sg.inj.med.] (RV 10.173.02), acyoṣṭa [3sg.med.] (AB+) Perfect: cicyuṣé [2sg.med.] (RV 04.030.22), cucyuvé [3sg.med.] 'has undertaken' (RV 08.045.25) Caus: cyāváyati [3sg.act.] 'to make stir' (RV+) Aorist RED: ácucyavuh [3pl.act.] (RV, AVP), ā- cucyuvīmáhi [1pl.opt.med.] (RV) TA-Ptc.: cyutá- 'movable, shaken' (RV+), á-cyuta- 'unshakable' (RV+) | | | IIAL |
| *kieu- | set into motion, be in motion | | Long grade. Wierd, huh? | | | | Beekes |
| *kih□won- | pillar, post | Grk kíōn Arm siwn | | | | Construction | JPM |
| *kik'-(y)eh□- | jay | Italian cissa OE hig(e)ra Grk kíssa Skt cisa- 'roller' | | | | Bird | JPM |

Sheet1

| | | | | | | | |
|----------------------------|----------------------------|--|--------------|--|--|---------------|-------|
| *kíker- | chickpea | Lat cicer 'chickpea' Maced kíkerroi 'birds' pease' Arm sisen 'chickpea' | | | | Plants | JPM |
| *kís | this (one) | Olř cē 'here, on this side' Lat cis 'on this side of' OE hē 'he' [> NE he] Lith šis 'this [one]' OCS sī 'this (one)' Alb sot (< *k`yeha-dihxtei) 'today' Grk sētes (< *k`yeha-wetes) 'in this year' Hit ki 'this' | | | | Pronouns | JPM |
| *kla(n)g- | scream (of birds) | Lat clangō 'cry [of birds]' ON hlakka 'cry [of an eagle]' Lith klage, 'ti 'cackle' Grk klázō 'resound' Grk klaggōdēs 'shouting, screaming [of people and birds], barking or baying [of dogs]' | West Central | | | Animal Noises | JPM |
| *kleh ːro- | board, slat, lot? | Gr. klēros 'lot, piece of wood for casting lots' | | | | | Celt. |
| *kleh□- | spread out flat | Lith klóju 'spread out' NE lade OCS kladō 'load, lay' | North-West | | | Extend | JPM |
| *kleh□d ^h reh□- | alder | NHG Lutter 'mountain alder' Grk klēthrā 'stickyalder' | | | | Trees | JPM |
| *kleh□wis | bolt, bar (wooden) hook | Lat clāvis 'bolt, key' Grk kleís 'bar, bolt' | West Central | | | Tools | JPM |

Sheet1

| | | | | | | | |
|----------|---------------|--|---|---|--|-----------------|-----|
| *k̑ei- | lean | Lat clīvus 'slope' NE lean Lith šliēti 'lean against' Rus sloj 'layer, level' Grk klīnō 'cause to lean' Av sray- 'lean' Skt śráyate 'clings to, leans on' Toch B klāsk- 'set [of sun]' Olr clē 'left' Lat clīvis 'inauspicious' | {1} [LK] According to Narten 1964: 259f., a rebuilding of the root aorist áśret, rather than an authentic sigmatic aorist. {2} The original present formations were an intransitive thematic (middle) *k̑ei-e- and a transitive nasal present. | Present I: śráyate [3sg.med.] (RV+) Perfect: śíśráya [3sg.act.] (RV+), śíśriyé [3sg.med.] (RV+) Aorist R: áśret [3sg.act.] (RV) Aorist S: śreṣāma [1pl.subj.act.] (RV 04.043.01), áśrait [3sg.act.] (AV 13.2.9) {2} Fut: śrayiṣy ° (Br.+) Caus: úc-chrāpaṃ 'to raise up' (VS+) TA-Ptc.: śritá- 'attached (to something), leaning (on something), fixed' (RV+) | | Placement Verbs | JPM |
| *kléinus | maple | OE hlīn Lith klēvas Rus klēn Maced klínó(s)trokhos Grk glīno- 'a type of maple' ? | | | | Trees | JPM |
| *kleng- | bend, turn | Lat clingō 'gird' NE link 'chain' Toch B klenke 'vehicle/way of arriving at knowledge' Toch B klānk- 'doubt' | | | | Bend and Press | JPM |
| *klep- | ± lay hand to | NE helm, halter OPrus anklipts 'concealed' Toch AB kālþ- 'find, get, achieve, obtain' Toch B klep- 'touch with the hands, investigate, test' v. 'steal' Goth hlīfan Grk kléptō Toch B kālyp- | | | | Sensation | JPM |
| *k̑eu- | clean | OLat cloāca 'gutter' OE hlūttor 'clean' Lith šlúoju 'sweep' Grk klúzō 'wash' | West Central | | | Clean | JPM |

Sheet1

| | | | | | | | |
|--|---------------------|---|--|--|--|----------------------|--------|
| *kléu- | hear | Olr ro-cluinethar 'hears' Lat clueō 'am called' Goth hliuma 'hearing' OCS sluti 'be called' Alb quaj 'call, name consider' Grk kléō 'tell of, make famous' Arm Isem 'hear' Av surunaoiti 'hears' Skt śrñōti 'hears' Toch B klautso 'ear' | | | | Sensation | JPM |
| *kléuos-nd ^h g ^{wh} itom | fame (immortal) | | | | | | Beekes |
| *kleus- | hear | Olr clūas 'ear' NE listen Lith klausāū 'I hear' OCS slyšati 'hear' Messapic klaohi 'hear!' Skt śrōṣati 'hears' Toch B klyaus- 'hear' *klūtōs > NE loud. | | | | Sensation | JPM |
| *kléutrom | a sound | OE hlēodor 'sound' Av sraoθram 'song' Skt śrōtra- 'tone' | | | | Human Sounds | JPM |
| *kléwes- | fame | Olr clū 'fame' Lat cluor 'glory' OCS slovo 'word' Grk klēos 'fame' Av sravah- 'word' Skt śrávas- 'fame' Toch B -kālywe 'fame' | | | | Formal Speech & Song | JPM |
| *kléwesh- ₁ -h ₂ nróm | famous deeds of men | | | | | | Beekes |
| *klh□-ro-s | plank | Olr clār 'plank' Grk klēros 'piece of wood used for casting lots' | from *(s)kel- 'strike, hew' | | | Construction | JPM |
| *klh□wos | bald | Lat calvus Av kaurva- Skt āti-kūrva- NE callow Rus gólyj 'bare' | {1} [AL] There are also a couple of Vedic words of a similar meaning with initial kh-: khalatī- [adj] 'bald-headed' (AVP+), khālatya- [n] 'baldness' (AV) cf. also kharvā- [adj] 'mutilated, deformed' (AV+ á-kharva- RV 07.032.13+), but they can hardly be related. Also NP kal [adj] 'bald' must be of a different origin. The relationship of *klHuo- and *golHuo- 'bald', attested in Germanic (OHG kalo) and Balto-Slavic (OCS goľь 'naked', Lith. galvā, Ru. golová 'head') is unclear. | | | Health&Sickness | JPM |
| *klīts | post, trimmed log | Olr clī 'housepost' OE gehlid 'fence' [< **string of posts]) Grk klīta 'cloister' [< **arcade' < **series of posts'] Skt śrit- 'ladder' | | | | Construction | JPM |

Sheet1

| | | | | | | | |
|-----------------------|-----------------------|---|--|--|---|-----------------|---------------|
| *k nos | callosity | Lat callus 'callosity' [> borrowed in NE callus] Skt kīṇa- 'callosity' | From *kal- 'hard' | | | Health&Sickness | JPM |
| *klóunis | ± haunch, hip | NWels clun 'haunch' Lat clūnis 'buttocks, haunch [of animals]' ON hlaun 'buttocks, loin' OPrus slaunis 'hip' ?Alb qēnjē 'belt' Grk klónis 'os sacrum' Av sraoni- 'buttock' Skt śróṇi- 'buttock, hip, loin' | | | broad-hipped': Skt. pr̥thú-śróṇi- [adj] | Body (Lower) | JPM IAL |
| *k tér | knife | Lat culter '(butcher's) knife' Skt kuthāra- 'axe' | ? | | | Weapons | JPM |
| *klun- | resound | OE hlynn 'sound, noise, roaring stream' Toch AB kālñ- 'resound' | Germanic-Tocharian isogloss | | | Human Sounds | JPM |
| *kémh□- | made, prepared | Grk -kmētós 'made, worked' Skt śamitá- 'prepared' | From *kémh□- whose transitive meaning is 'work' and intransitive is 'become tired'. | | | Being & Doing | JPM |
| *kémh₂-e/o- | tired | | | | | | Beekes |
| *kémh₂-to- | which has cost labour | | | | | | Beekes |
| *km̥h□ros | crayfish | Grk kámaros 'lobster' ON humarr 'lobster' | | | | Bug | JPM |
| *km̥h□p-h□- | drone | OHG humbal Grk kēphēn | | | | Bug | JPM |
| *knab(h)- | pick at, tease out | NWels cnaif 'fleece' Lith knabėnti 'to pick/peck at' MDutch noppe 'nap, pile' [borrowed into NE as nap] Grk knáphō 'full (cloth)' | Our only possible linguistic attestation of the concept of 'fulling' wool, i.e. felting an already woven fabric. | | | Textiles | JPM |
| *knei-g ^{wh} | lean | Lat cōnīveō 'blink' Goth hneiwan 'bow' | North-West | | | Placement Verbs | JPM |
| *kneu- | nut | Olr cnū 'nut' Lat nux 'nut' NE nut | | | | Trees | JPM |
| *knt- | by, along | | | | | | Beekes |
| *ko(m) | with, side by side | Olr com- 'with' Lat cum 'with' OCS kŭ 'toward' Skt kām 'toward' | | | | Position | JPM Beekes |
| *ko(n)gos | hook | Mlr alchaing 'weapon rack' NE hook Rus kógotī 'claw' Hit kagas 'tooth' | | | | Tools | JPM |
| *kob- | fit, suit, accomplish | Olr cob 'victory' ON happ 'chance, luck' > NE happy OCS kobī 'divination' | North-West | | | Being & Doing | JPM |

Sheet1

| | | | | | | | |
|--------------|-------------------------|---|--|--|------|---------------------|-----|
| *kobom | success | Olr cob 'victory' ON happ 'luck' [NE hap, whence the adjective happy, is related but is a loanword from ON] OCS kobī 'divination' | North-West from *kob- 'suit, fit' | | | Exchange & Property | JPM |
| *ko ġ 'éh□- | goat | OCS koza 'she-goat' Alb kedh 'kid' | Slavic and Albanian | | | Fauna | JPM |
| *kōh , kōh : | (forked) branch | Goth hōha 'plough' Lith šakà 'branch' Rus sokhá '(primitive) plough' Arm c'ax 'branch' NPers šāx 'branch' Skt śākhā 'branch' | Has secondary meanings as 'plough' in a number of languages as primitive ploughs were originally made from forked branches | | | Trees | JPM |
| *kóh□-r, | wax | Lith korýs 'honeycomb' Grk kērion 'honeycomb', kērós 'wax' | | | | Meals | JPM |
| *kóh□ilus | healthy, whole | NE whole Scots dialect hale OPrus kailū-sitkan 'health' OCS cělū 'healthy' dialectal Grk koīlu 'good' | | | | Health&Sickness | JPM |
| *kóh□nos | whetstone, hone | Lat cōs [genitive cōtis] 'whetstone' NE [a] hone NPers san 'whetstone' Skt śāṇa- 'whetstone' | | | | Tools | JPM |
| *koik- | cut hair | Lith káišiu 'scrape, shave' Alb qeth 'cut hair, shear' Skt kéśa- 'head hair' | | | | Hair | JPM |
| *kóimos | household, village | NE home | West Central related to Lat cīvis 'citizen' and words that mean 'dear' in Sanskrit. | | | Dwelling | JPM |
| *koino- | grass | Lith šieñas 'hay' OCS sēno 'hay, fodder, grass' Grk koiná 'hay' | | | | Plants | JPM |
| *koiw-is | ± tube | Lith šeiva 'spool' | | | | Dwelling | JPM |
| *kókolos | splinter | Lith šakalys 'splinter' Skt śákala- 'splinter' | | | | Construction | JPM |
| *kóks-o/eh□- | hollow of (major) joint | Olr cos 'foot' Lat coxa 'hip' OHG hāhsa 'back of knee' Av kaša- 'armpit' Skt kākṣa- 'armpit, loins' Toch B kakse 'loins' | Difficult | | | Body (Upper) | JPM |
| *kók"-r- | manure, dung | | {1} Probably, a derivative of the root *kékw-, found in Lith. šikti 'to shit'. Similar in form and meaning is *sokr-/n- 'manure, dung', cf. Hitt. šakkar, šaknaš, Gr. σκῶρ, σκατός. {2} An original adjective ? | śákr̥ [nom.acc.sg.] (RV+), śaknáḥ [gen.sg.] (AV+), śakná [instr.sg.] (VS+), śakabh | IIAL | | |
| *kók"-r, | excrement, dung, manure | Lith šikù 'defecate' Grk kópros 'dung, manure' Skt śákr̥ 'excrement, dung' | | | | Vital Functions | JPM |

Sheet1

| | | | | | | | |
|-----------------------|---------------------|---|---|---|--|-----------------|-------|
| *kol- | glue | MLG/MDutch hēlen 'stick' Grk kólla 'glue' | | | | Binding | JPM |
| *kolh-ōn | hill | NE hill Lat collis 'hill' Lith kálnas 'mountain' Grk kolónós 'hill' | all derivatives of *kelh- - 'rise, stand' | | | Earth | JPM |
| *kólh□ōm | stalk, stem, straw | Lat culmus 'stalk, stem, straw' OE healm 'stalk, stem, straw' Latv salms 'stalk, stem, straw' Rus solóma 'stalk, stem, straw' Grk kálamos 'reed' Toch A kulmänts- 'reed, rush' | | | | Plants (Wild) | JPM |
| *kolnós | one- eyed | Olr coll 'having lost the right eye' dialectal Grk kellás 'one-eyed' Skt kārṇá- 'one-eyed' | | | | Health&Sickness | JPM |
| *kólsos | neck | Mlr coll 'head, chief' Lat collus OHG hals 'neck' | West Central | | | Head | JPM |
| *kon- | do, make | OWels di-goni 'makes, does' Lat cōnor 'put myself in motion, attempt' Czech konat 'do, achieve' Oss kæn- 'make' Grk diákonos | | | | Being & Doing | JPM |
| *konh₂m | leg | Gr. knēmē 'leg' OE hamm 'ham' | | | | | Celt. |
| *kónh□m | lower leg, shin | Olr cnāim 'leg' NE ham Grk knē mē 'tibia, spoke of a wheel' | West Central | | | Body (Lower) | JPM |
| *kónk- | hang | NE hang Hit kank- 'hang' Skt śaṅkate 'doubts, fears' (as in 'left hanging') Lat cunctor 'delay' < ? 'hang about' | | | | Extend | JPM |
| *kónkh□os | mussel (-shell) etc | Grk kóghkos 'mussel (shell)' Skt śaṅká- '(conch)shell' Latv sence 'mussel' | | | | Bug | JPM |
| *kónkus | a kind of fish | ON hār 'shark' Skt śankú- ? | problematic | ? | | Fish | JPM |
| *kóph₂ós *skeph□o- | hoof | NE hoof Rus kopyto 'hoof' Av safa- 'hoof' Skt śápha- 'hoof, claw' | {1} [AL] For the reconstruction see Lubotsky 2001a: 53, fn. 53. | | | Fauna | JPM |
| *kóph□elos | carp | Lith šāpalas 'chub' Latv šāpalis 'chub, Dvina-carp' Skt śaphara- 'carp' | | | | Fish | JPM |
| *kopso- | blackbird | OCS kosŭ Grk kópsikhos | | | | Bird | JPM |
| *kóris | biting insect | OCS korī 'moth' Grk kóris 'bed-bug' | from *(s)ker- 'cut' | | | Bug | JPM |

Sheet1

| | | | | | | | |
|-------------------------|----------------------|--|--|---|--|---------------------|--------------|
| *korm- | broth, mash? | Lat cremor 'broth, pap' Skt karam-bhá- 'barley porridge, soup' Olr cuirm 'beer' | | ? | | Meals | JPM |
| *kormon- | weasel, ermine/stoat | OHG harmo 'stoat' Lith šarmuō 'wild cat ermine, weasel' | North-Western | | | Fauna | JPM |
| *kóru | horn | Lat cervus 'stag' Lith kárvė 'cow' Rus koróva 'cow' Grk kórudos 'crested lark' Grk koruphé 'crest [of mountain or horse]' Av srva- 'horn claw, talon' | | | | Fauna | JPM |
| *koryonos | leader | | West Central from *koryos 'army' | | | Social Organization | JPM |
| *koryos | people (under arms) | OPers kāra- 'people, army' Lith kāras 'war' Mlr cuire 'troop, host' OE here 'army' Lith kārias 'army' Grk koíranos 'army leader' | | | | Conflict | JPM Celt. |
| *Kos-t- | hunger | Hit kást- 'hunger' Toch B kest 'hunger' | | | | Food & Drink | JPM |
| *kos-trom *kos-d'rom | knife | Lat castrō 'I prune' Alb thadër 'adze' Skt śastra- 'knife, dagger' | From *kes- 'cut' and the instrumental suffix | ? | | Weapons | JPM |
| *kós(V)los | hazel | Olr coll 'hazel' Lat corulus 'hazel' NE hazel Lith kasūlas 'hunter's stick, spear bush' | | | | Trees | JPM |
| *kóss | (Scotch) pine | OE harap 'wood' Khot sara-cara 'Barleria cristata' OE cēn 'torch (of resinous pinewood)' Rus sosná 'pine' Grk kónos 'pinecone', kóna 'pitch', kóneion 'hemlock' Khot sãnã- 'Celosia cristata' | | | | Trees | JPM |
| *kouh . ēi(s) | priest | Grk kōēs 'priest' Lyd kaweś 'priest' Skt kaví- 'seer' | From *(s)keuh - 'perceive' | | | Sacred | JPM |
| *kouh . ros | powerful | Grk kū rios Olr cora(i)d Skt śūra- Thracian name Soura- | | | | Sacred | JPM |

Sheet1

| | | | | | | | |
|---|------------------------|--|--|--|--|---------------------|----------------------|
| *kóuh□r | hole, opening | Lat caverna 'cave' Grk kúar 'eye of the needle, opening of the ear' Skt śúna- 'lack' Toch B kor 'throat' | Heteroclitc (with an original genitive *kuh□nós) | | | Dwelling | JPM |
| *kóunos | red | Rus suníca 'wild strawberry' Skt śóna- 'red' Mlr cūanna 'lovely' NWels cun 'lovely' | | | | Color | JPM |
| *kr(e)u-b ^h - | gather, amass | Grk krúptō 'hide' Toch B kraup- 'gather, amass herd' | Probably does not indicate human assemblage | | | Social Organization | JPM |
| *kr(e)uh ₂ - *kreb- | flesh, blood basket | ON hrip 'packbasket' Lith krėpšas 'large satchel, backpack' Lat corbis Lith karbas Rus kórob | North-West | | | Textiles | Beekes JPM |
| *kred- | framework, beams | NE roost OCS krada 'funeral pile' Shughni xǎǎō 'summer pen for cattle' | | | | Construction | JPM |
| *kred-d ^h eh ₁ - | believe | Olr creitid 'believes' Lat crēdō 'believe' Av zrazdā- 'believing' Skt śrād-dhāti 'believes, has trust in', śrad-dhā- 'faith' | {1} Ir. *jhrad- has introduced *jh- of the word for 'heart' (cf. Skt. hṛd-), whereas Skt. has preserved the original form *kred. | | | Knowledge & Thought | JPM Beekes IAL |
| *kreh ₁ -i- | sift, winnow, divide | Lat. cerno Gr. krínō | | | | | Celt. |
| *krēh ₂ *krh ₂ -os | head | ON hjarsi 'crown of the head' Lat cerebrum 'brain' [< *(marrow) of the head] Alb krye 'head' Grk kārē 'head', karára 'head', krānion 'crown of the head' Av sāra- 'head', sarah- 'head' Skt śiras-'head' Toch B krañiye 'neck' [< *'occiput'] Hit kitkar 'headlong' | | śiras [nom.acc.], obl. cases śiršan- (śirṣṇā [instr.sg.], śirṣnās [gen.abl.sg.], śiršan [loc.sg.], śirśasu [loc.pl.]) later also śirṣé [nom.du.] (RV 04.058.03), śirśām [nom.sg.] (AV+), etc. and śirasā [instr.sg.], śirasi [loc.sg.] (RV- Kh., AVP+), etc. | | Head | JPM IAL Beekes |
| *kreid ^h rom | sieve | Olr crīathar 'sieve' Lat cribrum 'sieve', OE hrīder hriddar 'coarse sieve' [> NE ridder] | From *(s)ker- 'cut'. | | | Tools | JPM |

Sheet1

| | | | | | | | |
|------------|----------------------------|---|------------|--|--|--------------|------|
| *kreih□ | be splendid | | | Present IX: šrīnānti [3pl.act.] (RV+) Perfect: śiśriye [3sg.med.] (RV 05.044.13) TA-Ptc.: śrītā- (RV) | | | IIAL |
| *kreġ- | beat the weft with a stick | NE reel Lith krēklės 'ragged clothing' Grk krēkō 'strike (the web), weave, pluck a stringed instrument' Grk króks 'warp' | | | | Textiles | JPM |
| *kreġ- | fish eggs, frogspawn | ON hrogn 'roe' Lith kurkulaĩ 'frogspawn' Rus krjak 'frogspawn' | | | | Fish | JPM |
| *kremh□us | (wild) garlic | Mlr crem 'wild garlic' Grk krēm(m)uon □ króm(m)uon 'onion' NE ramsom '(bulb of the) broad- leaved garlic' Lith kremùšė 'wild garlic' Rus čeremšá 'wild garlic' | | | | Plants | JPM |
| *kréps | body | Olř crī 'body, flesh' Lat corpus 'body' OE hrīf 'belly, womb' [> NE midriff] Av kərəfš 'body' Skt krp- 'form, beauty' | | | | Body (Upper) | JPM |
| *kret- | shake | Mlr crothaid 'shakes' OE hraðe 'quick' Lith krečiũ 'shake, jolt strew by shaking' | North-West | | | Motion | JPM |
| *kreu(-s)- | strike | NE rue Grk kroainō 'stamp, strike with the hoof [of a horse]' Toch AB kām- 'strike, afflict' ON hrosti 'mashed malt' Lith krušũ 'smash, crash grind' OCS sukrušiti 'shatter' Grk krouō 'strike [together], strike a stringed instrument with a plectrum, knock [at the door]' | | | | Conflict | JPM |
| *kréuh□ | blood, gore | Mlr crũ 'blood' Lat cruor 'thick blood, gore' Lith kraũjas 'blood' Rus króvĩ 'blood' Grk kréa 'raw flesh', kréas 'piece of meat' Skt kráviṣ- 'raw flesh' | | | | Organs | JPM |

Sheet1

| | | | | | | | |
|-------------------------|------------------------------|--|--|---|--|----------------------|--------------|
| *kreuċ- | cry out, raise the hue and c | OE hrēam '[judicial] outcry' Av xraos- 'call' Skt [ānu] króṣati 'cries out, raises the hue and cry' | | | | Formal Speech & Song | JPM |
| *kreup- | ± rough, scabby | OE hrēof 'rough, scabby' NE rough Lith kraupūs 'dreadful, rough; timid' Toch B kārpiye 'common, raw, rough' [< *'rough'] | | | | Health&Sickness | JPM |
| *kreut- | ± shake | ON hraustr 'quick' Lith krutù 'move, stir' | North-West | | | Motion | JPM |
| *krewħ :- | gore, raw meat | Skt. kravi- 'raw meat' Lat. cruor G kréas 'raw meat' | | | | | Celt. |
| *krĥ .pís | shoe ? | Olr cairēm 'shoemaker' Lith kūrpe 'shoe' SC krpļe 'snowshoe' Grk krēpís 'shoe' ON hriflingr 'shoe' Late Lat carpsculum 'little shoe' | Usually derived from *(s)ker- 'cut', i.e. a shoe cut out from leather. | | | Textiles | JPM Celt. |
| *krĥ □sro-(h □)on- | hornet | Lat crābrō NDutch horzel Lith širše OCS sīrsenī | From *krĥ :s- 'horn' | | | Bug | JPM |
| *kripo- | ± head and facial hair | Lat crīnis 'head hair' Alb krip '[short] head hair, facial hair', krife 'mane' Av sřifā- 'plume' Skt śiprā [dual] 'moustache and beard' | | | | Hair | JPM |
| *krċós | thin | Czech krs 'shrivelled tree' Av kərəsa-gu- 'lean cows' Skt krśa-gu- 'having lean cows' ON horr 'thinness' Czech krsati 'lose weight, wane' Lith kāršti 'be aged or decrepit' Skt karś- 'grow/be thin or lean' | Possibly derived from a verb 'be thin, emaciated' putative root not given (SGM) | | | Shape | JPM |
| *krĥnom | cherry | Lat cornus 'cornel cherry' Lith Kirnis 'divine protector of the cherry' Grk krános 'cherry' | | | | Trees | JPM |
| *krĥnom | horn | Lat cornum NE horn | | | | Fauna | JPM |
| *krob- | hurry | Olr crip 'quick' ON hrapa 'fall, hurry' Toch AB kārṗā- 'descend, come down, step down' | Celtic-Germanic-Tocharian | ? | | Run & Jump | JPM |
| *kroku- *kró-kyeh □- | post | Rus krókva 'stake' Grk króssai 'crenellation' | | | | Construction | JPM |

Sheet1

| | | | | | | | |
|-----------------------|--------------------------|---|---|--|--|----------------------|------|
| *krópos | roof | NE roof OCS stropŭ 'roof' Mlr crō 'hovel, stall' | North-Western | | | Construction | JPM |
| *kršneh□- | spring, wave | OE hræn 'spring' Grk krénē 'spring' | | | | Water | JPM |
| *kršos | wagon | Lat currus 'chariot, wagon' MWels carr 'wagon' | from *kers- 'run' | | | Transport | JPM |
| *krt-u- | iteration, X times | | {1} Most probably, acc.pl. of *kr̥tu-. {2} Derivation from *kwer- 'to do' is less attractive. Osc. petiro-pert 'four times' could also be related to Lat. sem-per. etc. | RV bhūri kṛtvah 'many times', AV dáša kṛtvah 'ten times' | | | IIAL |
| *ks-en- | card wool | | | Present I: viy-akṣaṇan [3pl.impf.act.] (AVP 15.5.5), vi-kṣaṇant- [ptc.act.] (AVP 2.31) | | | IIAL |
| *ks-n-eu- | sharpen | | {1} [AL] Usually, xšnuuīšā is taken as pres.opt., but since in OAv. only aorist is attested, it seems reasonable to assume that this form is aor.opt. (as is well known, the sigmatic aorist does not form optative, which is being supplied by the root aorist). The same is probably valid for YAv. xšnuiā [2sg.opt.act.] (Y 68.9). The YAv. present to the root seems to be kuxšnuuīša [2sg.opt.med.], kuxšnuuāna- [ptc.med.] (if not perfect). {2} For the meaning of Iran. *xšnau- 'to hear' cf. Skt. kṣṇav- + vāc- 'to sharpen the speech'. {3} [AL] In view of the meaning, ks-n-u- is likely to be an original nasal present to *kseu- 'to be sharp' (see s.v. ksurá-), rather than *ks-en- 'to comb, to card' (kṣan- [2] to OCS česati [verb] 'to comb') + -eu-. | Present II: áva kṣṇaumi [1sg.act.] (RV) kṣṇuvāná- [ptc.med.] (AV+) TA-Ptc.: kṣṇuta- (ŠB) | | | |
| *kseros | dry | Lat serescunt 'they dry' Lat serēnus 'clear, bright, fair [of weather]' < *dry [of weather]' OHG serawēn 'become dry' Grk kserón 'dry land' Grk ksērós 'dry, solid' | | | | Fire | JPM |
| *kseros | dry | Lat serēnus 'dry, clean' OHG serawēn 'become weak' Arm č'or 'dry' | West Central | | | Qualities | JPM |
| *ksēros | dry (of weather or land) | Grk ksērós 'dry, dried up' Skt kṣārā- 'caustic, burning' | Greek-Indic | | | Qualities | JPM |
| *kseu- | rub, whet | Lat novācula (< *ksnewā-tlā-) 'razor' Grk ksúō 'sharpen', ksurón 'razor' Av hu-xšnuta- 'well-sharpened' Skt kṣṇāuti 'sharpens, whets', ksurá- 'razor' | | | | Reductive Activities | JPM |
| *kseub ^h - | shake | Polish chybnąć 'shake' Av xšaob- 'agitate' Skt kṣúbhyati 'shakes' | Polish-Indo-Iranian isogloss | | | Motion | JPM |

Sheet1

| | | | | | | | |
|------------|------------------------------------|---|---|--|--|---------------------|-------------|
| *ksih□róm | (skim) milk, whey | Alb hirrē 'whey' NPers šīr 'milk' Skt kṣīrām '[thickened] milk' | | | | Meals | JPM |
| *ksúlom | worked, shaped wood post, stake | Grk ksúlom 'wood' OHG sūl 'pillar' Lith šulas 'wooden post, stake' | | | | Construction | JPM |
| *ksun | with | Lith sù 'with' Rus s(o) 'with' Grk ksún □ sun 'with' | West-Central | | | Position | JPM |
| *ksuróm | razor | Grk ksurón Skt kṣurá- | From *kseu- 'rub, whet' | | | Tools | JPM IIAL |
| *ksweks-os | 60 sixth | Olr seissed Lat sextus NE sixth OPrus usts □ uschts Lith šėštas Bulg šéstī Alb gjashtë Grk héktos Av xštva- (< *Proto-Iranian *xšušta-?) Skt śaṣṭhá- Toch B ṣkaste | | | | Numbers | JPM |
| *kúh□dós | dung | Lith šūdas 'dung, muck' dialectal Grk hus-kuthá 'pig-dung' | West Central | | | Vital Functions | JPM |
| *kúh□los | back | Olr cūl 'back' Lat cūlus 'rear-end' Skt kūla- 'slope, back rear of army' | Derived from the root *keuhx- 'be bent (convexly)' (apparently distinct from *keuhx- 'hollow' | | | Body (Upper) | JPM |
| *kúh□los | spear, spit | Arm slak' 'pike, spear, dagger, arrow' MPers swl'ck 'grill' [< *'complex of spits'] Skt śūla- 'pike, spit, javelin' | | | | Weapons | JPM |
| *kuh□p- | water vessel | Lat cūpa NE hive Grk kúpellon 'cup' | West Central from *keu(h□)- 'curve' | | | Containers | JPM |
| *kuh□s- | hire (goods or services) | NE hire Hit kuss- 'hire' | | | | Exchange & Property | JPM |
| *kukís | ± (female) pubic hair, vulva | Lith kūšys 'female pubic hair, vulva' NPers kus 'female genitals' | | | | Body (Lower) | JPM |
| *kukū | cuckoo | Olr cūach Lat cucūlus NE cuckoo Lith kukúoti 'to cuckoo' Rus kukúša Grk kókkuks Arm k(u)ku NPers kuku Skt kokilá- | Similar words are found in other language families, e.g. Akkadian kugu and Turkish guguk | | | Bird | JPM |

Sheet1

| | | | | | | | |
|---------------------------|----------------------------|---|---|--|--|------------------------|-----|
| *kumb ^h o/eh□- | bowl, small vessel | Olr coim 'pot' Grk kúmbē 'bowl' Av xumba-'pot' Skt kumbhá-'pot' | Found from Ireland to India although its derivation, either from *keu- 'bend' or possibly a loanword into Proto-Indo-European, is disputed. | | | Containers | JPM |
| *kus- | kiss | Grk kunéō 'kiss' Hit kuwaszi 'kisses' ON kyssa OHG kussen NEkiss | Proto-Indo-European *k should give Germanic *h and not *k unless the k was employed for some sound-symbolic reason, i.e. somehow a hard k-sound was thought to be appropriate for a kissing noise among the speakers of Proto-Germanic. | | | Love & Hate | JPM |
| *kutsós | anus, vulva | Lat cunnus 'vulva' dialectal Grk kūsós 'vulva anus' NPers kūn 'ass, backside' | | | | Body (Lower) | JPM |
| *kVIVk- | cup, drinking vessel | Lat calix 'cup, goblet' [> NE chalice] Grk kúliks 'cup' Skt kaláśa- 'pot, pitcher' | Uncertain vowels suggest a Near Eastern loan | | | Containers | JPM |
| *kVr-C- | crow raven | Lat corvus NE rook Bulg krókon Grk kóraks Skt karāta- □ karāva- | | | | Bird | JPM |
| *k ^w as- | (wicker-) basket | Lat quālus 'wicker-basket', quasillus 'small basket' OCS košī 'basket' | North-West | | | Textiles | JPM |
| *k ^w at- | ferment | Lat cāseus OCS kvasū 'leaven, sour drink' Skt kváthati 'boil' Goth hvapjan 'foam up' | | | | Food Prep | JPM |
| *k ^w at- | shake | Lat quatiō 'shake' Grk pássō 'strew' | West Central | | | Motion | JPM |
| *k ^w ed- | whet, sharpen | Lat tri-quetrus 'having three corners' NE whet | North-West | | | Reductive Activities | JPM |
| *k ^w eh.(i)- | fear, revere | OCS čajō '(a)wait, hope' Grk tíō 'honour, revere' Luv kuwaya- 'fear' Skt cāyati 'reveres, pays attention to' | | | | Values | JPM |
| *k ^w eh□k- | of what sort | Olr cāch 'everyone' Lith kók(i) s 'of what sort any, some whatever [relative]' OCS kakū 'of what sort' | North-West | | | Interrogative Pronouns | JPM |
| *k ^w eh□li | of what sort, of what size | Lat quālis 'of what sort, of what kind' Lith kōlei 'how long' Grk pēlikos 'how old, how large' | West Central | | | Interrogative Pronouns | JPM |
| *k ^w eh□m | how; as | Latin quam 'how, in what way as' Arm k'an 'as', k'cani 'how many?' | West Central | | | Interrogative Pronouns | JPM |

Sheet1

| | | | | | | | |
|------------------------|-------------------|--|--|---|--|------------------------------------|-------|
| *k ^w eh□s- | cough | Mlr casachtach 'act of coughing' OE hwōsan 'cough' [related in some way is NE wheeze] Lith kósiu 'cough' OCS kašiti 'cough' [noun] Alb kollē 'cough' [noun] Skt kāsate 'coughs' Toch B kosi 'cough' [noun] | | | | Vital Functions Health&Sickness | JPM |
| *k ^w ei- | pay, compensate | OPrus er-kīnint 'freed from the devil' Grk tīnō 'make someone pay (a debt, ransom, fine)' Lyc tti- 'pay, requite' Av kāy- 'pay, compensate' Skt cáyati 'pay, compensate' Mlr cin 'guilt, crime, payment due' | | | | Law & Order | JPM |
| *k ^w ei- | perceive | Olr ad-ci 'sees' Lith skaitaũ 'count, read' OCS čiti 'count, reckon, read' Grk a-tizō 'pay no attention' Skt cinóti □ cikéti 'perceives' | | | | Sight | JPM |
| *k ^w ei- | pile up, build | OCS činī 'order' Grk poiéō 'pile up, make' Skt cinóti 'pile up' | | | | Dwelling | JPM |
| *k ^w eih :- | rest, quiet | Lat quiēs 'quiet' OE hwīl 'while, time' (> NE while) OCS pokojī 'peace, quiet, rest' Arm han-gist 'rest, quiet' OPers šiyāti 'comfort' Lat quiētus 'quiet' Av šyāta- 'happy' | | | | Speech | JPM |
| *k ^w eis- | determine, reckon | | | | | | Celt. |
| *kweit | be white | | | Aorist R: ašvitan [3pl.act.] (RV), švitāná- [ptc.med.] (RV) Aorist S: ašvait [3sg.act.] (RV) Aorist RED (caus.): ášísívat [3sg.act.] (RV) | | | IIAL |

Sheet1

| | | | | | | | |
|-------------------------|--------|---|---|--|-------|-----|------|
| *k ^w ek- | look | | {1} [AL] The long vowel in the Skt. root is only based on the late and poorly attested present kāśate, which is likely to be secondary. Its long vowel may have been taken from the causative and from the forms like avakāśā-, prakāśā-. [[Also the present in Iranian does not look old. At any rate, the non-palatalized initial k- shows that this is not an old thematic present. LIV2 s.v. *k ^w ek- proposes dissimilation of initial *č- to *k-, which is hardly plausible.]] Due to various phonetic developments, the original forms of the Ilr. root *kač- are now divided between three roots: kās (original intensive), cakṣ (original reduplicated present), kśā / khyā (original thematic aorist). | Present I: áva-kāśate [3sg.med.] (ŠB+) Caus: samkāśáy° (AV+) 'to look at, show' avakāśáy° (Br.+) 'to make to look at' Intensive: (abhi) cākaśīti [3sg.act.] (RV+) 'to consider' avacākaśat [ptc.] (RV+) | | | IIAL |
| *k ^w ek/ ġ - | appear | OCS kažq 'show' Grk tékmar 'sign' Av čašte 'teaches' Skt cāšte 'sees, appears', kāśate 'appears, is brilliant, shines' | {1} [AL] There is no consensus on the origin of this root. Synchronically, cakṣ- and khyā / kśā belong to the same paradigm, the former supplying the present and the latter supplying the aorist. It is therefore very attractive to assume that cāšte is the reduplicated present of the root *k ^w ek- (see s.v. kās). On the other hand, this origin has often disputed in the literature because -š- in Iranian *čaš- is considered incompatible with *k ^w e-k ^w k- > PIlr. *ča-kč- (thus in recent times explicitly Kümmel 2000: 168, fn. 177, Rastorgueva - Ėdel'man: 2.235, who expect Ir. *caxš- or *caxs-). However, I do not see why Skt. kṣ, Ir. š cannot reflect *kwk. We know that Skt. kṣ, Ir. š can go back to PIE *tk (cf. Skt. takṣ, Ir. *taš- 'to fashion by cutting' < PIE *tetk-, Gr. τέκνω), in spite of the fact that the exact details of the phonetic development are not entirely clear. It therefore seems probable that *kwk developed in a similar fashion (possibly, *k ^w ek ^w k- > *čaktš- > *čattš- > PIlr. *čatš-, yielding Ir. *čaš-, Skt. *caṭṣ- > cakṣ-, cf. Lubotsky 1997c: 562 as to the development of *kč- to Skt. kś- / khyā | Present II: cāšte [3sg.med.], cākṣate [3pl.med.] (RV+), cākṣase [2sg.subj.med.] (RV) Present I: cakṣata [3sg.inj.med.] (RV 01.121.02, 09.071.09 a nonce formation) SI-impv: cakṣi (RV) Perfect: cacákṣa [3sg.act.] (RV 05.002.08), abhi cakṣur (< *ča-kčš-) [3pl.act.] (RV 10.092.15), acacakṣam [1sg.ppf.act.] (RV 05.030.02), cacakṣé [3sg.med.] (Br.+) Caus: cakṣay° 'to reveal' (RV) Abs: čákṣyā (RV) Inf: cākṣase, čákṣe, sam-cákṣi 'for seeing' (RV) | Sight | JPM | |

Sheet1

| | | | | | | |
|--------------------------------------|---------|--|--|---------------------|--|-------------------------|
| *k ^w ek ^w kús- | looking | | {1} [AL] An original ptc.pf. of the root káš, as already indicated by Leumann 1952: 105. The Iranian word for 'eye' is derived from the present stem and is therefore a recent formation. | Secondary cákšu- | (shining eye, clear sight': Skt. tveśám cákṣuḥ (RV .008.06) — C IIAL | |
| *k ^w ek ^w lóm | wheel | NE wheel Grk kúklos Skt cakrá- Av čaxra- 'wheel' Phrygian kíklēn 'Ursa Major', i.e. 'the chariot' Grk kúklos Toch B kokale, where it means 'wagon' | The word is derived from *k ^w el- 'turn' after reduplication in some languages we find it without the reduplication, e.g. *kwólos underlies OIr cul 'wagon' while *kwólos yields OCS kolo 'wagon' | Possible inflexion: | * 'with golden chariot-wheels': Skt. híraṇya-cakra- (RV) — Av. zaraniiō.caxra- "the wheel" of the sun': Skt. súryasya cakrá- — ON sunnu ... hvél — Gr. ἡλίου κύκλος | Transport JPM IAL |
| *k ^w el- | turn | OIr cul 'wagon' Grk pólos 'axle' Alb sjell 'turn around', qell 'carry' Grk pélō 'be in motion be' Lat colō 'till dwell care for' | | | Motion | JPM |

Sheet1

| | | | | | | |
|-------------------------|------|--|---|---|---|-----|
| *k ^w el(h□)- | move | | {1} With the l-variant cali , slightly differing in meaning ('to move, to quiver'). | Present I: cārati [3sg.act.] (RV+) vy-ācalat [3sg.impf.act.] 'to wander around' (AV+) Aorist IS: acārīṣam [1sg.act.] (RV+) Perfect: cacāra [3sg.act.] (AV+) Fut: carīṣy ^o (Br.+) Caus: cāray ^o (KS+), vi-cālayati [3sg.act.] 'to shake' (KS+) Aorist RED: ācīcarat [3sg.act.] 'to make wander' (AV+) Intensive: carcarīti [3sg.act.] (AV+), nī calcalīti [3sg.act.] 'to stir, to quiver' (MS) carcūryāmāṇa- [ptc.med.] (RV+) Desid: cicar(i)ṣ ^o (Br.) na-ptc.: cīṛṇa- (Up.+) Inf: cārītave, carādhyaī (RV) | to wander between (heaven and earth / god and man)': Skt. anī | IAL |
| *k ^w elp- | arch | OE hwealf 'vault' Grk kólpos 'fold, hollow' | Germanic-Greek isogloss | | Bend and Press | JPM |

Sheet1

| | | | | | | |
|--------------------------------------|----------|--|--|--|---|---------------|
| *k ^w els- | plow | | {1}[AL] For the meaning see Griffiths 2004: ad 6.9.7. {2} [AL] kṛṣāyu- [adj] 'plowing (of oxen)' (AVP), given by Mh, does not exist. Instead of Kashmir kṛṣāyavaḥ, the Orissa mss. read AVP 9.10.11d [*]naḍvāhaḥ kṛśā iva (for *kṛśā iva) 'like lean oxes'. {3} [AL] The easiest way to account for this form is to assume the stem *karṣuj- (cf. vaṇhuuiā [gen.sg.f.] to vaṇvhi-), pace Klingenschmitt 1968: 103, who assumes haplology from *karṣuiiaiā. | Present VI: vi kṛṣantu [3pl.impv.act.] (RV) kṛṣasva [2sg.impv.med.] (RV) kṛṣatu [3sg.impv.act.] (RV) Present I: karṣat [3sg.inj.act.] (RV) karṣathas [2du.act.] (RV) karṣa [2sg.impv.act.] (RV), kārṣet [3sg.opt.act.] (AV+) Aorist SA: (sam) akṛkṣat [3sg.act.] (YV+) Passive: kṛṣyáte [3sg.] (MSP+) Fut: krakṣye [1sg.med.] (Br.) karṣiṣyánt- [ptc.act.] (Br.) Aorist RED: acīkṛṣam [1sg.act.] (RV) Intensive: cárkṛṣa ° (RV+) TA-Ptc.: kṛṣtá- (AV+) | 'to cultivate barley': Skt. yávam ... karṣathaḥ, yávam ... cárkṛṣat (RV) — YAv. yauuanam ... (a)karṣtanam, yaokarṣti- [f] 'cultivating barley' 'to make a furrow': Skt. kṛśim ... kṛṣasva (RV) — YAv. karšāim kāraiiēiti | IIAL |
| *k ^w em- | swallow | Icelandic hvōma 'swallow' Arm k'imk' 'throat' Av a-šam- 'sip' Skt cāmāti 'swallows' | | | Food & Drink | JPM |
| *kwen(to)- | holy | Lith šveñtas 'holy' OCS svętŭ 'holy' Av spēnta 'holy' | Derived from *keu(h)- 'swell', hence, 'swollen (with some form of sacred force)' | | Sacred | JPM Beekes |
| *kwénd ^h r/no- | angelica | SGael contran 'wild angelica' Lat combretum [an unidentified aromatic plant] ON hvonn 'Angelica silvestris' Lith švėndras 'reed reed-mace' | North-West | | Plants (Wild) | JPM |
| *k ^w ent ^(h) - | suffer | Olr cēsaid 'suffers' Lith kenčiù 'suffer' Grk páskhō 'suffer' | | | Health&Sickness | JPM |

Sheet1

| | | | | | | | |
|----------------------|-----------------------------|--|--|---|--|----------------------|-----------------------|
| *k ^w er- | cut | Hit kuerzi 'cuts' NWels pryd 'time' Osc -pert '... time[s]' Skt -kr̥t '... time[s]' | | | | Reductive Activities | JPM |
| *k ^w er- | do, make, build | Olr cruth 'form' Lith kuriù 'make, build, create' OCS kručijī 'smith' Av kərənaoiti 'does, makes' Skt kr̥ṇóti 'does, makes, performs executes, builds' Lith kėras 'magician' Rus čáry 'sorcery' | | | | Being & Doing | JPM |
| *k ^w erp- | turn | NE wharve OE hweorfan 'turn, change' Grk karpós 'wris' Mlr carr 'spear' NWels pār 'spear' Toch AB kurp- 'be concerned with' | | | | Motion | JPM |
| *k ^w erus | large cooking pot, cauldron | Olr coire 'cauldron' Skt carú- 'cauldron' OE hwer 'pot, bowl, kettle, cauldron' ?Toch B keru 'drum' Russ. čara | | | | Containers | JPM Beekes IIAL |
| *k ^w es | hiss | | {1} [AL] Blažek XXX has pointed to important parralels to this name in Elamite. | Present II: švásiti [3sg.act.] (RV), švasihí [2sg.impv.act.] (AV), ašvasit [3sg.impf.act.] Br.+), švasánt- [ptc.act.] (RV), á śuše [1sg.med.] (RV 08.093.16) Present I: švásati [3sg.act.] (AV+) Aorist A (?): śuśánt- [ptc.act.] (RV 01.061.10) Intensive: śáśvasat- [ptc.act.] (RV) Caus: švásay° (RV+) Inf: abhiśvásas (RV 10.092.80) | | | IIAL |

Sheet1

| | | | | | | | |
|------------------------|----------------------|--|--|--|--|------------------------|--------|
| *kwesh□- | breathe; sigh, groan | Lat queror Toch B kwās- OE hwōsan 'cough' Skt śvāsiti 'snort, hiss' NE wheeze is a loanword from Old Norse | | | | Human Sounds | JPM |
| *kwesh□mi | breathe deeply, sigh | Lat queror 'complain, lament' Av suši [dual] 'lungs' Skt śvāsiti 'breathes, sighs' Toch B kwās- 'lament, bewail' | | | | Vital Functions | JPM |
| *k"et- | chaff, bran | Mr cāith 'bran, needle' Grk pētea 'chaff' | | | | Plants | JPM |
| *k"etur-dkomth: | 40 forty | | | | | | Beekes |
| *k"etwero- | 4x fourfold | | | | | | Beekes |
| *k"etwor-pod- | animal | Lat quadrupēs Lith keturkōjis Alb shtazē Grk tetrápous Skt cátuṣpad- Toch B štwerpew | | | | Fauna | JPM |
| *k"etwóres *k"etuōr | 4 four | Olr cethair [m.] Lat quattuor NE four Lith keturi OCS četyre [m.], četyri [f./nt.] Alb katër Grk téssares [m./f.], téssara [nt.] Arm č'ork' Av čaθwārō [m.] Skt catvāras [m./f.], catvāri [nt.] Toch B štwēr [m.], štwāra [f.] | neuter: *k"etwórh□ Some languages reflect the presence, as with 'three', of a morphologically very unusual feminine form, *k"etes(o)res: Olr cethēoir, Av čataṇrō, Skt cátasras In Germanic, the influence of the following *pénk"e explains the aberrant initial *f-, e.g. OE fēower (NE four), OHG Wor, rather than the expected *hw-. There has been a host of attempts to etymologize *k"etwóres, with two of the most popular (among many) being some relationship to the concept of either little finger or span of four fingers (where *k"et-wor would be a derivative of *k"et- 'stretch' found otherwise only certainly in the Baltic languages, e.g. Lith ket-), or the word has been analysed as the enclitic *k"e 'and' + *tur- (derived from *tur- 'three'), i.e. 'after three' = 'four' (though of course the attested forms of 'three' are unanimous in demanding a reconstruction *ter- or trei-, not *tur-). The Anatolian form has been derived from *mei- 'be small' and hence reference either to the 'little finger' or to a subtractive basis, i.e. 'five minus one' (as one does with | | | Numbers | JPM |
| *k"íd | what, what one | Lat quid 'what, what one' OCS čito 'what' Arm in-č 'some' Hit kuit 'what' (interrogative) Av čit [generalizing particle] | | | | Interrogative Pronouns | JPM |
| *k"ís | who | Lat quis 'who, which one' Grk tís 'who' Hit kuis 'who' Av čiš 'who' | | | | Interrogative Pronouns | JPM |

Sheet1

| | | | | | | | |
|-------------|---|---|---|--|---|------------------------|--------|
| *k"it-ro- | conspicuous | | | cétiṣṭha- [sup] 'the | 'rich (and) bright': Skt. revātī ... citrām '(the) rich (Uṣas has) brightly (climbed both worlds)' (RV 03.061.06) — YAv. raēuuat_ ciθrəm — OP *raiva-ciça-, *raiva- ciθra- 'brilliant, wonderful assistances': Skt. citrābhīr ūtībhiḥ (RV), citrōti- (RV 10.140.03) OAv. ciθrā.auuah- [adj] '(with) bright shine': Skt. citrá- bhānu- [adj] 'with a bright shine' (RV+) — OP *ciça-bānu- (Onom.) 'having brilliant gifts': Skt. citrá-rāti- [adj] (RV+) — OAv. ciθrāṛātaiiō 'with brilliant goods, ornaments (= shining stars)': Skt. citrávasu- [adj] (YVm+) — OP *ciçāva(h)u- [m] PN | | IIAL |
| *k"k(-eh□-) | look | | {1} This root is just another spelling for kšā. Other spelling variants are: kṣā-, kṣyā-, kśyā- . | Aorist A: ákhyat [3sg.act.] (RV+) Passive: úpa ... khyāyate [3sg.med.] (Br.+) 'is/can be seen, is known' Caus: khyāpay° (KS+) 'to make known, to proclaim' TA-Ptc.: sám- khyāta- 'calculated, counted' (AV+) {1} | | | IIAL |
| *k"lep- | desire | Av xrap- 'desire' Toch AB kulyp- 'desire' | Avestan-Tocharian isogloss | | | Desire | JPM |
| *k"leu- | turn | | | | | Motion | JPM |
| *k"o-tmh□o- | which (of more than two), a "superlative" of *kwo- which, who | | {1} It is not quite certain that this is a IE formation. | | | | IIAL |
| *k"od | that | | | | | | Beekes |
| *k"ód | what | OWels pa 'what' Lat quod 'in respect to which that, in that' (conj.) OE hwæt 'what' [> NE what] Pal -kuwat [generalizing particle]) Skt kád 'what' | | | | Interrogative Pronouns | JPM |
| *k"odéh□ | when | Lith kadà 'when' Av kaḍa 'when' Skt kadā 'when' | | | | Interrogative Pronouns | JPM |

Sheet1

| | | | | | | | |
|--|-----------------------------|---|---|-----------------------------|--|------------------------|---------------|
| *k ^w oih□os | pertaining to whom/what | Lat cūius 'whose' Grk poīos 'of what kind' | | | | Interrogative Pronouns | JPM |
| *k ^w oineh ₂ | price | | Many languages take this as Pain, Punishment later on | | | | Beekes |
| *k ^w oineh□- | compensation | Lith káina 'price' OCS cěna 'price' Grk poinē 'compensation for a crime, bloodprice' Av kaēna- 'vengeance, hatred' | From the root *k ^w ei- 'pay, compensate' | | | Law & Order | JPM |
| *k ^w oitós *k ^w itrós | white | Lith švitrūs 'bright' OCS svītī 'light' Av spaēta- 'white' Skt śvetā- 'white, bright', švitrá- 'whitish, white' NE white NE wheat | {1} Skt. śīsa- [n] 'lead' (AV+) is a LW from a SW-Iranian *siça- 'white' (švitrá-). | | | Color | JPM IAL |
| *k ^w ol-o- | wheel | Gr. pólos 'axis' OCS kolo 'wheel' | | | | | Celt. |
| *k ^w oli | ?of what sort, of what size | OCS kolikū 'how large', kolī 'how m | West Central | | | Interrogative Pronouns | JPM |
| *k ^w óm | when | Goth h'an 'when' OPrus kan 'when' OCS ko-gda 'when' Alb kē 'when' Av kəm 'how' | | Masc.Acc *k ^w ós | | Interrogative Pronouns | JPM |
| *k ^w ór | where | OLat quōr 'why, wherefore' OE hwæ [~] r 'where' [> NE where] Skt kārhi 'when, at what time' | | | | Interrogative Pronouns | JPM |
| *k ^w ós | who | OIr nech [< *ne-k ^w os] 'someone, anyone' OE hwā 'who' [> NE who] Lith kās 'who, what' OCS česo 'whose' Alb kē 'whom' Grk tou 'whose' Arm ov (< *k ^w os/k ^w om) 'who' Skt kās [masc.] 'who', [fem.] ká 'who', kāsya 'whose' | | | | Interrogative Pronouns | JPM |
| *k ^w óteros | who of the two? | Lat uter 'which' OE hwæðer 'which' [> NE whether] Lith kataràs katràs 'which' OCS koteryjī 'which' Grk póteros 'which' Skt katará- 'which' | The initial labiovelar exhibits the expected different treatment in Greek where we find *k ^w i- > Grk ti- but *k ^w o- or *k ^w u- > Grk po-/pu- | | | Interrogative Pronouns | JPM Beekes |
| *k ^w óti *k ^w éti | how much/many | Lat quot 'how many' Grk pósos 'how much, how many' Skt káti 'how much, how many' Bret pet der 'how many days' Av čalti 'how many' | | | | Interrogative Pronouns | JPM |

Sheet1

| | | | | | | |
|-------------|-------------------------------|---|--|---|---------------------|----------------------|
| *k"rei(h□)- | pay buy exchange | Olr crenaid 'buys' ORus krínuti 'buy' Grk priámai 'buy' Skt krīṇāti 'buys' Toch B kāry- 'buy' Olr tinnsca 'bride-price' Lith krieno 'bride-price' | {1} IE nasal present *kwri-ne-h₂-ti with ppp. *kwrih₂-tō- | {1} IE nasal present *kwri-ne-h₂-ti with ppp. *kwrih₂-tō- | Exchange & Property | JPM IIAL Celt. |
| *k"résnos | tree brush(wood) | Olr crann 'tree' Grk priunos 'holm-oak [Quercus ilex]' | | | Trees | JPM |
| *k"r̥mis | worm, insect wug: worm/bug | Olr cruim 'worm' Lith kirmis 'worm' OCS črīvī 'worm' Alb křimb 'worm' Skt kṛmi- 'worm' OPrus girmis 'mite' Lith kirmis 'dragon' | {1} Next to a rhyme formation *urmi- (Lat. vermis 'worm', MoHG Wurm 'worm', etc.). | also often written krími- | Bug | JPM IIAL |
| *k"r̥snós | black | OPrus kirsnan 'black' OCS črūnū 'black' Skt kṛṣṇá- 'black' Alb sorrē meaning 'crow shiny black?' Lith kėršas 'black and white, piebald' | | | Color | JPM |
| *k"rustēn | (freezing) cold | Grk krustaínomai 'am congealed with cold, freeze', krūmós 'icy cold, frost' Toch B krošce 'cold' Grk krustállos 'ice crystal' Lat crusta 'crust' OHG hroso 'ice, crust' Latv kruvešis 'frozen mud' | | | Qualities | JPM |
| *k"r̥wis | ± tool | Lith kiřvis 'axe' Rus cervī 'sickel' Skt kṛvi- 'weaving instrument' | Possibly derived from *kwer- 'do, make'. | | Tools | JPM |
| *k"sep- | night | Grk pséphas 'darkness' Av xšap- 'darkness' Hit ispant- 'night' Skt kṣáp- 'night' | | kṣapā [instr.sg.], kṣapás [gen.sg.], kṣapām [gen.pl.] kṣapābhiṣ [instr.pl.] is based on instr.sg. 'night and day': Skt. kṣapābhir āhabhiśca (RV 04.053.07) — YAv. asnaṃca xšafnaṃca (V 4.45) 'night and dawn': Skt. kṣāpa usrāśca (RV 07.015.08) — OAv. ušā ... xšapācā (Y 44.5) | Time | JPM IIAL |
| *k"tur- | 4 four- | | Used in compounds | | | Beekes |

Sheet1

| | | | | | | | |
|----------------------------|---------------------|--|---|--|--|------------------------|-----|
| *k"tur-yós *k"etwor-to- | 4th fourth | Lat quārtus NE fourth Lith ketviřtas Rus četvėrtj Alb katėrt Grk tėtartos Av čaθru- Skt caturthá- Toch B štarte | Though geographically restricted in its attestation, a zero-grade *k"turyos (e.g. Hit kutruwa(n)- 'witness' [i.e. 'fourth party to a transaction' (after the two originals and the judge/arbiter/recorder)] from a pre-Hit *k"truyos, itself by metathesis from *k"turyós, Av tūrya- 'fourth', Skt turīya- 'fourth'), is probably older. (One can at least imagine that the Hittite butchers' term, kudur 'leg of beef, sheep, etc.', might have originally meant 'quarter' [as in the English butchers' term] and reflect an even older Proto-Indo-European form, *k"turóm 'fourth'. | | | Numbers | JPM |
| *k"u *k"ū | where | Olr co 'how where' Lat ubi 'where' OPrus quei 'where' OCS kūde 'where' Alb kush 'who' Grk pu- 'where' Hit kuwapi 'where' Skt kū 'where' Toch B k□se 'who' extended *k"ūr Lith kuř'where' Alb kur 'where' Arm ur 'where' | | | | Interrogative Pronouns | JPM |
| *kyeh - | deep intense shade, | OE hǣ wen 'blue, purple, green, azure, grey' OE hīw 'colour' NE hue Lith šy'vas 'light grey' OPrus sywan 'grey' OCS sivū 'dark grey' Alb thinjē 'grey' Lith šē'mas 'blue-grey' Serbo-Croatian sinji 'sea green' Skt śyāmā- 'dark brown, dark green', śyāvā- 'brown' Sogdian š'w 'dark-coloured' Toch B kwele 'black, dark grey' | | | | Color | JPM |
| *kyeino- | bird of prey, kite? | Grk iktīnos Arm c'in Av saēna- 'eagle' Skt śyenā- 'eagle' | Greek-Armenian-Indo-Iranian isogloss | | | Bird | JPM |
| *l(e)nto- | soft | NWels llathr 'smooth' Lat lentus 'soft, tender' NE lithe Lith leñtas 'quiet, calm' | North-West | | | Qualities | JPM |
| *l(e/o)seh□ | furrow | Lat līra 'furrow' (or 'track') OE līste 'fringe, border' (> NE list) OPrus lysa 'field bed' OCS lěcha 'field bed' | from *leis- 'to leave a trace on the ground' | | | Agriculture | JPM |

Sheet1

| | | | | | | | |
|------------------------|-----------------------|---|--|----|--|----------------------|-----|
| *la(m)b ^h - | seize | Lith lōbis 'possessions, riches' Grk lambánō 'seize, take' Skt lá(m)bhate 'seizes, takes' | | | | Give & Take | JPM |
| *lab- | lick | Lat lambō NE lap Grk láptō 'slurp, drink' Arm lap'el 'lick' | | | | Food & Drink | JPM |
| *laiwós | left | Lat laevus OCS lěvŭ Grk laiós, Toch B laiwo 'lassitude' | | | | Direction | JPM |
| *lak- | lick | Lith lakù 'lap up' OCS loču 'lick' Arm lakem'lick' | | | | Food & Drink | JPM |
| *lak- | rend, tear | Lat lacer 'worn out' Alb lakur 'naked' Grk lakízō 'tear' | West Central | | | Reductive Activities | JPM |
| *lal- | babble | Lat lallō 'sing to sleep' NE lullaby NHG lallen 'stammer, babble, speak indistinctly' Lith lalúoti 'stammer' Rus lál 'babbling' Grk lálōs 'babbling, loquacious', laléō 'talk, chat, prattle' Hit lala- 'tongue' Skt lalallā- 'indistinct or lisping utterance' | | | | Human Sounds | JPM |
| *lap- | shine | NWels llachar 'shining' Grk lámpō 'give light, shine' Olr lasaid 'flames' Lith lópé 'torch' Hit lāpzi 'glows' | Reflexes suggest that it may have been specifically related to the brightness of fire | | | Light & Dark | JPM |
| *las- | be greedy, lascivious | Olr lann 'eager, greedy' Lat lascīvus 'lascivious' NE lust Lith lokšnūs 'loving, amorous, tender' OCS laskati 'flatter' Grk lilaíōmai 'desire' dialectal Grk lástē 'courtesan' Skt lasati 'strives, plays, is delighted' | | | | Desire | JPM |
| *lau- | benefit, prize | Olr lōg 'reward, prize' Lat lucrum 'gain, benefit' [slightly pejorative, whence NE filthy lucre] OE lēan 'reward, recompense' | North-West | | | Exchange & Property | JPM |
| *leb- | lip | Lat labium 'lip' NE lip Hitt lipp- 'lick' | North-West | | | Head | JPM |
| *leb ^h - | ivory | | | ?? | | Fauna | JPM |

Sheet1

| | | | | | | | |
|-----------------------|-----------------------------|---|---|--|--|-----------------|--------------|
| *leg- | drip, trickle | Olr legaid 'perishes, melts' NE leach Arm lič 'bog' | | | | Liquid Motions | JPM |
| *le ġ - | see | Lat legō 'gather read' NE look Toch AB lāk- 'see' | | | | Sight | JPM |
| *leg ^h - | lie | NE lie, law, low Mlr laigid 'lies' Lat lectus 'bed' OCS lěžati 'lie' Grk lékhetai 'lies' Hit lāki 'lays aslant' Toch B lyāk- 'lie' Gr. lékhos 'bed' Toch B leke, leki 'bed, resting place' | | | | Placement Verbs | JPM Celt. |
| *leg ^h - | lie; that which is laid out | NE law Lat lex | | | | Law & Order | JPM |
| *lég ^h es- | place for lying, bed, couch | Grk lékhos 'bed, bier' Grk lókhos 'place for lying, ambush' Toch B leke 'bed, resting place' | From *leg ^h - 'lie down' possible an independant formation. | | | Construction | JPM |
| *leh . d- | grow slack, become tired | Lat lassus 'tired' OE læt 'sluggish' Lith lėnas 'lazy, gentle' OCS lěnŭ 'lazy' Alb lodhet 'becomes tired' Grk lēdeīn 'be tired' Toch B lāl- 'exert oneself, tire oneself' | | | | Health&Sickness | JPM |
| *leh . d- | leave | NE let Lith lėidžiu 'leave' Alb lē 'leave, let, abandon, allow' Hit lā(i)- 'let go' | | | | Travel | JPM |
| *leh . w- | stone | Olr līe (gen. līāc) 'stone' Grk laas (gen. laos) [rebuilt from (*lēwas, lawasos?), léusō 'stone' (vb.) Alb lerē 'rubble' | Limited Distribution | | | Earth | JPM |
| *leh :- | pour, wet, make flow | Hittite 'pour, make flow', lahhuzi 'overflows, pours', lahni- 'bottle, pitcher' Lat lāma 'bog' Grk lēnós 'tub' Toch B lāñe 'flood' | | | | Liquid Motions | JPM |
| *leh . wós | people (under arms) | Grk lā(w)ós 'people', [pl.] 'army' Doric Grk lāgētās 'leader of the people' Phryg lawagtei 'military leader' Hit lahha- 'campaign' | from a root *leh :- 'military action' | | | Conflict | JPM |

Sheet1

| | | | | | | |
|-----------------------|-----------------------|---|--|---|---------------|---------------|
| *leh□- | bark | Lat lātrō 'bark [at] rant, roar' Lith lóju 'bark' OCS lajo 'bark' Alb leh 'bark' Oss ræjun 'bark' Skt rāyati 'barks' | In six groups {1} [AL] In view of semantics, the connection with a r-root (*Hreh- -: ON rāmr 'hoarse', Russ. (dial.) rájat 'to sound') is much less probable. | Present IV: rāyasi [2sg.act.] (RV 07.055.03), rāya [2sg.ir] | Animal Noises | JPM IIAL |
| *leh□- | complain, cry out | Olr līd 'complains' Lat lāmenta 'lamentation' dialectal Grk láio '+make a sound' Arm lam 'cry, weep' | West Central might be the same as *leh□- 'bark' | | Human Sounds | JPM |
| *leh□p-eh□- | foot, paw | ON löfi 'palm' Lith lópa 'paw' Rus lápa 'paw' Kurdish lapka 'paw' | | | Body (Lower) | JPM |
| *leh□t- | wet, moist | Mlr lathach 'mud' OHG letto 'clay' Grk látaks 'drops' various Baltic river names | North-West | | Qualities | JPM |
| *leib- | pour, make a libation | Lat lībāre Grk leibō 'pour out [drop by drop]' | | | Meals | JPM |
| *lei ġ ^h - | lick | Olr ligid Lat lingō NE lick Lith liežiū OCS lizati Grk leikhō Arm lizem Av raēza- Skt leh- | | | Food & Drink | JPM Beekes |

Sheet1

| | | | | | | | |
|------------|------------------------------|--|------------|---|--|--------------|-------------|
| *leik"- | leave (behind) | Lat linquō 'leave' NE loan Lith liekù 'leave' Grk leipō 'leave' Arm lk'anem 'leave' Av irinaxti 'releases' Skt riṇākti 'leaves' | | Present VII: riṇākti [3sg.act.] (RV+), ārinak [3sg.impf.act.] (with a secondary long augment) Present IV: ricyate [3sg.med.] (RV+) Aorist R: āraik [3sg.act.] (RV) (with a secondary long augment), rikthās [2sg.inj.med.] (RV) Aorist S: rikṣata [3pl.med.] (Br.) Aorist mediopass: reci [3sg.inj.] (RV 04.016.05) Perfect: riréca [3sg.act.] (RV+), riricé [3sg.med.] (RV+), arirecīt [3sg.ppf.act.] (RV) ririkvāms- [ptc.act.] (RV) TA-Ptc.: ātirikta- 'left over' (RV 08.058.03), riktā- 'emptied, empty' (AV+) | | Travel | JPM IIAL |
| *leip- | adhere, stick; smear | Hit lipp- 'smear' Lith liimpù 'adhere' OCS pri-lipjo 'stick on' OE bilīfan 'remain left over' Toch AB lip- 'remain left over' Grk liparós 'fat, anointed' | | | | Binding | JPM |
| *leip- | light, cause to shine | ON leiptr 'lightning' Lith liepsnà 'flame, blaze' | North-West | | | Light & Dark | JPM |
| *leis- | leave a trace on the ground | | | | | Agriculture | JPM |
| *leit(h□)- | go away, go forth; pass away | Toch B lit- 'pass on' OE līðan 'go, travel' NE lead OHG beleite 'burial' Grk loiteúō 'bury' Av raēθ- 'die' | | | | Come & Go | JPM |

Sheet1

| | | | | | | | |
|--------------------|---------------------|--|--|--|--|------------|------------|
| *lek- | jump, scuttle along | Grk lēkáō 'dance', likertízō 'jump' MHG lecken 'hop' Latv lēkāju 'jump about' Lat lōcusta 'locust' NE lire 'calf of the leg' (< OE līra) | | | | Run & Jump | JPM |
| *lem- | (nocturnal) spirit | Lat lemurēs 'nocturnal spirits who devour the dead' Grk lámia 'a female flesh-eating monster used to scare children with' | | | | Dieties | JPM |
| *lomb- *remb- | hang down | Skt rámbate 'hangs down' Lat limbus 'hem, border'. | | Present I: rámbate [3sg.med.] (RV) lámbate [3sg.med.] (MSP+) | | Extend | JPM IAL |
| *lend ^h | sink, fall (?) | | {1} Probably isolated nonce formation (Neubildung). {2} [LK] Forms with the nasal in the root (full grade) are used transitively ('to make subject'), forms without nasal (zero grade), except for red.aor. rīradhas, are intransitive ('to be subject') see Narten 1964: 218 Bendahman 1993: 128f. Schaefer 1994: 29f. Kümmel 2000: 415f. {3} [AL] The Indo-Iranian etymology is difficult. The Iranian root rand- means 'to scrape, to make smooth' (see s.v. rad), and NP razda 'tired, exhausted' can easily belong there (with a semantic development typical of colloquial speech). It is even conceivable that this Iranian root is etymologically related to randh, cf. English wipe out for a semantic parallel. The further IE connections are doubtful. | Present IV: rádhyatu [3sg.impv.act.] (AV 17.1.6 +) Aorist A: radham [1sg.inj.act.] (RV 01.050.13), radhāma [1pl.inj.act.] (RV 10.128.05) Aorist IS: randhīṣ [2sg.inj.act.] 'to subjugate, make subject' (RV) Aorist R: randhi [2sg.impv.act.] (RV 04.022.09) {1} Perfect: rāradhūr [3pl.act.] 'to be subject' (RV 07.018.18), rārandhī [2sg.impv.act.] 'to make subject' (RV 06.025.09) Caus: randháy° 'to subjugate, make subject' (RV+) Aorist RED: (mā) rīradhas [2sg.inj.act.] 'id.' (RV) {2} TA-Ptc.: raddhá- 'succumbed, subject to' (RV) | | | IAL |

Sheet1

| | | | | | | | |
|-----------------------|--------------------------|---|---|--|--|----------------------|-----|
| *lend ^h - | open land, waste | NE land Olr lann 'open land' OPrus lindan 'valley' Rus ljadá 'overgrown field' | North-Western | | | Plants | JPM |
| *leng- | bend | Lith línguoti 'soar' Slov lagác 'bend' Alb lēngor 'flexible' Skt ráñ gati 'moves here and there' | | | | Bend and Press | JPM |
| *lenk- | bend traverse, divide | Lith leñkti 'tilts, bends' Toch AB lāñk- 'hang' [<"dangle"] Toch B leñke 'valley, cleft' OCS raz-lqčiti 'separate, divide' | | | | Bend and Press | JPM |
| *lente ^h - | linden | NE linden Lith lentà '(linden) board' Rus lut '(linden) bast' Alb lëndë 'wood, material' | | | | Trees | JPM |
| *lep- | peel | Grk lépō 'peel' OE lōf 'headband' Lith lāpas 'leaf' Rus lápotī 'bast-shoe' Alb lapë 'dewlap of an ox' | West Central | | | Reductive Activities | JPM |
| *lep- | stone | Lat lapis 'stone' [with unclear-] Grk lépas 'stone' | Limited Distribution | | | Earth | JPM |
| *lerd- | ± crooked | Scots Gaelic lorcach 'lame' Grk lordós 'stooped' Arm lorc'k' 'twisted bodies' | West Central | | | Bend and Press | JPM |
| *lerd- | crooked | SGael lorcach 'lame' MHG lērz 'left' Grk lordós 'bent backwards so the front of the body is convex' | | | | Health&Sickness | JPM |
| *lesi- | liver | Hit lissi- Arm leard | This word could be an early loan between two neighbouring languages | | | Organs | JPM |
| *letrom | leather | Olr lethar NE leather | North-Western | | | Body (Upper) | JPM |
| *leu- | dirt | Lat polluō 'soil, defile' Grk luma 'dirt' | Limited Distribution | | | Earth | JPM |

Sheet1

| | | | | | | | |
|----------------------|-----------------------------|---|--|--|--|----------------------|------|
| *leub ^h | be disturbed | | {1} The meaning 'to desire greatly or eagerly, long for' is only attested since Mn. {2} [AL] Oss. (D) ilivd 'pitiful, wretched' is not related and goes back to *ui-ripta-. | Present IV: á-lubhyant- [ptc.act.] (AV), ā-lúbhyet [3sg.opt.act.] (SB) Perfect: *lulobha [3sg.act.] (AVP 19.51.2) 'is broken' Caus: lobháy° (RV+) Aorist RED: alūlubhan [3pl.act.] (JB 2.384) TA-Ptc.: lubdha- 'confused' (KS+), lubhita- (Sū.+) | | | IIAL |
| *leub ^h - | love, desire | Lat lubet □ libet 'pleases', lubīdō libīdō 'desire, pleasure' NE love Lith liaupsė~ 'glorification' OCS ljuby 'love' Alb laps 'wish' dialectal Grk luptá 'courtesan' Skt lúbhyati 'desires ardently' OE lēof 'dear' [> (archaic) NE lief] OCS ljubū 'dear' Skt lóbha- 'desire' | | | | Love & Hate | JPM |
| *leud- | act hypocritically, badly | OE lot 'deception' OPrus laustinti 'humble, abase' OCS ludū 'foolish' | North-West | | | Values | JPM |
| *leug- | bend; bend together, entwir | Olr fo-long- 'sustains, supports' Lat luctō 'struggle' NE lock (of hair) and lock of door (a bending together) Lith lūgnas 'flexible, pliable' Grk lugízō 'fold, bend' | West Central | | | Bend and Press | JPM |
| *leug- | grieve, be pained | Lat lūgeō 'mourn, lament' Grk leugaléos 'sad, horrible', ligrós 'baneful, mournful' Toch B lakle 'pain, suffering' | | | | Human Sounds | JPM |
| *leu ġ- | break, break off | Lith láužti 'break' Skt rujāti 'break' Lat lūgeō 'mourn' Toch B lakle 'pain, suffering' Olr lucht 'load, cargo' | | | | Reductive Activities | JPM |
| *leug ^h - | lie, tell a lie | NE lie OCS lūžq 'lie' Lith lūgótī 'ask' | North-West | | | Speech | JPM |

Sheet1

| | | | | | | | |
|----------------------|----------------------|--|--|--|--|----------------------|--------|
| *leuh ₁ - | wash, bathe | Lat lavō 'wash' Grk louō 'wash' Arm loganam 'bathe, wash myself' | West Central | | | Clean | JPM |
| *leuh□- | hunt | Rus lov 'capture, catch' nominal derivative *léuhxōn 'he of the hunt' Grk léōn 'lion' [< *'the hunter' Toch B luwo 'animal' [< *'the hunted'] | | | | Travel | JPM |
| *léuh□ōn | animal | Grk léōn 'lion' Toch B luwo 'animal' | | | | Fauna | JPM |
| *leuk- | light | | | | | | Beekes |
| *leuk- | see | NWels amlwg 'evident' OPrus laukīt 'seek' OCS lučiti 'meet someone' Grk leússō 'see' Skt lókate 'perceives' | Can hardly be separated from *leuk- in the sense of 'shine' | | | Sight | JPM |
| *leuk- | shine | Lat lūceō 'shine' Hit lukke- 'shine' Skt rócate 'shines' Toch AB luk- 'shine' Lat lūceō 'kindle' Hit lukke- 'kindle' Av raočayeiti 'makes shine' Skt rocáyati 'makes shine' | | | | Light & Dark | JPM |
| *leukós | light, bright, clear | Olr lōch 'glowing white' Lith laūkas 'blazed, with a white spot on the forehead [of animals]' Grk leukós 'light, bright, clear' Skt rocá- 'shining, radiant' | | | | Light & Dark | JPM |
| *leup- | peel | Lith lupù 'peel' Skt lumpá ti 'break, violate, hurt' | | | | Reductive Activities | JPM |
| *li(w)- | lion | Rus lev Grk līs | Suspected by some to be a borrowing from Hebrew layiw 'lion' | | | Fauna | JPM |
| *linom | flax | NWels llin 'linen, flax' Lat līnum 'linen, flax' Lith linaĩ [pl.] 'linen, flax' Rus len 'linen' Grk línon 'flax, thread, linen' | | | | Plants | JPM |
| *loh□po- | cow | Latv luōps 'cow' Alb lopē 'cow' | | | | Fauna | JPM |
| *loid- | play, jest | Lat lūdō 'play' Grk lízei 'plays' | | | | Values | JPM |
| *loik(*)-u- | left behind | | | | | | IIAL |

Sheet1

| | | | | | | | |
|----------------------------|--|--|--|---|--|---------------------|------|
| *loik ^w -no(s)- | property left by bequest | | | sometimes scanned in three syllables /ra(y)iknas-/ in the RV (cf. Lubotsky 1995: 218f. for a discussion possibly under influence of rayi-) | | | IIAL |
| *lóik ^w -nes- | (inherited) possessions | OE loēn 'loan, lease, grant, leased land' NE loan Av raēxnah- 'inheritance, goods' Skt rékṇas- 'inherited possessions' | from *leik ^w - 'leave' | | | Exchange & Property | JPM |
| *lōk- | weasel | Latv luoss Rus láska NPers rāsū | | ? | | Fauna | JPM |
| *lóks | salmonid, salmon trout | OE leax 'salmon' OHG lahs 'salmon' [> NE lox] Lith lāšis 'salmon' Rus losósi 'salmon' Arm losdi 'salmon trout' Oss læsæg 'salmon trout' Toch B laks 'fish' | | | | Fish | JPM |
| *lokús | lake, water, pond | Old Ir loch 'lake', Lat lacus 'lake, cistern' OE lagu 'water, lake, river' OCS loky 'pool' Grk lákkos 'pond, cistern' | | | | Water | JPM |
| *lond ^h -uo- | *to sink, to fall > *deepening > indentation (a body area) (?) | | {1} Possibly, replacing **rándhva- with řa- by analogy with udára-, jathára- 'stomach'. {2} See also Schrijver 1993 for Celtic cognates (Old Ir. land 'free land', MW llan 'area'. etc.). | | | | IIAL |
| *lond ^h u | loins | Lat lumbus 'loin' OE lendenu [pl.] 'loins' Rus ljádveja 'loin, hip' Skt rándhram 'loins' Grk iksús | | | | Body (Lower) | JPM |
| *lónko/eh ₂ - | valley | Lith lankà 'valley, river-meadow' OCS lōka 'gulf, valley, meadow, marsh' Toch B lenke 'valley' Late Latin (< Gaulish?) *lanca 'depression, bed of a river' | Only in Baltic, Slavic, and Latin | | | Earth | JPM |

Sheet1

| | | | | | | | |
|---------------------------|---|---|--|--|--|-----------------|------------|
| *lōp- | ± strip of cloth, bast, or hide used for clothing | OE lōf 'headband' Lith lōpas 'patch' Rus lāpotī 'bast shoe' Grk lōpos 'clothes made from skins' | West Central derived from *lep- 'strip (off)' | | | Textiles | JPM |
| *lorgeh□- | club | Olr lorg 'club' ON lurkr | North-West | | | Weapons | JPM |
| *los- | cloth | Khot r(r)aha- 'cloth' Skt las-pūjanī- 'large needle' [< **'cloth piercer'?] MHG lasche 'rags' Rus lōskut 'rags' Lith lāskana 'rags' | | | | Textiles | JPM |
| *losiwos | weak | Goth lasiws 'weak' Toch B leswi 'attacks of weakness' NE lazy | | | | Health&Sickness | JPM |
| *lōub ^h o/eh□- | bast, bark | Lith luōbas 'rind, bark' Rus lub 'bast, bark' Alb labē 'rind, bark, crust' Lat liber 'bast book' OHG louft 'bark, bast' | [Latin 'book' because bast, especially beech-bast, provided an early writing medium] | | | Trees | JPM |
| *louh : trom | (wash-) basin | Olr lōthar 'tub, basin' Lat pō-lūbrum 'wash-basin' Grk loetrón 'bath' | West Central from *louh : - (also reconstructed as *leuh : -) 'wash' | | | Containers | JPM |
| *lōuk(es)- | light | Lat lūx Arm loys Av raočah- Skt rocī- Toch B lyuke | | | | Light & Dark | JPM |
| *loukos | space, world, place | | | | | | Beekes |
| *louksneh□- | moon | Lat lūna OCS luna OPrus lauxnos 'stars' | North-Western | | | Air | JPM |
| *lowh : -tro- | bath | Lat. lauābrum G loetrón | | | | | Celt. |
| *lu- *luh□s- | louse | NWels llau NE louse Lith vievesa Rus vošī Skt yūka | {1} The IE reconstruction is uncertain because of many tabooistic changes. | | | Bug | JPM IAL |
| *luč- | lynx | Olr lug OE lox Lith lūšis Rus rysī Grk lúgks | | | | Fauna | JPM |

Sheet1

| | | | | | | | |
|-------------------------|------------------------|---|--|--|--|---------------|--------------|
| *m-h. em- | mother | NWels mam 'mother' Lat mamma 'breast mu/ommy, grandmother' OHG muoma 'aunt' Lith mamà 'mother' Rus máma 'mother' Alb mēmē 'mother' Grk mámmē 'mother' (later 'grandmother') Arm mam 'grandmother' NPers mām 'mother' Skt mǎ 'mother' | | | | Kinship | JPM |
| *m(e)h□d- | become wet, moist, fat | Olř maidid 'breaks, bursts forth, gushes' Lat madeō 'am moist, drip' Alb maj 'feed, fatten [of animals]' Grk madádō 'am damaged by wetness or humidity, drip') Av mađa- Skt máda- OE mete 'food' NE meat | | | | Qualities | JPM |
| *m(e)uh□- | wash (in urine?) | OPrus amūsnan OCS myjo Cypriot Grk mulásasthai Mlr mūm 'urine' Skt mū tra- 'urine' | Some have suggested that the meaning here has shifted from 'wash' to 'dirt' although it should be noted that urine was employed by the Romans as a mouthwash and was a component of toothpastes and mouthwashes up the eighteenth century in India, the walls of a room might be washed in cow's urine to honour a guest, so there is some evidence that the notion of urine as a cleanser is of Proto-Indo- European age. | | | Clean | JPM |
| *mag ^h - | be able | NE may Lith magé'ti 'please, be agreeable' OCS mogo 'am able' ?Av moxu- ?Skt maga- 'magician' | The -g- of Sanskrit rather than the expected *-gh- is difficult | | | Being & Doing | JPM |
| *mag ^h us | young man | Corn maw 'youth servant', mowes 'young woman' OE mago 'son; man; servant' OEmæg(e)þ 'maiden, virgin; girl; wife' NE maiden Av maava- 'unmarried' | from the semantically similar *magh- 'be able' | | | Family | JPM Celt. |
| *mag ^h wih□- | young woman | | | | | Family | JPM |
| *mai- | soil, defile | NE mole Lith miēles 'yeast' | North-Western | | | Earth | JPM |

Sheet1

| | | | | | | | |
|--------------------------------|------------------------------|---|---|----|--|----------------|------------|
| *māk- | press | Lat mācerō 'tenderize by marination' Latv mākt 'oppress, depress' Czech mačkatí 'press, squeeze' | North-West | | | Bend and Press | JPM |
| *makros | thin, long | Lat macer 'lean, meagre, thin' [which via French is borrowed into English as meagre] ON magr 'thin' Grk makrós 'long, big, high deep, long-lasting' Hit maklant- 'thin' Av mas- 'long' | | | | Shape | JPM |
| *mand- | enclosure, stall | | Eastern found in Greek, Indo-Iranian, and Thracian. No examples given (SGM) | | | Dwelling | JPM |
| *mant- *mand ^h - | chew | Lat mandō Olr mētal 'belly' OHG mindil 'bite' dialectal Grk máthuiai 'jaws' | West Central | | | Food & Drink | JPM |
| *manu- | Man, ancestor of | Germanic Mannus, the mythological ancestor of the Germans Skt Mānu Indo-Iranian ancestor of humanity | | | | Dieties | JPM |
| *márkos | horse | Olr marc 'horse' NE mare | Attested only in Celtic and Germanic | | | Fauna | JPM |
| *masdos | post | Lat mālus 'mast upright in building a tower' NE mast | North-Western | | | Construction | JPM |
| *mat- | ± worm, maggot, | OE maða 'worm, maggot' OE moppe (> NE moth) Arm mat'il 'louse' Av maaxa- 'grasshopper' | | | | Bug | JPM |
| *mat- | hoe, plough | Lat mateola 'hoe' OHG medela 'plough' OCS motyka 'hoe, mattock' Skt matyá- 'harrow' | | | | Tools | JPM |
| *māwort- | god of war | Lat Mārs Skt Marutás | | ?? | | Dieties | JPM |
| *mē | no, not prohibitive particle | Alb mos Grk mē Arm mi Skt mā Toch B mā | does not appear in the North-West {1} impv. of an aor. root *meh - 'halt, stop', cf. Hitt. memma- 'to refuse' ? | | | Conjunctions | JPM IAL |

Sheet1

| | | | | | | | |
|--------------------------|---------------------------------|---|---|--|--|--------------------|---------------|
| *mě(m)s | meat | Lat membrum 'member, part of a carcass' Grk me Goth mimz Lith mėsà OCS męso Alb mish Arm mis Skt mās- □ māsà- Toch B mīsa [pl.] Grk ménigks 'skin, meninges' Olr mīr 'bit [< *bit of meat], portion, share' Rus mjazdrá 'meat side of skin' | It is suggested that it also has Celtic cognates including the name of 'Ireland' itself, i.e. both the goddess Eriu and the name of the island is 'fertile' (< *pih□weryōn), i.e. fertile land (one might compare the name of a district in Thessaly, Pieriá, and the Homeric phrase pēiran árouan 'fertile land'). | | | Meals | JPM |
| *me/o- | interrogative or relative parti | Bret ma □ may 'that' Hit masi 'how much' Toch A mǎnt 'how' | | | | Relative Pronouns | JPM |
| *med- | heal, cure | Lat medicus 'doctor' Av vī-mad- 'healer' | Probably a specialized development of PIE *med- 'measure'. | | | Health&Sickness | JPM |
| *med- | measure, weigh | Olr midithir 'judges' Lat meditor 'meditate' OE metan 'measure, mete out' [> NE mete] Grk médomai 'provide for, be mindful of ', médomai 'intend plot' Arm mit 'thought, reason' Lat medeor 'cure', medicus 'doctor' Grk Mēdos god of medicine Av vi-madaya 'act as ahealer' | | | | Measure & Quantity | JPM |
| *med ^h -mh□o- | middlemost | | {1} The -y- in Skt. madhyamá- is analogical after mādhyā-. | | | | IIAL |
| *méd ^h u | mead | Olr mid 'mead' NE mead Latv medus 'honey mead' OCS medŭ 'honey wine' Grk méthu 'wine' Av maθu 'berry wine' Skt mādhu 'honey wine' Toch B mit 'honey', mot [< *mēdhu-] 'alcoholic drink' | | | | Meals | JPM Beekes |
| *med ^h wih□- | intoxicator | Olr Medb, the queen of Connacht Skt Mādhavī, a daughter of Yayāti | | | | Meals | JPM |

Sheet1

| | | | | | | | |
|-----------------------|--------------|---|--|--|--|--------------------|----------------------|
| *med ^h yos | middle ? | Lat medius NE mid Mlr mide 'middle' OPrus median 'forest' [< 'that which lies between (settlements)'] Rus mežá 'border' Alb mjesditë 'noon' Grk mésos 'middle' Arm mēj 'middle' Av maiya- 'middle' Skt mādhyā- 'middle' | | | | Position | JPM Beekes IAL |
| *megh-, -kléuos | fame (great) | | | | | | Beekes |
| *me ġ h□- | large, great | Olr maige 'great, large' Lat magnus 'large' OE micel 'large' Alb madh 'large', Grk mégas 'large' Arm mec 'large' Hit mēkkis 'much, many, numerous' Av maz- 'large' Skt māhi- 'large' Toch B māka 'many' | Pnly much (with unexpected loss, dating to Middle English, of the final -l) and the dialectal mickle (corresponding in form to Grk megálos) survive as direct descendants in English, although the Greek-derived prefix mega- is quite productive in modern English. | | | Measure & Quantity | JPM Beekes |

Sheet1

| | | | | | | | |
|------------------------|-------------|--|--|--|--|-----------------|------|
| *meh ₁ - | measure | | {1} Hypercharacterized form. {2} [AL] Iranian maH- [2] 'to be, become' (cf. Cheung 2007) is probably a specific usage of the same root. | Present III: mimīhī [2sg.impv.act.], mīmīte [3sg.med.] (RV+) Aorist R: māhi [2sg.impv.act.] (RV), māsva [2sg.impv.med.] Aorist S: āmāsi [1sg.med.] (AV), māsātai [3sg.subj.med.] {1} (AV) SI-impv: māsi (RV) Perfect: -mamur [3pl.act.] (RV 01.110.05), mamātur [2du.act.] (RV 03.032.07), mamé [3sg.med.] (RV-YVm) Abs: -māya (RV), mītvā (RV) TA-Ptc.: -mita- (RV+) Inf: prati-mái, pra- mé (RV) | | | IIAL |
| *méh ₁ -nōt | moon | OIr mī 'month' Lat mēnsis 'month' NE moon, month Lith mėnuo 'moon, month' OCS mēsēcī 'moon, month' Alb muaj 'month', Grk mėn 'month' Arm amis 'month' Av mā 'moon, month' Skt mās- 'moon, month' Toch B meñe 'moon, month' | from the verb *meh ₁ - 'to measure' | | | Air | JPM |
| *meh ₁ -ns- | moon, month | | {1} From IE *meh ₁ - 'to measure'. | | | | IIAL |
| *meh ₁ (i)- | grow | Hit māi- 'grow' Skt mīmīte 'is conceived, grows [of the fetus in the womb]' Toch B maiwe 'youth' | | | | Vital Functions | JPM |
| *meh ₁ (i)- | mumble | OCS mūmati 'stammer' Grk mimikhmós 'neigh' Arm mayem 'bleat' Skt mīmāti 'bleat' Hit memma- 'speak' | | | | Human Sounds | JPM |

Sheet1

| | | | | | | | |
|--------------------------|---|---|--|---|--|--------------------|---------------|
| *meh , l- | small animal | Olr mīl '(small) animal' NDutchmaal 'young cow' NE small Grk mēlon 'sheep, goat' | West-Central NE small has the s-mobile | | | Fauna | JPM |
| *meh , ns *mēh , tis | month measure | Lat mētiōr 'measure' OE moēþ 'measure' Alb mot 'season rainstorm' Grk mētis 'plan Skt māti- 'measure' Hit mēhur 'time' | | | | Measure & Quantity | Beekes JPM |
| *meh , lom | apple | Hittite mahla- 'grapevine' Lat mālum Grk mēlon Alb mollē [borrowed from Latin or Greek?] | | | | Trees | JPM |
| *meh , trōus *meh □ - | mothers brother wave/trick (with the hand) | Rus ob-manūtī 'trick, deceive' Skt māyā 'trick, illusion' Toch A māsk- 'switch, juggle' Lith mōju 'wave, signal with the hand' | | | | Values | Beekes JPM |
| *meh □ (t)- | good | Olr maith 'good' Lat mānis 'good' | North-West | | | Values | JPM |
| *meh □ k- | poppy | OHG maho □ mago OPrus moke Rus mak Grk mēkōn | West-Central | | | Plants (Wild) | JPM |
| *mēh □ r, | hand | Lat manus 'hand' OE mund '[palm of the] hand, protection' Goth manwus 'at hand, ready' Grk mārē 'hand', iōmōros 'having arrows at hand' Alb marr 'take, grasp', Hit māniyahh- 'hand over', māri 'manual tool, weapon' | Heteroclitic r/n | | | Body (Upper) | JPM |
| *mēh □ tēr | mother | Olr māthair Lat māter NE mother OPrus mothe OCS mati Grk mētēr Phryg matar Arm mayr Av mātar Skt mātār- Toch B mācer | {1} [AL] Although this compound can be interpreted in three ways (1. haplology < *hama-mātar-, cf. OP hama-pitar-, Gr. ὁμο- μήτηρ 2. = ham-mātar-, cf. RV sam-mātar- 3. < *sm-, cf. Gr. ὁ-πατήρ), the first option is by far the most credible one, in view of the parallel OP formation. | mātā [nom.sg.], mātāram [acc.sg.], mātūr [gen.sg.], mātārā [nom.acc.du.] 'parents', etc. | | Kinship | JPM IIAL |
| *mēh □ trōus | maternal kinsman maternal uncle | Grk mētrōs | Greek Only | | | Kinship | JPM |

Sheet1

| | | | | | | | |
|--------------------------------|-----------------|--|---------------------------|--|--|---------------------|-----|
| *meh□truh□- | mothers sister | OE mōdrige 'mother's sister' Grk mētruiá 'stepmother' Arm mawru 'stepmother, mother-in-law' | perhaps just motherly-one | | | Kinship | JPM |
| *mei- | exchange | Latv mīju 'exchange' Av fra-mita- 'changed' Skt máyate 'exchanges', mināti 'exchanges, deceives' Toch B māsk- 'exchange' Olr mōin 'treasure' Av maēni- 'punishment' NE mean | | | | Exchange & Property | JPM |
| *mei- | less | Lat minus 'small' Goth minnists 'smallest' Grk minuōrios 'short-lived' v. *minéuti > Corn minow 'lessen' Lat minuō 'lessen' Grk minúthō 'lessen, decrease' Skt minóti 'lessens' | | | | Measure & Quantity | JPM |
| *mei-no- | opinion | Olr mīan 'wish, desire' NE mean, bemoan OCS mēnjq 'mention' Toch B onmim 'remorse' | | | | Knowledge & Thought | JPM |
| *mei ġ ^(h) - | barley (grain?) | Olr mīach 'measure of grain, bushel' Lith miēžiai Khot māšša- 'field' ??? | | | | Plants | JPM |
| *meig ^h - *meik- | close the eyes | Toch B mik- 'close the eyes' Lith (už-)migti 'fall sleep' Rus mžatī 'blink' Lat micō 'move quickly, flash' | | | | Sight | JPM |

Sheet1

| | | | | | | |
|---------|---------------------|---|--|--|--|-----|
| *meih□ | diminish, disappear | | {1} [AL] Rather here and not to may [2]. Mh does not mention this form. | Present IX: mināti [3sg.act.] (RV), minīt [3sg.inj.] (AV) Present IV: mīyate [3sg.med.] (RV+), mīyāte [3sg.med.] (MS, ŚB) Aorist S: meṣi [1sg.inj.med.] (AV), meṣmahi [1pl.inj.med.] (YV+) Perfect: mimāya [3sg.act.] (RV), mīmāya [3sg.act.] (AV) Aorist mediopass: āmāyi [3sg.] (YVp, ŚB) Intensive: ā-mēmyāna- [ptc.int.med.] (RV 01.096.05) {1} Desid: mimīṣati [3sg.act.] (AVP 5.32.10) Inf: pra-mīye 'to harm' (RV 04.054.04) pra-mīyam (RV 04.055.07) | to make the fury disappear': Skt. prá ... manyúm ... mināti (RV IIAL | |
| *meih□- | go | MWels mynet 'go' Lat meō 'go, wander' OCS minq 'pass away, pass by' | North-West | | Come & Go | JPM |
| *meik- | mix stir up | Olř mescaid 'mixes, agitates, troubles' Lat misceō 'mix' NE mix Lith miēšti 'mix' OCS mēsiti 'mix' Grk mīsgō 'mix' Av minašti 'mixes' Skt mekṣayati 'mixes, stirs' | | | Food Prep | JPM |
| *meit- | exchange | Lat mūtō 'change' Goth maidjan 'exchange' Latv mietuōt 'exchange' Skt méthatimithāti 'exchanges' | Underlies the name of the Indo-Iranian Mitra/Mithra, the god in charge of contractual relationships. | | Exchange & Property | JPM |

Sheet1

| | | | | | | | |
|------------|------------------------------|--|--|--|--|----------------------|--------|
| *mel- | argue, contend | ON māl 'speech, legal dispute' Grk mōlēō 'contend, bring an action in a suit' Toch B māl- 'argue, contest' | | | | Conflict | JPM |
| *mel- | good | Lat melior 'better' Lith malonūs 'pleasant' Hit malā(i)- 'approve, be favourable' | | | | Values | JPM |
| *mel- | harm | Olr millid 'harms' Toch B māl- 'wound, damage' | Perhaps related to the verb *melh₂- 'grind' | | | Conflict | JPM |
| *mel-n- | dull or brownish black | Latv melns 'black' Grk mēlās 'black' Skt malinā- 'dirty, black' NWels melyn 'yellow' Lat mulleus 'reddish' OPrus melne 'blue spot' Lith mé'las 'dark blue', mélynas 'blue' Latv mélynas 'black' | | | | Color | JPM |
| *mel(h₁)- | soft | Lat mollis 'soft' OPrus maldai 'young' OCS mladū 'young, soft' Grk bladús 'slack' Arm melk' 'soft, limp' Skt mṛdú- 'soft, tender, mild' | | | | Qualities | JPM |
| *meld- | pray | | seen in some languages, Hitt. Arm. Balto-Slavic North-Western | | | | Beekes |
| *meldʰ- | lightning | | | | | Air | JPM |
| *meldʰ- | pray, speak words to a deity | OE meld(i)an 'announce, declare, proclaim, reveal'; OHG meldōn 'report' Lith meldžiū OCS moljō Arm malt'em Hit maldā(i)- | | | | Formal Speech & Song | JPM |
| *méles- | fault, mistake | | | | | Health&Sickness | JPM |
| *méles- | limb | Breton mell 'knuckle' Grk mélos 'limb' | | | | Body (Upper) | JPM |
| *melh₂- | ± grain, millet to grind | Lat milium | My be independently formed from the verb 'to grind' (*melh₂-) | | | Plants | JPM |
| *melh₂- | grind | Olr meilid Lat molō NE meal Lith malù OCS meljō Grk múlē 'mill' Arm malem Hit mall(a)- Skt mṛṇāti Toch B mely- | | | | Agriculture | JPM |
| *melh₂-k-s | weak, soft | | | | | | Beekes |
| *meli- | badger | Lat mēlēs Slovenian melc | | | | Fauna | JPM |

Sheet1

| | | | | | | | |
|------------|--------------|---|--|--|---|-----------------|---------------|
| *méli(t)- | honey | Olr mil 'honey' Lat mel 'honey' NE mildew [< *'sweet sap'] Alb bletê 'honey-bee' Grk méli 'honey', méliſsa 'honey-bee' Arm melr 'honey' Hit militt- 'honey' | | | | Meals | JPM Beekes |
| *melítih□- | honey-bee | Alb bletê Grk méliſsa | Central From *mélit 'honey' | | | Bug | JPM |
| *melk- | plait, spin | Hitt malk- 'spin, entwine' Toch mālċ- 'joint together, insert' OHG malha 'bag' | | | | Textiles | JPM |
| *melkʷ- | damage | | {1} If connected with Gr. βλάπτω. {2} If connected with Hitt. mārċ-hhi. | Present IV: pra- mr̥cyati [3sg.act.] (JB 2.138:2) Caus: marcáyati [3sg.act.] (RV) Aorist SIS (Prec.): mr̥kṣīṣta [3sg.med.] (RV 01.147.04) TA-Ptc.: mr̥ktá- 'hurt' (RV) | '(let the one who tries) to hurt us (will hurt oneself) with evil speeches': Skt. mr̥kṣīṣta ... duruktáih (RV 01.147.04), abhīśastim ... yó no marcáyati dvayéna (RV 05.003.07) — OAv. daibitīm duš.sastiš...mərəṣīiāt_ (Y 45.1) 'an enemy tries to hurt (us)': Skt. marcáyāt ... arātivā (RV 02.023.07) — YAv. arātdiſca gaēθō.mərəṇciānahe (Yt 13.137) | | IIAL |
| *melo- | bad | Mlr mell 'mistake' Lat malus 'bad' Lith mēlas 'lie' Grk méleos 'miserable, fruitless, vain' Arm melk' 'sin' Av mairya- [an epithet of demonic beings] | | | | Health&Sickness | JPM |
| *mēms-(o)- | meat | | | | | | IIAL |
| *men- | chin | MWels mant 'mouth, jaw' Lat mentum 'chin' Hit mēni- 'chin' | Requires acceptance that the apparently cognate forms are not independent derivatives from *men- 'project' | | | Head | JPM |
| *men- | project | NWels mant 'mouth, lip' Lat mentum 'chin', prō-mineō 'project' Hit mēni- 'face, cheek' Av fra-manyente 'gain prominence' | | | | Shape | JPM |
| *men- | remain, stay | Lat maneō 'remain' Grk ménō 'stand fast, remain' Skt man- 'delay' Olr ainmne 'duty' Arm mnam 'remain, expect' Toch AB māsċ- 'become' possibly Hit mimma- 'refuse' | | | | Dwelling | JPM |

Sheet1

| | | | | | | | |
|-------------------------------|-------------------|--|-----------------------|--|--|---------------------|-----|
| *men- | think, consider | perfect *memónh,e 'think, remember' Lat meminī 'remember' Grk mémona 'yearn' Skt mamné'thinks' present *mnyétor Olr do-moinethar 'believes' Lith miniù 'remember' OCS mīnjō 'think' Grk mainomai 'rage, be mad' Av mainyeite 'thinks' Skt mányate 'thinks') present *mnéh□ti Grk mnēma 'remembrance' Luv m(a)nā- 'see, look upon' | | | | Knowledge & Thought | JPM |
| *mén-mn, | thought | Olr menma 'spirit, sense' Skt mánman- 'mind, perception' | | | | Knowledge & Thought | JPM |
| *men(s)-d ^h (e)h.- | learn | NWels mynnu 'wish' OHG mendōn 'rejoice',munter 'lively' Lith mañdras 'lively, awake' OCS mōdrō 'wise' ? Alb mund 'be able' Grk manthánō 'learn' Av maz-dā- 'stamp in the memory', mazdā 'wisdom' Skt medhā'wisdom' | | | | Knowledge & Thought | JPM |
| *mendo/eh□- | ± (bodily) defect | Olr mennar 'spot, stain' Lat menda 'bodily defect' Lyc mēte- 'damage, harm' Skt mindā 'defect of the body' | | | | Health&Sickness | JPM |
| *meneg ^h - | abundant | Olr meinic(c) 'abundant' NE many OCS mūnogū 'abundant' ?Skt maghá- 'gift, reward, wealth' | North-West | | | Measure & Quantity | JPM |
| *ménes- | thought | Grk ménos Av manah- Skt mánas- | Graeco-Aryan isogloss | | | Knowledge & Thought | JPM |
| *meng- | ± charm, deceive | Mlr meng 'deceit, guile' Grk mágganon 'charm, philtre' Oss mæng 'deceit' | | | | Values | JPM |
| *menk- | lack | Lat mancus 'maimed' OHG mengen 'be lacking' Lith meñkas 'feeble, weak scanty insignificant' Skt mañkú- 'wobbly' Toch AB māñk- 'be deprived of lack' | | | | Exchange & Property | JPM |

Sheet1

| | | | | | | | |
|-----------------------------|-----------------------------|---|--|--|--|----------------------|------|
| *menk- | press | Grk mássō 'knead' Skt mácate 'crushes' OE mengān 'mix' Liith minkyti 'knead, touch' OCS mękūkū 'soft, delicate' | | | | Bend and Press | JPM |
| *menkus | soft | Latv mīkst 'soft' OCS mękūkū 'soft' Alb (Gheg) mekan 'weak' | Baltic-Slavic-Albanian isogloss | | | Qualities | JPM |
| *mens | bear in mind, be thoughtful | | {1} Pllr. *mans < *mens represents the old acc.sg. of *menos. see s.v. mánas-. | | | | IIAL |
| *mens-d ^h h, ro- | wise | | {1} [AL] On the basis of Avestan and Slavic forms, we may conclude that Skt. has introduced zero-grade from *mazdhaH- (see s.v. medhá-). | | | | IIAL |
| *menth, - | stir | ON mōndull 'handle on a pestle' Lith mē.sti 'stir, agitate' OCS męsti 'disturb, molest' Skt mā(n)th- 'stir, whirl, churn, hurt, destroy' Toch B mānt- 'remove, destroy, pour out' | | | | Food Prep | JPM |
| *méntis | thought | Lat mēns 'thought' NE mind Lith mintis 'thought' OCS pamęti 'thought' Av -maiti- 'thought' Skt matí- 'thought' | | | | Knowledge & Thought | JPM |
| *menus *menwos | thin (in density) | Olr menb 'small, tiny' Grk mánu 'small' Arm manr 'small, fine' Skt manāk a little, slightly' | | | | Measure & Quantity | JPM |
| *mer- | braid, bind | NE moor [a boat] [<MLG mören] Grk mérmīs 'cord' | West Central | | | Binding | JPM |
| *mer- | crush, pulverize | Grk marainō 'extinguish [a fire]' Hit mariyattari 'is smashed' Skt mṛṇā ti 'crushes, grinds' Olr meirb 'lifeless' OE mearu 'soft' | | | | Reductive Activities | JPM |
| *mer- | die | Lat morior 'die' Lith mīrštu 'die' OCS mīrq 'die' dialectal Grk émorten 'died' Arm mefanim 'die' Hit mer- 'disappear, die off' Av miryeiti 'dies' Skt mriyāte 'dies' | | | | Health&Sickness | JPM |

Sheet1

| | | | | | | | |
|----------|----------------|---|---|---|-------------|----------------------|------|
| *mer- | disappear, die | | {1} [LK] With the secondary suffix accentuation, see Kulikov 1997. {2} With double characterization. | Present IV: mriyase [2sg.med.] (RV), mriyáte (< *mr-ie-) {1} [3sg.med.] (AV+) Aorist R: mr̥thās [2sg.inj.act.] (RV), marāti [3sg.subj.act.] (RV) {2}, mārāte [3sg.subj.med.] (RV), murīya [1sg.opt.med.] (RV) Aorist S: mr̥ṣi [1sg.inj.med.] (AVP) Perfect: mamā́ra [3sg.act.] (RV+), mam̥rvāṃs- [ptc.act.] (RV+) Fut: marīṣyati [3sg.act.] (AV+) Caus: mārāyati [3sg.act.] 'to kill' (AV+) Desid: mumūr̥ṣati [3sg.act.] 'to desire to die' (Sū.+) Inf: martave 'to die' (AVP) TA-Ptc.: mr̥tā- 'died, dead' (RV+) a-mr̥tā- (< *n̥-mr̥to- | | | IIAL |
| *mer- | shine, shimmer | Lat merus 'pure, bare' OE āmerian 'test, examine purify' Rus mar 'blaze of the sun' Grk marmairō 'shimmer' Skt mārīci- 'shining beam' | | | | Light & Dark | JPM |
| *mer-to- | mortal | | {1} LW in FU (Komi-Zyryan mort 'man' < *mertā) seem to point to *merto- | | See mārtya- | | IIAL |
| *merd- | rub, scrape | Lat mordeō 'bite' Skt mṛdnāti 'rubs' Toch B mār̥tk- 'shave [hair]' | | | | Reductive Activities | JPM |

Sheet1

| | | | | | | | |
|----------|-----------------------|---|---|--|--|---------------------|--------|
| *merh□- | hinder | | {1} [LK] The form is taken as perfect by several scholars (Whitney 1885: 124 Lubotsky 1997a: 1085), but it is missing from the corpus of Kümmel 2000 (thus not qualified as perfect by him) and Bendahman 1993 (thus not a redupl. aor.). {2} [LK] The form is connected with mari {3} by Insler 1972b and Lubotsky 1997a: 1085), but with mari {2} 'to crush' by Mh and Schaefer 1994: 166 or, alternatively, with mardi 'to crush' (Schaefer). {3} Connection uncertain. | Perfect (?): mumurat [2sg.subj.act.] 'shall hinder' (RV 08.097.03) {1} Intensive: marmartu [3sg.impv.act.] 'let (Brhaspati) hinder (him)' (RV 08.097.03) {2} | | | IIAL |
| *merih□- | young woman | Alb shemēr 'co-wife concubine (female) rival' | | | | Family | JPM |
| *merk- | ± darken | Olr mreht- 'variegated' NE morn Lith mérkiu 'close one's eyes, wink' OCS mrakŭ 'dark' | North-West | | | Light & Dark | JPM |
| *mers- | forget | Lith mirštù 'forget, overlook Arm moʿanam 'forget' Skt mŕsyate 'forgets, neglects' Toch AB mäs- 'forget' ??OE mierran 'disturb, confuse, hinder' [> NE mar]) | | | | Knowledge & Thought | JPM |
| *méryos | young man | Lat marītus 'husband lover, suitor' Grk meífraks 'young man or woman' Av mairya- 'young man' Skt márya- 'young man, lover, suitor' | | | | Family | JPM |
| *mesg- | dip under water, dive | Lat mergō 'dip, dive', mergānsēr 'duck' (literally, '*diving goose' or the like) Lith mazgó ti 'wash up' (i.e. '*dip repeatedly') Skt mājīati 'sinks' | | | | Swim | JPM |
| *mesg- | intertwine | ON mōskvi 'mesh' Lith mezgù 'knit', māzgas 'knot' Toch B meske 'joint, knot' MDutch maesche NE mesh | | | | Textiles | JPM |
| *meth₂- | between, with | | | | | | Beekes |

Sheet1

| | | | | | | | |
|-----------|------------------|---|--|---|--|---------------|--------|
| *meu(h□)- | move | Lat moveō 'set in motion' Lith máuju 'put on or off' Grk ameúsasthai 'surpass, outstrip pass over' Hit mauszi 'falls' Av ava-mīva- 'take away' Skt mīvati 'shoves, moves, sets in motion' Toch B miw- 'shake' | | | | Movement | JPM |
| *meud- | be merry | Av maoðanō-kara- 'lust-inducing' Skt módate 'is cheerful', mudrá- 'merry, cheerful' Lith mudrūs 'cheerful, lively'). | | | | Values | JPM |
| *meug- | ± cheat, deceive | Olr formūchtha 'smothered, concealed' Lat muger 'dice cheat' NE meecher | North-West | | | Values | JPM |
| *mēus | moss | Lat muscus 'moss' NE moss Lith mūsos [pl.] 'mould' Rus mokh 'moss' | North-West | | | Plants (Wild) | JPM |
| *meus- | move remove | OHG chrēo-mōsido 'graverobbers' Khot muśša 'robbers' Skt muṣṇāti 'steals' Toch AB musnā- 'lift, move [aside]', musk- 'disappear', mās- 'go' | Would appear to underlie the root noun *mūs 'mouse', i.e. the 'stealer' | | | Movement | JPM |
| *meus- | steal, snatch | | {1} [AL] Neither connected with IE *m(ǵ)euǵh- - 'to move' (pace Pokorny), and nor with the word for 'mouse' (pace Mh). The connection with muṣṭi- seems much more probable. Since the Tocharian verb has a deviating meaning, it is less certain that it belongs here. | Present IX: amuṣṇāt [3sg.impf.act.] (RV) Present ĀYA: muṣāya° (RV) Aorist IS: moṣīṣ [2sg.inj.] (RV+) Aorist R: mósaṭhā [2sg.subj.med.] (RV) Passive: muṣyate [3sg.] (Br., DhSū.+) TA-Ptc.: muṣṭá- 'taken away, robbed' (RV) | | IIAL | |
| *mh :krós | long | | | | | | Beekes |

Sheet1

| | | | | | | | |
|---------------------------------------|--|--|--|--|--|---------------------|-------------|
| *mih. u-V | set into motion (by shoving and pushing) | | {1} [AL] The position of the laryngeal is not quite clear. It does not seem very probable that PIE *miuh ₁ - would have given *mih. u ₂ - > Ved. mīv- before a vowel with metathesis (Rasmussen, Mh). I would rather reconstruct *mih ₁ -u- and *mih ₁ . uC- > *mjuh ₁ -C. Important are the Tocharian cognates, for which see Adams s.v. | Present I: - mīvantī- [ptc.act.f.] 'pushing down' (AV-Br.) Passive: - mīvyamāna- [ptc.] (KSp) TA-Ptc.: *mūta- (< *muh ₁ -tō- < *mjuh ₁ -tō-) in kāma-mūta- 'impelled by love' (RV 10.010.11) mīvitā- (TB+) | | | IIAL |
| *mis-d- | close the eyes | | {1} Probably, a nursery form of *mīl- < *miz- d- (Gotō 1987: 74, fn. 48) | Present I: sam- mīlate (KS), Fut. sam-mīlisyate (KS) TA-Ptc.: sām- mīlita- 'with eyes closed' (KS) Abs: sam-mīlya 'with eyes closed' (RV 01.161.12) | | | IIAL |
| *mis-d ^h (h.)-ós | reward, prize | OE meord 'reward, pay' OCS mīžda 'reward, wages' Grk mīsthós 'reward, wages' Av mīžda- 'reward, gift' Skt mīdhā- 'competition, contest, prize' | {1} [AL] The first part of the cmp. is likely to be derived from the root *mei- 'to exchange' (see may [2]), if the root does not contain an initial *h ₂ -. rather than *mei(H)-es- (māyas-). | | | Exchange & Property | JPM IIAL |
| *mīts | stake, post | Skt mīt- 'pillar, post' | From underlying verb *mei- 'fix a post in the ground' | | | Construction | JPM |
| *mld-u- | soft, weak | | | mradiyāms- [comp] (JB), mradiṣṭha- [sup] (Sū.) | | | IIAL |
| *mld ^h o/eh ₂ - | clay | OE molde 'sand, dust, soil' Grk málthé 'modelling mixture of wax and pith' Skt mṛd- 'clay, loam' | Well attested | | | Earth | JPM |
| *mled- | be soft | | {1} The roots mard(i) and mrad have early become confused in Vedic, cf. Gotō 1987: 250. | Present I: ví mradā [2sg.impv.act.] (RV 06.053.03), ví mradate [3sg.med.] (MS 1.6.3:90.6) Caus: mraday° 'to make soft' (TS) {1} | | | IIAL |

Sheet1

| | | | | | | | |
|--------------------------|-----------------------|---|---|--|---|---------------------|------------|
| *mleuh□- | speak | OCS mlŭvati 'create a disturbance' Av mraoiti 'says, recites' Skt brāviti 'says' Toch B pālw- 'mourn' | | Present II: brāvīti [3sg.act.] (RV+) bruvānti [3pl.act.] (RV+) brūtē [3sg.med.] (RV+) | 'to speak being the knowing one': Skt. vy ābravīt ... vidvām '[Agni] announced [the right paths, since he is a] knowing one' (RV 01.145.05) — OAv. vīduuā vīdušē mraotū YAv. vīdβā mruīdi | Speech | JPM IAL |
| *mlh.d ^h -r- | head, crown | | | | | | IAL |
| *mlh□d ^h -o- | crown of the head | OE molda 'crown of the head' Av kamərəða- 'head of a demonic being' Skt mūrdhān- 'head' | | | | Head | JPM |
| *mlk- | touch lightly | Lat mulceō 'stroke, touch lightly, fondle' Skt mrśāti 'strokes, touches' | | | | Sensation | JPM |
| *mnh□- | minnow; small fish | NE minnow Rus menī 'burbot' Grk mainē 'Maena vulgaris' | | | | Fish | JPM |
| *mns-d ^h eh,- | wise | | | | | | IAL |
| *mōd- | meet | NE meet | West Central | | | Social Organization | JPM |
| *mod ^h eros | blue/green | NE madder SC modar 'blue' < *mod ^h rós Hit āntara- 'blue' [< *mḍ ^h rós] Toch B motartse 'green' [< *modr- tyo-] | This word would be the best candidate for a Proto-Indo-European word for 'blue' or at least 'blue/green'. The association of the Germanic words for 'red' arises from the use of the madder root as a red dye. The current use of madder and its cognates in Germanic to designate the plant Rubia tinctorum is itself a secondary transfer, on the basis of the root's use in dyeing, from an earlier reference to the bedstraws, some of whose species also have roots used to produce red dye. The bedstraws, however, may have been called *mod ^h rós because of their characteristic yellow-green flowers. | | | Color | JPM |
| *moiso- | sheep, skin of sheep | | | | hundred rams': Skt. śatām meṣān (RV) — Elam.-Iran. *θata-m | | IAL |
| *moisós | ram, sheep fleece, | Lith maĩšas 'bag' Rus mekh 'skin' Avmaēša- 'ram' Skt meṣá- 'ram, sheep fleece, skin' Hit maista- 'strand of wool' | | | | Fauna | JPM |
| *moko- | gnat, stinging insect | Lith māšalas 'gnat' Skt maśaka- 'gnat, mosquito' MPers makas 'fly' Latv masalas 'horsefly' Lith mākatas 'gnat' Skt mákṣ- 'fly' | We find dialectal variation in a by-form without a palatal, i.e. *moko- | | | Bug | JPM |
| *moks *moks(u) | soon | Olr mō 'soon' Lat mox 'soon' Av mošu 'as soon as' Skt makṣú 'soon' | {1} [AL] The final length in Sanskrit may be due to the influence of nū (M. de Vaan, p.c.). | | come quickly to help': Skt. makṣum | Time | JPM IAL |
| *mon-éie | warn (to) | | Secondary i-stem, causative | | | | Beekes |

Sheet1

| | | | | | | | |
|---------------------|----------------|--|---|------------|---|-----------------|-------|
| *moni- | necklace | OWels minci 'collar' Lat monĭle 'necklace' OE mene 'necklace' OCS monisto 'necklace' Skt maṇi-grīvā- 'carrying a neck ornament' | The word clearly derives from *mono- 'neck' but the consistently different stem form (i.e. *-i- rather than *-o-) suggests that 'necklace' is not just a metaphorical extension of 'neck'. | | | Ornament | JPM |
| *monis | neck | Olr muin 'neck' Lat monĭle 'necklace' NE mane OCS monisto 'necklace' Av manaoθrī 'neck', minu- 'necklace' Skt mānyā-'nape' | possibly also a derivative of *men- 'project' | | | Head | JPM |
| *mor-tio- | mortal, man | | | /martiya-/ | 'rich mortal': Skt. mártah ... revān (RV 07.001.23) — YAv. raēuuā mašiiia (Yt 14.36) mašiiānaṃ raēuuatəm (Vd 20.1) see also gāya-devā-parās | | IIAL |
| *moreh ₂ | female demon | | | | | | Celt. |
| *mor ġ - | border | Olr mruig 'district' Lat margō 'edge' [> by borrowing NE margin] OE mearc 'border, district' [NE marches is from Old French, in turn from Germanic] Av marəza- 'border country' | | | | Space | JPM |
| *móri | sea | Olr muir Lat mare NE mere Lith mārė OCS morje | North-Western word were it not for a possible cognate in Ossetic: mal 'deep standing water.' Hit mamar(r)a- 'swamp' may be a reduplicated version of the word and, if so, would secure this word to Proto-Indo-European Referred originally to an 'inland sea' or 'lake' and was later extended to mean 'salt water sea' | | | Water | JPM |
| *morm- | ant | Lat formica Grk múrmos | | | | Bug | JPM |
| *mórom | blackberry | NWels merwydd 'mulberry' Lat mōrum 'mulberry, blackberry' Grk móron 'mulberry, blackberry' Arm mor 'blackberry' Hit muri- '[bunch of] grapes' | | | | Trees | JPM |
| *móros | death | Lith māras 'death' OCSmorŭ 'plague' Grk móros 'fate, doom, death', Skt māra- 'death' | | | | Health&Sickness | JPM |
| *mórtos | person, mortal | dialectal Grk mortós 'person dead' Av marəta- 'person, mortal' Skt mártā- 'person, mortal' | | | | Health&Sickness | JPM |

Sheet1

| | | | | | | | |
|---|----------------------|--|---|------------|--|--------------------|------------|
| *morwi- | ant | Olr moirb OCS mravi Av maoirī | {1} [AL] The reconstruction is difficult because of various (taboo) transformations. Plr. points to *marui-. Since the same order of consonants is also found in Slavic and Celtic, this may be the original form. | vamrí- [f] | | Bug | JPM IAL |
| *mosg ^h os *mosg ^h -en- | marrow, brain | NE marrow Lith smāgenēs 'marrow' smēgenys brain' OCS mozgŭ 'marrow, brain' Av mazga- 'marrow, brain' Skt majján- 'marrow' | {1} [AL] In view of Plr. *mastrghan- / mastrghan- and *mast(i)- (cf. s.v. mastrghan-), it seems attractive to assume that *mosgho- reflects earlier *mostgho-. | | | Organs | JPM IAL |
| *móstr | brain, marrow | Av mastreṽan- 'skullwall' [< *'braincase'] Skt mastīṣka- 'brain' Toch A māśśunt [pl.] 'marrow' | Eastern | | | Organs | JPM |
| *moud- | desire strongly | Lith maudžiū 'desire passionately' Czech mdlíti 'desire' Toch B maune 'avarice, avidity' | | | | Desire | JPM |
| *mouro- | ant | ON maurr | | | | Bug | JPM |
| *mreg ^h - | rain softly, drizzle | Latvian merguôt 'rain softly' Grk brékhei 'rains' | | | | Water | JPM |
| *mrég ^h men- ??*mest-(m)rg ^h -n- | brain | OE bregen > NE brain Grk brekhmós 'forehead' | West Central {1} [AL] The first attestation is AVP 17.21.1 (cf. Griffiths - Lubotsky 2003: 201f), before KaušS 11.16, for which see Eichner-Kühn 1976: 23-25. {2} [AL] The word has not yet received a plausible explanation. Neither dissimilation *mazgh- to mast-, nor contaminaton of *št-r-gh and *št-an- is a viable option. There are two variants of the word for 'brain' in Ilr.: *mast(i)- and *mastrghan-. The latter should not be analysed as *mast- plus a bunch of suffixes, but rather as a compound. It can hardly be coincidental that -rgh-an- shows the same sequence of phonemes as we encounter at the end of Gr. βρεχμός [m] 'front part of the head' OE broœgen 'brain' (< PGm. *bra3na-) < PIE *mre/oghn- (Greek may have assimilated -n- to -m-). ToB mrestīwe 'marrow' may have an "intrusive" -r- from a similar compound. | | | Organs | JPM IAL |
| *mr,ġ ^h us | short | Lat brevis 'short' NE merry Grk brakhús 'short [of time or space]' Av mərəzu- 'short' Skt múhu- 'short' | {1} [AL] Skt. -u- in the root is due to dissimilation *mr̥hur [márhur] > [múrhur] > múhur, cf. *śr̥thirá- [śáthirá] > [śir̥thirá] > śithirá- *dur̥hīṇā- [durhāmā-] > durhāṇā- (Narten 1982: 140). | | | Measure & Quantity | JPM IAL |
| *mr̥k- | ± carrot | NE more 'carrot' Rus morkóvi Grk brákana 'wild vegetables' | | | | Plants | JPM |

Sheet1

| | | | | | | | |
|-----------------|--------------------------|---|---|--|--|---------------------|---------------|
| *mr̥t̥is | death | Lat mors Lith mirtis Av m̥r̥eti- | | | | Health&Sickness | JPM |
| *mr̥tóm | death | | | | | Health&Sickness | JPM |
| *mr̥tós | dead, mortal | Lat mortuus 'dead' Grk brotós 'person' Skt mr̥tā- | | | | Health&Sickness | JPM Beekes |
| *mū- | dumb | Lat mūtus 'dumb' [> by borrowing NEmute] Norwegian mua 'be silent' dialectal Grk mukós 'dumb' Arm mun 'dumb' Skt mūka- 'dumb' | | | | Health&Sickness | JPM |
| *mú(k)skos | ass/donkey | Lat mūlus 'mule' ORusmūskū 'mule' Grk mukhlós 'he-ass' | | | | Fauna | JPM |
| *mug- | make a (low) noise | Hit mugā(i)- 'entreat' Lat mūgiō 'low, bellow' OHG muckazen 'grumble' Grk mūzō 'mutter, moan, growl' Skt mūñ jati 'makes a noise' | Would appear to be an enlargement of *mu- a low sound of some sort (in Czech it does mean to 'moo' like a cow) | | | Human Sounds | JPM |
| *muh□-tro- | urine (?) | | | | | | IIAL |
| *murmur- | murmur | Lat murmurō Lith murménti Grk mormúrō Arm mrmrm Skt marmar- 'roaring' | | | | Human Sounds | JPM |
| *mūs *muh□s- | mouse | Lat mūs NE mouse OCS myšī Alb mi Grk mūs Arm mukn NPers mūs Skt mūṣ- Toch B maścītsi 'mice, rats' | derives from the verb *meus- 'steal' {1} [AL] The laryngeal further follows from the probable Toch. B cognate maścīse* 'mouse, rat' (lyšī no māka krui tākam /// šalapā maścītsi špā pešeli šaiššene māskentrā pākri 'if, however, there are many thieves, grasshopper[s], mice and worms appear in the world' (K-8b1)). The Tocharian word reflects PToch. *māst'aise < *m(w)asti- < *muHs-ti- with a diminutive suffix of some kind. | | | Fauna | JPM IIAL |
| *mus- | steal | OHG [Lex Salica] chr̥eo-mōsido 'grave-robbery' Skt muṣṇāti 'steals' Toch B mus- 'steal' Toch AB mus- 'lift, move aside' | The Tocharian example 'lift' is perhaps not far removed from modern NE lift for 'steal' | | | Exchange & Property | JPM |
| *mūs(tlo)- | (little) mouse muscle | Lat mūsculus 'little mouse muscle' [> NE muscle] OHG mūs 'mouse muscle [especially the biceps]' Grk mūs 'mouse muscle' Arm mukn 'mouse muscle' Khotanese mūla- 'mouse muscle' | closely associated with the word for 'mouse' (it means 'little mouse'), and words for 'mouse' may also mean 'muscle' in various Indo-European groups | | | Organs | JPM |

Sheet1

| | | | | | | |
|-----------------------------|---------------------------------|--|---|--|--------------|------------|
| *mus/h□- | fly gnat, midge, mosquito | Lat musca Lith muša OCS mŭšica Grk muia Arm mun | | | Bug | JPM |
| *muskós | male or female sex organ | dialectal Grk múskhon 'male or female sex organs' Skt mušká- 'testicle, scrotum [dual] vulva' | Greek-Indic isogloss | | Body (Lower) | JPM |
| *mustí- | fist | Av mušti- Skt mušti- Toch B mašce | Indo-Iranian-Tocharian isogloss {1} [AL] Janda 1998: 14ff. convincingly argues that this word is not related to Lith. mŭšti 'to beat, to thrash', but rather with Gr. múw 'to close (eyes, mouth)', Hitt. muš- 'to eat one's fill' (= 'to close [the mouth]')? < PIE *mus- 'to close'. Possibly, also the Skt. root moṣ(i) 'to steal' belongs here (orig. 'to snatch'?). | | Body (Upper) | JPM IAL |
| *mVnus | man | NE man Skt mánu- 'man, person' | Rests on a not entirely clear Germanic-Indic isogloss many claim to go back to *men- 'think', presumably under the illusion that man is a coanitive creature | | Family | JPM |
| *n̥ | negative prefix | | {1} Zero grade to *ne 'not'. In IE, *n̥- was restricted to verbal adjectives and bahuvr̥hi-compounds. {2} an- has originated in compounds with 2nd member in *HV- (*n̥HV- > anV-) and then was analogically prefixed to 2nd members with initial vocalic resonant. wuh? | | | IAL |
| *n̥-h.rg-etos | from when one may not be awoken | | | | | Beekes |
| *n̥-h.eig ^{wh} os- | impeccable | | | | | IAL |
| *n̥-h.b ^h elēs | useless | | | | | Beekes |
| *n-h.en- | mother | Lat nonnus NWels nain 'grandmother' Late Lat nonnus 'nurse' Alb nëne 'mother' Rus njánja 'nurse' Grk nánñē 'female cousin, aunt' NPers nana 'mother' Skt nanā- 'mother' | | | Kinship | JPM |
| *n̥-mr̥-tós | undying | Av aməša- Skt Amṛta- Grk ambrosiā | | | Meals | JPM |
| *n̥-mrtós | immortal | | | | | Beekes |
| *n(é)h.tr- | snake | Olr nathir [gen. nathrach] Lat natr̥ix 'watersnake penis' Goth nadrs 'snake, viper' OE næddre 'adder' | | | Fauna | JPM |
| *n(o)h□t- | ± rear-end | Lat natis 'human buttocks' Grk nōton 'back' | West Central | | Body (Lower) | JPM |
| *nak- | press, squeeze to felt | Lat naccae 'cloth-fullers' Hitt nakki- 'weighty, important' | If it only meant 'press' in Proto-Indo-European (or Proto-Indo-Hittite), the meaning 'felt' may have been a later and secondary development. | | Textiles | JPM |

Sheet1

| | | | | | | | |
|--|-------------------------------|--|---|--|---|--------------|-----------------------|
| *nák(es)- | ± pelt, hide | OE næsc 'dressed fawn's skin' OPrus nognan 'leather' Grk nákos □ náķē 'pelt, fleece, hide of deer or goat' | West-Central | | | Body (Upper) | JPM |
| *nant- | combat, fight [noun] | Olr nēit 'battle, combat' ON nenna 'strive' | North-West | | | Conflict | JPM |
| *nþ ^h -ro- | rain cloud | Lat imber 'shower' Skt abhrá- 'rain-cloud' Grk ómbros 'rain' Toch B epprer 'sky' | also, *-ri- {1} [AL] Frisk I: 197 is opposed to this connection. Gr. ὄμβρος 'rain, downpour, thundery shower' cannot be connected for formal reasons (no initial laryngeal, -β-). Also Alb. avull 'smoke' is most probably | | | Water | JPM IIAL |
| *nd ^h és *nd ^h ero- | under, low | ON und 'under' Arm ænd 'under' Lyc ēti 'down, below' Skt adhás 'under' Toch B ette 'downward, under' Lat Infernus 'lower' NE under Goth anderas 'lower' Lycian ētre/i- 'lower' Av aḏara- 'the lower' Skt ádhara- 'lower' | | | | Position | JPM Beekes |
| *ne *ne | like no, not | Lat nōn OE ne Lith ne OCS ne Hit natta Skt ná *ñ- Lat in- Gmc un- Grk- a- Av- a- Skt a- | {1} = ná [1] | | '(certainly) not': Skt. néd (RV+) — Av. nōit_ 'certainly not': Skt. néd evá (RV 10.051.04) — OAv. nōit_ aēuuā 'or not': Skt. ná vā (RV+) — YAv. na-uua (V 5.26) — Lat. nēve, neu 'not at all': Skt. ná vái (RV+) — YAv. na-uua 'no-one': Skt. ná-kiḥ (RV, AV) — Av. naē-ciš — Oss. nī-cy / ne-ci — Lat. ne-quis 'there is no ...': Skt. nāsti (RV+) — OCS něstь | Conjunctions | Beekes JPM IIAL |
| *nē | as, thus | Lith ne OCS neže Grk tōne, 'like' Skt ná Lat nē (interrogative particle) OHG ne (interrogative particle) | | | | Conjunctions | JPM |
| *néb ^h os | mist, cloud; sky ?moisture | Olr nem 'heaven' Lat nebula 'mist, fog' OE nifol 'dark' Lith debesis 'cloud' OCS nebo 'sky' Grk néphos 'sky' Skt nábhas- 'mist, cloud sky' Hit nēpis- 'sky' | | | | Air | JPM IIAL |

Sheet1

| | | | | | | | |
|----------------------|--------------------------|--|--|---|--|-----------------|-----------------------|
| *ned- | knot, bind | Olr naiscid 'binds' Lat nectō 'knot, bind' [influenced by pectere 'comb wool'], nōdus 'knot' NE net Av naska- 'bundle' ??Grk adikē 'nettle' ??NE nettle | North-West | | | Textiles | JPM |
| *ned- | nettle | Mlr nenaid 'nettle' NE nettle Grk adikē 'nettle' Lith nōterē 'nettle' Slovenian nāt 'nettle' | West-Central | | | Plants (Wild) | JPM |
| *ned- | roar, rustle | | {1} [LK] Thus according to Jamison 1983: 60f., contra most scholars' causative analysis ('to make resound'). Jamison's analysis is again disputed by Gotō 1987: 192, fn. 356 ("nicht wahrscheinlich"). | Present I: nādant- [part.act.] (AV+) Present X / Caus: nadáy° 'to resound' {1} (RV) Intensive: nānadati [3pl.act.] 'to resound, roar loudly' (RV), nānadat- [part.act.] (RV, AV) nānadya° (JB) | | | IIAL |
| *ned-ih₂- | resounding, rustling (?) | | | vr̥kí-inflexion: nadyām [acc.sg.], nadyāḥ [gen.sg., nom.acc.pl.], nadī [loc.sg.] | | | IIAL |
| *nedós | reed, rush | Lith néndrē 'reed' Luv nātatta- 'reed' NPers nai 'reed' Skt nadá- '+reed' | {1} The original form of the word is nadá- with unexplained -ḡ-. | | | Plants (Wild) | JPM IIAL |
| *nedskéh₁- | tie, ring | Olr nasc 'fastening tie, ring' OHG nuska 'metal clasp' | North-West | | | Textiles | JPM |
| *negʷhrós | kidney | ME nēre 'kidney' Grk nephros 'kidney' | West Central | | | Organs | JPM |
| *negʷnós *nogʷnós | bare, naked | Grk gumnós Hit nekumant- Av maxna- Skt nagnā- Lat nūdus NE naked | Latin and English forms are derived: *nogwed'o {1} [AL] For a discussion of the various suffixes in this word see Beekes 1994. | | | Health&Sickness | JPM Beekes IIAL |
| *neh₂- | be timid | Mlr nār 'modest' Hit nāh- 'be afraid' | | | | Values | JPM |
| *neh₂u-h₂o ḡ o- | skipper | | | | | | IIAL |
| *neh₃ | us both | | | | | | IIAL |

Sheet1

| | | | | | | | |
|------------------------------------|----------------|--|---|--|-------------------|-----------------|-----------------------|
| *neh ₃ d ^h - | be in distress | | {1} Also nāthitá- (RV+) with -th- taken from the root nāth- 'to seek aid'. | Present I: nādhāmāna- [ptc.med.] (RV+), nādhai [1sg.subj.med.] (ŠBK 4.5.1.16) TA-Ptc.: nādhitá- 'oppressed' (RV) {1} | | | IIAL |
| *néh□us | boat | Olr nāu Lat nāvis [> NE nave (of a church)] Grk nauūs Oss naw Skt nau- | from *(s)néh□- 'swim' {1} Formed on the basis of Acc.sg. nāv-em. | | | Transport | JPM IIAL Beekes |
| *néh□wis | corpse | Goth naus 'corpse' OPrus nowis 'corpse' ORus navī 'corpse' Toch A nwām 'sick' | | | | Health&Sickness | JPM |
| *neid- *neig ^w - | flow wash | Olr nigid Grk nízō Av naēnižaiti 'washes' Skt nénekti 'washes' | although there are problems with the Irish form (as Proto-Indo-European *g ^w > Celtic b and not g). Tocharian lik- 'wash' may belong here too, if the initial l- can be explained as resulting from the contamination of some other root (e.g. *leuh- - 'wash'). | Present I: -nédanti Present III: ninikta [2pl.impv.act.] (RV 10.132.06) Aorist R: nir- nijānā- [ptc.med.] (RV 09.069.05) Aorist A: anijam [1sg.act.] (AV 10.4.19 +), anijan [3pl.act.] (AV+) Aorist S: anikṣmahī [1pl.med.] (AVP 16.149.12), nikṣi [1sg.inj.med.] (AV 10.5.15-21) Aorist SIS: anaikṣīt [3sg.act.] (AV 2.7.1) Caus: nejay° (Br.+) Intensive: nenikté [3sg.med.] (RV 09.071.03 +) TA-Ptc.: niktá- 'washed clean' (RV+) | [3pl.act.] (YVp+) | Clean | IIAL JPM IIAL |
| *neih□- | churn butter | | {1} A technical usage of nayi ? | | | | IIAL |

Sheet1

| | | | | | | | |
|---------|--------|---|--|--|---|-------------|---------------------|
| *neih□- | lead | | | | | | |
| *neih□- | lead | Hit nāi- 'leads' Skt náyate 'leads' | | Present I: náyati [3sg.act.] (RV+) Present II (nonce): nethá [2pl.act.] (RV 10.126.02), ánītam [3du.impf.med.] (RV 01.121.05) Aorist S: anait [3sg.act.] (AV+), anaiṣam [1sg.act.] (MS), naiṣta [3sg.inj.med.] (RV), néṣat [3sg.subj.act.] (RV) SI-impv: neṣi (RV+) Perfect: nináya [3sg.act.] (RV+), niniyāt [3sg.opt.act.] (RV) Passive: nīyáte [3sg.] (RV+) Fut: neṣyati [3sg.act.] (AV+) Intensive: nenīyá° (RV+) Desid: nínīṣasi [2sg.act.] (RV 08.103.04 +) Inf: neṣāṇi 'to lead' (RV) TA-Ptc.: nītá- | 'to lead a horse': Skt. áśvam ... nay °(RV+), *aśva-nī- PN ('led by the horse' (??) (Mitanni-IA) — YAv. aspa ... naiti° — OP. asam frānayam 'to lead away the bound one': Skt. baddhām nay° (RV 10.034.04) — YAv. bastəm naiti° — OP. basta anayatā | Travel | IIAL JPM IIAL |
| *neik- | begin | Lith u-ninkù 'begin' OCS vŭz-nīknoti 'regain consciousness' Hit nini(n)k- 'start up, mobilize' | | | | Movement | JPM |
| *neik- | winnow | NWels nithiaf Lith niekóti Grk likmáō | | | | Agriculture | JPM |

Sheet1

| | | | | | | | |
|---------|-------------------|---|--|---|--|-----------------|--------------|
| *nek'- | disappear. perish | | | Present IV: nášyati [3sg.act.] (RV+) Aorist RED (intr.): néšat [3sg.inj.act.] (RV), ánéšan [3pl.act.] (YV) Perfect: nanāša [3sg.act.] (RV 09.067.30 , 10.017.01), - nešur [3pl.act.] (BĀU 1.3.7 = ŠB 14.4.1.8) Fut: našišyati [3sg.iact.] (AV+) Caus: nášáy° 'to make disappear, to destroy' (RV+) Aorist RED (tr.- caus.): anīnašat [3sg.act.], nīnašah [2sg.inj.] 'to damage' (RV+) TA-Ptc.: naštá- (RV+) | | | IIAL |
| *nek'- | perish, die | Lat necō 'kill' Av nasyeiti 'disappears' Skt nášyati 'is lost, disappears, perishes' Toch B nakštār 'disappears, perishes' | | | | Health&Sickness | JPM |
| *neks- | death | Lat nex 'death' Grk néktar 'nectar' [< *death- conquering'] | | | | Health&Sickness | JPM |
| *nékus | death; dead | Grk nékus 'corpse' Av nasu- 'corpse' Toch B enikwe 'man' [< *mortal'] | | | | Health&Sickness | JPM Celt. |
| *nekʷt- | night | Olr innocht 'at night' Lat nox 'night' NE night Lith naktis 'night' OCS noštī 'night' Alb natë 'night' Grk núks 'night' Hit nekuz 'at night' Skt nákt- 'night' Toch A nokte 'at night' | | nom.sg. nág, acc.sg. náktam, nom.acc.du. náktā acc.pl. náktīh (analogical after rátrīh), instr.pl. naktábhih (after áhabhih) | | Time | JPM IIAL |

Sheet1

| | | | | | | | |
|----------|---------------------|---|--|--|---|----------------|-------------|
| *nem- | bend | Av nēmaiti 'bends' Skt nāmāti 'bends, bows, submits oneself to' Toch AB nām- 'bend' NWels nant 'valley' Gaul nanto 'valley' Olr neimed 'sacred grove' Lat nemus 'sacred grove' Fris nimidas 'sacred grove' Grk nēmos 'sacred grove' | 'sacred grove' meaning based on the supposition that we have 'bend' > 'bow in reverence' > 'place where one honours the gods'. {1} [LK] Probably perf.subj. rather than reduplicated aor. see Bendahman 1993: 145, Kümmel 2000: 279. | Present I: namanti [3pl.act.] 'to bend' (tr.) (RV+), nāmate [3sg.med.] 'to bend (oneself)' (intr.), 'to bend (for oneself)' (tr.) (RV+) Aorist S: anān [3sg.act.] (KS), anaṃsata [3pl.med.] (Br.), naṃsante [3pl.subj.med.] (RV) Perfect: nānāma [3sg.act.] 'has bent (oneself)' (intr.) (RV), neme [3sg.med.] (RV 01.057.05) nanāmas [2sg.subj.act.] {1} 'to turn away' (RV 01.174.08 = 02.019.07) Fut: naṃsyati [3sg.act.] (Br.) Caus: namáy° 'make bow' (RV+), namay° (Up.+) Aorist RED: nīnamas [2sg.inj.act.] (RV 08.024.27) Intensive: | | Bend and Press | JPM IIAL |
| *nem- | take/accept legally | Olr nem 'gift' Lith núoma 'rent' Av namah- 'loan' Toch B ñemek 'harvest' Grk nēmō 'distribute, possess' NHG nehmen 'take' | | | | Give & Take | JPM |
| *nem-os- | distribution | | | | 'homage to you (greeting)': Skt. námas te (RV+) — YAv. nāmasə.tōi, nāmasə.tē 'to bring homage': Skt. námas-bhar- (RV+) — YAv. nāmō bar- 'sacrifice with homage': námasā miyédhaḥ (RV) — OAv. miiazdəm ... nāmaṃhā | | IIAL |

Sheet1

| | | | | | | | |
|------------------------|----------------------------|---|--|---|--------------------------------------|----------|---------------|
| *némos- | (sacred) grove | Olr neimid 'sacred grove' Lat nemus 'sacred grove' Old Saxon nimidas 'sacred grove' Grk némos 'wooded pasture, glade' | | | | Trees | JPM |
| *neneh ₂ - | mum | | | | | | IAL |
| *népōt-s | grandson (?) nephew | Lat nepōs Grk népodes Skt nápā t Olr nia 'sister's son, grandson, descendant' OE nefa 'sister's son, grandson' Lith nepuotīs 'grandson' OCS netijī 'nephew' Alb nip 'grandson, nephew' Grk népodes 'descendants' OPers napā 'grandson, descendant' Skt nápāt 'grandson, descendant' NWels kefn̄der 'male cousin' (< *kom-nepōt-) | One of the most controversial words in the reconstructed lexicon. Formally, the word is attested in Celtic, Germanic, Italic, Baltic, Slavic, Albanian, Greek, and Indo-Iranian there is no problem reconstructing the shape of the word to Proto-Indo-European. The problem arises when one Wnds that, in addition to the meaning 'grandson', the word also means 'sister's son (i.e. nephew)' in Celtic in later Imperial Latin also 'nephew', Germanic, Baltic, Slavic, and Albanian. Thus some would argue that both meanings, 'grandson' and 'sister's son', should be ascribed to Proto-Indo-European. Others argue that 'sister's son' is a secondary development among some and not all the North-Western Indo-European languages and, therefore, this second meaning cannot be ascribed to Proto-Indo-European itself, since in the east of the Indo-European world only 'grandson' or the like is attested. Lubotsky gives *h ₃ nepot- | nápāt [nom.sg.] (RV+) nápātam [acc.sg.] (RV+) nápātrā [instr.sg.] (RV+) nápātre [dat.sg.] (RV+) nápātuḥ [gen.abl.sg.] (RV+) nápātas [nom.pl.] (RV+), nápātr̥bhiḥ [instr.pl.] (RV+) nādbhyas [dat.pl.] (RV 10.060.06) later nápātāram [acc.sg.] (KS+), etc. | grandson of the waters': Skt. apām r | Kinship | JPM Beekes |
| *neptih ₁ - | granddaughter (?) niece | Lat neptis 'granddaughter, female descendant', Grk anepsiá Lith neptė 'granddaughter niece' ORus nestera 'niece' Alb mbesë 'granddaughter niece' Av naptī- 'granddaughter' Skt naptī- 'granddaughter' Olr necht 'granddaughter, ?niece' | | vr̥kī-inflection | | Kinship | JPM IAL |
| *neptiyos | descendant | Grk anepsiós Grk anepsiós '(male) cousin' (< *sm̥neptiyo-) | | | | Kinship | JPM |
| *neptonos | grandson of waters | Olr Nechtain Lat Neptūnus | | | | Dieties | JPM |
| *ner | under | NE north Grk nérthen 'from below' Tocharian ñor 'below, beneath, under' | The peculiar semantic development of *ner 'under' to Germanic 'north' is explained by the Indo-European system of orientation which involves facing the sun so that straight ahead is east and the left or north is 'low' compared with the right or south where the sun will be high. | | | Position | JPM |

Sheet1

| | | | | | | | |
|------------|------------------------------|--|---|--|--|--------|-------------|
| *nes- | return home | Grk néomai 'return home' Av asta- 'house' OE ge-nesan 'be saved' Skt násate 'unite with' | | Present I: násate [3sg.med.] (RV) Present III: nímsate [3pl.med.] (RV+), nímsata [3sg.inj.med.(them .)] (RV), *nímsīta [3sg.opt.med.] (AVP 8.15.5) 'to visit' Aorist R: nasīmahi [1pl.opt.act.] (for *asīmahi) (RV 02.016.08) | | Travel | JPM IIAL |
| *nesd-ios- | closer | | {1} Positive of *nazdias-, probably reflecting PIE *nsd-no-. | | | | IIAL |
| *neu- | cry out | OIr nūall 'cry, noise' Lat nūntius 'message messenger' Latv nauju 'cry' NPers navīdan 'cry' Skt návate 'shouts cries' Toch AB nu- 'roar' | | | | Speech | JPM |
| *neu- | nod make a short movement | Lat ad-nuō 'agree by nodding' Grk neúō 'nod' ?Skt návate 'goes, moves' | West Central | Present II: -nauti [3sg.act.] (GrSū.) Caus: áti-nāvayet [3sg.opt.act.] (TSp 6.3.4.4, \$B) | | Speech | JPM IIAL |

Sheet1

| | | | | | | | |
|--------------------------------------|-------------------|---|---|---|--|---------------|-----------------------|
| *neu(h□)- | roar {3} | | {1} Created on the model of ruvá- 'roar'. {2} [LK] Differently Narten (< *anonot by dissimilation) see Kümmel 2000: 283. {3} Probably an onomatopoetic root. | Present I: návate [3sg.med.] (RV+) návant- [ptc.act.] (RV 06.017.10) Present VI: nuvánt- [ptc.act.] (RV 01.029.05) {1} pra ŋauti [3sg.act.] (Br.+) Aorist S: ánūṣata [3pl.med.] (RV+) Aorist IS: anaviṣta [3sg.med.] (RV 09.071.07) Aorist RED {2}: ánūnot [3sg.act.] (RV) Intensive: anonavur [3pl.act.] (RV), návīnot [3sg.inj.act.] (RV) Intensive perfect: nonāva [3sg.act.] (RV 01.079.02) | | | IIAL |
| *neud- | push (away) | Skt nudāti 'pushes' Toch B nātk- 'thrust, push away' | Eastern | | | Convey | JPM |
| *neud- | use, enjoy | OE nēotan 'use, enjoy' NE neat Lith naudà 'use, property' | North-West | | | Being & Doing | JPM |
| *néwos | new | Lat novus OCS novŭ Grk néos Hit nēwas Av nava- Skt náva- Toch B ŋuwe *néw-yos- NE new Lith naūjas Ionic Grk neîos Skt návya- | {1} [AL] Beekes 1994: 90 convincingly argues that this adjective is derived from the locative *neui. | náv(ī)yas- [comp] (RV), návatarā- [comp] (Br.+), návīṣṭha- | Time | | JPM Beekes IIAL |
| *ng*én- | ± (swollen) gland | Lat inguen 'groin, swelling of the groin' OHG ankweiz 'pustules' Grk adēn 'gland' | West Central | | | Organs | JPM |
| *ŋh ₃ d ^h -ro- | in distress, weak | | | | powerful vs. weak': Skt. ugrām ... ādhṛā- (RV 07.041.02) — O | | IIAL |

Sheet1

| | | | | | | | |
|------------|----------------------------|---|--|---|--|-----------------|----------------------|
| *ni | downwards | Olr ne 'down' NE nether OCS nizŭ 'down' Arm ni- 'down, back, into' Skt ní'down' | | | to sit down': Skt. ni-ṣad- [verb] 'to sit' | Position | JPM Beekes IAL |
| *ni-h;p-o- | down to the water | | | | | | IAL |
| *ni-h;kʷ- | in the direction downwards | | | | | | IAL |
| *ni-tero- | lower | | | | | | IAL |
| *ni-tio- | own, native | | {1} [AL] It seems unnecessary to distinguish between *ni 'down' and *ni 'in' (< *h₁ni-). The second *ni is only found in *nitio- (both Ved. nijá- 'innate' and Av. nizəntəm F 730 are secondary formations, cf. Hoffmann 1982: 88f. = Hoffmann 1992: 794f.), which may have originally meant 'settled down, sedentary', then 'native'. | | | | IAL |
| *nigʷ-tos | washed | Olr necht Grk ániptos 'unwashed' Skt niktá- NE nix □ nixie 'water spirit' | | | | Health&Sickness | JPM |
| *nisdos | nest | NE nest Lat nīdus 'nest' Skt nīdā- 'nest' | Literally a 'sit-down place, i.e. *ni- 'down' + sed- 'sit'. | | | Construction | JPM IAL |
| *n̥kʷtus | end of the night | OE ūhte 'early morning' Grk aktís 'ray of sunlight' Skt aktú- 'night' | | | | Time | JPM |
| *nogʷ-o- | naked | | | | | | IAL |
| *nóh₁ | 1D we two | OE wit 'we two' Lith mūdu 'we two, us two' OCS vě 'we two' Grk nō 'we two, us two' Skt āvá m 'we two, us two' Toch B wene 'we two, us two' | | | | Pronouns | JPM |
| *noibʰos | holy | Olr noīb OPers naiba- | from *nei- 'be excited', again some form of sacred animation. | | | Sacred | JPM |
| *nos | us | | | | | | IAL |
| *ns-me | us | | | acc. asmán (RV+), instr. asmábhiṣ (RV+), dat. asmábhyam (RV+), abl. asmát (RV+), gen. asmākam (RV+), loc. asmásu (RV+) asmé [dat.gen.loc.] (RV, AV) | given by us': Skt. asmád-rāta- [adj] 'given by us' (VS) — OAv. ərə | | IAL |
| *nsi- | sword | | difficult, only seen in Latin, Sanskrit | | | | Beekes |

Sheet1

| | | | | | | | |
|------------------|------------------------|--|---|----|--|--------------|------------|
| *nu- | now | Lat num NE now Lith nù OCS nŭ Grk nŭ(n) Hit nu Av nŭ Skt nú Toch B no | {1} [AL] At the beginning of a sentence only nŭ. | | | Time | JPM IAL |
| *ō | O; vocative particle | Olr ā MHG ā NE O Lith ō OCS o Grk ō Skt ā Lat ō a cry Goth ō 'alas' | | | | Human Sounds | JPM |
| *os(o)nos | ass | Lat asinus Grk ōnos Luv tark-asna- | Difficult | ?? | | Fauna | JPM |
| *p(e)h : -us-on- | protect | | | | | | IAL |
| *p(e)h :no/eh□- | cloth | Lat pannus 'piece of cloth, garment' Mlr anan 'piece of cloth, garment' NE fane from OE fana 'banner, standard' NE vane Grk pēnē 'thread on the shuttle' Roshani warbōn [< *vara(h)-pāna- 'sheep(skin)-coat | | | | Textiles | JPM |
| *p(h)eu- | blow, swell | Grk phŭsa 'wind, blast' OPrus pounian 'buttocks' Grk pugē 'buttocks' Rus pŭlja means 'ball' Mlr ūan mean 'foam' | | | | Blow Up | JPM |
| *p(o)lh□- | city, high place | | | | | | Beekes |
| *p(ō)lh□- | foal | | | | | | Beekes |
| *p(o)rk- | question | | | | | | Beekes |
| *p(r)oti-h :p-ō- | against the stream | | {1} [AL] Oettinger 1983: 91 reads paiti[pā] duuaēpā 'über die Inseln'. | | | | IAL |
| *pad- | duck, teal? | | | | | Bird | JPM |
| *pandos | curved | Lat pandus 'curved, bent' ON fattir 'bent back' | North-West | | | Shape | JPM |
| *pano- | millet | Lat pānicum Shughni pīnj | Latin-Iranian isogloss | | | Plants | JPM |
| *pant- | stomach, paunch | Lat pantex 'belly, paunch, guts' Hit panduha- 'stomach' | | | | Organs | JPM |
| *pap- | ± mothers breast, teat | Lat papilla 'teat, nipple, breast' MHG buoben 'breast' Lith pāpas 'breast' Skt pippala- 'nipple' | Probably a continually reinvented children's word | | | Body (Upper) | JPM |

Sheet1

| | | | | | | | |
|-------------|-----------------------|--|--|---|--|-----------|-----|
| *papa | father, papa | Lat pāpa Grk páppa | | | | Kinship | JPM |
| *parikeh□- | ± concubine wanton | MIr airech '(type of) concubine' Av pairikā- 'demonic courtesan' | Presumably the meaning attested in Irish is the older one while in Iranian 'the other woman' has suffered a loss of social standing. | ? | | Marriage | JPM |
| *pastos | firm | Skt pastyám 'habitation' NE fast [as in 'stand fast'] Arm hast 'firm' | | | | Qualities | JPM |
| *pē(n)s- | dust | OCS pēsūkū 'dust' Av paṣnu- 'dust' Skt pāṃsú- 'crumbling soil, sand, dust' | | | | Earth | JPM |
| *pe/oth□mo- | thread | OWels etem 'thread, yarn' OHG fadm 'thread' | North-West This word is derived from *pet- 'stretch out', i.e. stretch out the arms while preparing yarn from thread, and in the various languages it means either 'thread' or a 'measure of outstretched arms', hence the cognate NE fathom. | | | Textiles | JPM |

Sheet1

| | | | | | | | |
|----------|--------------------|---|--|--|---|--------------------|-------------|
| *ped- | fall ?step | Lat pessum 'to the ground' OE gefetan 'fall' OCS padq 'fall' Av paiyaiti 'moves down, plunges down' Skt pádyate 'falls' | | Present IV: pádyate [3sg.med.] (RV+), ní pádyate 'to lie down, to copulate' (RV+) Present III>I: (ṣpībdamāna- 'to tread on one and (then) another foot, to stamp' [ptc.med.] (RV, Br.) Aorist mediopass.: pádi [3sg.inj.] (RV- YVm), apādi [3sg.] (AV+), apadran [3pl.] (RV 06.020.04) Aorist R: padīṣṭá [3sg.opt.med.] (RV), padāti [3sg.subj.act.] (with double characterization) (RV 09.073.09), - patthās [2sg.inj.med.] (AV), apadmahi [1pl.med.] (VS), apadi [1sg.med.] (ŚB) padām [3sg.impv.med.] (AVP 5.15.7) Aorist S: apatsi | | Crawl, Slide, Fall | JPM IIAL |
| *ped-eh- | by foot | | {1} [AL] Possibly, derived from the instr.sg. *padaH 'by foot', contaminated with patfī- | | | | IIAL |
| *ped-io- | pertaining to feet | | {1} It is unclear whether Lat. ṛpedius [suff] and Lith. ṛpēdis 'having ... feet' is an IE formation. | | | | IIAL |
| *pedo- | step, footprint | | | | 'at the place of lṛā' (= refreshing draught): Skt. lāyās padé (RV) — OAv. padāiš ... tṛaiiā (Y 50.8) 'the tracks of the cattle': Skt. padāni paśvāḥ (RV 01.067.06) — YAv. pasēuš ... paḍəm (V 2.24) | | IIAL |

Sheet1

| | | | | | | | |
|-------------|-----------------------|---|---|--|--|-----------------|------------|
| *pedom | footprint, track | <p>MLr inad < *eni-pedo- 'position, place'</p> <p>Lat peda 'sole, footprint'</p> <p>ON fet 'step'</p> <p>Lith pėdà 'footprint'</p> <p>OCS podŭ 'ground'</p> <p>Grk pėdon 'ground'</p> <p>Arm het 'footprint, track'</p> <p>Hit pėdan 'place'</p> <p>Skt padám 'track'</p> <p>Toch B pātsa 'bottom'</p> | From the noun *ped- 'foot' | | | Roads | JPM |
| *peh : (i)- | harm | <p>Goth fījan 'hate'</p> <p>Grk pēma 'suffering, misfortune'</p> <p>Skt pīyati 'blames, reviles'</p> | | | | Conflict | JPM |
| *péh : mn | misfortune, suffering | <p>Grk pēma 'misfortune, suffering, misery'</p> <p>Av pāman- 'dryness, scab'</p> <p>Skt pāmān- 'skin disease'</p> | Greek-Indo-Iranian | | | Health&Sickness | JPM |
| *peh :- | nourish | | | | | Food & Drink | JPM |
| *peh :- | guard, cause to graze | <p>Lat pāscō 'feed, lead to pasture nourish'</p> <p>OCS pas- 'protect, guard'</p> <p>Hit pah(ha)s- 'protect'</p> <p>Av pā iti 'guards'</p> <p>Skt pāti 'guards'</p> <p>Toch B pāsk- 'guard, protect'</p> <p>NWels pawr 'fodder'</p> <p>NE fodder</p> <p>Olr aīnches 'bread basket'</p> | <p>{1} [LK] See Scarlata 1999: 299ff.</p> <p>{2} [LK] In some contexts also 'protecting oneself', e.g. in RV 07.066.03, 08.009.11.</p> <p>{3} [AL] The fact that nouns in *-men- do not usually have o-grade in the root does not seem to be a sufficient argument to reconstruct h : in the root and to separate it from *peh :s-.</p> | <p>Present II: pāti [3sg.act.] (RV+), pāhi [2sg.impv.act.] (RV+), pānā- [ptc.med.] (RV 09.070.04)</p> <p>Aorist S: pāsati [3sg.subj.act.] (RV 10.017.04), pāsatas [3du.subj.act.] (RV 07.034.23)</p> | | Food & Drink | JPM IAL |
| *peh :-tro- | vessel, protection | | <p>{1}The poets clearly considered Skt. pātra- as a derivative of the verb pā- 'to drink'. Possibly, this word partly reflects PIE *peh :-tlo- 'drinking vessel' (Lat. pōculum [n] 'cup').</p> | | | | IAL |
| *péh :ur | fire | <p>Umb pir</p> <p>NE fire</p> <p>OPrus panno</p> <p>Czech pýr 'ashes'</p> <p>Grk pu^r</p> <p>Arm hur</p> <p>Hit pahhur (genitive pahhenas)</p> <p>Toch B puwar</p> | | | | Fire | JPM |
| *péh :usōn | pastoral god | <p>Grk Pán</p> <p>Skt Pūṣā</p> | | ? | | Dieties | JPM |

Sheet1

| | | | | | | | |
|------------------------|-------------------|---|---|---|--|----------------------|------|
| *peh ₃ (i)- | swallow ?drink | Olr ibid, Lat bibō OPrus poieiti OCS piję Alb pi Grk pínō Arm əmpem Skt pībati Hit pāsi □ paszi 'swallows' | {1} < PIE *pí-b-e/o- < *pi-ph ₃ -e/o- or, rather [AL] < *bi-bh ₃ -e/o- with *b- > p-. | Present III>I: pībati [3sg.act.] (RV+) {1} Aorist R: apāt [3sg.act.] (RV+), pānti [3pl.subj.] (RV), pāthás [2pl.subj.] (AV) Aorist S: ápās [3sg.act.] (RV 05.029.08) Perfect: papáu [3sg.act.] (RV+), pape [3sg.med.] (RV+) Passive: pīyáte [3sg.] (AV+) Fut: pāsyate [3sg.med.] (Br.+) Desid: pipīṣati [3sg.act.] (RV 01.015.09) pipāsati 'to be thirsty' [3sg.act.] (RV+) Caus: pāyáy° (RV+) Abs: pītṽí (RV), pītṽā (RV+) Inf: pātave [inf] (RV) TA-Ptc.: pītá- (RV+) | | Food & Drink | JPM |
| *peh□ ġ - *peh□k- | fasten securely | Goth fahan 'capture' Grk pēgnūmi 'plant, make solid' pangō 'drive in' Skt pāśáyati 'binds' | It may be that Lat pāx 'peace' [> via Old French NE peace] also belongs here as *a binding together by treaty' | | | Binding | JPM |
| *peh□ - | move | | {1} [AL] The active form pratyutpipāti at AVP 2.65.2a yas tvotpipānam pratyutpipāti 'who shall march against you, when you are marching... (to a chief)' may be nonce, cf. Zehnder 1999: 148. | Present III: vi- pipāná- [ptc.med.] 'separating, moving apart' (RV) ut-pípāna- [ptc.med.] 'rising' (AV) ut-pípīte [3sg.med.] (MS, TS) {1} | | | IIAL |
| *pei- | sing | OCS pēti 'sing' Toch B pi- 'sing' | | | | Formal Speech & Song | JPM |

Sheet1

| | | | | | | |
|------------|-------------------|--|---|---|--|------|
| *peih□- | scorn | | | Present IV: pīyati [3sg.act.] (RV-TBm) | | IIAL |
| *peih□- | swell (with milk) | | {1} [AL] The anīt forms (pīpivāms-a-pl-t-) are clearly secondary. | Present V>I: pīnvate [3sg.med.] (RV+) Aorist R: piyāna- [ptc.med.] (RV 01.079.03) (nonce) Present I: pāyate [3sg.med.] (RV 01.164.28) (nonce form based on the adjacent pāyobhiḥ) Perfect: pīpāya [3sg.act.] (RV) pipyathur [2du.act.] (RV) āpīpema [1pl.ppf.act.] (RV) pīpivāms- [ptc.act.] (RV) pipyús-ī- [ptc.act.f.] (RV) TA-Ptc.: prā-pīta- 'overflowing' (RV 07.041.07), ā-pīta- 'swollen' (RV 08.009.19) na-ptc.: prā-pīna- 'overflowing' (AV+), ā-pīna- 'swollen' (AV+) | | IIAL |
| *peih□-os- | milk (?) | | | | | IIAL |

Sheet1

| | | | | | | | |
|----------|-------------------------|--|----------------------------------|--|--|-------------|-------------|
| *peik- | paint, mark ?cut out | Lat pingō 'paint, colour' OE fāh 'coloured' Lith piēšti 'draw, write' OCS pisati 'write' Grk poikilos 'coloured' Av paēsa- 'colour' Skt pīmśāti 'colours, paints' Toch AB pik- 'write, paint' | {1} [LK] See Scarlata 1999: 319. | Present VII>VI: pīmśati [3sg.act.] (RV+), pīmśáte [3sg.med.] (RV+) Aorist A: piśā [2sg.impv.act.] (RV 07.018.02) Aorist R: piśānā- [ptc.med.] 'adorning' (RV 07.057.03) Perfect: pipéša [3sg.act.] (RV+), pipisé [3sg.med.] 'has adorned has adorned oneself (refl.) is adorned (pass.)' (RV+) Passive: piśyāmāna- [ptc.med.] (AV 12.5.36) TA-Ptc.: pištā- 'adorned' (RV+) pišitā- 'cut to size' also [n] 'meat, cut in pieces' (AV+) | 'adorned with all ornaments, richly decorated': Skt. viśva-pís- [adj] {1} (RV), viśvá-peśas- [adj] — YAv. viśpō.pis- [adj], viśpō.paēsah- [adj] 'to put on dainty clothes, decorated with stars': Skt. vástrāni ... péśanāni vásāna (RV 10.001.06) pipéša ... strībhīh (RV 01.068.10) strībhīh ... pipisé (RV 06.049.03) — YAv. vaste varhanəm stəhrpaēsarhəm (Yt 13.3) 'adorned with gold, wearing golden adornments': Skt. hīranya-peśas- [adj] (RV) — YAv. zaraniiō.paēsī- [adj, f], zaraniiō.pis- [adj] | Color | JPM IIAL |
| *peik/k- | be hostile, hate | NE foe Lith peĩkti 'blame, rebuke, censure' Arm hēk' 'unfortunate, suffering', Skt písuna- 'backbiting, wicked' | | | | Love & Hate | JPM |
| *peis- | blow to make a noise | OCS piskati 'whistle' Skt picchorā 'flute' OE fisting 'fart' Lat spīrō 'blow' Toch A pis- 'blow an instrument' | | | | Blow Up | JPM |
| *peis- | grind | | | | | | IIAL |

Sheet1

| | | | | | | | |
|--------------|-----------------|---|---|--|--|-------------|---------------|
| *peis- | thresh, grind | Lat pīnsō 'thresh' Lith paisýti 'thresh' OCS pīchati 'hit' Grk ptíssō 'winnow' Skt piná sti 'grinds, threshes' | | Present VII: pinášti [3sg.act.] (RV+), pimšánti [3pl.act.] (RV+) Aorist S: apikšan [3pl.act.] (ŠB) Perfect: pipéša [3sg.act.] (RV+) sám ... pipíše [3sg.med.] (pass.) (RV 01.032.06) Fut: pekšyati [3sg.iact.] (JB, Up.) Passive: pišyámāna- [ptc.med.] (AVP 6.15.5, ŠB+) TA-Ptc.: pištá- (RV+) | | Agriculture | JPM |
| *peitu- | food | | {1} [AL] Usually, this word is analysed *pi-tu- and taken as a derivative in -tu- from an anī variant of *piH- 'to swell', but this analysis is arbitrary and not very probable. | | | | IIAL |
| *pek- | pull out [wool] | Lat pectō 'comb' [verb], pecten 'comb' [noun] Lith pešù 'pull, tear out, pluck [fowl]' Grk pékō 'comb, shear', pékos '(raw) wool, fleece' OE feax '(head) hair' Toch B pāk- '+comb out [wool], shear' | The original meaning must have been something like 'harvest wool [by plucking]' and came to mean successively 'harvest wool [by combing]' and 'harvest wool [by shearing]' as the technology of wool-gathering evolved. | | | Textiles | JPM |
| *pek-s-(men) | wool | | | | | | IIAL |
| *péku | livestock | Lat pecu 'pecus 'cattle, livestock' OE feoh 'livestock, property, money' [> NE fee] Lith pēkus 'cattle' Av pasu 'cattle' Skt páśu- 'cattle' | | | | Fauna | JPM Beekes |

Sheet1

| | | | | | | | |
|------------------------|--------------|---|--|--|--|---------------------|-------------|
| *pek ^w - | cook, bake | NWels pobiaf 'bake' Lat coquō 'cook' [> NE cook] Lith kepù 'bake' OCS pek 'bake, roast' Alb pjek 'bake' Grk péssō 'make ripen, cook' Av pačaiti 'cooks' Skt pácati 'cooks' Toch AB pāk- 'become ready for eating [i.e. ripen, be cooked]' | {1} [LK] The difference in meaning only partly correlates with accent placement some Vedic dialects/schools have generalized the suffix accentuation (AV, MS) see Kulikov 2001: 300ff. | Present I: pácanti [3pl.act.] (RV+) Present IV/Passive: pácýate [3sg.med.] 'to ripen' (RV 01.135.08 +), pacyáte [3sg.med.] 'to be cooked, to ripen, to be digested' (RV+) {1} Aorist S: pákṣat [3sg.subj.act.] (RV 08.069.15, 10.027.18) Perfect: papáca [3sg.act.] (AV+), pece [3sg.med.] (RV+), ápeciran [3pl.plpf.med.] (AV 5.18.11) Fut: pakṣyate [3sg.med.] (Br.+) Inf: páktave (AV+) | | Food Prep | JPM IIAL |
| *pek ^w ter- | cook | | Attested in 3 groups | | | Food Prep | JPM |
| *pek ^w tis | cooking | | Attested in 5 groups | | | Food Prep | JPM |
| *pek ^w uo- | ripe, cooked | | {1} Employed as a ppp. of pac 'to cook, to ripen'. | | | | IIAL |
| *pel- | ± sell | ON falr 'to be sold' Lith pelnas 'profit' Rus polón 'booty' Grk pōléō 'sell' Skt pāṇate 'bargains, haggles' | | | | Exchange & Property | JPM |
| *pel- | fold | NE fold Alb palē 'fold' Grk péplos 'garment that falls in folds' Olr dīabul 'double' Lat duplus 'double' Grk diplóos 'double', i.e. 'twofold'. | | | | Bend and Press | JPM |
| *pel(h□)it-o- | pale | | {1} [AL] The laryngeal, which is mainly reconstructed on the basis of the Balto-Slavic facts (Latin is ambiguous), is doubtful. I would expect *paRHita- to have given *palita-. | páliknī- [f] | {1} [AL] The laryngeal, which is mainly reconstructed on the basis of the Balto-Slavic facts (Latin is ambiguous), is doubtful. I would expect *paRHita- to have given *palita-. | | IIAL |

Sheet1

| | | | | | | | |
|----------------------|-------|--|--|---|---|--------------------|-------------|
| *pel(i)s- | cliff | Olr ail 'cliff' Mlr all 'cliff' ON fjall 'cliff' [< *pelsó-] Grk pélla 'stone' Pashto parša 'steep slope' Skt pāṣī- 'stone' [< *pelsiha-] | | | | Earth | JPM |
| *pelekús | axe | Grk pélekus Skt paraśú- Oss færæt | the proto-form is often compared with Semitic forms, e.g. Akkadian pilakku which some translate as 'axe' but others translate as 'spindle', which is semantically very distant from 'axe'. Generally, the Proto-Indo-European word is treated as a Wanderwort, a loanword that crossed a number of diVerent languages or language families. | | | Tools | JPM |
| *peles- | wound | Grk ápelos '[unhealed] wound' Toch B pīle 'wound' | | | | Health&Sickness | JPM |
| *pelh ₁ - | fill | Olr līnaid 'fills' Lat pleō 'fill' Arm helum 'pour' Av par- 'fill' Reduplicated: Grk pímplēmi Skt píparti | {1} [LK] The root variant pūr has been extracted from ppp. pūrnā- see Albino 1999. pūr and the Schwebeablaut root variant prā are synchronically distinct roots in the Vedic prose see Kümmel 2000: 325ff. {2} The original reduplicated stem *pīprā- < IE *pi-pleh ₁ - is based on prā. {3} [LK] With the secondary suffix accentuation (see Kulikov 1998). {4} Secondary replacement of the RVic sigmatic aorist aprās [3sg.act.]. {5} A nonce fromation (Narten 1964: 173). {6} [LK] On the hapaxes paprá (the only certain 3sg.pf.act. form in -ā [not in -áu] derived from an ā-root (prā) and pupūre, see Kümmel 2000: 325ff. | Present IX: prṇāti [3sg.act.] (RV+) Present IX>VI: prṇāti [3sg.act.] (RV+) Present III>I: āpiprata [3sg.impf.med.] (RV 05.034.02) {2} Present III: píparti [3sg.act.] (AV 13.3.4) {2} Present IV: pūryamāṇa- [ptc.med.] 'to become full' (RV 01.051.10 +), pūryáte [3sg.med.] (MS+) {3} Aorist S: aprās [2,3sg.act.] (RV, Br.) SI-impv: prāsi (RV) Aorist R: aprāt [3sg.act.] (AV- YVm) {4} Aorist IS: pūriṣṭhās [2sg.inj.act.] (Tām 1.14.2) {5} Perfect: paprá [3sg.act.] (RV\ X2 01.069.01), papráu [3sg.act.] 'has filled' (RV+), | to fulfil/grant a wish': Skt. kāmam ... | Measure & Quantity | JPM IIAL |

Sheet1

| | | | | | | | |
|--------------|-----------------------|--|--|--|--|--------------------|-----|
| *pēlh .ewis | container | Lat pēlvīs 'basin OE full 'goblet' Grk pēlla 'milk-can' Skt pālavi- 'pot' | Has usually been derived from *pelh . - 'fill' | | | Containers | JPM |
| *pēlh .us | much | Olr il OE fela Grk polús Av pouru- Skt purú- Comparative *pleh . -yos give Lat plūs 'more' Olr līa 'more' Av frāyah- 'more' Skt prāyá- 'mostly, commonly' | | | | Measure & Quantity | JPM |
| *pelh □ - | set in motion | Olr ad-ella 'seeks' Lat pellō 'push' | North-West | | | Movement | JPM |
| *pelh □ k- | spread out flat | OE flōh 'flagstone' Lith plākanas 'flat' Grk pláks 'flat surface' Lat placeō 'please, be acceptable to', plācō 'soothe, calm' Toch AB plāk- 'be in agreement' | | | | Shape | JPM |
| *pelh □ - | bear young | NE foal Alb pjell 'give birth to, produce', pelē 'mare' Grk pōlos 'foal' Arm ul 'kid, young of deer or gazelle' | West Central | | | Vital Functions | JPM |
| *pelh □ - | fort, fortified place | Lith pilis 'fort, castle' Grk pólis 'city' citadel' Skt pū r 'wall, rampart, palisade' | | | | Dwelling | JPM |
| *pēlh □ us | mouse | Olr luch Rus polokhók Shughni pūrg | | | | Fauna | JPM |
| *pēln- | animal skin, hide | Lat pellis '[animal] skin, hide' NE fell and also film Lith plénė~ 'film [on milk], scab' Rus plená 'pelt' Grk erusí-pelas 'red inflammation of the skin' | West-Central | | | Body (Upper) | JPM |
| *pelo/eh □ - | chaff | Lat palea Lith pela [pl.] Rus pelá Skt palāvās [pl.] | Appears to be related to words for 'dust'. | | | Plants | JPM |
| *pelpel- | butterfly | Lat pāpiliō OE fīfalde | | | | Bug | JPM |
| *pen- | feed, fatten | Lat penus 'store of food' Lith penù 'fatten' Pal bānnu 'liver' [< "the fattened one"] | | | | Food & Drink | JPM |

Sheet1

| | | | | | | | |
|--------------------------------------|-------------------------|---|--|--|--|--------------|-------------|
| *pen- | water | Olr en 'water' NE fen OPrus pannean 'peat-bog' OE fūht 'wet' Skt pānku- 'mud' | North-Western | | | Water | JPM |
| *penk- | damp, mud | | | | | Water | JPM |
| *penk"-ti- *pénk"e | group of five 5 five | Olr cōic Lat quīnque NE five Lith penki Grk pénte Arm hing Av panča Skt pāñca Toch B piś *pénk"-ti- OCS peŕi 'five' Alb pesë 'five' Skt pānkti- 'group of five' | Celtic and Italic show the regular assimilation of Proto-Indo-European *p ... kw to *kw ... kw, hence Lat quīnque rather than the otherwise expected *pīnque, while the Germanic forms show an irregular assimilation of *p ... kw to *p ... p, giving a Proto-Germanic *fimfi. NWels pimp looks as if it has undergone the assimilation we see in Germanic but actually it is a regular descendant of Proto-Celtic *kwenkwe, since in the branch of Celtic to which Welsh belongs all Proto-Celtic *kw become p. Thus the apparent agreement of NWels pimp and Proto-Germanic *WmW illustrates the possibility of a single result being the product of very diVerent processes and histories. The number *penk"e has plausibly been connected etymologically with *pn(k")stí- 'fist' (e.g. NE fist, Lith kūmstė [< *punkstė] 'fist', OCS peŕi 'fist'). Presumably the latter was originally then 'group of five [fingers]' or the like though it has been suggested that the derivation went the other way and that the basic word for 'hand' or 'fist' came to be the ordinary word for 'five' and was replaced | also often spelled paŕti- in texts pañcānām [gen.pl.] (YV+) | | Numbers | IIAL JPM |
| *penk"ē-kōmt(h□) ?*penk"o-dkōmth, | 50 fifty | Olr coīca Lat quīnquāgintā Grk pentēkonta Arm yisun Av pančāsātəm Skt pañcāśāt Toch B piśāka | | | | Numbers | JPM |
| *penk"edekm(t) | 15 fifteen | Lat quīndecim NE fufteen Arm hingetasan Av pančadasa Skt pāñcadaśa | | | | Numbers | JPM |
| *pent- | find ones way | NE find nominal derivative *póntōh:s 'path' Lat pōns 'bridge' Grk pátos 'path' Skt pānthās 'path' 'find' + 'path', i.e. 'find one's way' | | | | Travel | JPM |
| *pēnt- | heel | OPrus pentis 'heel' Rus pjatá 'heel' Pashto pūnda 'heel' | | | | Body (Lower) | JPM |

Sheet1

| | | | | | | | |
|--|--|--|---|---|--|---------------------|---------------|
| *pent- ^d eh ₁ - *pent- ^k er- | priest | Lat pontifex Skt pathi-kr̥t- | Both suggest the concept of a 'path-maker' which in Latin is exclusively employed in a religious context, i.e. 'one who makes a path to the gods' while the Indic form can be applied to priests. | ? | | Sacred | JPM |
| *per | over, through, about | Lat per | | | | Position | JPM Beekes |
| *pér | house | Hit nominative pēr, genitive parnas | Only certainly attested in Anatolian its ascription to Proto-Indo-European is largely dependent on seeing it as the underlying concept behind PIE *prih ₂ ós 'dear, beloved', i.e. 'of the same household' and its archaic morphology reflecting a PIE *pér (< *pér), genitive *pr̥nós against such an ascription is the fact that there are similar words for 'house' in non-IE languages of the Near East, e.g. Egyptian pr 'house', and thus some would see the Anatolian words as a borrowing from another language. | ? | | Dwelling | JPM |
| *per- | blow (on a fire) | OCS para 'steam, smoke' Grk prēthō 'blow, pímprēmi 'burn' Hit p(a)rāi- 'breathe, blow' | | | | Blow Up | JPM |
| *per- | come through, penetrate, cross (water) | | {1} Indicative and injunctive are not attested. | Present III: píparti [3sg.act.] (RV+) Aorist S {1}: párṣat [3sg.subj.act.] (RV), parṣa [2sg.impv.act.] (RV 01.097.08) SI-impv: párṣi [2sg.] (RV) Aorist IS: páriṣat [3sg.subj.act.] (RV) Caus: páray ^o to 'make cross over' (RV+) pāláy ^o 'to bring across, to save, to protect' (AV 18.3.1, RV-Kh.+) | | | IIAL |
| *per- | exchange, barter | Oir renaid 'sells, barter, exchanges' Lat interpres 'go-between', pretium 'price' Grk pérnēmi 'sell' Av pairyante 'they compared' | | | | Exchange & Property | JPM |
| *per- | offspring ? | OE fearr 'bullock, steer' Grk póris □ pórtis 'calf, heifer' Skt pr̥thuka- 'child, young of an animal' | | | | Fauna | JPM |

Sheet1

| | | | | | | | |
|---------|----------------|---|--------------|--|---|---------------|------|
| *per- | pass through | Lat portäre 'lead' NE fare OCS na-perjǫ 'bore through', perǫ 'fly' Alb sh-pie 'send, carry, take to, lead' Grk peráō 'pass through', peirō 'pierce, bore through' Arm hordan 'go away' Av -par- 'convey across' Skt pīparti 'conveys across saves' *pértus 'passage way' Lat portus 'harbour' ON fjǫrðr 'estuary' [whence by borrowing NE fjord] NE ford Av pærētu- 'bridge' | | | | Come & Go | JPM |
| *per- | strike | Lith periù 'beat with brushwood, flog' Rus pru 'press, oppress' Alb pres 'cut down, cut off, split' Arm hari 'struck' Av pærət- 'battle, strife' Skt pr̥t- 'battle, strife' | | | | Conflict | JPM |
| *per- | trial, attempt | Lat experior 'attempt' Grk peiura 'attempt' Arm p'orj 'test, proof' | West Central | | | Being & Doing | JPM |
| *per-o- | further | | | | 'higher life': Skt. ásum páram (RV 01.140.08), parāsu- [adj] 'dying, dead' (Ep.+) — OAv. parāhu- '(containing) higher life' (Y 46.19) 'farther-off day': Skt. páratāre ... áhan 'on a farther-off day' (RV 10.095.01) — YAv. parō.asna- [adj] 'future', Pash. parūn 'yesterday' | | IIAL |
| *per-os | beyond | | | | beyond the mortals (and the gods)': Skt. paró hí mártayair ... (de)IIAL | | |

Sheet1

| | | | | | | |
|-------------------------------------|--|---|---|--|-----------------|---------------------|
| *per-ur | coming through (place where one can get through, place until w | {1} [AL] Already in the earliest Vedic, we encounter semantic differentiation between the two stems, párus- referring to the joint proper, and párvan- referring to a piece between the joints, often = 'bone' (Griffiths - Lubotsky 2003: 197). | Originally, a heteroclitic paradigm (RV): páruṛ [nom.acc.], párvaṇā [instr.sg.], párvaṇas [gen.abl.sg.], párvaṇi [loc.sg.], párva, párvāṇi [nom.acc.pl.] later párva [nom.sg.] (AVP, TS+) and páruṣā [instr.sg.], páruṣas [gen.abl.sg.], páruṣi [loc.sg.] (all RV+) later also paru- (AV+) | | | IIAL |
| *per-ut(i) *per(h□) *prh□-uo- | in a year, on the other side of a year first | Lat prímus which is *pri-is- + the superlative suffix -mo- Alb parē 'first' Av paūrva- 'prior' Skt pūrva- 'first' Toch B parwe 'first' OE frum 'primal, original, first' < *prh□-wo-, Lith pirmas 'first' NE first < *prh□-isto- | | | Numbers | IIAL JPM IIAL |
| *perd- | panther, lion | NPers palang Grk párdalis | | | Fauna | JPM |
| *pérde/o- | fart | Lat pedō NHG fisten Lith bezdū Rus bzdetī Grk bdéo NWels rech NE fart Lith pérđziu Rus perdētī Alb pjerdh Grk pérdomai Av pəṛə- Skt párdate | West Central | | Vital Functions | JPM IIAL |

Sheet1

| | | | | | | | |
|---------------------------|----------------------------|--|---|--|--|----------------------|--------------|
| *perg- | pole, post | Lat pergula 'balcony outhouse used for various purposes' ON forkr 'pole' Rus poróg 'threshold' | North-Western | | | Construction | JPM |
| *perh ₂ - | provide | | {1} [AL] Less plausible is the analysis of this hapax as belonging to par[1] (root variant pūr) 'to fill' see Kümmel 2000: 304f. [[XXX the note can be removed]] | Present IX: prṇāti [3sg.act.] (RV+) Aorist R: pūrdhī [2sg.impv.act.] (RV) Perfect: -pupūryās [2sg.opt.act.] (RV 05.006.09) {1} | | | IIAL |
| *perh□t- | fern? | Skt. párpata- 'medicinal herb' Lith. papártis | | | | | Celt. |
| *peri-h ₁ es- | surpass | Grk períesti 'comes round' Skt pary asti 'surpasses' | Unless an independant creation | | | Come & Go | JPM |
| *peri-steh ₂ - | stand before > belief | Olr iress 'belief' Parthian parast 'ardor' | Just as likely to be independant creations | | | Knowledge & Thought | JPM |
| *perikeh ₁ | female servant? | | | | | | Celt. |
| *perk- | fear | NE fright Toch AB pārsk- 'be afraid' | | | | Values | JPM |
| *perk- | ask, ask for (in marriage) | Olr arcu 'ask' Lat poscō 'ask', precor 'ask for' OHG forscōn 'ask, examine' Lith prašau 'request' OCS prositi 'ask' Arm harc'anem 'ask' Av pərəsaiti 'asks' Skt prcchāti 'asks' Toch AB pārsk- 'ask' | {1} With the secondary root variant prch- extracted from the SK-present. {2} Derived from the secondary root variant prch-. {3} On the passive interpretation, see Renou, EVP IV, 49. {4} Probably related to Ved. prṣthá- [2] 'riddle'. | Present SK: prchāmi [1sg.act.] (RV+) Aorist S: áprāt [3sg.act.] (RV 10.032.07), ā ... prṣase [2sg.subj.med.] (RV 10.022.07) áprākṣīt [3sg.act.] (AVP+) Perfect: papraccha [3sg.act.] (YVP+) {2} Passive: prchyámāna- [ptc.] (RV, Ep.+) {2} Fut: prakṣyāti [3sg.act.] (Br.+) Inf: práṣtum (RV+) TA-Ptc.: prṣtá- (RV+) | | Formal Speech & Song | JPM IIAL |
| *perk- | speckled | Mlr erc Grk perknós Skt prṣṇí- | | | | Color | JPM Celt. |

Sheet1

| | | | | | | | |
|--------------|-----------------------------|--|---|--|--|--------------|------|
| *pérkus | ± breast, rib | dialectal Lith piršys 'forepart of a horse's chest' Rus pérsi [pl.] 'breast, chest [especially of a horse]' Alb parz parzēm 'breast' Av parəsu- 'rib' Skt pārśu- 'rib', pārśvā- 'region of the ribs, side' | | | | Body (Upper) | JPM |
| *perkʷunos | thunder god | Fjörgyn, mother of the Norse thunder god Thor Lithuanian thunder god Perkūnas Old Russian thunder god Perūnū *pergwenyo- Skt Parjanya a weather god | | | | Dieties | JPM |
| *pérkʷus | oak | Gaulish érkos 'oak-forest' Lat quercus 'oak [particularly Quercus robur]' ON fjor 'tree' | | | | Trees | JPM |
| *pero-mh□o- | farthest | | | | | | IIAL |
| *pers- | sprinkle | Hit pappars- Toch AB pārs- Skt pr'ṣat- 'drop' OCS prachŭ 'dust' ON fors 'waterfall' | | | | Throw | JPM |
| *pers-o- | grain, wheat spike? | | {1} [AL] A translation 'ear of corn' seems a likely alternative to the tradition 'sheaf'. | | 'to thresh the ears of corn': Skt. pārśān hanmi 'I thresh the ears of corn' (RV 10.048.07) — YAv. yaθa nā satəmca hazarəmca baēuuarəca pāršanəm nijatəm hiiāt_ 'as if a man would thresh a hundred, a thousand, a hundred thousand of ears of corn' (Yt 13.71 Geldner's edition reads pairištānəm nijaθəm, although the best ms. F1 has pāršanəm) | | IIAL |
| *pérnsn-eh□- | heel | Lat perna 'haunch' OE Wersn 'heel' Grk ptérna 'heel' Hit parsna- 'upper thigh' Av pāšna- 'heel' Skt pārśni- 'heel' Toch B porsnai- 'ankle' | | | | Body (Lower) | JPM |
| *pértus | passage, way | Gaul ritu- 'ford' Lat portus 'harbour' NE ford Av pərətu- 'ford, bridge' | From *per- 'go across' | | | Roads | JPM |
| *péru | rock | Hit perunant- 'rocky' Av paurvatā 'mountain' Skt párvata- 'rock, mountain' | | | | Earth | JPM |
| *perunto- | rocky, furnished with rocks | | | | | | IIAL |

Sheet1

| | | | | | | | |
|---------------------|-----------------|---|--|--|--|--------------|---------------------|
| *perut- | last year | ON fǿrð 'last year' Grk pérusi 'last year' Arm heru 'last year' Skt parút 'in past years' | | | | Time | JPM |
| *pesd-u- *péses- | insect penis | | it has been variously analysed as deriving from a verb 'rub', a verb 'penetrate', and, most recently, from *pes- 'blow, swell', i.e. a swelling forth of liquid. | | | Body (Lower) | IIAL JPM IIAL |
| *pet-men- *pet-r | flight wing | | {1} Possibly, pataŋgá- [adj] 'flying' [m] 'bird' (RV+) (see pat [1]) contains a trace of the heteroclytic stem, i.e. patan-qa-. Derives from the verbal root *pet- 'fly' | | | | IIAL IIAL |
| *pet(e)r- | wing, feather | Olr ěn 'bird' Lat penna 'feather' NE feather Grk pterón 'wing' Arm t'îč'im 'fly', Hit pittar □ pattar 'wing' | | | | Body (Upper) | JPM |

Sheet1

| | | | | | | | |
|-----------|-----------------------|---|---|---|---|----------------------|-----|
| *pet(h□)- | fly | NWels hedeg 'fly' Lat petō 'fly at, attack' Grk pétomai 'fly' Hit peta- 'fly' Skt pátati 'flies' | {1} The root-final laryngeal is improbable. | Present I: pátati [3sg.act.] (RV+) Present AYA: patáy° 'to fly' (RV+) Aorist RED: apaptat [3sg.act.] 'fled' (RV+) Perfect: paptúr [3pl.act.] (RV), petátur [3du.act.] (RV), paptivāms- [ptc.act.] (RV) Fut: patīsyāti [3sg.act.] (AV+) Caus: patáy° 'to make fly' (RV+) Aorist RED: apīpatat [3sg.act.] 'made fly' (RV+) Intensive: -pāpatīti [3sg.act.] 'to shoot again and again' (RV 06.006.05), - ví ... pāpatan [3pl.inj.act.] 'to fall asunder' (RV 08.020.04) Desid: pipatiṣ° (AV+) TA-Ptc.: patitá- (AV+) Inf: pátitum' (TS+) | 'flying quickly': Skt. āśu-pátvan- [adj] (RV 04.026.04) — Gr. ὠκυπέτης 'flying quickly': Skt. raghu-pátvan- (RV) — Gr. ἐλαφρότατος πετεηνῶν (Hom) 'let the arrows fly': Skt. íśavah patantu (AV 2.3.6) — YAv. išunam ... patənti 'birds fly': Skt. prá ... váyah ... paptan (RV) — YAv. frā vaiiō patəṇ | Run & Jump | JPM |
| *peth□- | fly | Grk petámai 'fly' Skt patīsyāti 'will fly' | From *pet- | | | Run & Jump | JPM |
| *peth□- | spread out (the arms) | Lat pandō 'spread out' NE fathom Grk pítnēmi 'spread out' OWels etem 'fathom' Lat passus 'step, fathom' | West Central | | | Extend | JPM |
| *peug- | prick, poke | Lat pungō 'prick' Grk pugmē 'fist' | West Central | | | Reductive Activities | JPM |

Sheet1

| | | | | | | |
|---------------|-------------------------|--|---|--|---|----------------------------|
| *peuh□- | clean | OHG fowen 'sieve, clean grain' Skt paváyati 'cleanses' *puhx-to-s 'cleaned' Lat putus 'clean' Av pūtika- 'serving as purification' Skt pūtā- 'clean' *puhx-ro-s 'clean' Olr ūr 'new, fresh' Lat pūrus 'pure' | {1} [AL] Koivulehto's theory that Fin. puhdas/puhtaan 'clean' < PUral. *puštas was borrowed from *puH-tó-s, is improbable (pace EWAia). A more likely source of borrowing is Baltic *puoštas (Liukkonen, K. Baltisches im Finnischen. Helsinki 1999, p. 108, V. Blažek, Indo-European Conference at UCLA, Archiv Orientální 70 (2002), 221-230 p. 226). | Present I: pávate [3sg.med.] 'to become clean' (RV+) Present IX: punāti [3sg.act.] 'to clean' (RV+) Aorist IS: apavišta [3sg.aor.med.] (RV, MS) Perfect: pupuvur [3pl.act.] (Br.+) Passive: pūyáte [3sg.] (RV+) Caus: paváy° (TS+) pāváy° (AVP, KS+) Abs: pūtví 'having cleansed' (RV), pūtvā (AV+) TA-Ptc.: pūtā- {1} (RV+) | Clean | JPM IIAL |
| *péukš | (Scotch) pine, conifer | Olr ochtach 'pine, fir' OHG fiuhte 'fir' Lith pušis 'pine, fir' Grk peúkē 'pine, spruce' Waigali puc 'species of pine' | | | Trees | JPM |
| *peyh, -tu- | prairy, rich grassland' | | | | | Celt. |
| *ph, ew- | fear | | | | | Celt. |
| *ph, tr-ih□o- | paternal | | | pítriya- | | IIAL |
| *ph, tr-uio- | paternal uncle | | | | | IIAL |
| *ph□tér | father | Olr athir Lat pater NEfather Grk patér Arm hayr Av ptā Skt pitār- Toch B päcer | | pitā [nom.sg.] (RV+) pitāram [acc.sg.] (RV+) pitré [dat.sg.] (RV+) pitāras [nom.pl.] (RV+) pitṛphyas [dat.pl.] (RV+) pitārā, pitārau [nom.acc.du.] 'parents, father and mother' (RV+); | 'father's fame': Skt. pitṛ-śrávaṇa- [adj] 'who takes care of his father's fame' (RV) — Gr. (Hom.) πατρός ... κλέος Gr. Πατροκλέης [m] PN | Kinship JPM IIAL |

Sheet1

| | | | | | | | |
|--|----------------------|---|---|-------------------|--|--------------|----------------|
| *ph□trōus | paternal kinsman | Grk pátrōs OLith strūjus OCS stryjī Arm yawray Av tūirya- | | | | Kinship | JPM |
| *ph□trwyos | fathers brother | Lat patruus Grk patruiós Skt pitryvā- | | | | Kinship | JPM |
| *pih□-we/on- *pih□-uos- *pih□-wer-ih: *pih□(y)- | fat | | | pívarī- [f] (RV+) | | | IIAL Beekes |
| | revile | OE fēon 'hate' NE fiend Skt pīyati 'insults' Grk pēma 'suffering, misfortune' | Appears to derive from *peh□- 'misfortune' | | | Love & Hate | JPM |
| *pih□wr, | fat(ness) | Grk pīar 'fat, tallow' Skt pīvas- 'fat' | | | | Meals | JPM |
| *pik- | pitch | Lat pix picea 'tar, pitch' OCS picŭlŭ 'tar, pitch' Grk píssa 'tar, resin' | this word may be related to one of the designations for conifers (*peuk-) in Proto-Indo-European | | | Trees | JPM |
| *pikskos | trout, fish | Olr tasc Lat piscis NE fish Skt picchā- 'calf of the leg'? | Derived from *pik-sko- 'spotted' or the like, a derivative of *peik- 'paint, mark', and the original referent is taken to be the 'trout' which, given its ubiquity across Eurasia, developed into the more general meaning of 'fish'. | | | Fish | JPM |
| *pilos | a single hair | Lat pilleus 'felt' [adj.] NE felt OCS plŭstī Alb plis Grk pīlos | Derived froms *pil-so- or *pil-do- or, as recently suggested *peld- 'felt' | | | Textiles | JPM |
| *pin- | ± shaped wood | OHG witu-fīna 'heap of wood' OCS pīnī 'tree trunk' Grk pínaks 'plank' Skt pināka- 'staff, bow' | | | | Construction | JPM |
| *pipih□usih□ | rich in milk | Lith papijusi 'cow which produces milk' Skt pipyúṣī- 'rich in milk' | | | | Meals | JPM |
| *pipp- | young bird, nestling | Slov pípa 'hen Alb bibē Grk pípos 'young bird' Skt píppakā- | Transparently onomatopoeic (e.g. the Latin derivative means 'peep') | | | Bird | JPM |

Sheet1

| | | | | | | | |
|--|------------------------|---|---|---|--|---------------------|-------------|
| *pisd- | press crush | Grk piézō 'press' Skt pīḍāyati 'presses' | Greek-Indic isogloss {1} Most probably, a root enlargement of *pis- (Skt. peṣ 'to crush') definitely not from *(h ₁ je)pi-s(e)d-, because Greek would have had an initial ē. {2} With a different analysis *(e)pi-s(e)d-. {3} [AL] Usually considered a rebuilding of *πίζω (after ἔζω), but an IE ablaut *piesd-/pisd- cannot be excluded (cf. Avestan siiazd-/sižd-). | Perfect: pipīlé [3sg.med.] 'is pressed out' (pass.) (RV 04.022.08) Present AYA/Caus: pīḍay° 'to press to hurt, to pain, to vex' (AV 12.5.70 +) Passive: aptḍyata [3sg.impf.] 'was squeezed out' (TS 2.6.7.1) | | Bend and Press | JPM IIAL |
| *pido/eh□- | vulva | Lith pyzdā Rus pizdá Alb pidh Nūristāni pəṛi 'vulva' | Is analysed as an old compound *(h ₁ e)pi- b s(e)d- ḡo- 'what one sits on' | | | Body (Lower) | JPM |
| *pit(u)- | (some form of) conifer | Lat pīnus Alb pishē 'spruce, pine, fir' Grk pītus 'pine, spruce' Skt pītu- 'deodar-tree' | | | | Trees | JPM |
| *pitu-(o-) | food | | {1} Only as a second member of compounds, e.g. apa-pitvā- 'eating time' (RV 03.053.24), pra-pitvā- 'daybreak, time before eating' (RV). {2} Possibly, hypostasis of *áram piθváh (vi)bāgāya 'ready for the distribution of food'. {3} See for this analysis s.v. pitú-. | | | | IIAL |
| *pitus | grain | Olr ith 'grain' Lith piētūs 'meal' OCS pišta 'meal' | Probably from an unattested verbal root *peih□- 'be fat/swollen' | | | Food & Drink | JPM |
| *pl(e)t- | shoulder (blade) | Mlr leithe 'shoulder' Rus plečō 'shoulder' Grk ōmo-plátē 'shoulder blade' Hit paltāna- 'shoulder' | | | | Body (Upper) | JPM |
| *pleh ₁ d ₂ wéh ₁ s | (the mass of) people | Lat plēbēs 'plebeians [as opposed to the patricians]' Grk plēthūs 'throng, crowd [common] people' | West Central | | | Social Organization | JPM |
| *pleh□k- | please | Lat plācō 'smooth, calm' NE placate Lat placeō 'please' (through Old French) NE please Toch AB plāk- 'be in agreement' | | | | Values | JPM |

Sheet1

| | | | | | | | |
|------------|-----------------------------|---|--|--|--|----------------------|-------------|
| *pleh□k/g- | strike, strike ones breasts | Lat plectō 'strike, punish' Lat plangō 'strike, strike one's breast in lamentations, bewail' OE flōcan 'strike, clap' Lith plākti 'strike' OCS plakati sę 'weep, be sorrowful' Grk plássō 'strike' | West Central | | | Conflict | JPM |
| *plek- | ± break, tear off | NE flay Lith plé'siù 'tear off' Alb plas 'burst, break' | West Central | | | Reductive Activities | JPM |
| *plek- | braid, plait | Lat plectō 'plait, interweave' OE fleohtan 'braid, plait' OCS pleto 'braid, plait' Grk plékō 'braid, plait' Skt praśna- 'braiding, basketwork, turban' NE flax < *plok-so- | {1} Gershevitch 1959: 261, however, follows Bartholomae's connection of Av. frašna- with Phl. plš 'spear (or sim.)' and translates 'pike'. | | | Textiles | JPM IIAL |

Sheet1

| | | | | | | | |
|---------------------------|---------------------|--|---|--|--------------------------------------|--------|-------------|
| *pleth ₂ - | spread out | Oir lethaid 'extends, expands' Lat plantō 'plant' Lith plechiū 'widen, spread out' Skt prāthati 'spreads out' | | Present I: prāthate [3sg.med.] 'to spread, extend' (intr.) (RV+) āprathatam [2du.impf.act.] 'to make spread, to make extend' (RV 06.069.05, 06.072.02), prathantu [3pl.impv.act.] (VS, ŠB) Aorist IS: aprahiṣṭa [3sg.med.] (RV 02.011.07), prāhiṣṭa [3sg.inj.med.] (RV) Aorist R: prathānā- [ptc.med.] (RV 01.092.12, 06.064.03 nonce) Perfect: paprāthat [3sg.subj.act.] (RV) paprathé [3sg.med.] (intr.) (RV-TBm) Caus: pratháyant- [ptc.act.] 'to make spread, make extend' (RV+), prathayase [3sg.pres.m.] prathinā [instr.sg.] (RV) (< *prathimná) | to extend power': Skt. paprathac chá | Extend | JPM IIAL |
| *pleth ₂ -mon- | breadth, extension | | {1} [AL] Gr. πλαῖθωνον 'dough-board' is hardly related. | | | | IIAL |
| *pleth ₂ -os- | breadth | | | | | | IIAL |
| *pleu- | float, swim wash | Grk plé(w)ō Skt plāvate Oir luíd 'moves' Lat pluit 'it rains' NE flow OCS plovŏ 'flow' Arm luanam 'wash' Toch B plus- 'float' | | | | Swim | JPM |
| *pléumōn | lung | Lat pulmō 'lung' Grk pleúmōn 'lung' Skt klóman- 'right lung' | Derives from *pleu- 'float' | | | Organs | JPM IIAL |

Sheet1

| | | | | | | | |
|--|---------------------------|---|--|---|---|--------------------|-----------------------|
| *pleus- | (pluck) fleece, feathers | Lat plūma 'the downy part of a feather' NE fleece Lith plūskos [pl.] 'hair' | North-West | | | Textiles | JPM |
| *plh ₁ - *plh ₁ -u- | stronghold much | | | pūr [nom.sg.], pūram [acc.sg.], etc. (RV+) pūrvī- [adj.f.] (RV+) 'of many wonderful deeds': Skt. purutāma-, purūtāma- [sup] 'very much, in great numbers, very often, occurring very often' (RV) | | | IIAL IIAL |
| *plh ₁ -nós | full | Oir lān NE full Lith pilnas OCS plünū Av pərəna- 'filled' Skt pūrṇā- 'full' Toch B pällew 'full [of the moon]' Lat plēnus is from the full-grade | {1} It is not certain that this is an Indo-Iranian formation. {2} Possibly, for *plānus to avoid homonymy with plānus 'flat'. | | '(of) full moon': Skt. pūrṇā-mās-a- [m] 'sacrifice at full moon' (KS+) — YAv. pərənō.māṇha- [m] N of god (divinity of the full moon) — MP purr-māh 'full moon' 'having) full life(time)': Skt. pūrṇāyus- [m] N. of a Gandharva (= 'having full life-time') (Ep.) — YAv. pərənāiiu- [adj] 'of age' {1} | Measure & Quantity | JPM Beekes IIAL |
| *plh ₁ -u-poik/kos | many-coloured, variegated | Grk polupoikilos Skt puru-péša- ?Gothic filu-faihs 'very diverse' | West Central | | | Color | JPM |
| *plh□- | grey, pale | Mlr līath 'grey' Lith pilkas 'grey' Grk pelitnós, poliós 'grey' Av pouruša- 'grey' Skt palitá- 'grey' Lat pallidus 'pale' NE fallow 'old man' Alb plak 'fallow' Arm alik' 'white' | {1} [AL] There is no evidence for a laryngeal in this word. | pāruṣṇī- [f], also name of a river (RV+) | | Color | JPM IIAL |
| *plth ₁ -o- | flat | | | | | | IIAL |

Sheet1

| | | | | | | | |
|--------------|---------------|---|--|---|---|---------------------|---------------|
| *plth:-u- | broad | | | pr̥thví- [adj.f.] (RV+) práthīyas- [comp] 'broader, wider' (ŚB+) | '(of) wide fame': Skt. pr̥thú śrávas (RV) pr̥thu-śrávas- [m] PN (RV+) — Gr. κλέος εύρύ, Εύρυκλής [m] PN 'of wide expanse/lakes': Skt. pr̥thu-jráyas- [adj] (RV) — YAv. pərəθu.zraiaha- [adj] 'forming wide lakes' (Yt 8.2) 'wide waters': Skt. आपह ... pr̥thvīh (RV) — YAv. āpō ... pərəθβīš 'with broad hips': Skt. pr̥thú-śroni- [adj] (ŚB+) — YAv. pərəθu.sraoni- [adj] 'broad place': Skt. pr̥thūm yónim ... sasāda (RV 10.099.02) — YAv. pərəθu.yaona- [adj] 'with a broad place' | | IIAL |
| *plth:ús | broad, wide | Lith plātūs 'broad' Grk platús 'broad' Av pərəθu- 'broad, wide' Skt pr̥thú- 'broad, wide' | derived from *pleth:- 'spread' | | | Shape | JPM Beekes |
| *plth:w-ih□- | country, land | OE folde 'land' Arm hōl 'earth, country' Skt pr̥thivī- 'earth' | The Celtic languages retain the word to designate Brittany (e.g. Mlr Letha, NWels Llydaw) while the Greeks similarly used it as a place name, i.e. Plátaia both Celtic and Indic also deiWed the concept as an '(earth) goddess' (Skt Pr̥thivī- and Gaul Litavi(s)). | | | Social Organization | JPM |
| *plus- | flea | Lith blusà OCS blūcha | The Latin word, for example, requires metathesis from *plusek- to *puslek- The possible Greek cognate would seem to require a development *plusy(e)ha- > *psuly(e)ha > psúlla Baltic and Slavic require *blusyeha- {1} "Die vielen Varianten beruhen auf euphemistischer, spielerischer od[er] volksetvmoloaischer Verdrehuna" (Frisk). | | | Bug | JPM IIAL |
| *plut- | plank | Lat pluteus 'movable penthouse, shed' Lith plaūtas 'plank' NE Wst Lith kūmstė [< *punkstė] 'fst' OCS pęstī 'fist' | North-Western | | | Construction | JPM |
| *pn(kʷ)stí- | fist | | North-Western | | | Body (Upper) | JPM |
| *pneu- | snort, sneeze | OE fnēosan 'sneeze' Grk pnéo 'breathe' | West Central | | | Vital Functions | JPM |

Sheet1

| | | | | | | | |
|--|------------------|--|--|---------------------|-------------------------------------|--------------------|-----------------------|
| *pnk ^w -tós *pnk ^w -th□o- | 5th fifth | Av puxa-, Skt pakthá- *pénk ^w tos Lat quīntus NE fifth Lith peñktas OCS pětŭ pestě Grk pémp̄tos Toch B piñkte | | | | Numbers | JPM IIAL |
| *po-sk ^w o- | behind | Lith paskuē 'behind after that, later on' Alb pas 'after' Av paskāt pasča 'behind' Skt páścāt □ pascā 'behind, westerly' [because the west is to one's back when oriented to the rising sun] | a compound of *po 'back' and *sek ^w - 'follow'. | | | Position | JPM |
| *póds | foot | Lat pēs 'foot' NE foot Lith pādas 'sole of foot' Rus pód 'ground' Grk poús 'foot' Arm otn 'foot' Hit pata- 'foot' Av pad- 'foot' Skt pād- 'foot' Toch B paiyye 'foot' | {1}The feminine in *pad-ŋ seems to be inherited (< IE * ^h ped-ih₂-), cf. a-pād- [adj.f.] 'footless', cátuš-pad- [adj.f.] 'having four feet' (RV), YAv. aymō.paid- [f] 'wearing sandal straps on the feet', Gr. ἀργυρό-πεζα [f] 'with silver feet'. | pāt [nom.sg.], padā | bipeds and quadrupeds': Skt. dvi-pā | Body (Lower) | JPM IIAL Beekes |
| *poh₂-i-mén- | herdsman | Lith piemuō 'herdsman' Grk poimēn 'herdsman' | from *poh₂(i)- 'watch (cows)' | | | Occupations | JPM |
| *poh₂-lu- | protector / herd | | Related to *peh₂- protect | | | | IIAL Beekes |
| *poh₂tlom | drinking vessel | Lat pōcūlum 'cup' Skt pātra- 'drinking vessel' | Derives from *peh₂- 'drink' and may be banal independent formations, i.e. 'an instrument for drinking'. | | | Containers | JPM |
| *póh□iweh□- | open meadow | Lith pīeva 'meadow' Grk póā 'grass, grassy place' | Possibly from the verb *peh₂- 'nourish' | | | Plants | JPM |
| *poksós | side, flank | Latv paksis 'corner of a house' Rus pákh 'flank, loins', pakhá 'armpit' Oss faxs 'side' Skt pakṣá- 'wing, flank, side' Olr ucht ?? 'breast' Lat pectus 'breast' | | | | Body (Upper) | JPM |
| *pól- | fall | NE fall Lith púolu 'fall' Arm p'ul 'fall, crush' | West Central | ? | | Crawl, Slide, Fall | JPM |
| *pólh□m *plh₂meh₂ | palm of the hand | Olr lām 'hand' Lat palma 'palm' OE folma 'palm, hand' Grk palámē 'palm' | | | | Body (Upper) | JPM Celt. |
| *pólik(o)s | finger, thumb | Lat pollex 'thumb' Rus pálec 'finger, toe' | North-Western | | | Body (Upper) | JPM |

Sheet1

| | | | | | | | |
|-------------|-------------------|---|--|--------------------|---|------------|-----------------------|
| *poikéh□- | ± fallow land | Gaul olca 'fallow land' NE fallow Rus polosá'strip of arable land' Olr littiu 'porridge, gruel' Lat puls 'pap, porridge, mash' Grk póltos 'pap, porridge' | North-Western | | | Plants | JPM |
| *polt- | pap, porridge | | | | | Meals | JPM |
| *pont-eh, - | road | | {1} -th- in Sanskrit has been generalized from the oblique cases. {2} Most probably, /panθim/, cf. Beekes 1989. {3} [AL] The reconstruction given in the EWAia, viz. *pént-oh : -s / *pnt̥-h : -es, is improbable. The *-o- in the root follows from Greek, Latin, Armenian, OCS. If the laryngeal in the suffix had been *h₂, it would have yielded an ā-stem somewhere. The reason (not explicitly mentioned in the EWAia) for reconstructing *h₂ is the theory that Skt. aspiration can only be caused by the second laryngeal. This theory is refuted by 2pl. ending *-th₂e > Skt. -tha. | pánthās [nom.sg.], | 'comfortable road': Skt. syonán patháh (RV) — YAv. huuāiaonāñhō pantānō 'the path of Truth': Skt. ṛtāsya pánthāḥ (RV) — YAv. ašahe pantam cf. also s.v. rjú-, rad | | IIAL |
| *póntōh₂s | (untraced) path | Olr äitt 'place' Lat pōns 'bridge' OPrus pintis 'way' OCS pōtī 'way' Grk póntos 'sea' (< 'path through the sea'), pátos 'path' Arm hun 'ford' Skt pánthās 'path' | From the root *pent- 'find one's way' | | | Roads | JPM |
| *pórkos | young pig, piglet | Mlr orc 'young pig' Lat porcus 'young pig' OE fearh 'pig' [cf. NE farrow] Lith pařšas 'young pig castrated male hog' Rus porosēnok 'young pig' Av pərəsa- 'young pig' | From a root *perk- 'dig, root up the earth' > NE furrow | | | Fauna | JPM Beekes |
| *pos- | after, behind ? | Lat posterus 'behind' Lith pās 'at, with', pāstaras 'last, furthest behind' OCS po 'after' dialectal Grk pós 'near, by' Alb pa 'without' | West-Central May itself derive (as the genitive form) from either *h₁ep- 'near' or *h₂ep- 'back'. {1} [AL] For the reconstruction see Lubotsky 2001a. | | | Position | JPM Beekes IIAL |
| *posti | after | Lat post(e) 'after' Arm øst 'after' Toch B postām 'after' | derived from *pos | | | Position | JPM |
| *pot-n-ih□- | mistress, lady | OPrus waispattin 'wife, mistress' Grk pótnia 'lady, wife' Alb zonjë 'lady, wife' Skt pátnī- 'lady, wife' | | | | Marriage | JPM IIAL |
| *póth□r, | shallow dish | Grk patánē 'bowl, flat dish' Hit pattar 'dish' Olr ān 'drinking vessel' | Presumed derivation from *peth□- 'spread out' | | | Containers | JPM |
| *poti | over, against | | | | | | Beekes |

Sheet1

| | | | | | | | |
|----------------------------------|---|---|---|--|--|---------------------|------------------|
| *poti-e *pótis | be lord over husband lord, master | Bret ozah [< *potis stegesos] 'husband, master of the house' Latv pats 'master of the house self' Rus gospódī [< *ghost-poti-] 'host' Alb zot [< *wikā-pot-] 'master of the house' Grk pó sis 'husband' Hit pat 'self' Av paiti- 'husband' Skt páti- 'husband, master' Toch A pats 'husband' | The husband and wife constituted the 'master' and 'mistress' of the household, which might consist of children, grandchildren, and perhaps unrelated slaves or servants. Of course within a given household not every husband and wife, of which there might be several (father and mother, sons and wives), would be 'master' and 'mistress' but only the most senior ones. Indeed, there is some evidence that, should the senior man die, his eldest son would become the master, but the dowager would remain the mistress. | Present IV: pátyate [3sg.med.] (RV-YVm) pátye [dat.sg.] (RV+), etc. | | Marriage | IIAL JPM |
| *pótyetoi | rules, is master | Lat potior 'I am master' Av paiθyeiti 'rules' kt pátyati 'rules' | | | | Social Organization | JPM |
| *pou-m-s- | (human) body hair | Lat pūbēs also designates 'adult, one able to bear arms' Skt pūmān 'man, male' Lith paustis 'animal hair' Rus pukh 'down' Alb pushem 'begin to grow a beard, body hair' Grk pō gōn 'beard' Shughni pūm 'down, fluff' | | | | Hair | JPM |
| *pr(h ₃)tis | what is distributed | Latin pars 'part', portiō 'portion' Skt pūrtá- 'gift, granting, reward' | Possibly independent creations from *per(h ₃)- 'sell, distribute' | | | Exchange & Property | JPM |
| *pre/oti *preh ₃ i | over, against at the front | | | | | | Beekes Beekes |

Sheet1

| | | | | | | | |
|------------|--------------------|--|---|--|--|----------------|------|
| *preih- | satisfy, please | | {1} [LK] With the secondary shortening of the root vowel see Kulikov 2001: 359f., 203ff. {2} Connection of Gr. πρῶϋς [adj] 'soft, mild' with prayi- is uncertain. | Present IX: prīṇanti [3pl.act.] (RV+) Present IV: apriyamāṇa- [neg.ptc.med.] (JB 3.232), priyantām {1}, priyantām [3pl.impv.med.] (Sū.m+) Aorist S: prēṣat [3sg.subj.act.] (RV 01.180.06), apraiṣam [1sg.act.] (Br.) Aorist SIS: apraiṣīt [3sg.act.] (ŚB) Perfect: pipriyé [3sg.med.] (RV), piprāyat [3sg.subj.act.] (RV), piprihi [2sg.impv.act.] (RV), ápipres [2sg.ppf.act.] (RV-Kh., YVm) TA-Ptc.: prītá- 'pleased, satisfied' (RV+) | 'to worship and please (gods)': Skt. yákṣat ... pipráyac ca (RV) — OAv. yazamaidē ... friiṇmahī (Y 38.4) YAv. kō yazāite ... kō frīnāt_ (Yt 13.50) 'having satisfied horses': IAr. *prītāśuṇ- PN (Mitanni-IA) — YAv. frīnāspa- [m] PN | | IIAL |
| *prek-no- | question | | | | | | IIAL |
| *prem- | press down or back | Lat premere 'press down' Toch B prām- 'restrain' | | | | Bend and Press | JPM |
| *prep- | appear | Olr richt 'form' Grk prēpō 'appear' Arm erewim 'am evident, appear' | West Central | | | Sight | JPM |
| *prest- | (period of) time | ON frest 'period of time, interval' OHG frist 'period of time, interval' Toch A praṣt 'season' | | | | Time | JPM |
| *preu-(g)- | jump | Skt prāvate 'jumps' Lith sprū gti 'leave, escape' Rus pry'gnutī 'leap' Toch B pruk- 'make a leap' NE frog Skt plava- 'frog' | | | | Run & Jump | JPM |
| *preus- | burn | Lat prūna 'glowing coals' Alb prush 'glowing' Skt ploṣati 'burns' ? | Questionable | | | Fire | JPM |

Sheet1

| | | | | | | | |
|-------------|---------------------------------|--|---|--|---|--------------|--------|
| *preus- | frost | NE frost Lat pruīna 'hoarfrost' Olr reōd 'strong cold' ? Skt pruṣvā- 'hoarfrost' or 'dew, drop' ? | North-Western | | | Water | JPM |
| *prh : os | before | | | | | | Beekes |
| *prh : któs | anus | Grk prōktós Arm erastank' [pl.] | Greek-Armenian isogloss | | | Body (Lower) | JPM |
| *prh□éh□ | in front of before (of time) | NE fore Grk pará'by, near, alongside of, beyond' Arm ar 'near, at' Av parə 'before' Skt purā 'formerly' | | | | Position | JPM |
| *prh□éi | in front of before (of time) | Gaul are- 'before, by east' Lat prae 'before' Lith priē'by, at, near in the time of' Grk paraí'before', Skt paré'thereupon') | | | | Position | JPM |
| *prih□-eh□- | love | Goth frijōn 'love', frijōnds 'friend' OCS prijajō 'am favourable' Skt priyāyāte 'befriends' OE frīgan 'love' ON frī 'beloved, spouse' Av frya- 'dear' Skt priyā- 'dear' NE free NWels rhydd 'free' | | | | Love & Hate | JPM |
| *prih□-o- | dear | | | | 'we would like to be (your) dearest friends': Skt. syāma ... prēṣṭhāh (RV 06.026.08) — OAv. fraēštāñhō āñhāmā 'lord of the beloved one': Skt. priyā-pati- (YV+) — Elam.-Iran. *friyapati- 'having desired horses': IAr. *prija-ašūa- [m] PN (Mitanni-IA) — Elam.-Iran. *friyāspa- [m] PN | | IIAL |
| *prih□eh□- | wife | ON Frigg ON frī 'beloved, wife' OE frēo 'woman' Skt priyā- 'wife' | | | | Marriage | JPM |
| *prih□ós | of ones own | NWels rhydd 'free' NE free Av frya- 'dear' Skt priyā- 'dear' | Some have seen this word as derived from a (controversial) root *per- 'house', i.e. 'those who belong to one's own household' | | | Family | JPM |
| *prk(w)eh□- | pine | Italian forca NE fir | | | | Trees | JPM |

Sheet1

| | | | | | | | |
|-----------------------------------|--|--|---|---|--|-------------|---------------|
| *pr̥keh□- | furrow | NWels rhych Lat porca 'a ridge between two furrows' NE furrow Skt pársāna- 'chasm' | Only the North-West region evidences a specifically agricultural meaning. The term is related to the word for 'pig' (*porkos) and there is the widespread notion of the pig as an animal that leaves a furrow-like track as it roots up the ground. | | | Agriculture | JPM |
| *pro | forward, ahead, away before, towards the front | Lat prō □ pro 'before, in front of, before' OHG Wr- 'before' OPrus pra 'through' Grk prō 'in front of before [of time]' Hit parā 'forward, further' Av frā 'in front of' Skt prá- 'before' | | | | Position | JPM Beekes |
| *pro- | third-generation marker | Lat pro-avus 'great-grandfather' Lat pro-nepōs 'great-grandson' Skt prá-napát- 'great-grandson' | | | | Kinship | JPM |
| *prō- | early, morning | OHG fruō 'early' Grk prōi 'early, in the morning' Skt prātār 'early' | Appears to have been a lengthened grade of a form ultimately based on *per- 'forward, through' | | | Time | JPM |
| *pro-d ^h ur- | outdoor | | {1} [AL] For the etymology, see Forssman 2000 with reff. Originally, the etymology was proposed by Theodor Benfey in 1839. Rastorgueva - Edel'man 2: 501 (s.v. *2duār-/duār-) mention several Iranian formations, illustrating the connection 'door' ~ 'outdoor', e.g. Ishk. pš-var, tar-var 'outdoors', Yaghn. divari 'outside', Oss. dwarmæ 'outside, outdoors', Bactr. αλβapo 'court(yard)'. | | | | IIAL |
| *pro-mo- | foremost, leading | Gr. prómos 'leader' Umbrian promom [Adverb] 'firstly' | | | | | Celt. |
| *pro-tero- | more to the front | | | | | | IIAL |
| *pro-tmh□o- | first, front | | {1} The antiquity of Skt. -th- is confirmed by MP pahlom and (indirectly) by OP fraθara- [adj] 'superior' (see pratarám). Presumably, we must assume contamination of the superlative suffix *-tHa- and *-tamHa- < *-tmHq-. | partly pronominal inflection | | | IIAL |
| *prók̥som | grain | Rus próso 'millet' Toch B proksa [pl.] 'grain' | *proksom [sg.] □ *prok̥seha [pl.]. | | | Plants | JPM |
| *proti | against, up to | Latv pretī 'against' OCS protivŭ 'towards' Grk protí 'at, in front of, looking towards' Skt práti 'against' | | | | Position | JPM |
| *próti-h₃(ō)k ^w -o/eh□ | face, front | Grk prósōpon Skt prátiika- Toch B pratsāko 'chest' | | | | Head | JPM |
| *proti-h₃k ^w -o- | turned towards, looking towards | | | pratyāñ [nom.sg.m.], pratyāñc-am [acc.sg.m.], pratyák [nom.sg.n.], pratīc-ās [abl.s | | | IIAL |
| *psten- | breast of a woman | | | | | | IIAL |

Sheet1

| | | | | | | | |
|------------------|-----------------------|--|---|---|--|--------------------|---------------|
| *psténos | womans breast, nipple | dialectal Grk sténion Arm stin Av fštāna- Skt stāna- Toch B pāścane [dual] | | | | Body (Upper) | JPM |
| *pster- | sneeze | Olř srěod 'sneeze' Lat sternuō 'sneeze' Grk ptárnumai 'sneeze' Arm p'rngam 'sneeze' | | ? | | Health&Sickness | JPM |
| *pteh-, - | fall | Grk aptēs 'not-falling' Av tāta- 'fallen (of rain)' Hitt piddāi- means 'flees' | | | | Crawl, Slide, Fall | JPM |
| *pteley/weh□- | elm? | Mlr teile 'linden' Lat tilia 'linden' Grk ptelēā 'elm' ptélas 'wild rowan' Arm t'eli 'elm' Oss foerwe 'alder' | | | | Trees | JPM |
| *pū- (*puh□-) | stink | Lat pūteō 'stink' Lith púdau 'rot' Grk púthō 'become rotten' Av puyeiti 'rots' Skt pūyati 'stinks' | | | | Sensation | JPM |
| *puh□- | rot | | {1} With the accent on the suffix (pūyá-) in the corresponding form in the Kāṇva recension (ŠBK 2.1.3.2). | Present IV: pūyati [3sg.act.] (AVP 13.4.4, YVp+) TA-Ptc.: án-ā-pūyita- 'non-putrified' (ŠB 1.1.3.5) | | | IIAL |
| *pūh□es- | putrefaction, pus | Lat pūs 'pus' [> by borrowing NE pus] Lith puvės(i) 'rotten things' Grk púos 'pus' Arm hu 'purulent blood' | From a root *peu(hx)- 'stink, rot'. | | | Health&Sickness | JPM IIAL |
| *puh□rós | wheat | Lith pūraĩ 'winter wheat' Slov pír 'spelt' Grk pūrós 'wheat' | | | | Plants | JPM Beekes |
| *puķ- | headband | Grk ámpuks '(metal) headband' Av pusā- 'diadem' | | | | Textiles | JPM |
| *puķ- | press together | Grk ámpuks Av pusā- Alb puth 'kiss' | | | | Bend and Press | JPM |
| *puk(eh□)- | tail | NE fox Torwali pūš 'fox' Skt púccha- 'tail' Toch B pākā- 'tail, chowrie' | Found in Germanic, Indic, and Tocharian and gives us our word 'fox' | | | Hair | JPM |

Sheet1

| | | | | | | | |
|---------------------|-----------------|--|---|--|--|----------------------|-------------|
| *pulos *pilos | (a single) hair | Mlr ulu 'beard' Grk púligges [pl.] 'hairs of the body' Kurd pūr 'head hair' Skt pulakās [pl.] 'bristling hairs of the body' Lat pilus '[a single] hair [of the human body]' pilleus 'felt' OCS plūstī 'felt' Grk pīlos 'felt' | | | | Hair | JPM |
| *put- | cut | Lat putō 'prune' Toch AB putk- 'divide, share, separate' | | | | Reductive Activities | JPM |
| *putlós | son | Skt putrá- Osc puklo- 'son' Arm ustr 'son' Av puθra- 'son' | Traditionally derived from *p(a)u- 'small' + the diminutive suffix *-tlo-, i.e. the 'small one' | | | Kinship | JPM IIAL |
| *putós | ± vulva, anus | MHG vut 'vulva' Grk púnnos 'anus' Skt putau [dual] 'buttocks' | | | | Body (Lower) | JPM |
| *pyek- | strike | NE fight Alb pēr-pjek 'strike' Toch B pyāk- 'strike [downward], batter, beat [of a drum], penetrate [as the result of a downward blow]' | | | | Conflict | JPM |
| *rab ^h - | ± ferocity | Lat rabiēs 'violence' Skt rábhās- 'ferocity' | Italic-Indic isogloss | | | Values | JPM |
| *red- | gnaw, scrape | Lat rōdō 'gnaw' MPers randītan 'scrape, smooth' Skt rádati 'bites, gnaws, cuts, makes way, opens' | | | | Reductive Activities | JPM |
| *reg- | dye | Grk hrézō 'dye' NPers rang 'colour' Skt rájyati □ rájyate 'is coloured reddens' | | | | Textiles | JPM |
| *re ġ - *rek-nos | moist, make wet | Lat (ir)rigāre 'water, irrigate' NE rain Lith rōkia 'drizzles' Alb rrjedh 'flow, pour' | West Central | | | Qualities | JPM |
| *reh , - | put in order | Olr rād- 'say' Goth rōdjan 'talk' OCS raditi 'take care of' Skt rādhnōti 'prepare' ? Latin reor 'count, calculate' | The Latin cognate is not universally accepted | | | Placement Verbs | JPM |

Sheet1

| | | | | | | | |
|----------------------|-----------------------------|--|--------------------------------|--|--|----------------------|-----|
| *réh :is | possessions | Lat rēs 'thing, affair, circumstance possessions, wealth business matter law-suit' Av raēvant- 'rich, splendid, ostentatious' Skt rayí- 'possession, wealth' | | | | Exchange & Property | JPM |
| *reh :mós | dirty dirt, soot | OE rōmig 'sooty' Skt rāmā- 'dark, black' | | | | Earth | JPM |
| *reh :t- | post, pole | Lat rētae 'trees growing along the bank or in the bed of a stream' NE rood | North-Western | | | Construction | JPM |
| *rei- | striped, spotted | Olr rīabach 'streaked, striped' Latv rāibs 'spotted' Rus rībyj 'variegated' ?NE roe | North-West | | | Color | JPM |
| *rei- | tremble, be unsteady | Goth reiran 'tremble, shake' Skt lelāyati 'swings, is unsteady' | Gothic-Sanskrit correspondence | | | Motion | JPM |
| *reid ^h - | ride | Mlr rīadaigid 'rides' NE ride | Celtic-Germanic isogloss | | | Convey | JPM |
| *rei ġ - | extend, stretch out (a body | Olr ringid 'twists, tortures' NE reach Lith rēižti 'stretch, tighten' | North-West | | | Extend | JPM |
| *reik- | scratch line | NWels rhwyg 'break' NE row Lith riekė~'slice [of bread]' Grk ereikō 'bend, bruise' Skt rekhā- lekḥā'line' | | | | Placement Verbs | JPM |
| *rek- | speak | OCS rešti 'say' Toch B reki 'word' | Slavic-Tocharian Isogloss | | | Speech | JPM |
| *rend ^h - | rend, tear open | NE rend Skt rāndhram 'opening, split, hole' | | | | Reductive Activities | JPM |
| *rēp- | crawl | Lat rēpō 'crawl, go on all fours' Lith rēplió ti 'crawl, go on all fours' | North-West | | | Crawl, Slide, Fall | JPM |
| *rēpéh□- | turnip | Lat rāpum OHG ruoba □ rāba Lith rópė Grk hráp(h)us | West-Central | | | Plants | JPM |
| *resg- | plait, wattle | Lat restis 'rope, cord' NE rush Lith rezg(i)ù 'knit, do network' OCS rozga 'root, branch' NPers raaza 'woollen cloth' Skt rájju- 'cord, rope' | | | | Textiles | JPM |

Sheet1

| | | | | | | | |
|-------------------------|-----------------|---|---|---|--|----------------------|-----|
| *reth:- | run | <p>Olr reithid 'runs'</p> <p>NWels rhedaf 'run'</p> <p>*roth:eh□- or *róth:os 'wheel'</p> <p>Olr roth 'wheel'</p> <p>Lat rota 'wheel'</p> <p>OHG rad 'wheel'</p> <p>Lith rātas 'wheel' (and plural rātai 'wagon')</p> <p>Alb rreth 'ring, hoop, tyre'</p> <p>Av raθa- 'chariot, wagon'</p> <p>Skt rátha- 'chariot, wagon'</p> | <p>The Tocharian word for 'army', e.g. Toch B retke, is probably derived from PIE</p> <p>*roth:ikos 'pertaining to chariot', i.e. the army was originally the 'chariotry'</p> | | | Run & Jump | JPM |
| *reu- | roar, howl | <p>ON rymja 'roar'</p> <p>OCS rovq 'roar'</p> <p>Grk ōrúomai 'howl'</p> <p>Skt ruvāti 'roars, bellows'</p> <p>Lat rūmor</p> | | | | Animal Noises | JPM |
| *reu(h□)- | pull out [wool] | <p>ON rýja (also Norw ru 'winter wool')</p> <p>Olr rōn 'horse's mane'</p> <p>Rus runó 'fleece'</p> <p>NPers rōm 'pubic hair'</p> <p>Skt lóman- □ róman- 'body hair of men and animals'</p> | | | | Textiles | JPM |
| *reu(h□)- | tear out, pluck | <p>Mlr rūam 'spade'</p> <p>Lat ruō 'tear off'</p> <p>fall violently'</p> <p>ON rýja 'pluck wool from a sheep'</p> <p>Lith ráuju 'pull out, weed'</p> <p>OCS rūvq 'pull out'</p> <p>Toch AB ruwā- 'pull out [from below the surface with violence]'</p> | | | | Reductive Activities | JPM |
| *reud ^h - | push back | <p>NE rid</p> <p>Skt rudh- 'check, restrain'</p> <p>Toch AB rutk- 'move, remove'</p> | | | | Convey | JPM |
| *reudh□- | mourn, lament | <p>Lat rudō 'roar, bellow, bray'</p> <p>ON rauta 'roar' [whence by borrowing NE root (for someone)]</p> <p>OE réotan 'moan'</p> <p>Lith raumi 'mourn, lament'</p> <p>Slov rydati 'weep, cry, sob'</p> <p>Av raod- 'lament, mourn'</p> <p>Skt róditi 'weeps, roars'</p> | present *réudh□ti | | | Human Sounds | JPM |
| *réug ^h men- | cream | <p>NE ream</p> <p>Av raovna- 'butter'</p> | | ? | | Meals | JPM |
| *réuh□es- | open space | <p>Olr rōi 'field, open land'</p> <p>Lat rūs 'countryside, open fields'</p> <p>Av ravah- 'space'</p> <p>NE room (with a different suffix)</p> | <p>From the verb *reuh□-, preserved only in Toch AB ru- 'be open'</p> | | | Space | JPM |

Sheet1

| | | | | | | | |
|---|---------------------|--|--|--|--|----------------------|---------------|
| *reuk/g- | shrink, wrinkle up | Lat rūga 'wrinkle' Lith runkù 'shrivel up' Toch B ruk- 'grow lean (with hunger)' | | | | Measure & Quantity | JPM |
| *reumn- | rumen | Lat rūmen 'gullet, rumen' Baluchi rōmast 'rumination' Skt romantha- 'rumination' | | | | Organs | JPM |
| *réumn- | horsehair fleece | Olr rōn 'horse's mane' Rus runó 'fleece' NPers rōm 'pubic hair' Skt róman- □ lóman- 'body hair of men or animals' | | | | Hair | JPM |
| *reup- | break | Lat rumpō 'break' NE rift Lith rūpé'ti 'grieve, afflict' ?Skt rūpyati 'suffering racking pain' | | | | Reductive Activities | JPM |
| *reus- | contend with, | MHG rūn 'make a noise, uproar bluster, rave, rage' Skt roṣ- 'displeases, takes offence at' Toch B rās- 'criticize, accuse, object to' | | | | Conflict | JPM |
| *rik- | nit, | Lat ricinus Skt likṣā | | | | Bug | JPM |
| *róth : o/eh □- | wheel | Lat rota 'wagon' Lith rātai [pl.] 'wagon' Av raṭha- 'wagon, chariot' Skt rátha- 'wagon, chariot' Olr roth 'wheel, circle' Lat rota [again] 'wheel' OHG rad 'wheel' Lith rātas [sg.] 'wheel' | A derivative, *róth :ikos, gives Alb rreth 'ring, hoop, tyre (for carriages)' and the Tocharian word (Toch B retke) for 'army' (< *'chariotry'). | | | Transport | JPM Beekes |
| *roudh □ os | cry n. | OHG rōz Lith graudà Skt róda- | | | | Human Sounds | JPM |
| *rṣēn | male | Grk ársēn 'male' Av arəšan- 'male' Skt rṣabhá- 'bull male animal in general' | Generally indicates 'male' in opposition to 'female' | | | Family | JPM |
| *rug ^h is *rug ^h yo- | rye | NE rye Lith rugỹs Rus rožĩ Shughni rōvz 'ear of rye' | | | | Plants | JPM |
| *ruk- | over-garment | Olr rucht 'tunic' OE rocc 'over-garment, rochet' | North-West | | | Textiles | JPM |
| *s-h : upó | underneath | Lat sub 'underneath', animālia suppa 'animals [on all fours]' Arm hup 'near' Hit suppala- 'animal' Toch B spe 'near' | | | | Position | JPM |
| *s(e/ō)m | one, as one, united | | | | | | Beekes |
| *s(h :)neh : ur- | sinew | | | | | | IIAL |

Sheet1

| | | | | | | | |
|-------------------------|---------------------------------|---|--|--|--|---------------------|--------------|
| *s(w)eb ^h - | lineage | NE sib Lat sodālis 'associate' OCS svobodī 'free' Skt sabhā- 'assembly' | built on the reflexive pronoun 'self'. | | | Family | JPM |
| *s(w)ed ^h - | custom, characteristic | Lat sodālis 'companion' [< *'member of a group'] OE sidu 'custom' Grk éthos 'custom, habit' Skt svadhā 'character, peculiarity, custom' Toch B šotri 'sign, characteristic' | Which has been analysed as a compound of *s(w)e 'own' and *dh(e)h - 'set, establish'. | | | Social Organization | JPM |
| *saiwos | hard, sharp, rude | Lat saevus 'hot-headed, raging, furious' Latv sievs 'hard, curt' | North-West | | | Values | JPM |
| *sakros | holy | Lat sacer 'sacred' and sacerdōs 'priest' Toch B sākre- 'happy' Hit saklāi- 'rite, custom' | One might then envisage a rite by which something is made sacred and some would derive this form from the verbal root *sek- 'cut', i.e. cut off from the world. | | | Sacred | JPM Celt. |
| *sal(i)k- *sh, elik- | (tree) willow | Olr sail 'willow' Lat salix 'willow' OE sealh 'willow' | | | | Trees | JPM Celt. |
| *samh□d ^h os | sand | NE sand Lat sabulum 'sand' Grk ámathos 'sand' | | | | Earth | JPM |
| *sap- | sap | Lat sapa 'must, new wine boiled thick' OHG saf 'sap' NE sap Skt sabur-dhúk- 'yielding nectar or milk' | Possibly with *b | | | Trees | JPM |
| *sap- or *sep- | ± taste, come to know | OE sefa 'understanding' Osc sipus 'knowing' Arm ham 'taste, juice' [< *sapno- ?]) | Lat sapiō 'taste' provides a basis for sapiēns 'wisdom'. | | | Food & Drink | JPM |
| *sausos *sus | dry | Lat sūdus 'dry, without rain' Alb thaj 'dry up' Av haoš- 'wither away' Skt śuṣ- 'become dry' OE sēar [> NE sere] Lith saūsas OCS suchū Grk aúos | | | | Qualities | JPM |
| *se-sh, -o- *se(n)k- | crop ? cease to flow, dry up | NE singe Lith senkù 'ebb, drain away, dry up [of water]' OCS i-seknŭti 'dry up [of water]' Skt ásakra- 'not drying up' Av āsnaoiti 'approaches' Skt ā-sad- 'enter' Grk o-grade noun hodós 'way', OCS chodŭ 'walk' | | | | Qualities | IIAL JPM |
| *sed- | go | | | | | Come & Go | JPM |

Sheet1

| | | | | | | | |
|--------------------|------------------------|--|---|--|--|-----------------|--------------|
| *sed- | set ?sit | NE set | {1} [LK] See Kümmel 2000: 676f. | Present III>I: sīdati [3sg.act.] (RV+) Perfect: sasāda [3sg.act.] (RV+) Aorist A: āsadat [3sg.act.] (RV+) Aorist S: sātsat [3sg.subj.act.] (RV 10.053.01) SI-impv: sātsi (RV) Aorist mediopass: āsādi 'has sat down' (RV+) Fut: satsy° (Br.+) Caus: sādáy° (RV+) TA-Ptc.: sattā- 'put, settled down' (RV+) na-ptc.: ā-sanna- 'set down' (AV+) | | Placement Verbs | JPM IIAL |
| *sed- | sit (down) | OIr saidid 'sits' Lat sīdō 'sit down', sedeō 'sit, be sitting' NE sit Lith sé'du 'sit down' OCS sēsti 'sit down' Grk hízdō 'sit' Arm nstim 'sit' Av hiaiti 'sits' Skt sīdati 'sits' | this also supplies a causative *sodye/o- 'set'. | | | Placement Verbs | JPM |
| *sedes- | seat | NWels sedd 'seat' Grk hédos 'seat' Av hadiš- 'home' Skt sádas- 'place' Lat. sēdēs | A fairly transparent nominalization of *sed- 'sit' | Gen. *sed-os 'seat' | | Construction | JPM Celt. |
| *sedlom *sedros | seat, chairlike object | Lat sella 'seat, chair', sedīle 'seat' NE settle | | | | Construction | JPM |
| *seg- | fasten | OIr sūainem 'cord' Lith sēgti 'fasten, buckle' OCS sęgnŏti 'take, grab' Skt sājati 'fastens' | | | | Binding | JPM |

Sheet1

| | | | | | | | |
|-------------------------|---------------------------------|--|--|---|---|-------------|---------------|
| *se ġ ^h - | hold fast, conquer overpower | Olr seg 'strong' NHG Sieg 'victory' Grk ekhurós 'firm, strong' Hit sakkuriya- 'overcome' Skt sáhas- 'victory', sáhuri- 'victorious' Greek verb ékhō 'hold' | | Present I: sáhant- [ptc.act.] (RV, AVP), sáhante [3pl.med.] (RV+) Perfect: sāsáha [3sg.act.] (RV- YVm), sāhvāms-, sāsahvāms- [ptc.act.] (RV), sasāhé [3sg.med.] Aorist R (precativ): sahyās [3sg.opt.act.] (RV) Aorist S: sákṣat [3sg.subj.act.] (RV), sákṣvā [2sg.impv.med.] (RV), asākṣi [1sg.med.] (RV) Aorist IS: ásaḥiṣṭa [3sg.med.] (RV) SI-impv: sakṣi (RV 05.033.02) Desid: sīkṣant- [ptc.act.] (RV+) TA-Ptc.: á-sādha- 'invincible' (RV+) Inf: sáhadyai, sakṣāṇi (RV) | '(to beat off enemy's) force and power to establish power (in oneself)': Skt. táviṣīm ... sáhah '(Indra beat Vṛtra's) force, (Vṛtra's) power (with his power)' (RV 01.080.10) sáhas- dhā (RV) — Av. hazas ° ... təuuīš° (Y 29.1) təuuīšīm dasuuā ... hazō (Y 33.12) | Conflict | JPM IIAL |
| *se ġ ^h -es- | power, violence | | | | '(to beat off enemy's) force and power': Skt. táviṣīm ... sáhah '(Indra beat Vṛtra's) force, (Vṛtra's) power (with his power)' (RV 01.080.10) — OAv. hazas ° ... təuuīš° (Y 29.1) 'to establish power (in oneself)': sáhas- dhā- (RV) — OAv. təuuīšīm dasuuā ... hazō (Y 33.12) | | IIAL |
| *seh ^h - | sow | Hit sâ(i)- 'sow, throw' Lat serō NE sow Lith sėju OCS sějo | | | | Agriculture | JPM Beekes |

Sheet1

| | | | | | | | |
|-------------|---------------------|--|--|---|---|-----------|-----|
| *seh ı (i)- | go forward, advance | Grk tīhūō 'press forward' Phryg sideto 'succeeded, achieved' Skt sādhatē 'succeeds' Hit zāi- means 'cross over' | | | | Come & Go | JPM |
| *seh ı (i)- | sift | NWels hidl ON sādī Lith sietas OCS sito Alb shosh | West Central | | | Tools | JPM |
| *seh ı i- | sow | Skt sīra- '(seed-) plough', sītā- 'furrow' Toch B šito '+grainfield' Grk sītos 'grain (both wheat and barley)' | | | | | JPM |
| *seh ı men- | seed | Lat sēmen OHG sāmō OPrus semen OCS sēme | North-Western | | | Plants | JPM |
| *seh ı ros | long | Olr sīr 'long lasting' Lat sērus 'late' OE sīd 'long' | North-West | | | Shape | JPM |
| *seh ı | bind | | {1} Often treated as distinct (perhaps already in Proto-Indo-Iranian) roots (áva/vi) sā (< *seh ı -) 'untie' and si (< *sei-) 'bind' ava-sāna- and ava-sātār- belong to the former, present sināti, perfect sišāya and setār- to the latter. See Insler 1971: 580ff., Kümmel 2000: 548ff. {2} See Kulikov 2000b. {3} Or 3pl.pres.opt.act. of ah 'to be' (see Kümmel 2000: 676). {4} ppp *(uj-)sh ı -tó- (Av. hita-/vi-šta °, Ved. sitā-/vi-ṣita-) -i-; present *sh ı -i-éti (Ved. syāti, Hitt. iš-ḫi-an-zi). *sh ı -i-° gave through metathesis *sih ı -° > *si-ne-h ı -° (Ved. sināti, ToA sināštār). | Present IV/VI {2}: šyāti [3sg.act.] (RV+) Present IX: sināti [3sg.act.] (RV+) ā sišāya [3sg.act.] [2.720.3.1] (RV 10.028.10, JB), sišet [3sg.inj.act.] (RV 08.067.08) Aorist R: sāt [3sg.inj.act.] (RV+), ava-sat [3sg.subj.act.] (AVP 4.15.6), vi ... sitam [2du.impv.act.] (RV 08.005.09), saṃ satām [3pl.impv.med.] (AVP 4.14.5) Caus: sāyāyati (TS+) TA-Ptc.: sitā- 'bound' (RV+), vī-ṣita- 'untied' (RV+) | resting place (unharnessing)': Skt. avasāna- [n] (RV+) — OAv. | IIAL | |

Sheet1

| | | | | | | | |
|-----------------------|----------------------------|---|---------------|--|---|-----------------|------------|
| *seh:(i)- | satisfy, fill up | Grk ámenai 'satisfy oneself' Arm hač 'contented' Hit sâh- 'stuff full, clog up' Skt asinvâ- 'unsatisfied' Toch A si- 'be satisfied' | | | | Desire | JPM |
| *séh:tis | satisfaction | Olr saith 'satisfaction' Lat satis 'enough' Lith sôtis 'satiety' | | | | Desire | JPM |
| *seh:i- | ± be angry at, afflict | Olr saeth 'pain, sickness' Lat saevus 'fierce' NE sore Latv sîvs 'sharp, biting' Grk haimōdiā 'kind of tooth-ache' Hit sâ(i)- 'be angry at, resent' Toch B saiwe 'itch' | | | | Health&Sickness | JPM |
| *seh□-(e)l- | salt | Olr salann Lat sāl NE salt Latv sāls OCS solī Grk hāls Arm al Toch B saliye Lith sólymas 'brine' Alb ngjelmēt 'salty' Skt salilā- 'sea, flood' | | sarirā- [n] 'sea, ocean' (KS+) | | Meals | JPM IAL |
| *seh□g- | perceive acutely, seek out | Olr saigid 'seeks out' Lat sāgiō 'perceive acutely', sāga 'fortune-teller' NE seek Grk hēgéomai 'direct, lead' Hit sākiya- 'make known' | | | | Sight | JPM |
| *séh□ul *seh:u-el- | sun | Lat sōl 'sun' NE 'sun, Lith sáulė 'sun' OCS slŭnice 'sun' Grk hēélios 'sun' Av hvar 'sun' Skt svār □ sūr(y)a- 'sun' | Gen. *shawéns | nom.sg. svār (< *súHr̥ < *sHur < *sh:ul), gen.sg. sūras, dat.sg. sūré | 'sun-like': Skt. svar-dr̥ṣ- (RV) — YAv. huuarə.darəsa- 'sunny, bright, heavenly': Skt. svār- vant- (RV+) — OAv. xvānuuant-, YAv. xvanuuant- 'sun in the rock (= heaven)': svār yād ášman (RV 07.088.02c) — YAv. asmanəm xvanuuantəm 'brilliant as the sun': Skt. svār ná citrām (RV 01.148.01d) — YAv. huuarə-ciθra- [m] PN | Air | JPM IAL |
| *seik- | pour out overflow | Grk ikmázō 'strain' Av hičaiti 'sprinkles' Skt siñcāti 'sprinkles' Toch A sik- 'overflow' NE sye 'sink' Lat siat 'urinales' | | | | Liquid Motions | JPM |

Sheet1

| | | | | | | | |
|----------------------|-----------------------|---|---|--|--|----------------------|-----|
| *seik- | reach for | Lith síekti 'reach for something' Toch B sik- 'set foot', i.e. 'reach out the foot' Grk híkō 'arrive, reach' | | | | Extend | JPM |
| *sek- | cut | MLr eiscid 'cuts off' Lat secō 'cut' Lith į-sė 'kti 'dig' OCS sěkq 'cut' Lat sciō 'know' Hit sakk- 'know' | The semantic change from "cut" to 'know' is not, admittedly, an obvious one, but it is confirmed by the same change in the history of *ker-s-, another enlargement of *ker- (above) which means 'cut' in Hit karsmi, as we would expect, but 'know' in Tocharian (AB kârs-) | | | Reductive Activities | JPM |
| *sekūr- | axe | Lat secūris OCS sěkyra | North-West from *sek- 'cut' | | | Tools | JPM |
| *sek ^w - | follow | Olř sechithir 'follows' Lat sequor 'follow' Lith sekù 'follow, keep an eye on' Grk hēpomai Skt sácate all 'follow(s)' nominal derivative *sók ^w h.ōi 'follower' ON seggr 'follower' Skt sákhā- 'friend' | This verb is probably the same as *sek ^w - 'see' | | | Travel | JPM |
| *sek ^w - | say, recount publicly | Olř insce 'discourse' Lat īn-seque 'say!' NE say Lith sakaū □ sekù 'say' OCS sočiti 'indicate' Grk ennépō 'say' | West Central | | | Formal Speech & Song | JPM |
| *sek ^w - | see | NE see Lith sekù 'follow, keep an eye on' Alb shoh 'see' Hittite sākuwa 'eye' Lydian saw- 'see' | | | | Sight | JPM |
| *sek ^w o- | following | Olř sech 'past, beyond' Lat secus 'after, beside, otherwise' Latv secen 'by, along' Av hačā 'from, out of in accordance with' Skt sácā 'together with', sakām 'with' | Derives from the verbal root *sek ^w - 'follow'. | | | Position | JPM |
| *sel- | jump | Lat salīō Grk hállomai | Italic-Greek isogloss | | | Run & Jump | JPM |

Sheet1

| | | | | | | | |
|----------|---------------------------|--|--|--|--|--------------------|-------------|
| *sel- | move quickly | Skt ucchalati (< *udsal-) 'hurries forward' Toch AB sâl- 'fly' and sâl- 'throw [down]' Arm ylem 'send' OCS süljō 'send' OE sellan 'deliver' > NE sell OCS sülü 'messenger' | {1} Synchronically distinct, but etymologically probably identical with sar [2]. | Present III: sisarši [2sg.act.] (RV), sisrate [3pl.med.] (RV) Present X: sarayante (RV+) Present ANYA: saranyān [3pl.subj.act.] (RV), saranyánt- [ptc.act.] Aorist A: ásarat [3sg.act.] (RV+) Perfect: sasāra [3sg.act.] (RV+), sasre [3sg.med.] (RV) Fut: sarīsyánt- [ptc.act.] (RV) Inf: sártave, sártavái | | Run & Jump | JPM IIAL |
| *sel- | seize, take possession of | Olr selb 'possession' OE sellan 'hand over' [> NE sell] Grk heleîn 'take' | West Central | | | Give & Take | JPM |
| *séles- | marsh | Grk hélos 'marsh, meadow' Skt sáras- 'lake, pond' NWels hêl 'river meadow'); | Graeco-Aryan | | | Water | JPM |
| *sel ġ - | release, send out | Olr selg 'hunt' MHG silken 'drip' Av hərəzaiti 'releases' Skt srjáti 'releases' | | | | Movement | JPM |
| *selk- | pull | Toch B sâlk- 'pull out' Lat sulcāre 'to plough' Grk hélkō 'pull' NE sullow 'plough' | | | | Convey | JPM |
| *selp | be fat | | | | | | IIAL |
| *sélpes- | oil, fat, grease | Grk élpos 'oil, fat, grease', Skt sarpí- 'melted butter' NE salve Alb gjalpë 'butter' Toch B şalype 'unguent, fat' | | | | Meals | JPM |
| *sem- | at one time, once | Lat sem-per 'always', sim-plex 'single' Grk haplouḥs 'singly, in one way' *sem-lo-m Olr samlith 'like, as' Lat simul 'simultaneously, together, at the same time' OE simbel(s) 'always' | | | | Measure & Quantity | JPM |
| *sem- | draw water | Lat sen-tīna 'bilgewater' Grk ámē 'bucket' Olr do-essim 'pours' Lith sémti 'draw water' | West Central | | | Food Prep | JPM |

Sheet1

| | | | | | | | |
|-----------------------|-----------------------------|---|---|--|--|----------------------|------------|
| *sem- | put in order/together | ON semja 'put together' Skt samayati 'puts in order' Toch B šāms- 'count' | | | | Placement Verbs | JPM |
| *sem- | summer | Olr sam 'summer' NE summer Arm am 'year' Av ham- 'summer' Skt sāmā 'season, year' Toch A sme 'summer' | {1} [AL] The color of the laryngeal cannot be determined. | | | Time | JPM IAL |
| *sem-go-(lo)s | single one | Lat singulī 'single, individual' | | | | Measure & Quantity | JPM |
| *sem-s | united as one, one together | Grk heius [m.], mia [f.], hén [nt.] 'one' Arm mi 'one' Toch Bše [m.], sana [f.] 'one' | | | | Numbers | JPM |
| *sēmis | half | Lat sēmi- 'half-' OHG sāmī- 'half-' Grk hēmi- 'half-' Skt sāmī- 'half-' | This has been variously interpreted as a lengthened grade of *sem- 'one' or derived from the verbal root *seh- - 'separate' certainly the latter makes more sense semantically. | | | Measure & Quantity | JPM |
| *sen-i/u- | apart | Olr sain 'especially' Lat sine 'without' Hit sanizzis 'excellent' Av hanarē 'except, without' Skt sanitūr 'apart from' Toch B snai 'without' NE sunder (derived) | | | | Position | JPM |
| *sen(h□)- | seek, accomplish | Olr do-seinn 'pursues, strives' Grk ánūmi 'accomplish, get [somewhere, something]' Hit sanhzi 'seeks, plans, demands' Av han- 'gain, obtain' Skt sanóti 'wins, gets grants' | | | | Being & Doing | JPM |
| *seng ^{wh} - | sing, make an incantation | MWels dehongli 'explain' NE sing, song Grk omphē'divine voice, prophecy' ?Prakrit samghai 'say, honour' | | | | Formal Speech & Song | JPM |

Sheet1

| | | | | | | | |
|-------------------------|--------------------------|---|-------------------------------------|--|--|---------------------|------|
| *senh ₂ | obtain | | | Present V: sanóti [3sg.act.] (RV+) Perfect: sasána [3sg.act.] (RV+) Aorist A: ásanat [3sg.act.] (RV, Br.m) Aorist IS: sanişat [3sg.subj.act.] (RV), sáníşanta [3pl.subj.med.] (RV) Fut: sanişyáti [3sg.act.] (RV, Sú.m) Intensive: sanişnata [3pl.med.] (RV 01.131.5) Desid: sişásati [3sg.act.] (RV, AV) TA-Ptc.: sātá- (RV+) | | | IIAL |
| *senh□d ^h r- | congealed moisture, slag | NE cinder RusCS sjadry 'clotted blood' Olr senmāthair Lith senmoté- | North-West | | | Qualities | JPM |
| *seno-meh□tér | grandmother | Olr sen 'old' Lat senex 'old' Goth sinista 'eldest' Lith sēnas 'old' Grk hēnos 'last year's' Arm hin 'old' Av hana- 'old' Skt sána- 'old' | North-West literaly 'old-mother' | | | Kinship | JPM |
| *sénos | old | NE send Lith suntù 'send' OHG sinnan 'go' Av hant- 'arrive' Olr sēt 'way' OHG sind 'way, side' Arm ənt'ac' 'way, passage' Toch A şont 'street' | | | | Time | JPM |
| *sent- | go | Lat sentiō 'feel', sēnsus 'feeling, meaning' NHG Sinn 'meaning' Lith senté'ti 'think' OCS seštī 'wise' | North-West | | | Come & Go | JPM |
| *sent- | perceive, think | | | | | Knowledge & Thought | JPM |

Sheet1

| | | | | | | | |
|----------------|--------------------------|---|---|---|--|-------------------------|---------------|
| *sentos | way, passage | Olr sēt 'road' OE sīp 'way' Arm ərnt'ac' 'way, passage' Toch A šont 'street' | From from *sent- 'go' | ? | | Roads | JPM |
| *sep- | handle (skilfully), hold | Grk hēpō 'serve, prepare' Av hap- 'hold' Skt sāpati 'touches, handles, caresses venerates' Lat sepeliō 'bury', i.e. 'prepare a body' Skt saparyāti 'honours, upholds' Grk methēpō □ ephēpō 'manage [horses]' Skt sāpti- 'team of horses' | | | | Being & Doing | JPM |
| *sepit | wheat | | | | | Plants | JPM |
| *septm | 7 seven | Olr secht Lat septem NE seven Lith septyni OCS sedmī Alb shtatē Grk heptá Arm ewt'n Av hapta Skt saptá Toch A špāt | How it arrived in Proto-Indo-European has been a subject of long discussion. Generally, the fact that many other language families in the surrounding region possess a similar word for 'seven' has argued for borrowing. Generally, the source is taken to be from pre-Akkadian *sabá-tum (the form used to modify masculine deWnite nouns) 'seven'. However, as was the case with 'six', the pre-Akkadian form would be too late to serve as a model for the Proto-Indo-European word and the Proto-Semitic *šab(at) looks considerably less helpful. | | | Numbers | JPM Beekes |
| *septm-dkómth: | 70 seventy | | | | | | Beekes |
| *septm-mós | 7th seventh | Olr sechtmad Lat septimus NE seventh Lith sēkmas □ [analogical] septiñtas OCS sedmŭ Alb shtatē Grk hébdomos Av haptaθa- Skt saptamá- ~[analogical] saptátha- Toch A šāptānt | | | | Numbers | JPM Beekes |
| *ser- | flow | Mlr sirid 'wanders through' Lat serum 'whey' Alb gjizē 'whey, (cottage) cheese' Grk orós 'whey' Toch B šarwiye 'cheese' | which underlies *sreu- | | | Liquid Motions Meals | JPM |
| *ser- | line up | Olr sermaid 'arranges' Lat serō 'line up, join, link' Lith sēris 'thread' Grk eírō 'line up' Hit sarra- 'break' Skt sarat- 'thread' | Likely derives from the vocabulary of textile manufacture | | | Placement Verbs | JPM |

Sheet1

| | | | | | | | |
|---------------|-------------------------|--|--|--|--|---------------------|-------------|
| *ser- | protect | Lat servō 'guard' Lydian sarēta 'protector' Av haraiti 'defends' | | | | Conflict | JPM |
| *seren(y)uh□s | some female deity?? | | There are fewer semantic reasons to link the Greek fury Erinūs with the Indic goddess Saranyū, wife of the Sun, although the phonological correspondence of both their names does seem sound enough. | ? | | Dieties | JPM |
| *serk- | construct/repair a wall | Lat sarcio 'mend, repair' Grk hērkos 'fence, enclosure' Hit sark- 'make restitution' | | | | Construction | JPM |
| *serk- | make a circle, | Lat sarcio 'make restitution make whole [i.e. repair] Hit sarnikzi 'makes restitution' Toch B serke 'circle' | | | | Shape | JPM |
| *serk- | make restitution | | | | | Law & Order | JPM |
| *serK- | pass, surpass | Hit sarku- 'projecting, immense, powerful' Toch B šärk- 'pass, surpass, go beyond' | Hittite-Tocharian isogloss | | | Come & Go | JPM |
| *serp- | crawl | Lat serpo Grk hérpō Skt sárpati 'snake' Lat serpens Alb gjarpër Skt sarpá- | | Present I: sárpati [3sg.act.] (RV+) Perfect: sasarpa [3sg.act.] (SB+) Aorist A: asrpat [3sg.act.] (AV+) Fut: sarpsyati, srapsyati [3sg.act.] (Br.) TA-Ptc.: srpta-, also [n] 'crawling track' (KS+) Abs: (nih-)srpya (AV) | | Crawl, Slide, Fall | JPM IIAL |
| *ses- | rest, sleep, keep quiet | Hit sess- 'sleep', sessnu- 'put to bed' Av hah- 'sleep' Skt sásti 'sleeps' | | Present II: sásti [3sg.act.] (RV+) | | Knowledge & Thought | JPM IIAL |
| *ses(y)ó- | grain, fruit | NWels haidd 'barley' Ligurian asia 'rye' Hit sesa(na)- 'fruit' Av hahya- 'providing grain' Skt sasyām 'grain, fruit' | | | | Plants | JPM |
| *seu- | boil (something) | NE seethe Av hāvayēiti 'stew' Rus šutítī 'joke around with' | | | | Food Prep | JPM |

Sheet1

| | | | | | |
|-------|-----------|--|---|---|------|
| *seu- | press out | | {1} [AL] Hitt. šunna-/šunn- [verb] 'to fill' rather belongs to savi[1]. | <p>Present V: sunōti [3sg.act.] (RV+)</p> <p>sunvāná- [ptc.med.] (RV+)</p> <p>stative middle sunvé [3sg.] and sunviré [3pl.] with a passive meaning (RV)</p> <p>Present III: suṣvati [3pl.] (RV)</p> <p>Aorist R: sotá [2pl.impv.act.] (RV)</p> <p>Aorist S: asoṣta [3sg.med.] (ChU)</p> <p>Aorist mediopass: áśāvi [3sg.] (RV), suvāná- /svāná- / [ptc.med.] (RV-TSm)</p> <p>Perfect: suṣáva [3sg.act.] (RV+), suṣumá [1pl.act.] (RV+), suṣvāná- [ptc.med.] (RV)</p> <p>Fut: saviṣyāmi [1sg.act.] (MS), soṣyati [3sg.act.] (ChU+)</p> <p>Passive: sūyáte [3sg.] (RV+)</p> <p>TA-Ptc.: sutá- (RV+)</p> <p>Abs: abhi-ṣútya (TS+), sutvā (Sū.+)</p> | IIAL |
|-------|-----------|--|---|---|------|

Sheet1

| | | | | | | | |
|--|------------------------|--|--|--|--|-----------------|---------------|
| *seu(h□)- | bear a child | Av hu- 'bear a child' Skt sūte 'bears, begets' NE son Grk huyús 'son' Skt sūnús 'son' Toch B soy 'son' | {1} [AL] On the basis of this adjective, a denominative verb sušvay* has been formed: sušváyantī- [ptc.act.f.] (RV 10.110.06) and sušváyanta [3pl.inj.med.] (RV 07.036.06). The enigmatic forms with a short root-vowel sú-šuti- [f] 'easy birth' (RV 10.039.07) and possibly su-šu-mánt- [adj] 'with a good birth (?)' (RV 10.039.07) may be attributed to the influence of this denominative verb, since the laryngeal was regularly dropped there (*-uHá- > -va-, cf. Lubotsky 1997b). {2} [AL] For the reconstruction see Kloekhorst 2008: 785f. Possibly borrowed into Finnish suku- 'race, family, birth, brood'. | Present II: sūte [3sg.med.] (RV), sūtē [3sg.med.] (TB) Perfect: sasúva [3sg.act.] (RV, AV) Aorist R: asūt [3sg.act.] (MSm) Fut: sūšyant- [ptc.fut.act.] (RV 05.078.05) Inf: sūtave (RV, AV) TA-Ptc.: sú-šūta- 'easily born' (RV 02.010.03), sūta- [m] 'child, son' (AVP 5.37.4) | | Vital Functions | JPM IIAL |
| *seug- | be sick | NE sick Arm hiwcanim 'sicken' | | | | Health&Sickness | JPM |
| *seug/k- | suck | Lat sūgō NEsuck Latv sūzu 'suck' OCS sūsō 'suck' | North-Western | | | Food & Drink | JPM |
| *seuh ₁ *seuh ₃ - | child set in motion | Olr soīd 'twists, turns' Hit suwāi- 'push, urge' Av hunā iti 'seeks to create drives forward' Toch B šewi 'pretext, excuse' Hit sunna- 'fill' Palaic sūnat 'poured out' | | | | Movement | Beekes JPM |
| *seup- | pure | Umb supa 'viscera of a sacrificed animal' Hit suppa- 'viscera of a sacrificed animal' Hit supp-i- 'pure' | | | | Sacred | JPM |
| *seuyós | left | OCS šujī Av haoya- Skt savyá- | | | | Direction | JPM |
| *séwe | Reflexive pronoun | Lat sē 'him-/her-/itself' OHG sih 'him-/her-/itself' Lith savē'-self ' OCS? se, '-self ' Alb u 'him-/her-/itself ' Grk hé □ heé 'him-/her-/itself ' Skt svá- 'one's own' Toch B šaň 'one's own' | | | | Pronouns | JPM |

Sheet1

| | | | | | | | |
|-------------------|--------------------------|--|--|---|--|------------------------------|--------|
| *sh:ó-men- | song | Grk húmnos 'song, festival song (of praise in honour of gods and heroes)' Hit ishamai- 'song, melody' Skt sáman- 'song, chant' | {1} Possibly, a derivative of the root *seh₂- 'to bind' and can then be related to Gr. oíµn [f] 'song, hymn', if from *sh₂-oi°. | | | Formal Speech & Song Poetics | JPM |
| *sh:ul-gʷm | going to the sun (light) | | | /suvargá-/ | | | IIAL |
| *sh:wens-kʷekʷios | wheel of the sun | | n | | | | Beekes |
| *sh□tós | satisfied | OHG sat 'satisfied' Grk áatos 'insatiable' OE sæd 'satisfied' | | | | Desire | JPM |
| *silVbVr- | silver | Ibero-Celtic sílaPur NE silver Lith sidābras Rus serebró | Its doubtful vowels and various outcomes of the consonants suggest that it has been borrowed from some non-Indo-European source. | | | Metals | JPM |
| *sin ġʰós | leopard | Arm inj □ inc Skt simhá- 'lion' | | | | Fauna | JPM |
| *siskus | dry | NWels hysb Lat siccus Av hišku- Olr sesc 'sterile' (of livestock). | | | | Qualities | JPM |
| *skabʰ- | hold up | Lat scamnum 'stool, bench' Av upa-skambəm 'support, prop' Skt skabhnāti 'supports, fixes' | | | | Give & Take | JPM |
| *skaiwós | left | Lat scaevus Grk skaiós | | | | Direction | JPM |
| *skand- | jump | Olr sceinnid 'leaps' Lat scandō 'climb' Skt skándati 'jumps' | | | | Run & Jump | JPM |
| *skauros | ± lame | Lat scaurus 'clubfooted' Skt khora- 'lame' | | | | Health&Sickness | JPM |
| *skebʰ- | scratch, shave | Lat scabō 'shave, scratch' NEshave Lith skabūs 'sharp' OCS skoblī 'scraping knife' | North-West | | | Reductive Activities | JPM |
| *skeh.i(-d)- | cut | Lat scindō 'cut' Lith skíedžiu 'separate' OCS čéditi 'filter, strain' Grk skhízō 'split, tear' OE be-scītan > NE shit Skt chyāti 'cuts' | | | | Reductive Activities | JPM |
| *skeh₂- | make an incision | | {1} vichāyāti (AVP+) [3sg.act.] 'to drive (by blows)' is a denom. of vyachā-, not a causative of chā (Hoffmann 1976: 455ff.). {2} [AL] Hardly related to OAv. sāzdūm [2pl.impv.med] 'tear up!' (Y 31.18) siiō(z)dūm [2pl.impv.med.] 'banish [the fury]!' (Y 48.7) See Lubotsky 2004a, contra Humbach, Kellens/Pirart. For the phonetic development of *sk- see Lubotsky 2001a. {3} See Kulikov 2000b. | Present IV/VI: ʰchyāti [3sg.act.] (AV+) {1} TA-Ptc.: áva-cchita- 'pulled off (skin)' (ŠB) | | | IIAL |

Sheet1

| | | | | | | | |
|---------|---------------|--|--|---|--|------------|------|
| *skeid- | split | | {1} [LK] With the secondary suffix accentuation (see Kulikov 1998). {2} Gr. -χ- is unclear. | Present VII: chindhi [2sg.impv.act.] (RV 01.133.02), chinátti [3sg.act.] (AV+) Present IV/Passive: áčhidyamāna- [neg.ptc.med.] (RV 02.032.04) 'unbreakable', chidyate [3sg.med.] (AV+), chidyamāna- [ptc.med.] (TS+), chidyáte {1} [3sg.med.] (MS, ŚB) Aorist R: chedma [1pl.inj.act.] (RV 01.109.03) Aorist A: achidan [3pl.inj.act.] (AV+) Aorist S: chitthās [2sg.inj.med.] (AV 8.1.4), chitsi [1sg.inj.med.] (YVp) Aorist IS: acchaitstī [3sg.act.] (Br.) Aorist mediopass: áchedi [3sg.] (RV 01.116.15), chedi [3sg.inj.] (RV+) | | | IIAL |
| *skéits | shield, board | Olr sciath 'shield' OE scīd 'thin piece of wood, shingle' OCS štītŭ 'shield' Lat scūtum 'large leather-covered shield' | North-West | | | Weapons | JPM |
| *skek- | ± jump | Lith skataũ 'jump' OCS skočiti 'jump' ON skagi 'point of land sticking out' Skt khacati 'projects (of teeth)' Toch AB skāk- 'balcony' | | | | Run & Jump | JPM |

Sheet1

| | | | | | | | |
|---------|-------------|---|--|--|--|------------|------|
| *skend- | shine | | {1} [AL] For the reconstruction and the relationship between the roots cand, chand and šad [2] see Lubotsky 2001a. | Present X: chadáyati [3sg.act.] (RV, Br.) Aorist S: achān [3sg.act.] (RV) āchāntsur [3pl.act.] (RV) chantsat [3sg.subj.act.] (RV) SI-impv: chantsi (RV) Aorist RED: acachadat [2sg.act.] (AVP 5.27.1) Perfect: cachanda [3sg.pf.act.] (RV 07.063.03), cachadyāt [3sg.pf.opt.act.] (RV 10.073.09) Caus: chandayate [3sg.med.] 'to take pleasure in' (RV 10.027.08, 08.050.05), chandayati [3sg.act.] 'to seem, to please' (ŠĀ+) | | | IIAL |
| *sker- | ± hop about | Grk skairō 'jump, hop, dance' OHG scerōn 'be mischievous' OE scere-gescēre 'locust' Lith skērýs 'locust' | West Central | | | Run & Jump | JPM |
| *sker- | ± threaten | Toch B skār- 'speak hostilely, threaten reproach' MLG scheren 'ridicule' | | | | Values | JPM |

Sheet1

| | | | | | | |
|-----------------------|-------------------------------|--|---|---|---|--------------|
| *skerd ^h - | be divided in equal parts (?) | | {1} [AL] For the reconstruction and semantic development see Lubotsky 2001a: 50f. | Present I: sárdha [2sg.impv.act.] (RV), sárdhant- [ptc.pres.act.] 'boasting (enemy)' (RV) Caus: atipraśardháyati [3sg.act.] (RV) 'to make audacious' | the troop of R̥ta': Skt. sárdhām̃ r̥tásya (RV 08.007.21) — YAv. s | IIAL |
| *sket ^h - | injure, harm | Olr scīth 'tired' OE skaðian 'injure' [NE scathe is related but a Norse loanword] Grk askēthēs 'uninjured' | West Central | | Conflict | JPM |
| *skeu- *kseu- | sneeze | Lith skiaudžiu Skt kṣáuti | Form have been regarded as onomatopoeic and hence possibly independent creations | ? | Health&Sickness | JPM |
| *skeu(h□)-ih, - | skin | | {1} [AL] For the reconstruction see Lubotsky 2001a: 33. | | | IIAL |
| *skeub ^h - | push away, push ahead | NE shove Lith skùbti 'hurry' OCS skubq 'pluck, tear off' | | | Convey | JPM |
| *skh : ey-wo | left | | | | | Celt. |
| *skid-ró- | split | | | | | IIAL |
| *skidrós | thin | OHG sceter 'thin' Latv šk'idrs 'thin' dialectal Grk skidarós 'thin, slender' | West Central | | Shape | JPM |
| *skolmeh□- | sword | ON skōlm Thrac skálmē | West Central | | Weapons | JPM |
| *skótos | shadow, shade | Olr scāth 'shadow, reflection ghost, spectre' NE shadow Grk skótos 'darkness, gloom shadow' | West Central | | Light & Dark | JPM Celt. |
| *skóyh□ | shade | Latv seja 'shadow ghost' Rus sen 'shade, shadow' Alb hie 'shade, shadow ghost, spectre' Grk skiá'shade, shadow reflection, image ghost, spectre' Av asaya- 'who throws no shadow' Skt chāyā- 'shade, shadow' Toch B skiyo 'shadow' | | | Light & Dark | JPM |
| *sk ^w ēis | ± needle and/or thorn | Olr scē 'hawthorn' Lith skujā 'fir-needle and cone' Rus khvojá 'needles and branches of a conifer' | | | Trees | JPM |

Sheet1

| | | | | | | | |
|-------------------------|----------------------------|---|----------------------------------|------------------------------|--|---------------------|--------|
| *slag- | slack | Olr iac 'slack, weak' Lat laxus 'slack, loose' NE slack Latv legans 'slack, soft' Grk lagarós 'slack' | | | | Qualities | JPM |
| *slak- | strike | Mlr slacc 'sword' NE slay | North-West from *kap- 'seize' | | | Conflict | JPM |
| *sleimak- | snail, slug | Rus slímák Grk leímaks 'slug' | from *(s)lei- 'slimy' | | | Bug | JPM |
| *slenk- | turn, twist (like a snake) | NWels llyngyr 'worms' NE sling Lith slenkù 'crawl [like a snake]' | North-West | | | Motion | JPM |
| *sleub ^h - | slide | Lat lūbricus 'slippery' NE sleeve | Italic-Germanic | | | Crawl, Slide, Fall | JPM |
| *slih□u- | plum-coloured | Olr lí 'colour' Lat lívor 'bluish colour' NE sloe Rus slíva 'plum' | North-West | | | Color | JPM |
| *slóugos | servant | Olr slóg 'army, host crowd, company' Lith slaugà 'service' Rus slug 'servant' | North-West | | | Social Organization | JPM |
| *sm-log ^h os | bed-fellow | SerbCS sulogù 'wife' Grk álokhos 'bed-fellow, spouse' | | | | Marriage | JPM |
| *sme(h ₂) | truly | | | | | | Beekes |
| *smeg- | taste (good) | OE smæc 'taste' Lith smaguriáuti 'delight in, nibble on, have a sweet tooth' | North-Western | | | Food & Drink | JPM |
| *smei- | smile, laugh | ME and NE smile Grk meidiáō Indic smáyate Norw smila 'laugh' Latv smeju 'laugh' OCS smějō 'laugh' Toch B smi- 'laugh' | | | | Human Sounds | JPM |
| *smeid- | smear | Goth ge-smeitan 'smear' ??Arm mic 'dirt' | Germanic-Armenian Isogloss | ? | | Binding | JPM |
| *smeit- | throw | Lat mittō 'let go, send' Av maēō- 'throw' | | | | Throw | JPM |
| *smek- | chin, jaw | | | | | Head | JPM |
| *sméru- | oil, grease | NE smear Toch B šmare 'oily, greasy' Olr miur 'marrow' | | | | Meals | JPM |
| *smh□-o- | any | | | accentless same [nom.pl.] | | | IIAL |

Sheet1

| | | | | | | | |
|----------------------------|--------------------------|---|---|--|--|--------------------|---------------|
| *smókw̃r, | chin, beard | Alb mjekër 'beard, chin' Arm mawruk' 'beard' Hit z(a)munkur 'beard' Skt śmášru 'beard, [especially] moustache' Lith smakrà 'chin' Alb mjekër 'beard, chin' OE smoēras [pl.] 'lips' | | | | Hair | JPM |
| *smōs | some, any | NE some Grk hamós 'anyone' Arm amen(ain) 'all, each' Av hama- 'anyone' Skt samā- 'anyone' | | | | Measure & Quantity | JPM |
| *sneh . u- | twist fibres into thread | Lat nervus 'sinew, tendon' Grk neuřon 'sinew, tendon' | | | | Textiles | JPM |
| *snéh . wr̃, | sinew, tendon | Lat nervus 'sinew, tendon, nerve, muscle' [> NE nerve] Grk neuřon 'sinew, tendon, gut' Arm neard 'tendon' Av nāvarə 'tendon' Skt snāvan- 'tendon' Toch B sñor 'tendon, sinew' | From the verbal root *snéh . (u)- 'turn, twist' | | | Organs | JPM |
| *sneh□- | swim | Olr snāřd Lat nō Grk někhō Skt snā ti Toch B nāsk- Av snayeti 'washes' | | | | Swim | JPM |
| *sneig ^{wh} -(os) | snow | Olr snigid 'snows, rains' Lat nivit □ ninguit 'snows' OE snīwan 'to snow' Grk neíphei 'snows' Av snaēžaiti 'snows' | | | | Water | JPM Beekes |
| *sner- | ± rattle, growl | NE snore, snarl Lith niũmiu 'growl, grumble' dialectal Grk énuren '+cried out' | West Central | | | Human Sounds | JPM |
| *sneub ^h - | marry | Lat nūbere OCS snubiti 'to pander' Grk númphē 'bride' | Seen from the wife's point of view | | | Marriage | JPM |
| *sneud ^h - | mist, cloud | NWels nudd 'mist' Lat nūbēs 'cloud, mist' Av snaođa- cloud' | | | | Air | JPM |
| *snh□-u | without, aside | | | | | | IIAL |
| *snusós | sons wife, brothers wife | Lat snurus 'son's/grandson's wife' OE snoru 'son's wife' Rus snokhá 'son's wife bride' Grk nuós 'son's wife bride' Arm nu 'son's wife' Skt snuśā- 'son's wife' | {1} The stem in *-eh.- is everywhere secondary. | | | Kinship | JPM IIAL |

Sheet1

| | | | | | | | |
|---------------------------------------|---------------------|---|---|--|--|---------------------|------|
| *so *seh□ *tód | that (one) | <p>Olř -so/-d 'this one'</p> <p>Lat is-te / is-ta / is-tud 'this (one)'</p> <p>OE sē / sēo / þæt (> NE that) 'the'</p> <p>OHG der / die / daz 'the'</p> <p>Goth sa / sō / þata 'that (one)'</p> <p>Lith tās / tā 'that [one]'</p> <p>OCS tū / ta/to 'that [one]'</p> <p>Alb ai / ajo 'he/she', Grk ho / hē / tó 'the'</p> <p>Arm ay-d 'that'</p> <p>Hit ta 'and, then'</p> <p>Skt sá / sá / tát 'that [one]'</p> <p>Toch B se/sá/te 'such (a one)'</p> | This pronoun supplies the definite article in Germanic and Greek | | | Pronouns | JPM |
| *so ġ ^h -ur | victorious | | | | | | IIAL |
| *sóh.r | throw ?? | <p>Lith sóra 'millet'</p> <p>Toch AB sáry- 'to plant'</p> | | | | | JPM |
| *soito/eha- | sorcery | <p>NWels hud 'magic'</p> <p>ON seið 'magic'</p> | Celtic-Germanic isogloss | | | Sacred | JPM |
| *sókr, | (human) excrement | <p>OE scearn 'dung, manure'</p> <p>Latv sārnī 'slag'</p> <p>Rus serú 'defecate'</p> <p>Grk skōr '[human] waste, excrement'</p> <p>Av sairya- 'dung'</p> <p>Hit sakkar 'excrement'</p> | | | | Vital Functions | JPM |
| *sokto- | sickness | <p>Olř socht 'silence, stupor'</p> <p>Hit saktāizzi 'takes care of, performs sick maintenance';</p> | Rare Celtic-Hittite isogloss the word perhaps derives from the root *sek- 'dry', i.e. sickness as a form of dryness | | | Health&Sickness | JPM |
| *sók ^w -h ₂ -ōi | follower, companion | <p>Lat socius 'partner, companion'</p> <p>OE secg 'follower'</p> <p>Grk aosséō 'help'</p> <p>Av haxā- 'friend, companion'</p> <p>Skt sákhā- 'friend, companion'</p> | | | | Social Organization | JPM |
| *sók ^w ós | sap, resin | <p>Lith saka[pl.] 'resin'</p> <p>Rus sok 'juice, sap, sapwood'</p> <p>Alb gjak 'blood'</p> <p>Grk opós 'sap, resin'</p> <p>Toch B sekwe 'pus'</p> | | | | Trees | JPM |
| *sók ^w t | (upper) leg | <p>Hit sakutt(a)- 'upper leg'</p> <p>Rus stegnó [< *segdno < *sektno] 'hip, groin, thigh'</p> <p>Av haxti- 'hip'</p> <p>Skt sákthi 'thigh'</p> | | | | Body (Lower) | JPM |

Sheet1

| | | | | | | | |
|--------------------------|----------------------|--|--|--|-------------------------------|--------------------|---------------|
| *sok*th□-i- | thigh | | {1} [AL] The Hittite form, for which see Kloekhorst 2008: 703, offers the closest parallel, although its meaning is not absolutely certain. | heteroclitic with sakthān-: instr.sg. sakthnā (VS 23.29), nom.acc.pl. sakthāni (RV 05.061.03) nom.acc.du. sakthyā, -āu (RV+) | | | IIAL |
| *sól(h□)wos *solh₂-u- | whole | Lat salvus 'whole, well' Alb gjallë 'living, agile, deft' Grk hólos 'whole' Av haurva- 'entire' Skt sárva- 'all, whole' Toch A salu 'complete' | {1} [AL] According to Plath 2000, this is an original locative of the u-stem *salu-. {2} [AL] The laryngeal is *h₂: if Hitt. šalli- 'great', CLuv. šalḫitti- 'greatness' belong here (cf. Melchert 1994: 51, 55, 89). XXX | | *sol(h□)uo-teh₂t- 'wholeness' | Health&Sickness | JPM IIAL |
| *solh□- | dirt dirty | OE salu 'dark, dusky' sol 'dark, dirty' Lat salebra 'dirt' Toch B sal 'dirty' | | | | Earth | JPM |
| *solo/eh□- *selo- | dwelling, settlement | OE sæl 'room, hall, castle' Lith salà 'village' Rus seló 'village' | North-West | | | Dwelling | JPM |
| *som- | (together) with | OHG samn 'together' Lith sam- 'with' OCS sq- 'with' Av ha(m)- 'together' Skt sam- 'with' | An o-grade derivative of *sem- 'one' | | | Position | JPM Beekes |
| *somo- ḡ ṇh₁-yo-s | same (kinship) line | Goth samkunja 'of the same lineage' cf. NE kin Grk homógnios 'of the same lineage' | may be independently formed in the two groups. | | | Family | JPM |
| *somo-ph□tōr | of the same father | ON samfeðra Grk homopátōr OPers hamapitar- Toch A šomapācār | | | | Kinship | JPM |
| *somos ?*somh□-o- | same | Olr -som 'self that one' NE same OCS samŭ 'himself' Grk homós 'similar, same' Arm omn 'some, certain, any' Av hama- 'same' Skt samá- 'equal, like, same' Toch AB sam 'like, even' | | | | Measure & Quantity | JPM IIAL |

Sheet1

| | | | | | | | |
|---------------------------|---|--|--|---|--|---------------------|--------------|
| *soru | booty | Hit sāru 'booty [particularly captured men, cattle, and sheep]' ?Mlr serb 'theft' ?NWels herw 'raid [whose principal goal was usually cattle] outlawry' ??Lat servus 'slave' | | | | Exchange & Property | JPM Celt. |
| *sou-mo- | pressed juice | | | | | | IIAL |
| *speh, - | be satisfied, be filled, thrive ?swell | OE spōwan 'thrive, succeed' Lith spė'ju 'have free time' OCS spěti 'be successful, prosper' Toch B spāw- 'spread out' Lat spē 'hope' Skt sphāyate 'grows fat' | {1} With present *speh, -i-. Skt. sph° may have arisen in contact with the laryngeal (*sph, -i-), but this is uncertain. | Present IV: sphāyātai [3sg.subj.med.] (AVP 8.11.11), sphīyate [3sg.med.] (SāmavidhB 3.3.1) TA-Ptc.: sām- sphīta- 'complete, not lacking anything' (MS+) | | Desire | JPM IIAL |
| *speh, (i)- | be sated, prosper | Lat spēs 'hope' OE spōwan 'thrive, succeed' Lith spė'ju 'have free time' OCS spěti 'be successful, prosper' Hit ispā(i)- 'get full, be filled, be satiated' Skt sphāyate 'grows fat' Toch B spāw- 'spread out' | | | | Exchange & Property | JPM |
| *spelo/eh□- *sko/eyto- | shield | MPers ispar 'shield' Skt phālakam 'shield, board' ON fīol 'board' Luvian palahsa- 'blanket' or 'coat' | It is commonly derived from *(s)p(h)el- 'strip, tear off', suggestive of a wooden or leather shield | | | Weapons | JPM Celt. |
| *spend- | make an offering pour a libation | Lat spondeō Grk spéndō Hit sippand- □ ispan- | | | | Meals | JPM |
| *speno- | (womans) breast, nipple | Olr sine 'teat' OE spanu 'breast' Lith spenys 'teat' | A metathesized and simplified Western version of Proto-Indo-European *psténos | | | Body (Upper) | JPM |
| *sper- | ?sparrow | NE sparrow Corn frau Grk sparásion 'starling' Toch A spār | | | | Bird | JPM |
| *sper- | strew, sow | Grk speirō Hit ispā ri OHG sprā t 'scattering' Alb farē 'seed' Grk spérma 'seed' Olr sreb 'stream' | | | | Throw | JPM |

Sheet1

| | | | | | | | |
|-------------------------|--------------------|--|---|---|--|------------|-------------|
| *sper- | wrap around | Lith spartas 'band, ribbon' Grk speira 'coils' Arm p'arem 'enclose, surround' | West Central | | | Motion | JPM |
| *sperdh | pass by, walk away | | | Present I: spárdhante [3pl.med.] (RV+) Perfect: pasprdhāte [3du.med.] (RV) ápasprdhethām [2du.ppf.med.] (RV), pasprdhāná- [ptc.med.] (RV) Aorist R: asprdhran [3pl.med.] (RV), sprdhāná- [ptc.med.] (RV) Abs: mithasprdhya (RV 01.166.09) Inf: spárdhitum (AV+) [[XXX AiGr I: 25,27:: spūrdhān [3pl.aor.inj.] (RV 06.067.09) is a nonce formation (Joachim 173, fn. 598-600) Inf: spūrdhāse (RV 05.064.04)]] | | | IIAL |
| *sper ḡ ^h - | move energetically | NE spring Grk spérkhō 'drive, press' Skt sprháyati 'desires' Av ā-spəreza- 'excited' Toch AB spār- 'disappear, perish' | | | | Run & Jump | JPM |
| *sperh ₁ - | kick, spurn | Lat spernō 'separate spurn' NE spurn Latv sper't 'kick' Grk spairō 'palpitate, give a start' Skt sphurāti 'springs, spurns' Hit ispar- 'tread down, destroy' | {1} [AL] For the etymology see Lubotsky 2006. | Present VI: sphurāti [3sg.act.] (RV) Aorist S: spharīh [2sg.inj.act.] (RV) | | Convey | JPM IIAL |
| *sperh ₂ -g- | strew, sprinkle | Lat spargō 'strew' NE spark and sprinkle | North-West | | | Throw | JPM |

Sheet1

| | | | | | | | |
|--|-----------------------------|---|--|--|--|----------------------|-------------|
| *speud- | hurry | Lith spáuști 'press' Grk speúdō 'hurry' o-grade derivative *spoudeh□- Lith spaudà 'press' Grk spoudē 'haste' Arm p'oyt' 'zeal' NP poy 'haste' OHG spioz 'spear' Alb punē 'work' | | | | Run & Jump | JPM |
| *sph. -ró- | fat | | | | | | IIAL |
| *sph. rós | ± fat, rich | Lat prosper 'lucky' NE spare OCS sporŭ 'rich' Skt sphirá- 'fat' | | | | Measure & Quantity | JPM |
| *sph□en- | flat-shaped piece of wood | Lat sponda 'frame of a bed, bedstead' NE spoon NE spade (derived) | | | | Construction | JPM |
| *splei ġ ^h - | step, go | Grk plíssomai 'stride out' Skt pléhate 'goes' Grk plikhás 'space between the thighs' Olr slīasait 'thigh' | | | | Come & Go | JPM |
| *sploi ġ ^h - ěn ?*spl ġ ^h en- | spleen | Olr selg Lat liēn OCS slēzena Grk splēn [> via Latin in NE spleen] Arm p'aycaln Av spərezan- Skt plīhán- | It has undergone an unusual amount of irregular phonological development. {1} With tabooistic sound-replacements in the daughter-languages (Skt. plīhán- after snīhán- 'snot'?). {2} [AL] Misprinted in EWAia as felc'h. | | | Organs | JPM IIAL |
| *spoh□ino/eh□ | foam | Lat spūma 'foam' NE foam Lith spáine | may originally derive from the verb 'to spit' | | | Water | JPM |
| *spoli□om | something torn or split off | Lat spoliūm 'hide stripped from an animal booty, spoils' dialectal Grk spó lia [pl.] 'wool plucked from the legs of sheep' Lith spā liai [pl.] 'refuse of hemp and flax' | | | | Reductive Activities | JPM |
| *sprh□-ó- | heel | OE spor 'footprint' [> NE spoor], spure 'heel', spur 'spur' Grk sphurón 'ankle[bone]' Toch B sprāne [dual] 'flanks' | | | | Body (Lower) | JPM |
| *sre/oh□gs | ± berry, fruit | Lat frāga 'strawberries' Grk hrōks □ hrāks 'berry, grape' | | | | Trees | JPM |

Sheet1

| | | | | | | | |
|----------------------|-------------------------------|--|---|--|--|-----------------|------|
| *sreb ^h - | gulp, ingest noisily | Lat sorbeð 'sup, swallow, absorb' Alb gjerb 'sip, tipple' Grk hrophéð 'gulp down' Arm arbi 'drink' Hit s(a)rap- 'gulp' MHG sürpfeln Latv strebju 'slurp, spoon' OCS srūbatī 'drink noisily' | suggests onomatopoeia | | | Food & Drink | JPM |
| *srenk- | snore | Olr sreinnid 'snores' Grk hrégkō 'snore' | West Central | | | Human Sounds | JPM |
| *srēno/eh□- | ± hip, thigh | Lith stréna 'loin' Av rāna- 'thigh' | | | | Body (Lower) | JPM |
| *sret- | boil, be agitated, move noise | Mr srithit 'spurt of milk or blood' OHG stredan 'effervesce, whirl, boil' Grk hróthos 'rushing noise, roar of waves, clash of oars' Toch B šārtt- 'incite, instigate' | | | | Food Prep | JPM |
| *sreu- | flow | Lith sraviū 'ooze' Grk rhéō 'flow' Arm aʔoganem 'moisten', srāvati 'flows' NE stream | | | | Liquid Motions | JPM |
| *sreumen | flowing, streaming | NE stream Rus strúmenī 'brook' Grk rheúma 'flow, river' | in river names *sreu-men? | | | Water | JPM |
| *srih□ges- | cold, frost | Lat frīgus 'cold, frost' Grk rhīgos 'frost, cold'); | West Central | | | Qualities | JPM |
| *sromós | lame | Rus khromój 'lame' Skt srāmā- | Possibly a loanword in Slavic from [unattested] Iranian | | | Health&Sickness | JPM |
| *srpo/eh□- | sickle | Hit sarpa- 'agricultural tool [used in ritual along with a plough]' Latv sirpis 'sickle' Rus serp 'sickle' Grk hárpē 'sickle' Oss æxsyrf 'sickle' Lat sarpō 'cut away, prune' | | | | Tools | JPM |
| *st(h,)eug- | stiff | Lith stúkti 'stand tall' Rus stúgnuti 'freeze' Toch B staukk- 'swell, bloat' | | | | Qualities | JPM |
| *stag- | seep, drip | Lat stāgnum 'standing water' Grk stázō 'drip' | | | | Liquid Motions | JPM |
| *steh, -wer- | standing firm | | | | | | IIAL |
| *stéh, mōn | what stands, stature | Lat stāmen 'warp' NE stem Lith stomuō 'stature' Grk stēmōn 'warp' Skt sthāman- 'position' Toch B stām 'tree' | | | | Space | JPM |

Sheet1

| | | | | | | | |
|-----------------------|----------------------------|---|--|--|--|----------------------|---------------|
| *stéh:tis | place | Lat statió 'position, station' NE stead Lith stāčias 'standing' Grk stásis 'place, setting, standing, stature' Av stāiti- 'station' Skt sthīti- 'position' | From the verbal root *steh:- 'stand' | | | Space | JPM |
| *stéh:ur | post | Grk staurós 'cross' Skt sthūrā- 'post' | From the verb *stéh:- 'stand' a derivative gives NE steer | | | Construction | JPM |
| *steig- | prick | Lat īnstīgō 'goad' NE stick, stitch Grk stízō 'prick, tattoo' Av bitaēva- 'having two edges' Skt tējate 'is sharp, makes sharp' | {1} [AL] The root is given in the literature as stegh-, but neither of the MS and AVP mss. preserves the -gh-: we find -g-, -ñ- and -bh- instead. These readings rather point to the root steg-. Also the meaning of these forms is rather 'to penetrate, assail' than 'to step'. All this makes clear that the traditional etymology, connecting Gr. στρίχω [verb] 'to march, mount', στρίχες [f.pl.] 'ranks, lines of battle' OHG stīgan [verb] 'to mount, ascend' Latv. staīga't [verb] 'to go, walk', is wrong. The accentuation of the desiderative participle atitīstīghīšan must be emended to +atitīstīghīšan (Verba1997: 258 nr. 227), since all desideratives are accented on the reduplication syllable. | Present V: pra-stignoti [3sg.act.], pra-stignuyāt [3sg.opt.act.] (MS 2.1.12:14.4f) Aorist IS: *ā-stegīsat [3sg.subj.act.] (AVP 13.4.5) Desid: +ati-tīstīghīasant- [ptc.act.] (MS 1.6.3:89.9) Inf: ati-štīgām (MS 1.6.3:89.9) {1} | | Reductive Activities | JPM IIAL |
| *steig ^h - | step (up), go walk | Olr tīragu 'stride' OHG stīgan 'climb' Skt stighnóti 'climb' Lith steigiù 'hurry' Grk steikhō 'step, go' OCS stignq 'come' | | | | Come & Go | JPM Beekes |
| *stel- | put in place, (make) stand | NE stall NHG stellen 'put, place' OPrus stallit 'stand' Alb shṭjell 'fling, toss, hurl' Grk stéllō 'make ready send' Skt sthālam 'eminence, tableland dry land, earth' | | | | Placement Verbs | JPM |

Sheet1

| | | | | | | | |
|---------------------------|---------------------|---|---|---|--|---------------------|-------------|
| *stemb ^h (h□)- | make stand, prop up | Lith stem~bti 'produce a stalk [of plants]' Grk astemphês 'imperturbable, firm' Av stëmbana- 'support' Skt stâmbhate 'prop, support hinder, restrain' Toch AB stâm- 'stand' | | Present IX: stabhnâmi [1sg.act.] (RV) stabhâyâ° (RV) Perfect: tastâmbha [3sg.act.] (RV+) Aorist IS: âstambhît [3sg.act.] (RV) TA-Ptc.: stabhitâ- 'consolidated, propped' (RV+) Abs: stabdhvâ (AV+) | | Placement Verbs | JPM IIAL |
| *sten- | moan | OE stenan Lith stenù OCS stenjq Grk sténō 'roar', stónos 'moaning' Skt stānati 'thunders' | Probably related to *(s)tenh□- 'thunder' {1} With laryngeal derivative *stenh:- 'to thunder' (see stani) ? | Present: ni(š)ṣṭananti [3pl.act.] (ep.) | | Human Sounds | JPM IIAL |
| *sten- | narrow | ON stinnr 'stiff, hard' Grk stenós 'narrow' | West Central | | | Shape | JPM |
| *ster- | steal | Olř serb 'thief ' Grk steréō 'deprive, rob' NE steal < *stel- ? | West Central | | | Exchange & Property | JPM |

Sheet1

| | | | | | | | |
|----------------------|-------------------|---|---|--|--|-----------------|-------------|
| *ster- | throw down | | {1} Pok. does not distinguish between stari and star. | Present V: str̥nōši [2sg.act.] (RV 01.129.04), astr̥not [3sg.impf.act.] (GB 2.3.12:199.15), str̥nuté [3sg.med.] (YVp+) Perfect: tast(r)iré [3pl.med.] (AVS 19.46.3 = AVP 4.23.5) Aorist R: ástar [3sg.act.] (RV), (mā) star [2sg.inj.act.] (RV) Aorist S: str̥šiya [1sg.opt.med.] (AV 10.5.15-21), astr̥ši [1sg.med.] (Br.) Fut: star̥šyāmahe [1pl.med.] (KSp) Desid: tústūr̥šati [3sg.act.] (ŠBK), tústūr̥šate [3sg.med.] (MSp+) Inf: stártave (ŠB), startavai (AB) TA-Ptc.: á-str̥ta- (RV+) 'invincible', str̥ta- (KSp+) 'overthrown' | | | IIAL |
| *ster- *ster-ih₂- | barren, infertile | Lat sterilis 'barren' Nice stirtla 'barren cow' Bulg sterica 'barren cow' Grk steíra 'barren cow', stériphos 'barren' Arm ster 'barren' Skt starī 'barren cow' Alb sh̥tjerrē 'lamb' Toch B śari 'kid' | | | | Health&Sickness | JPM IIAL |

Sheet1

| | | | | | | | |
|-------------|--------------------|--|---|---|--|--------------|-----|
| *ster(h,)- | spread out | Lat struð 'build up' and sternō 'spread out' NE strew Alb shtrij 'stretch' Grk stórnūmi 'spread out' Av stērēnaoiti □ stērēnāiti 'spreads out' Skt strṇóti □ strṇā ti 'spreads out' | {1} Pok. does not distinguish between stari and star. | Present IX: strṇāti [3sg.act.] (AVP+), ástrṇāt [3sg.impf.act.] (RV), strṇīte [3sg.med.] (RV+) Perfect: tistiré [3sg.med.] (RV) Aorist IS: -astarīh [2sg.act.] (AV 12.3.38) Aorist mediopass: ástāri (RV 06.063.03) Passive: stīryate (KB+), stīryámāṇa- (KSm+) Inf: -strṇīṣāni (RV 06.044.06) Abs: stīrtvā (MSP+), -stīrya (TSp+) na-ptc.: stīrnā- (RV+) | | Extend | JPM |
| *ster(h,)mn | strewn place, ?bed | Lat strāmen 'straw' Grk strōma 'straw, bed' Skt stāriman- 'act of spreading out bed, couch' Grk stro 'bed' | | | | Construction | JPM |

Sheet1

| | | | | | | | |
|----------------------------|-----------------------------|--|---|---|--|----------------------|-------------|
| *steu- | praise solemnly announce | Grk steutai 'make a gesture of or show of [doing something], promise, engage oneself, or threaten [to do something]' Av staoiti 'praises' Skt stāuti 'praises' | | Present II: astaut [3sg.impf.act.] (RV), stāumi [1sg.act.] (AV+), stāuti [3sg.act.] (AV+) Present I: stāvate [3sg.med.] (RV) stāve [3sg.med.] 'is praised' (stative) (RV) Perfect: tuṣṭuvūr [3sg.act.] (RV+) Aorist mediopass: ástāvi (RV) Aorist S: astoṣi [1sg.med.] (RV), astoṣta [3sg.med.] (RV+), stoṣat [3sg.subj.act.] (RV) SI-impv: stoṣi (RV 10.022.04) Passive: stūyāte [3sg.] (RV+) Fut: stavīṣyá ° (RV+), stoṣya ° (Br.+) TA-Ptc.: stutá- (RV+) | | Formal Speech & Song | JPM IIAL |
| *steub ^h | praise, sound | | {1} Most probably, an enlargemnet of *steu- (see s.v. stav). | Present I: stobhati [3sg.act.] (RV) Aorist R: pra- stubhāná- [ptc.med.] (RV 04.003.12, nonce) stobdhi [2sg.impv.act.] (JB nonce) Caus: ástobhayat [3sg.impf.act.] (RV 01.088.06) TA-Ptc.: stubdha- (Br.+) | | | IIAL |
| *sth.b ^h o/eh□- | post, pillar | NE staff Lith stābas 'post' | North-Western from the root *steh :- 'stand'; | | | Construction | JPM |

Sheet1

| | | | | | | | |
|-------------------|-------------------------|---|---|--|--|-----------------|--------|
| *sth₂dʰ-lom | stall, stable | | | | | | Beekes |
| *sth₂ei- | become hard, fixed | Lat stīria 'icicle' Frisian stīr 'stiff' Lith stóras 'stiff' Skt styāyate 'becomes fixed, coagulated, hardens' B stināsk- 'be silent' | | | | Qualities | JPM |
| *stígʰs | path | ON stig 'step' OCS stīdza 'step' Grk stíkhos 'row, line' | it derives from the verbal root *steigʰ- 'step, go'. | | | Roads | JPM |
| *stígʰs | step | ON stig 'step' OCS stīdza 'footstep street', Grk stíkhos 'row, line' | | | | Travel | JPM |
| *stl̥neh□- | post, support | OHG stollo 'support' Grk stēlē 'pillar' | from *stel- 'stand' | | | Construction | JPM |
| *stóigʰo/eh□- | way | OHG steiga 'step, way' Alb shteg 'path' Grk stoíkhos 'row, line' | | | | | JPM |
| *stóm̥n̥ | mouth | NWels safn 'jawbone' Grk stóma 'mouth' Hit istaman- 'ear' Av staman- 'maw' | | | | Head | JPM |
| *storos | starling | Lat sturnus NE starling OPrus starnite 'gull' | | | | Bird | JPM |
| *str(h□)yon- | sturgeon | OE styri(g)a | Means 'salmon' in Gaulish c.f. Lat sariō which is a loan | | | Fish | JPM |
| *strenk- | string, to pull (tight) | NE string Grk straggós 'drawn through a small opening', ?Mlr sreng 'string, cord' [if not an ON loanword] | | | | Textiles | JPM |
| *streug- | be fatigued, exhausted | Grk streúgomai 'am exhausted, worn out suffer distress' Toch B sruk- 'die' | Greek-Tocharian isogloss | | | Health&Sickness | JPM |
| *strh₃-no- (-to-) | laid down | | | | | | Beekes |
| *stuh₂-ró- | big, strong | | | stháviyas- [comp] 'thicker, stronger' (Br.+) stháviṣṭha- [sup] 'thickest, strongest' (TS+) | | | IIAL |
| *stup- | ± offcut, piece of wood | Grk stúpos 'stick, post, pole' NE stump Toch A ṣtop 'club' | | | | Construction | JPM |
| *suh□- | rain | Grk húei Toch su- | | | | Water | JPM |

Sheet1

| | | | | | | | |
|------------------------|------------------------------|--|--|--|--|----------------|----------------------------------|
| *suh□-nú-s | son | NE son OPrus soūns 'son' OCS synŭ 'son' Av hūnu- 'son' Skt sūnú- 'son' Toch B soṃške '(young) son' | | | | Kinship | JPM Beekes IAL |
| *suh□-ros | sour, acid | NE sour Lith sūras 'salty' OCS syrŭ 'wet' | North-West | | | Qualities | JPM |
| *suh□sos | grandfather | Alb gjysh 'grandfather' Skt sūṣā 'paternal grandmother' | Albanian-Indic correspondence from *seuh□- 'beget', the same root that gave the words for 'son' | | | Kinship | JPM |
| *suh□yús | son | Grk huiús 'son' Toch B soy 'son' | | | | Kinship | JPM Beekes IAL |
| *suks-th□o- | 6th sixth | | {1} For the Avestan form see Hoffmann 1965: 254 = Hoffmann 1975: 190. For the Sanskrit form see Lubotsky 2000a. perhaps the word originally designated fermented [birch] sap | | | | |
| *súleh□- | (fermented) juice | Skt sūrā- 'intoxicating drink' OPrus sulo 'curdled milk' Av hura 'kumys' Latv sula '(birch) sap' | {1} [AL] In the AVP, the preparation of the Surā-drink is described in two hymns (5.10 and 8.12). It follows that there were two ways of preparation: by fermentation (a kind of beer) and by distillation | | | Meals | JPM IAL |
| *suod *sūs | as, like pig; sow | Lat sūs 'pig' NE sow Latv suvēns 'young pig' Alb thi 'pig' Grk sūs □ hūs 'pig' Av hū- 'pig' Skt sūkarā- 'pig, boar' Toch B suwo 'pig' | | | | Fauna | Beekes JPM Celt. Beekes |
| *sw(o)r(ak)s | shrew | Lat sōrex Latv sussuris Bulg səsar Grk húraks | West-Central | | | Fauna | JPM |
| *sward- | laugh | NWels chwarddiad 'laugh' Grk sardánios '(bitter) laughter', sardázō 'scoff, jeer' | Welsh-Greek isogloss | | | Human Sounds | JPM |
| *swe(n)g- | bend, swing | NE swing Skt svájate 'embraces' Toch B suk- 'hand over' | | | | Bend and Press | JPM |
| *swed ^h -o- | lineage | Lat sodālis 'associate' Grk éthos 'custom, habit' Skt svadhā 'homestead kindred group' | built on the reflexive pronoun 'self'. | | | Family | JPM |
| *sweh□de/o- | be tasty, please be sweet | Grk hēdomai 'rejoice' Skt svādate 'becomes savoury' | Underlies the derived adjective found widely in Proto-Indo-European that indicates 'sweet' (*sweh□dús) | | | Food & Drink | JPM IAL |

Sheet1

| | | | | | | | |
|------------|----------------------|--|--|---|--|-----------------|-------------|
| *sweh□dús | sweet | NE sweet Skt svādhú- 'sweet' Toch B swāre 'sweet' Lith sūdyti 'to salt' Lat suāvis 'pleasing to the senses' Grk hēdús 'what is pleasing to the senses' | | svādvī- [f] svādiyas- [comp] 'sweeter' (RV+) svādiṣṭha- [sup] 'sweetest, most pleasant' (RV+); | | Sensation | JPM IIAL |
| *swei- | blow to hiss or buzz | Olr sēitid 'blows' OCS svistati 'whistle' Grk sízō 'crackle' Skt kṣvédati 'buzzes, hums, murmurs' Goth swiglōn 'play the flute' | | | | Blow Up | JPM |
| *sweid- | shine | OE switol 'distinct, clear' Lith svidū 'shine, am glossy' Av x□aēna- 'glowing' Lat sīdus, consīderō 'consider' which literally meant 'consult the stars' | | | | Light & Dark | JPM |
| *sweid- | sweat | Lat sūdō NE sweat Latv svīstu Alb dirsem Grk idiō Skt svédate Toch B sy- | | Present I: svedate [3sg.med.] (Ar., Up.) Present IV: svidyanti [3pl.act.] (SB+) Perfect: sišvidānā- [ptc.med.] (RV) Caus: svedayati (SāmavidhB) na-ptc.: svinnā- (AV+) | | Vital Functions | JPM IIAL |
| *swekrúh□s | mother-in-law | NWels chwegr 'mother-in-law' Lat socrus 'mother-in-law' OE sweger 'mother-inlaw' OCS svekry 'husband's mother' Alb vjehërr 'mother-in-law' Grk hekurá 'husband's mother' Arm skesur 'husband's mother' Skt śvaśrū- 'mother-inlaw' | | | | Kinship | JPM IIAL |
| *swékuos | father-in-law | NWels chwegrwn 'father-in-law' Lat socer 'father-in-law' OE swēor 'father-in-law' Lith šėšuras 'husband's father' OCS svekrū 'husband's father' Alb vjehërr 'father-in-law' Grk hekurós 'wife's father' Av xvasur 'father-in-law' Skt śváśura- 'father-in-law' | | | | Kinship | JPM IIAL |

Sheet1

| | | | | | | | |
|-----------------|-----------------------|---|--|---|--|--------------|-----|
| *swēkurós | wifes brother | Skt śváśura- OHG swāgur | | ? | | Kinship | JPM |
| *swel- | burn | OE swelan 'burn' Lith svjū 'singe' Grk hēlā 'heat of the sun' | | | | Fire | JPM |
| *swel- *sel- | plank, board | NE sill Grk hélmata 'planing, decking' | | | | Construction | JPM |
| *sweliyon- | wifes sisters husband | ON svili Grk eilíones [pl.] | Norse-Greek isogloss | | | Kinship | JPM |
| *swelno- | slope | OE swelle 'slope, rise in land' Toch B šale 'mountain' | | | | Earth | JPM |
| *swelp- | burn, smoulder | Toch sālp- 'be set alight, burn' OE sweff Lat sulphur 'sulphur', i.e. 'that which burns' | nominal derivative *swélp (Gen. *sulplós) | | | Fire | JPM |
| *swem- | swim | NE swim Olr do-seinn 'moves' | North-West | | | Swim | JPM |
| *swenh□- | (re)sound | Lat sonō Latv sanēt OE swinsian 'sing' Olr seinnid 'play a musical instrument' Lat sonus 'sound' NE swan (< *'singer') | | | | Human Sounds | JPM |

Sheet1

| | | | | | | | |
|--------------------|---------------|--|--|--|--|---------------------|-----------------------|
| *swep- | sleep, dream | <p>Prs. *swépti 'sleeps, dreams'</p> <p>OE swefan</p> <p>OCS sŭpati</p> <p>Hit supp-</p> <p>Av xāp-</p> <p>Skt svápiti</p> <p>Caus- *swopéyeti □ *swöpéyeti</p> <p>'puts to sleep'</p> <p>Lat sōpiō 'lull to sleep'</p> <p>OE webban 'lull to sleep, kill'</p> <p>Skt svapáyati □ svāpáyati 'lulls to sleep'</p> | <p>{1} With a secondary -i-.</p> <p>{2} [AL] For a discussion of the IE situation see Kümmel 2000: 594f.</p> | <p>Present II: svápiti</p> <p>[3sg.act.] (TSp+)</p> <p>{1}, svapánt-</p> <p>[ptc.act.] (RV)</p> <p>Present I: ní ...</p> <p>svapa</p> <p>[2sg.impv.act.]</p> <p>(RV, AV+)</p> <p>Perfect: suṣupuh</p> <p>[3pl.act.] (RV+) 'to sleep in (pres.)',</p> <p>suṣupvāms-</p> <p>[ptc.act.] (RV),</p> <p>suṣupāná-</p> <p>[ptc.med.] (RV+)</p> <p>Aorist SIS:</p> <p>svāpsīt</p> <p>[3sg.inj.act.]</p> <p>(AVP+)</p> <p>Caus: svāpáyati</p> <p>[3sg.act.] (RV+)</p> <p>Aorist RED:</p> <p>síṣvap</p> <p>[2sg.inj.act.] (RV),</p> <p>siṣvapaḥ</p> <p>[2sg.inj.act.]</p> <p>(them.) (RV)</p> <p>TA-Ptc.: suptá-</p> <p>'fallen asleep'</p> <p>(AV+)</p> <p>Abs: suptvá (AV)</p> | | Knowledge & Thought | JPM IIAL Beekes |
| *swep- | throw, sweep | <p>Lat supō 'throw'</p> <p>OCS sŭpō 'strew, pour about'</p> <p>ON svāf 'spear' and sōfl 'broom'</p> <p>Skt svapū 'broom'</p> <p>Toch B sopi 'net, snare, throwing net'</p> | | | | Throw | JPM |
| *swer | sound, rustle | | | <p>Present I: svāranti</p> <p>[3pl.act.] (RV+)</p> <p>Aorist S: ásvār</p> <p>[3sg.act.] (RV)</p> <p>Inf.: svaritoḥ (JB)</p> | | | IIAL |
| *swer- | darken | <p>Lat sordēs 'dirt, soil, uncleanness'</p> <p>NE swart</p> <p>Oss xuarun 'to colour'</p> | | | | Light & Dark | JPM |
| *swer- *swer-u- | post, rod | <p>Lat surus 'twig, short stalk'</p> <p>Grk hērma 'support' Skt svāru-</p> <p>'sacrificial post, stake'</p> | <p>{1} [AL] Mayrhofer considers the etymology uncertain, but he gives no reason for his doubts.</p> | | | Construction | JPM |

Sheet1

| | | | | | | | |
|------------------------|----------------------------------|--|---|--|--|---------------------|------------|
| *swerb ^h - | turn, move in a twirling motion | NWels chwerfan 'spindlewhorl' OE sweorfan 'wipe, rub' Latv svārpstīt 'bore' OCS svrabū 'scabies' | North-West | | | Motion | JPM |
| *swerg ^h - | be ill | Olr serg 'illness' Lith sergū 'am ill' Alb dergjem 'lie ill' Toch B sārċ- 'illness' | | | | Health&Sickness | JPM |
| *swerh□K- | watch over, be concerned | OE sorgian 'grieve, be sorry for, be anxious about' Lith sérgti 'keeps watch over' Skt sūrċṣati 'takes care of' | | | | Sight | JPM |
| *swero- | (suppurating) wound | NWels chwarren 'ulcer' OHG sweren 'fester' Rus khvóryj 'sick' Av x□ara- 'wound' | | | | Health&Sickness | JPM |
| *swésör | sister | Olr siur Lat soror NE sister OPrus swestro OCS sestra Arm k'oyr Av x□arĥar- Skt svásar- Toch B şer Grk éor 'cousin's daughter' | The word for 'sister' has been variously analyzed as a compound *swe- 'own' + *sör 'woman', i.e. a 'woman of one's own family' or, alternatively, as *su- 'with' + *h esör 'blood', i.e. '(woman of) one's own bloodline'. Neither derivation is widely accepted. | | | Kinship | JPM IAL |
| *swesr(iy)ós | pertaining to a sister, sister's | OSwed swiri 'mother's sister's son' Sanglechi xīr 'sister's son' Skt svasrīya- 'sister's son' literally something like 'he of the sister' | | | | Kinship | JPM |
| *swesrih□nos | sisters son | Lat cōnsobrīnus 'mother's sister's son (any) cousin' Lith seserėnas 'sister's son' | North-West probably originally meant 'pertaining to the sister'; | | | Kinship | JPM |
| *swīg/k- | be silent | OE swīgian 'be silent' Grk sīgáo | West Central | | | Speech | JPM |
| *swoiniyeh□- | wifes sister | Lith sváinė 'sister-in-law' Latv svāine 'wife's sister' Arm k'eni 'wife's sister' | | | | Kinship | JPM |
| *swomb ^h os | spongy | OE swamm 'mushroom' Grk somphós 'spongy' | West Central | | | Qualities | JPM |
| *swópniyom | dream | Lat somnium 'dream' Lith sapnỹs 'sleep, dream' Grk enúpnion 'dream' Skt svápnyam 'vision in a dream' *supn(iy)om OCS sūnije 'dream' Toch B sänmetse 'in a trance' ?Grk enúpnion 'dream' | | | | Knowledge & Thought | JPM |

Sheet1

| | | | | | | | |
|--------------------|-----------------------|---|---|--|--|---------------------|-------------|
| *swópnoš | sleep, dream | Lat somnus 'sleep' Lith sâpnas 'dream' OE swefn 'sleep' Grk húpnos 'sleep' Av h□afna- 'sleep' Skt svápna- 'sleep' Toch B špane 'sleep, dream' *supnós OCS sūnŭ 'sleep' Alb gjumë 'sleep' Arm k'un 'sleep' | | | | Knowledge & Thought | JPM |
| *swópr, *swépör | sleep, dream | Lat sopor 'overpowering sleep' Grk húpar 'true dream, vision walking reverie' Hit suppariya- 'dream' OCS šurī 'wife's brother' Arm hor 'son-in-law' Skt syālā- 'wife's brother' | (genitive *supnós) | | | Knowledge & Thought | JPM IIAL |
| *syō(u)ros | wife's brother | OCS šurī 'wife's brother' Arm hor 'son-in-law' Skt syālā- 'wife's brother' | | | | Kinship | JPM |
| *syuh, - | sew | Lat suō NE sew Lith siuvū OCS šijq Grk kassūō Skt sīvyati | {1} [AL] It seems easier to account for the attested forms by assuming metathesis *siHuC > *siuHC rather than the other way round (pace Mh), cf. also s.v. mīv. Under unclear circumstances, *sijūH- > *suH- (syūman- vs. sūtra-). {2} [AL] Hitt. šum(m)anza(n)- 'string, rope' does not exist (Melchert 2003). | Present IV: sīvyatu [3sg.impv.act.] (RV+) TA-Ptc.: syūtā- 'sewn up' (RV+) | | Textiles | JPM IIAL |
| *t-at- | father | Lat tata Grk tatā Skt tatā- NWels tad Luv tātis | | | | Kinship | JPM |
| *t(e)h, u-s- | be silent | OPrus tusnan 'quiet' Hit tuhussi(i)ye- 'keep quiet, acquiesce' Av tušni- 'sitting quietly' Skt tūṣṇīm 'quiet, silent' | | | | Speech | JPM |
| *t(e)rm- | thread-end | OE þrum NE thrum Grk termiōeis 'be-thrummed' | From *termn- | | | Textiles | JPM |
| *tag- | touch | Lat tangō 'touch' OE þaccian 'touch lightly, stroke' Grk tetagōn 'seizing' | West Central | | | Sensation | JPM |
| *tāg- ?*tag- | set in place, arrange | Lith sutógti 'get married ally oneself with') Thessalian Grk tāgós 'military leader' Parth tgm̐dr ' commander' Toch B tās'commander' | | | | Placement Verbs | JPM |
| *tagós | leader | Grk tāgós 'leader' Toch A tāsši [pl.] 'leaders' | Derives from *t[a/ā]g- 'put in order, arrange' | | | Social Organization | JPM |
| *tak- | be silent | Olr tachtaid 'chokes, stifles' Lat taceō 'am silent' ON þegja 'be silent' | North-West | | | Speech | JPM |

Sheet1

| | | | | | | | |
|-------------|-----------------------|--|--------------------------------|--|--|-----------------|--------|
| *taksos | yew | Lat taxus 'yew' Rus tis 'yew' Grk tókson 'bow' NPers taxš 'bow' | | | | Trees | JPM |
| *tauros | aurochs bull | Olr tarb 'bull' Lat taurus 'bull' OPrus tauris 'bison' Lith taūras 'bull aurochs' Rus tur 'aurochs mountain goat' Grk taūros 'bull' Alb tarok 'bullock' Khot ttura- 'mountain goat' | | | | Fauna | JPM |
| *teg-os | cover, roof | Lat. tego 'cover' Gr. tégos 'roof' German Dach | | | | | Celt. |
| *tepus | thick, fat | Olr tiug 'thick' NE thick Hit tagu- 'fat, swollen' | | | | Shape | JPM |
| *teh.uros | bull | | | | | | Beekes |
| *teh.ys-t- | dough | OCS těsto OHG theismo | | | | | Celt. |
| *teh□- | melt | NWels toddi 'melt' Lat tābeō 'melt' NE thaw OCS tajō 'melt' Grk tékō 'melt' Arm t'anam 'moisten' Oss tajyn □ tajun 'melt' | | | | Fire | JPM |
| *teh□li | of that sort or size | Lat tālis 'of that sort' Lith tōlei 'so long' Grk tēlíkos 'so old' | West Central | | | Pronouns | JPM |
| *téh□mot(s) | then, at that place | Latv nuo tām 'from there' OCS tamo 'thither' Grk tēmos 'then' | West Central | | | Pronouns | JPM |
| *téh□wot(s) | so many, so long | Grk téōs 'so long, meanwhile' Skt (e-)tāvat 'so much, so many so great, so far' Toch B tot 'so much, so many so great so far' | | | | Pronouns | JPM |
| *teigw- | ± side | Olr tōib 'side' Arm t'ekn 'shoulder' | | | | Body (Upper) | JPM |
| *tek- | bear or beget a child | Grk tiktomai 'bear, beget' NE thane Skt tákman- 'child, offspring'. | NE and Skt come from *tek-men- | | | Vital Functions | JPM |

Sheet1

| | | | | | | | |
|---------------------|-------------------------|--|---|--|--|-------------|------|
| *tek- | run, flow swiftly | Olr teichid 'flees' Lith tekù 'run, flow [of water], rise [of sun]' Rus tekú 'flow' Alb ndjek 'follow' Skt tákti 'hurries' o-stem *tekwós 'runner' OE þēow 'servant' OHG deo 'servant' Toch B cake 'river' Grk téknon 'child' | | | | Run & Jump | JPM |
| *teknom | child, offspring | Grk téknon 'child' | From a root *tek- 'beget', hence more properly 'offspring' The range of meanings for this word includes a Germanic series all pertaining to servants of a king or followers (e.g. NE thane). | | | Family | JPM |
| *téks- | hew, fabricate | Lat texō 'weave, intertwine, put together, construct' Lith tašyti 'hew, trim' OCS tesati 'hew' Skt táksati 'fashions, creates carpenters, cuts' Grk téktōn 'architect', tékhnē 'art, technique' Skt tákšan- 'carpenter' Hit taksan- 'joint' OHG dehsa 'axe' | | | | Dwelling | JPM |
| *téks-(t)or/n- | one who fabricates | Lat textor 'weaver' Grk téktōn 'carpenter' Skt tákšan- 'carpenter' Av tašan- 'creator' | It derives from the verbal root *téks- 'fabricate', and the semantic divergence may be due either to the fact that the verbal root itself is ambiguous or the fact that the craft of the carpenter also included the construction of wattled ('woven') walls. | | | Occupations | JPM |
| *téks/eh□- | axe, adze | OHG dehsa 'axe, hatchet' Av taša- 'axe' with a derivative in *-lo/eha- : Olr tāl 'axe' OHG dehsala 'adze, hatchet' Russian Church Slavonic tesla 'axe' | From the verb *téks- 'fabricate' | ? | | Tools | JPM |
| *téksteh□- | plate, bowl | Lat testa 'plate, pot' Av tašta 'cup' | originally indicated a wooden vessel | | | Containers | JPM |
| *tek ^w - | hurry, rush, walk, flow | | | Present II: takti [3sg.act.] (RV), takantīh [ptc.act.nom.pl.f.] 'rushing (waters)' (AVP) TA-Ptc.: taktá- 'rushing along, fleeting, fugitive' (RV) | | | IIAL |

Sheet1

| | | | | | | | |
|--------------------------|--------------------|---|--|--|--|----------------------|--------|
| *telh ₂ - | lift, raise | Lat tollō 'lift' NE thole Grk talássai 'bear, suffer' Arm t'ulow 'let, permit' Skt tulā 'scales' NE thole 'endure' Toch AB täl- 'uphold, raise' Mlr tlenaid 'takes away' | | | | Convey | JPM |
| *telh ₂ -ti- | suffering, sadness | Gr. talás 'sad' OHG dolēn 'suffer' | | | | | Celt. |
| *telh□- | pray | ON þulr 'wiseman, sage, sayer of sacred rituals' Hit talliya- 'appeal to a god for help' | | | | Formal Speech & Song | JPM |
| *telh□-om | floor (of planks)? | OE þel 'floor', þille 'plank of floor' Lith tiles 'planks at the bottom of a ship' Olr talam 'earth, ground' Lat tellūs 'earth' Rus tlo 'bottom' ?Skt tala- 'surface, bottom' | | | | Construction | JPM |
| *telk- | push, thrust | Olr tolc 'blow' Lith tilkti 'be tame' Rus tolkatī 'push, shove' | | | | Convey | JPM |
| *telp- | have room | Olr -tella 'have room for something' Lith telpū 'find or have room enough enter' Skt tālpa- 'bed' Toch B tālp- 'be emptied of, purge' | | | | Space | JPM |
| *tem- | reach, attain | Grk témei 'arrives, reaches' Toch AB tām- 'be born' | | | | Come & Go | JPM |
| *temh ₁ - | cut | | | | | | Beekes |
| *temh ₁ -es-i | in the dark | | | | | | Beekes |

Sheet1

| | | | | | | | |
|-------------------|---|--|---|--|--|----------|------|
| *temh□- | be struck, be exhausted faint, be dark | OCS tomiti 'torture, harass, tire' Mlr tām 'sickness, death' Lat tēmētum 'any intoxicating drink' NHG damisch 'foolish, silly' Skt tām̐yati 'gasps for breath, is faint, stunned, exhausted' | {1} Subjunctive of a root aorist (Hoffmann 1967: 240), rather than injunctive of thematic aorist (Whitney, Macdonell) | Present IV: tām̐yati [3sg.act.] (YVp+) Aorist R/A (?): tamat [3sg.subj.act.] (RV 02.030.07, TB) {1} Perfect: tatāma [3sg.act.] (Br.) Caus: tām̐yati (KS-KpSp+) TA-Ptc.: tāntā- 'breathing with difficulty, fainted, exhausting' (KS+) | | Conflict | JPM |
| *temh□-s-reh :- | darkness | | {1} All from Plr. *tanθra-. {2} Plural of *temafrā-. | | | | IIAL |
| *temp- *ten-p- | stretch | Lith tem~pti 'stretch out, pull out' ON þambr 'thick' OCS tqpū 'thick' | | | | Extend | JPM |

Sheet1

| | | | | | | |
|---------|--|--|---|---|--------|-------------|
| *ten- | stretch | <p>Lat tendō 'stretch'</p> <p>OE þenian 'stretch'</p> <p>Lith tinti 'swell'</p> <p>Alb ndej 'extend, stretch, spread'</p> <p>Grk tanúō 'stretch'</p> <p>Skt tanóti 'expands, stretches'</p> <p>Lat tenuis 'thin'</p> <p>NE thin</p> <p>participle *tŋ-tó-s</p> <p>Lat tentus</p> <p>Grk tatós</p> <p>Skt tatá- 'stretched'</p> | <p>{1} [AL] The set-variant of the root is attested in such forms as uttāná- (< *ut-tŋ-H-nó-), pass. tāyáte, tanú-, for which see Beekes 1982-3, Beekes 1985a.</p> | <p>Present V/VIII:</p> <p>tanóti [3sg.act.] (RV+), tanuté [3sg.med.] (RV+)</p> <p>Aorist R: átan [3sg.act.] (RV), átnata [3pl.med.] (RV), atathās [2sg.med.] (Br.)</p> <p>Aorist S: atān [3sg.act.] (RV, AV)</p> <p>atāmsīt [3sg.act.] (TS)</p> <p>Perfect: tatāna [3sg.act.] (RV+)</p> <p>tātāna [3sg.act.] (RV 01.105.12), tatne [3sg.med.] (RV+), tate [3sg.med.] (RV 01.083.05), tatniire [3pl.med.] (RV-YVm), (vi)</p> <p>teniré [3pl.med.] (AV+)</p> <p>Passive: tāyáte [3sg.] 'to be performed (of a rite)' (RV+)</p> <p>'to be stretched' (AV+, almost exclusively in compounds)</p> <p>Fut: tam̐sy° (Br.)</p> <p>Caus: á tānayā [2sg.impv.act.] 'to stretch'</p> | Extend | JPM IIAL |
| *ten-d- | be exhausted due tension, become tired | | | Present I: tandate [3sg.med.] (RV 01.138.01) | | IIAL |

Sheet1

| | | | | | | | |
|------------|---------------|--|--|--|--|-----------|-------------|
| *ten-s- | pull | OHG dīnsan 'pull' Lith té,sti 'stretch, pull' Skt tamsayati 'draws to and fro' | if not independant creations {1} [AL] Or reduplicated aor. (which seems less probable, as the form is used in parallel with an impf.) ? Cf. the discussion in Kümmel 2000: 205. {2} [AL] See Jamison 1983: 93, fn. 35. | Present X: ā tamsayethe [2du.med.] (RV 10.106.01), ātamsayat [3sg.impf.act.] (VS) Aorist A: átasat [3sg.act.] (AV+) Perfect: tatasré [3pl.med.] (RV), átatamsatam [2du.ppf.act. (?) {1}] (RV 01.120.07) Intensive: vi- tantasáite [3du.subj.med.] (RV 06.025.06) Inf: pari- tamsayádhyai (RV) | | Extend | JPM IIAL |
| *ten-tlo- | warp | | | | | | IIAL |
| *ten-tu- | thread, cord | | | | | | IIAL |
| *ten-uh, - | body | | | tanvām [acc.sg.] (RV+) tanvā [instr.sg.] (RV+) tanvè [dat.sg.] (RV+) tanūbhyas [dat.pl.] (RV+) | 'self (reflexive)': Skt. sváyā tanvā (AV) — OAv. xva- tanuuas-cīt_ , YAv. huua- tanū-, MP, NP xwēštan 'self' 'made by oneself': Skt. tanū-kṛt- (RV+) — YAv. tanu.karəta- 'to hide oneself': Skt. tanvām gūh ° (RV) — YAv. tanūm (ā)guz ° 'dear body': Skt. priyām ... tanvām (RV, AV) — YAv. friiā ... tanuui 'protector of the bodies': Skt. trātā tanūnām — YAv. tanuiie ... θrāθrām 'to protect the body (himself)': Skt. tanū-pā- [adj] (RV+) — YAv. tanūm pāiti 'to shine with the body / to light up the body': Skt. tanū-rúc- [adj] 'shining with the body' (RV) — YAv. tanūm raocaiieiti 'to light up the body' (Yt 10.142) | | IIAL |
| *teng- | moisten, soak | Lat tingō 'moisten' OHG thunkōn 'dunk' Grk téggō 'moisten' | West Central | | | Qualities | JPM |

Sheet1

| | | | | | | | |
|------------------------|--------------------------------|---|--|---------------------------------|--|---------------------|------|
| *teng- | think, feel | NE thank, think Toch B tańkw'love' cāńk- 'please' Alb tēngē 'resentment, grudge' Lat tongeō 'know' | | | | Knowledge & Thought | JPM |
| *teng ^(h) - | pull | OCS ras-tegō 'pull apart' Av θang- 'pull' Lat tēmō 'chariot pole' OE pīxl 'wagon-pole, shaft' | | | | Extend | JPM |
| *teng ^h - | be heavy, difficult | ON pungr 'heavy, difficult, unfriendly' Lith tingūs 'idle, lazy, sluggish' OCS o-težati 'become heavy, loaded' Toch B tāńk- 'hinder, obstruct' | | | | Qualities | JPM |
| *teng ^h -s- | pole | Lat temō OE tīsl 'wagon-pole, shaft' | from *ten- pull, stretch | | | Transport | JPM |
| *tenh:-u- | long, thin | | | tānīyas- [comp] 'thinner' (Br.) | | | IIAL |
| *tenh□g- | shallow water | Latv tīgas 'deep spot in water' Grk ténagos 'shoal, shallow water' Lat stāgnum 'standing water, pool, swamp' ? | | | | Water | JPM |
| *tenk- | become firm, thicken shrink | Olr tēcht 'coagulated' ON þēl 'buttermilk' Lith tánkus 'thick, copious' Skt tanákti 'pulls together', takráam 'buttermilk' Toch B tańki 'very, fully full' | | | | Measure & Quantity | JPM |
| *ténk | buttermilk | ON þēl 'buttermilk' Skt takráam 'buttermilk mixed with water' | | | | Meals | JPM |
| *ténus | thin, long | Olr tanae 'thin' Lat tenuis 'thin, fine' NE thin Lith te, 'vas ' thin, slim' OCS tīnūkū 'slender, thin' Grk tanaós 'long, elongated' MPers tanuk 'thin, weak' Skt tanú- 'thin, slender, small' | from verbal root *ten- 'extend, stretch' | | | Shape | JPM |
| *tep- | be warm | | | | | | IIAL |

Sheet1

| | | | | | | | |
|----------|----------------|---|--|--|---|----------------------|-------------|
| *tep- | hot be warm | Olr te 'hot' Umb tefru 'burnt sacrifice' OE þefian 'gasp, pant' Rus topitī 'heat' Grk téphrā 'ashes' Hit tapissa- 'fever, heat' Av tāpaiti 'be warm' Skt tāpati 'warms, burns' Alb ftoh 'make cold' | {1} [AL] With the secondary suffix accentuation (see Kulikov 1998). {2} [AL] Isolated and irregular form, probably transitive: '[Agni] heated [the bow]'. | Present I: tāpati [3sg.act.] (RV+) Present IV: tapyate [3sg.med.] (RV+), tāpyate [3sg.med.] (YVm+), tapyáte [3sg.med.] (AV, Tsm, ŚB) {1} Aorist mediopass: ātāpi [3sg.] (RV+) Aorist S: ātapthās [2sg.med.] (AV 9.5.6), atāpsīt [3sg.act.] (KS+) Aorist RED: atītāpe [3sg.med.] (RV 08.072.04) {2} Perfect: tatāpa [3sg.act.] (RV+), tepāná- [ptc.med.] (RV), tatāpate [3sg.subj.med.] (RV 04.002.06) Fut: tapsyāti [3sg.act.] (KS+) Caus: tāpáyant- [ptc.act.] (AV+) TA-Ptc.: taptá- 'heated, hot, glowing' (RV+) | *tep-os- 'warmth' the sun warms, burns': Skt. sūrya ātapatu (AV 8.2.14) — Av. huuarə ātāpaiieiti | Qualities | JPM IIAL |
| *ter- | speak out | Hit tar- and Lith tariù 'say' Mlr to(i)rm 'noise, din, uproar' OPrus tārin 'noise' Rus torotóritī 'chatter, prattle' Luvian tātariya- 'curse' Toch B tār- 'implore' | | | | Speech | JPM |
| *ter(i)- | rub, turn | Lat terō 'rub' Lith trinù 'rub' OCS tīrŋ 'rub' Grk teirō 'rub' | West Central | | | Reductive Activities | JPM |

Sheet1

| | | | | | | | |
|---------------------------|-------------------------|--|---|--|--|----------------------|--------------|
| *terd- | pierce | | {1} [AL] Lith. triesti (dial.) [verb] 'to suffer from diarrhoea' seems to show that acute is original in this root. | Present VII: trpñtti [3sg.act.] (RV+), trndhi [2sg.impv.act.] (RV+) Aorist R: tárdas [2sg.subj.act.] (RV 06.017.01), trdyur [3pl.opt.act.] (Sū.), tarddhi [2sg.impv.act.] (AVP 5.20.3) Perfect: tatarda [3sg.act.] (RV, AV), tatrdānā- [ptc.med.] (RV) Caus: vi-tarday° 'to drill into, to hollow out' (Sū.) Desid: titr̃tsān [3pl.subj.act.] 'to wish to open' (RV 10.074.04 +) Abs: pra-třdyā (ŚB) na-ptc.: ava-trpñna- (AVP 1.58.3+), ā- trpñna- (KS+) | | | IIAL |
| *tergʷ- | scare fear, threaten | NWels tarfu 'hunt' Lat torvus 'piercing wild [of the eyes]' OE þracian 'fear, feel dread, shudder' Grk tarbéō 'scare' Skt tārjati 'threatens, scolds' | | | | Values | JPM Celt. |
| *terh₁- | pierce by rubbing | Olr tarathar 'instrument for drilling' Lat terō 'rub, wear away' Lith trinù 'rub' OCS třrō 'rub' Alb tјerr 'spin' [<*'rub yarn back and forth'] Grk teirō 'pierce' Skt tārā- 'piercing' | | | | Reductive Activities | JPM |
| *térh₁trom *térh₁dʰrom | auger | Olr tarathar 'auger' Lat terebra 'auger' Grk téretron 'borer, gimlet' | West Central from *terh₁ - 'pierce | | | Tools | JPM Celt. |

Sheet1

| | | | | | | | |
|-----------|--------------------------|--|---|---|--|-----------|-------------|
| *terh,- | across, through, above | NE forms both through and thorough Olr tar 'across, above' Lat trāns 'across' Av tarō 'over, to' Skt tīrás 'over, across, apart' | | | | Position | JPM |
| *terh,- | bring across overcome | Hit tarhzi 'defeats' Skt tārati 'overcomes' Lat intrāre 'enter' Skt trāyati 'protects, shelters' Grk trānós 'penetrating, clear' | {1} [AL] The secondary root tur/tūr(v) is probably extracted from the -va-present túrva-. In Vedic, the two zero grades are largely semantically divided, tīr-/tīr- meaning 'to cross', and tur-/tūr- meaning 'to conquer', cf. Lubotsky 1997b: 139, fn. 2. Among rare exceptions are aptūr- 'crossing the waters', aptūrya- 'crossing of the waters'. {2} Employed as the transitive-causative counterpart of the class I present, meaning 'to make pass, to make cross, to save'. {3} [LK] Instead of the regular *tītīrūš-, on the model of the class I present tārati (see Kümmel 2000: 214). {4} aptūm [acc.sg.] and aptāve [dat.sg.] (TS, ŠB+) are based on the secondary u-stem extracted from nom.sg. aptūr. | Present I: tārati [3sg.act.] (RV+), tarete [3du.med.] (RV 01.140.03) Present VI {2}: -tīrá [2sg.impv.act.] (RV+), -tīrasi [2sg.act.] (RV+), -tīráte [3sg.med.] (RV+) til-a- (VS) Aorist IS: átārīt [3sg.act.] (RV+), tārīṣat [3sg.subj.act.] (RV+), tārīṣmahī [1pl.opt.med.] (RV+) Perfect: tatāra [3sg.act.] 'to cross, to pass over' (RV, TBm), tītīrur [3pl.act.] (RV), tītīrvāms-, tatarūš- {3} [ptc.act.] (RV) Passive: prá tīryatām [3sg.impv.] (TBm 2.5.1.3) Caus: pra tāráy° 'to extend' (AV) Intensive: tartarīti [3sg.act.] (RV), tārītrat- [ptc.act.] | 'to cross the waters, the river': Skt. apás tari- (RV+), Skt. aptūr- [adj] 'crossing the waters' (RV+) — OP tigrām viyatarayāmā (DB I 88) — Khot. bi-tar- (+ river) — MP vi-dardan (+ river) — MoP guḍar- / guḍaṣtan (+ river) 'to overcome all hostilities, enemies': Skt. víśvā dvēṣāmsi tari- (RV+) — YAv. vīspa t_baēšā titarəntəm, tarō.t_baēša(h)-, t_baēšō.tara-, t_baēšō.tauruuan- [adj] 'overcoming hostilities' | Come & Go | JPM |
| *TerK- | release, allow | Hitt tarna- 'let, release' Toch AB tārK- 'let go, allow' | Both languages reflect a PIE present stem *TrK-neh□- | | | Movement | JPM |
| *terk(ʷ)- | twist turn | Lat torqueō 'twist, wind torment' Alb tjerr 'spin' Grk átraktos 'spindle' Skt tarkú- 'spindle' | {1} [AL] Gr. ἀτρακτός [m] 'spindle' Gr. ἀτρεκής [adj] 'precise' cannot be related because of its -k- and the initial á- | Caus: tarkay° 'to consider' (Ep.+) | | Textiles | JPM IIAL |

Sheet1

| | | | | | | | |
|--------|---------------------|--|---|--|--|--------|------|
| *térmn | border | Lat termen 'border' Grk téрма 'border, goal, end point' Arm t'arm 'end' Hit tarma- 'stake' Skt tárman- 'point of sacrificial post' | From root *ter- 'cross over' both Hittite and Indic provide a concrete meaning here, i.e. 'post, stake', a device employed to mark the limit of something. | | | Space | JPM |
| *terp- | satisfy | | | Present VI<VII: trmpáti [3sg.act.] (RV+) Present V: trpnóti [3sg.act.] (RV+), trpnutám [2du.impv.act.] (RV 08.035.10) Present IV: trpyati [3sg.act.] (RV- Kh., AV+) Aorist A: átrpat [3sg.act.] (AV+) Aorist R: trpyásma [1pl.opt.act./prec.a ct.] (TS) Perfect: tãtrpur [3pl.act.] (AV, TBm), tãtrpáná- [ptc.med.] (RV 10.095.16) Fut: atrapsyat [3sg.cond.act.] (Br.) Caus: tarpáyati (RV+) Aorist RED: atãtrpat [3sg.act.] (AV+) TA-Ptc.: trptá- (RV+) | | | IIAL |
| *terp- | take (to oneself), | OE þurfan 'need, lack' Av tarəp- 'steal' Skt paśutrp- 'cattle stealing' Grk térpomai 'satisfy myself' Skt tr 'pyati 'be sated' Lith tarpstù 'flourish' OCS trŭpěti 'suffer, endure' Toch A tsärwä- 'be confident, rejoice' tértis (gen. *trptéis) 'satisfaction' ON purft 'need' Grk térpsis 'satisfaction' Skt tr 'pti- 'satisfaction' | | | | Desire | JPM |

Sheet1

| | | | | | | | |
|----------------------|---------------------------|--|--|--|--|-----------|-----------------------|
| *ters- | dry become dry, dry up | Lat torreō 'dry' ON þerra 'dry' Alb ter 'dry off' Grk térsomai 'become dry' Arm t'aṛamim 'wilt, fade' Skt tr,śyati 'thirsts' | | Present IV: trśyant- [ptc.act.] (RV+) Aorist A: trśat [3sg.inj.act.] (AV+) Aorist R: trśāṇā- [ptc.med.] 'thirsty' (RV), +atrśta [3sg.med.] (AVP 5.31.3) Perfect: tātrśúr [3pl.act.] (RV) Caus: vi-tarśay° (KS+) Aorist RED: atīttrśāma [1pl.act.] (RV 04.034.11 +) TA-Ptc.: trśitá- 'thirsty' (RV 01.016.05 +) | | Qualities | JPM Beekes IIAL |
| *teru-no- *teter- | tender gamebird | Mlr tethra 'hooded crow' ON þiðurr 'capercaillie' Lith tetervà 'capercaillie' OCS tetrěvī 'pheasant' Rus teterev 'capercaillie' Grk tetráōn 'capercaillie' NPers tadhav 'pheasant' Skt tittirā- 'partridge' | The range of meanings suggests a large gamebird such as the capercaillie, pheasant, or partridge | | | Bird | IIAL JPM |
| *tetk- | fashion | | | Present II: tákṣati [3pl.act.] (RV+) tāḍhi [3sg.impv.act.] (RV) tāṣti [3sg.act.] (AB) Present V: takṣnoti [3sg.act.] (ŚB, JB) Aorist IS: ataḁṣiśur [3pl.act.] (RV) Aorist A: átakṣat [3sg.act.] (RV) Perfect: tatákṣa [3sg.act.] (RV+) TA-Ptc.: taṣtá- (RV+), takṣitá- (MS) | 'to fashion a song of praise': Skt. mántram takṣ- (RV) — OAv. maṁθrəm taṣat_ 'to fashion the speech': Skt. vacas- takṣ- (RV) — YAv. vacas-taṣti- — Gr. (Pind.) ἐπέων ... τέκτονες | | IIAL |

Sheet1

| | | | | | | | |
|----------------------|------------------------------|--|---|---|--|---------------------|-------------|
| *tetkón- | carpenter | | {1} Cf. also Gr. τέχνη [f] 'skill' Olr. tál 'axe' OHG dehsa(la) 'axe', which seem to point to *tek̥s- | | | | IIAL |
| *teu- | look on with favour | Olr tūath 'north' Lat tueor 'observe, protect' OE þēaw 'custom' Luvian cognate tāwa/i- 'eye' | | | | Values | JPM |
| *teub ^h - | steal | NE thief Toch B cowai 'theft' | | | | Exchange & Property | JPM |
| *teuh□- | swell (with power), grow fat | Av tav- 'be capable of' Skt tāvīti 'is strong, powerful' ORus tyju 'become fat' Grk sāos 'healthy' | {1} [LK] Thus Kümmel 2000: 220f., with convincing argumentation less plausible is the analysis as (intensive) perfect injunctive (Hoffmann, Narten, Bendahman 1993: 206f.). {2} [AL] The Greek adjectives reflect an ablauting paradigm *tueh:us, *tuh:-u-os (Lubotsky 1988: 123). | Present II: út tavīti [3sg.act.] (RV 10.059.01) Perfect: tūtāva [3sg.act.] 'to be strong' (RV 01.094.02) Aorist RED {1}: tūtōt [3sg.inj.act.] 'to make powerful' (RV) Intensive: saṃ-tāvīvat [ptc.act.nom.sg.m.] 'to become stronger again and again' (RV 04.040.04) | | Blow Up | JPM IIAL |
| *teus- | be happy | Hit duski- 'be happy' Skt túṣyati 'is delighted with' | | | | Values | JPM |
| *teus- | be still | | {1} [LK] Uncertain form: Orissa mss. Kashmir ms. trpyant-eds. +tr̥syant- 'thirsty' see Kulikov 2001: 406f. {2} Cf. Jamison 1983: 50f. | Present IV: tuṣyant- [ptc.act.] (AVP 2.79.3) (?) {1}, tuṣyet [3sg.opt.act.] (ŚrSū.+) Present X: tuṣāyantī- [ptc.act.f.] 'being content' (RV 10.027.16 {2}) Caus: toṣayati [3sg.act.] (JB, Sū.+) TA-Ptc.: tuṣta- (KāthB, GB+) | | | IIAL |
| *teutéh□- | the people (?under arms) | Olr tūath 'a people, nation [common] people' Oscan touto 'community' OE þēod 'folk' Lith tautà 'people' ?Hit tuzzi- 'army' | West Central | | | Social Organization | JPM |

Sheet1

| | | | | | | | |
|--------------------------|-----------------------|--|--|---|---|---------------------|-------------|
| *tīh□n- | (be) dirty | Toch B tin- 'be dirty' OCS tina 'mire, Wlth' | | | | Earth | JPM |
| *tkeh┐- | rule own, obtain | Grk ktáomai 'procure' Av xšāyati 'has power' Skt kṣāyati 'possesses, rules' OPers xāyaθiya 'king' NPers šāh 'king, shah' | {1} [AL] The reconstruction *tkeh┐- seems hardly possible, because we need palatalization in order to account for the Indo-Iranian facts. The consistent ē-vocalism in Greek is consistent with this reconstruction. | Present AYA: kṣāyati [3sg.act.] (RV) | | Social Organization | JPM IIAL |
| *tkei- | settle, dwell live | | | Present II: kṣéti [3sg.act.] (RV+), kṣiyānti [3pl.act.] (RV+), kṣāyat [3sg.subj.act.] (RV+) Aorist S: kṣeṣat [3sg.subj.act.] (RV 06.003.01) Fut: kṣeṣiyānt- [ptc.act.] (RV 02.004.03) Caus: kṣayáyā [2sg.impv.act.] (RV 03.046.02) kṣepayat [3sg.inj.act.] (RV 05.009.07) | to abide the roads': Skt. pathó ... ā kṣiyema (AV 6.117.3) — OAv. paθō ... ā šaēiti (Y 43.3) | Dwelling | JPM IIAL |
| *tkei-tro- *tkei-tlo- | land | | | | 'lord of the ground': Skt. kṣétrasya páti- (RV+), kṣáitrapatya- [n] 'dominion, property' (RV, AVP), kṣaitrapatyá- [n] 'belonging to the lord of the ground' (YV+) — YAv. šōiθrahe paiti- (Y 2,16) 'land with(out) good pasturage for cattle': Skt. agavyūti kṣétram (RV 06.047.20) — YAv. šōiθra- gaoiiaoti- | | IIAL |
| *tken- | strike | Grk kteínō 'kill' Skt kṣaṇóti 'hurts, injures, wounds' | West Central | | | Conflict | JPM |
| *tkítis | settlement | Grk ktísis 'settlement' Av šiti- 'settlement' Skt kṣiti- 'settlement' | | | | Dwelling | JPM |
| *tk"reh┐yot- | clay | Olr crē 'clay' Lat crēta 'chalk' Toch A tukri and Toch B kwriye both 'clay' | Found only at eastern and western fringes | | | Earth | JPM |
| *todéh□ | then | Lith tadà 'then' Av taḍa 'then' Skt tadā 'then' | Baltic-Indo-Iranian | | | Pronouns | JPM |
| *tóksom | bow | Grk tókson Mycenaeen to-ko-so-wo-ko 'bow-makers' Scyth taxša- | | | | Weapons | JPM |

Sheet1

| | | | | | | | |
|----------------------------|-----------------------------|---|--|--|---|--------------|-------------|
| *tolko/eh□- | sacrifice, sacrificial meal | Lith talkā 'collective assistance feast after such a work' Rus toloká'afterwork feast' Toch B telki 'sacrifice' | | | | Food & Drink | JPM |
| *tolkʷ- | speak | Olr ad-tluichetar 'gives thanks, rejoices' Lat loquor [<*tloquor] 'speak' OCS tlūkū 'meaning, explanation' | North-West | | | Speech | JPM |
| *tómh□es- *temh□-os- ?? | dark | Lith tamsà Av temah- Skt támas- Lith témti 'become dark' Lat temere 'by chance' from 'in the dark'. | | | | Light & Dark | JPM IIAL |
| *tór | there | OE þæ̃r 'there' (> NE there) Skt tár-hi 'at the time, then' | Germanic and Indic {1} [AL] In spite of the late attestation in the RV, it must be a PIE formation, because there was no model available for an analogy (pace Mavrhofer). | | | Pronouns | JPM IIAL |
| *tóti | so much, many | Lat tot Grk tósos | West Central | | | Pronouns | JPM |
| *tr-no- *trēbs | grass dwelling | Olr treb 'habitation' Lat trabs 'wooden beam' ON þorp 'farm, estate' Lith trobà 'house, building' Grk téramna □ téremna 'house, dwelling' | {1} From root *ster- 'to be rigid' ? | | | Dwelling | IIAL JPM |
| *treg- | gnaw | Grk trōgō 'gnaw [particularly raw fruit] Arm t'urc 'jaw' Toch B tresk- 'chew' | | | | Food & Drink | JPM |
| *tregʰ- | run | Goth þragjan 'run' ON þræll 'servant' Olr traig 'foot' NWels troed 'foot' | North-West | | | Run & Jump | JPM |
| *treh :- | protect | | {1} Indicative forms only in late Vedic. {2} Connection with trā- very uncertain. | Present IV: trāyase [2sg.med.] (RV+) Aorist S: trāsate [3sg.subj.med.] (RV), trādhvam [2pl.impv.med.] (RV), atrāsmahi [1pl.med.] (Br.) {1} Perfect: tatre [3sg.med.] (RV 10.132.07 (bis), BĀU 5.14.4) TA-Ptc.: trātá- (Br.+) | 'there is no other protector except you who is another protector except you?': Skt. na ... trātā vidyate ... tvad anyah (Ep.) — OAv. kē ... θrātā vistō añiiō ... θβat_-cā (Y 50.1) 'protection for the cows': Skt. go-trā- [n] 'cow-shed, barn' (RV+) 'family, lineage' (YV+) — YAv. θrāθrām ... gāuš ... (Yt 19.69) 'to protect men (and) cattle': Skt. trāyantām ... pūruṣaṃ paśúm (AV 8.7.11) — θrāθrāi pasuuā vīraiiā (Yt 13.10) | IIAL | |
| *treio- | 3x triple | | | | | | Beekes |

Sheet1

| | | | | | | | |
|------------|--------------------------|--|--|--|---|----------------------|-------|
| *trem- | shake, tremble (in fear) | Lat tremō 'shake' Lith trīmti 'shake' Alb tremb 'scare, startle, shock' Grk trémō 'shake' Toch A trām- 'be enraged' | | | | Motion | JPM |
| *trep- | turn | Lat trepit 'turns' Grk trépō 'turn' Skt trápate 'becomes perplexed' ?Hittite cognate is tēripp- 'plough' (unless from *drep-) | | | | Motion | JPM |
| *tres- | tremble, fear | MLr tarrach 'fearful' Lat terror 'terror' Lith trišū 'tremble' Grk tréō 'tremble, flee' Av tərəsaiti 'fears' Skt trāsati 'trembles, is afraid' | | | | Values | JPM |
| *tres- | tremble, shake with fear | MLr tarrach 'fearful' Lat terrēre 'terrify', terror 'terror' Lith trišū 'tremble' OCS trēsō 'tremble' Grk tréō 'tremble, flee' Av tərəsaiti 'fears' Skt trāsati 'trembles, is afraid' | | | | Motion | JPM |
| *treu(h□)- | rub away, wear away | NE throw OCS tryjo 'rub' Grk trúō 'rub down' | West Central an enlargement of *ter(i)- | | | Reductive Activities | JPM |
| *treud- | thrust, press | OLr trom 'oppressive' Lat trūdō 'thrust' Goth us-priutan 'bother, persecute' OCS truditi sę 'exert oneself' Alb tredh 'castrate' | West Central | | | Bend and Press | JPM |
| *trewk- | cut | OLr trī | | | | | Celt. |
| *tréyes | 3 three | Lat trēs NE three Lith trys OCS trije [m.], tri [f./nt.] Alb tre [m.], tri [f.] Grk treis Arm erek' Hit tēri- Av θrayō [m./f.], θri [nt.] Skt trāyas [m./f.], trī [nt.] Toch B trai [m.], tarya [f.] | In some languages we have reflections of a very unusual feminine form, *t(r)is(o)res, i.e. OIr teōir, Av tišrō, Skt tistrās. The underlying derivation of *tréyes is generally sought in either *ter 'further', i.e. the number beyond 'two', or from a *ter- 'middle, top, protruding', i.e. the middle finger, assuming one counted on one's Wngers in Proto-Indo-European. Again, the probability that either suggestion is correct is very low. {1} [AL] Due to the introduction of the stem tray- into tridhā, i.e. *trayidhā, which accounts for the fact that this adverb is mostly trisyllabic in the RV. | trāyas [nom.pl.m.] (RV+) tribhyás [dat.abl.pl.m.n.] (RV+) trišú [loc.pl.m.n.] (RV+) trī [nom.acc.pl.n.] (RV, ŠB) tistrás [nom.acc.pl.f.] (RV+), etc. | 'three-footed': Skt. tri-pád- (RV+) — YAv. θri-paða- [n] 'length of three feet' — Gr. τρι-πους [adj], Gr. (Myc.) ti-ri-po-de [nom.du.] — Lat. tri-pēs [adj] — OE Pri-fēte [adj] 'thrice': Skt. trīs [adv] (RV+) — YAv. θriš [adv] — Gr. τρίς [adv] — Lat. ter (OLat. terr) [adv] 'thirteen': Skt. tráyo-daśa [num] (YV+) — MP, NP sēzdah [num], Pash. dyárlas [num] — Lat. trêdecim [num] | Numbers | JPM |

Sheet1

| | | | | | | | |
|---------------|---------------|--|---|---|---|---------|-------------|
| *trh₂-we | overcome | | {1} [AL] The secondary root tur/tūr(v) is probably extracted from the -va-present túrva-. In Vedic, the two zero grades are largely semantically divided, tīr-/tūr- meaning 'to cross', and tur-/tūr- meaning 'to conquer', cf. Lubotsky 1997b: 139, fn. 2. The only exceptions are aptūr- 'crossing the waters', aptūrya- 'crossing of the waters'. {2} [AL] Hajnal 1999: 95 assumes that Skt. tárus- goes back to *tarur (cf. s.v. párvan-) and originally formed one paradigm with the precursor of Av. tauruuan- (< *trH-uan-), attested in the compounds vərəθra-tauruuan-, t_baēšō.tauruuan-. {3} Probably for *tauruuāmā-. | Present I<VA: túrvasi [2sg.act.] (RV), túrvant- [ptc.act.] (RV, YVm) Aorist R: turyāma [1pl.opt.act.] (RV) Perfect: tuturyāt [3sg.opt.act.] (RV) Intensive: ví tartūryante [3pl.med.] (RV), ví-tárturāṇa- [ptc.med.] (RV) Desid: tútūrṣati [3sg.act.] (RV 10.100.12) Abs: vi-tūrya (RV) Inf: turváṇe (RV) TA-Ptc.: a-tūrta-, á-tūrta- (RV) | 'conquering all, everything': Skt. víśva-túr-, víśvá-tūrti- (RV) — YAv. vīspa.tauruuirī- [f] PN — OIran. *Vispa-tar-va- [m] PN 'overcoming Vṛtra': Skt. vṛtra-túr- (RV) — YAv. vərəθra-tauruuan- | | IIAL |
| *trh₂os | through | | | | | | Beekes |
| *tri- | 3 three- | | Used in compounds | | | | Beekes |
| *trī-komt(h□) | 30 thirty | Olr trícho Lat trīgintā Grk triákonta Arm eresun Av θrisa(n)t- Skt triśát Toch B täryäka | | | | Numbers | JPM IIAL |
| *trih□tōn | watery (one?) | Olr tríath 'sea' Greek sea god Trítōn | Highly speculative | ? | | Dieties | JPM |
| *tris | 3x thrice | Lat ter Grk trís Av Triš Skt trīs | | | | Numbers | JPM |
| *tris- | ± vine | SC trs 'grapevine reed' Alb trishë 'offshoot, sapling, seedling' Cretan Grk thriniā 'vineyard' | | | | Plants | JPM |

Sheet1

| | | | | | | | |
|------------------------------------|-----------------|--|---|-------------|--|---------------|----------------------|
| *triy-os *tri-to- | 3rd third | Arm eri 'third' Hit teriyan 'third', tariyanalli- ' third officer') *tri-to- Alb tretë Grk trítos Skt tritá- Toch B trite *t(e)r(e)tiyo- NWels tryddyd Lat tertius NE third Lith trė́cias Rus trétiĭ Av Tritiya- Skt tr̥tīya- | | | | Numbers | JPM Beekes IAL |
| *tr̥nu- | thorn | NE thorn OCS tr̥nŭ 'thorn' Khot tarra- 'grass' Skt tm̐am 'grass' | Finnish tarna 'sedge, grass' is borrowed from some early form of Indo-Iranian | | | Plants (Wild) | JPM |
| *trosdos | thrush | Lat turdus, NEthrush, Lith str̥azdas Rus drozd Grk strou̐thos | | | | Bird | JPM |
| *tr̥sus *tr̥stos | dry | Lat torrus 'dried out' ON þurr 'parched' Av taršu- 'dry' Skt tr̥ṣú- 'greedy, desirous, vehement' | {1} Plr. *tr̥ṣna- instead of *ṛh̥a- is probably due to the influence of *ṣud- 'hunger'. | tr̥sví- [f] | *trs-neh :- 'thirst' | Qualities | JPM IAL |
| *trus- | reed, rush | Lith tr̥(i)ušis 'reed, horsetail' Rus trostí 'reed, cane' Grk thrúon 'reed, rush' | West-Central | | | Plants (Wild) | JPM |
| *tu(e)rk- | cut | | {1} [AL] For the reconstruction see Lubotsky 1994b. | | the shaper fashioned': Skt. tváṣtā ... tatakṣa (RV) — OAv. θβ̥σ̥ | | IAL |
| *tuh□s-ḱm̐tyós | 1000 thousand | NE thousand Lith tūkstantis OCS tyŝęsti | North-West literally a 'swollen (or 'strong') hundred' | | | Numbers | JPM |
| *túh□ *tuh□óm (emphatic) | 2S thou | OIr tū 'thou, thee' Lat tū 'thou', tē 'thee' OE þū 'thou' [> NE thou], þe [> NE thee] Lith tù 'thou', tavė 'thee' OCS ty 'thou', tę 'thee' Alb ti 'thou', ty 'thee' (enclitic tē Doric Grk tú 'thou' Arm du 'thou', z-k'ez (< *twe-) 'thee' Hit zīg 'thou' (with a -g from the first person) Skt tvám thou, tvām 'thee' Toch B tuwe 'thou', ci 'thee' | accusative *téwe, and enclitic *te | | | Pronouns | JPM |
| *tuh□ri-s *tum-b ^h - | cheese mound | | | | | | Beekes Celt. |

Sheet1

| | | | | | | | |
|---------------|--------------------------------------|--|--|---|---|--------------------|-------------|
| *tusskýos | empty | Lith tùščias 'empty, poor' Rus tóščyj 'empty' NPers tuhī 'empty' Skt tucchyā- 'empty' Av taošayeiti 'lets fall, lets go' | | | | Measure & Quantity | JPM |
| *tweis- | shake | Grk seiō 'shake' Av θwaēšah- 'fear, anxiety' Skt tvéṣate 'is excited' | Greek-Indo-Iranian isogloss | | | Motion | JPM |
| *twéks | skin | Skt tvák- 'skin' Hit tuekka- 'self body, person' Grk sák(k)os 'shield' (< skin shield) | | | | Body (Upper) | JPM |
| *twem- | grow, swell | Lat. tumulus | | | | | Celt. |
| *twer- | stir, agitate | Lat trua 'scoop, ladle' OE þweran 'stir, churn, agitate' Grk otrú nō 'drive, agitate' Skt tvárate 'hurry' | | | | Motion | JPM |
| *twer- | take, hold | Lith tveriù 'seize, take hold of', turiù 'have, hold' OCS tvoriti 'shape, make' Grk seirá 'band, bond' | West Central | | | Give & Take | JPM |
| *twóh□r, | curds, curdled milk | Grk tūrós, bouútōros literally 'cow- cheese', i.e. 'butter' Rus toróg 'curds, soft cheese' Av tüiri- 'curdled milk, whey' | | | | Meals | JPM |
| *tworókós | boar | Olr torc Av θβərəsa- | | ? | | Fauna | JPM |
| *tyegw- | give way, pull oneself back | Grk sébomai 'worship, honour', sobéō 'frighten off, drive away' Skt tyájati 'stands back from something' | Greek-Indo-Iranian isogloss | | | Sacred | JPM |
| *u | interrogative particle (maybe which) | | | | | | Beekes |
| *u(e)ih□-(o)n | wine | | very very possibly not IE | | | | Beekes |
| *ūd | upward, out (from under) | NE out dialectal Grk hu- 'on' Skt ud- 'out' | | | | Position | JPM |
| *ud- | up, out | | {1} Ir. us, uz has been generalized from the position before dentals. | | with raised arms': Skt. úd-bāhu- [adj] (ŚB+) — YAv. uz-bāzu- [ε] IIAL | | |
| *ud-tero- | higher | | | | | | IIAL |
| *ud-tmh□o- | highest | | | | | | IIAL |
| *udero- | abdomen, stomach | Lat uterus 'abdomen, womb' Grk húderos 'dropsy' [<'swollen stomach'] Av udara- 'stomach' Skt udára- 'stomach' | Derives from *ud 'out' | | | Organs | JPM IIAL |

Sheet1

| | | | | | | | |
|------------------------------------|------------------|---|---|--|--|---------------|-----------------------|
| *udróš | otter | Lat lutra NE otter Lith ūdra Rus výdra Grk énudris Av udra- Skt udrá | formed from the word for 'water', * | | | Fauna | JPM IIAL |
| *udsk ^w eh ₁ | upwards | | {1} [AL] For the reconstruction see Lubotsky 2001a. | | | | IIAL |
| *udstero- | abdomen, stomach | Grk hustérā 'womb', hústros 'stomach' Toch B wāstarye 'liver') | Derives from *ud 'out' | | | Organs | JPM |
| *uēnto- | wind | | | | | | Beekes IIAL |
| *uh ₂ -no- | wane | | | | | | |
| *uk ^(w) sēn- | ox | Olr oss 'stag, cow' NWels ych 'ox' NE ox Av uxšan- 'bull' Skt ukṣān- 'bull' Toch B okso 'ox' | {1} [AL] aukṣā- [m] (AV+) is the name of a fragrance (cf. Griffiths - Lubotsky 1999 : 481). In spite of the common opinion, its etymological connection with the word for 'bull' is very uncertain. | | | Fauna | JPM Beekes IIAL |
| *ul- | howl, hoot | Lat uluc(c)us '[screech] owl' Skt úlūka- 'owl' Grk huláō 'howl' Lat ululāre 'howl' Skt ulūlū- 'ululating' Lith ulūlōti 'shout hello' | | | | Animal Noises | JPM |
| *ulh□-mi- | wave | | | | | | IIAL |
| *ulu- | owl | Lat uluc(c)us Skt úlūka- | | | | Bird | JPM |
| *unsi- | bladder | | {1} The Latin and Skt. words can be related if we assume that PIE *unsi- has acquired a secondary suffix -ti- in Sanskrit. | | | | IIAL |
| *upo | under | | | | | | Beekes |
| *ured | become weak | | {1} Intransitive ('they became weak') or transitive-causative ('they made weak') (see Gotō 1987: 301f.). {2} The connection with the Greek word seems very uncertain as well as other cognates mentioned by Pokorný. | Present I: ávradanta [3pl.inj.med.] (RV 02.024.03) {1} | | | IIAL |
| *ureik | turn (around) | | | | | | IIAL |
| *urs-ni- | ram | | {1} [AL] Cf. Gr. ἀρνεῖός [m] 'ram' ? | +vr̥ṣṇyā [instr.sg.] AVP 5.28.8 | | | IIAL |
| *ursn-b ^h o- | bull | | | | | | IIAL |
| *usme | you (pl.) | | {1} Contamination of *uśma- with *iu ° (yūyām). {2} The form xśma- comes from *uśma- with an unexplained loss of the initial *u-. | acc. yuṣmān (RV+), abl. yuṣmāt (RV+) gen. yuṣmākam (RV+, also yuṣmāka in RV 07.059.09 and 07.059.10), etc. yuṣmé [dat.gen.loc.] (RV) | | | IIAL |

Sheet1

| | | | | | | | |
|------------------------------------|--------------------------------|--|--|--|--|----------------------|----------------------|
| *usr- *uks-ēn | aurochs | OE ūr 'aurochs' OHG ūro 𐌺 ūrochso 'aurochs' Skt usrā- 'bull' usrā- 'cow' Pashto ūš- 'camel' | Note that the meaning shifted in Indo-Iranian ? | | | Fauna | JPM Beekes |
| *w(e)h□stos | empty | OIr fās 'empty' Lat vastus 'empty, unoccupied' NE waste | North-West may be an enlargement of the PIE *h ₁ eu(h□)- 'empty' | | | Measure & Quantity | JPM |
| *w(e)ik- *w(e)rsēn | village, seat of tribe male | Lat verrēs 'boar' Latv vē' rsis 'ox' Av varəšni 'ram' (also 'male') Toch B kau□rše 'bull'. | Indicates the 'male as sire' In Avestan *ršēn is added to words to create a special term for the (adult) male of the species, e.g. aspa-rəšan- 'stallion' or gau-arəšan- 'bull', while both in Sanskrit and Tocharian it is *wersēn that is so used, e.g. Skt go-vr̥ṣa- 'bull' and Toch B kau□rše 'bull' {1} [AL] For the middle verb vr̥ṣāy ° (RV+), often translated 'to be horny, act like a bull' see varṣ [2]. {2} [AL] The connection with the verb varṣ [1] 'to rain' seems semantically not compelling and phonologically extremely difficult in view of Greek forms. | nom.sg. vr̥ṣā, acc.s having virile horses': Skt. vr̥ṣaṇ-aśvā | | Family | Beekes JPM IAL |
| *w(n)nákts | leader, lord | Grk (w)ánaks 'ruler, lord, prince' Toch A nātāk 'lord' | | | | Social Organization | JPM |
| *w(o)h□stu- *wad ^h - | settlement wade | Lat vādō 'ford a river' NE wade Lat vadum 'ford' OE gewæd 'ford' | North-West | | | Swim | IAL JPM |
| *wa ḡ - | split | Grk ágñūmai 'break apart, snap, crush' Hit wāki 'bites' Toch AB wāk- 'split open, separate but remain attached bloom' Lag vāgīna 'sheath, scabbard' Skt vājra-, the 'club' or 'splitter' of the god Indra. | | | | Reductive Activities | JPM |
| *wá ḡ ros | cudgel | Av vazra- 'mace, cudgel' | The latter gives us the mythical vājra- 'cudgel' of the Indic god Indra where it also indicates the 'thunderbolt'. In Greek it occurs in the personal name of Meleāgros which means 'carina for the cudgel'. | | | Weapons | JPM |
| *wai | alas; woe | OIr fae Lat vae OE wā Lith va Grk ouaí Av vayōi NE woe Alb vaj 'lament' Arm vay 'woe, misfortune' | | | | Human Sounds | JPM Beekes |

Sheet1

| | | | | | | | |
|---------------------------------------|------------------------------------|---|--|---|--|---------------------|---------------|
| *wailos | wolf | OIr fáel 'wolf' Arm gayl 'wolf' | possible from the 'wail' of the wolf | | | Fauna | JPM |
| *wak- | be empty | Lat vacō 'am empty' Hit wakk- 'fail, be lacking' | | | | Measure & Quantity | JPM |
| *wal- | be strong, rule | Lat valeō 'am strong' OE wieldan 'govern' [> NE wield] Lith valdy'ti 'rule' OCS vladō 'rule' Toch B walo 'king' | | | | Social Organization | JPM |
| *wálsos | stake | Lat vallus 'post, stake' NE wale 'stripe left on the skin by a blow' Skt vala- 'pole, beam' | | | | Construction | JPM |
| *wápōs | vapour, steam | Lat vapor 'vapour, steam' Skt vāṣpá- □ bāṣpá- 'vapour, steam tears' | | | | Air | JPM |
| *we(h□) | or | | {1} [AL] The usual reconstructions *uē, uō seem less probable, because lengthening in an enclitic particle is hardly feasible. | | or not': Skt. ná vā (RV 10.029.01, AVŚ 1.32.2, etc.) — YAv. na | IIAL | |
| *we/ob ^h el- | weevil, beetle | NE weevil Lith vābalas Rus veblica '(intestinal) worm' | | | | Bug | JPM |
| *we/oh□r- | water | Luv. wār(sa) 'water' Av. vār 'rain' | {1} [AL] ToA wār, ToB war 'water' does not belong here, but rather reflects *udr-. {2} [AL] It is even conceivable that PIE *ueh₁r derives from PIE *uedr, so that originally this paradigm was not suppletive. | In the RV, the word is often disyllabic /vaH-ar/ < /*uaH-r/. It is only attested in the nom.sg. and may form a suppletive paradigm with udán-. {2} | | Water | JPM IIAL |
| *we/oik'- *we/ond ^h so- | place of habitation facial hair | Mlr fēs 'lip beard pubic hair' OPrus wanso 'Wrst beard' OCS vōsŭ 'mustache' Khot vatca 'facial hair' | | | | Hair | Beekes JPM |
| *we/osno- *wēben | price cutting weapon, knife | NE weapon Toch AB yepe 'weapon, knife' | | | | Weapons | Beekes JPM |

Sheet1

| | | | | | | | |
|-----------------------|--------------------|--|---|---|--|-----------------|--------|
| *wed- | make wet | | {1} [AL] Full grade *(H)aud- must be secondary in Indo-Iranian. | Present VII: unátti [3sg.act.] (RV+) undánti [3pl.act.] (RV+) undánt- [ptc.act.] (RV+) Perfect: ūdur [3pl.act.] (AV) Passive: udyate [3sg.] (RV) TA-Ptc.: utta- (Br.) | | | IIAL |
| *wed- | raise ones voice | OHG far-wāzan 'deny, disavow' Lith vadinù 'call, name' OCS vaditi 'accuse' dialectal Grk wodáō 'lament' Skt vádati 'speaks, says raises one's voice, sings' | | | | Speech | JPM |
| *wed ^h | bride, young woman | | | | | | IIAL |
| *wed ^h - | marry, carry off | | | | | | Beekes |
| *wed ^h - | push, strike | Olr fáiscid 'presses' but fodb 'weapon' Lith vedegà 'a kind of axe' Grk éthei 'destroys' Hit wezz- 'strike, urge' Skt vadh- 'strikes, pushes, slays' Toch B wāt- 'fight' *wed ^h ris 'castrated' Grk ethris Skt vādhri- | | | | Conflict | JPM |
| *wéd ^h ris | castrated | Grk ethris 'eunuch' Skt vādhri- 'castrated' NE wether | Has a more basic meaning 'strike' in Luvian so it is not entirely certain that 'castration' was the meaning in Proto-Indo-European. | | | Health&Sickness | JPM |
| *wedmo/eha- | bride-price | OE witumo OCS věno Grk hédnon [< *wedmon] | The price paid by the groom's family to the bride's to compensate the latter for the loss of a worker | | | Marriage | JPM |
| *wedns | water (gen) | | heteroclitic? | | | | Beekes |
| *weg- | plait, weave | Olr figid 'weaves' Lat vēlum 'sail, cloth' NE wick Skt vāgurā- 'net for catching animals' | Skt vāgurā suggests something plaited rather than woven. | | | Textiles | JPM |
| *we ġ - | strong | Lat vegeō 'enliven, stir up' Skt vāja- 'strength' | | | | Health&Sickness | JPM |

Sheet1

| | | | | | | | |
|---|---------------------------------|---|--|---|--|-----------|-----|
| *we ḡ ^h - | bear, carry also ride drive? | Lat vehō 'bear' NE weigh (as in 'weigh anchor') Lith vežù 'drive' OCS vezq 'drive' Alb vjēdh 'steal' Grk (w)ekhéto 'he should bring' Skt váhati 'carries' | | Present I: váhati [3sg.act.] (RV+), váhate [3sg.med.] (RV+) Aorist S: vakṣat [3sg.subj.act.] (RV+), ávāt [3sg.act.] (RV 10.015.12) Aorist SIS: vākṣīt [3sg.inj.act.] (AV+) SI-impv: vakṣi (RV-YVm), later vākṣva [med.] (VS+) Aorist R: vōlhām [2du.impv.act.] (RV) uhīta [3sg.opt.med.] (RV) Perfect: uvāha [3sg.act.] (RV+) ūhire [3pl.med.] (RV) Passive: uhyāte [3sg.] (RV+) Intensive: ūhyāte (?) [3sg.subj.med.] (RV 01.120.11) vanīvahy° (ŚB+) Fut: vakṣy° (AV+) TA-Ptc.: ūḡhā- (RV+) Inf: vōlhum, " | | Convey | JPM |
| *weg ^h - *we ḡ ^h - | shake, set in motion | Lat vexāre 'shake, vex' Goth wagjan 'shake' Grk gaiē-okhos 'earth-shaking' Toch wāsk-/wāsk- 'move, budge, have motion [intr.] move [tr.]' | | | | Movement | JPM |
| *we ḡ ^h itlom | vehicle | Lat vehiculum, Skt vahītram | | | | Transport | JPM |
| *we ḡ ^h nos | wagon | Olr fēn Toch B yakne 'way, manner' OE wægn > NE wain *we ḡ ^h itlom Lat vehiculum Skt vahītram OCS vozū 'wagon' Grk ókhos 'chariot' Mycenaean wo-ka 'chariot' | from the verbal root *we ḡ ^h - 'ride in a vehicle' and the word is found in the e-grade in Celtic and Tocharian | | | Transport | JPM |

Sheet1

| | | | | | | |
|---------------------------------------|------------------------|--|--|-----------------------|----------------------|------------|
| *we ġ ^h os | way, path | Lat via 'way, road' Latv veža 'track' | North-West From *we ġ ^h - 'move' | | Roads | JPM |
| *weg ^w - | wet | Lat ūvidus 'wet' ON vōkr 'wet, moist' Grk hugrós 'liquid, fluid' | West Central | | Qualities | JPM |
| *weg ^{wh} - | speak solemnly | Lat voveō 'vow, promise solemnly, consecrate' Skt vāghát- 'sacrificer, supplicant, institutor of a sacrifice' Arm gog 'say' | | | Formal Speech & Song | JPM |
| *weh ₁ ros | true | Olr fir Lat vērus OHG wār OCS věru 'belief' | North-West | | Values | JPM |
| *weh ₂ t-eh ₁ - | poet, seer, song, fury | | meaning unclear | | | Beekes |
| *weh ₂ uot | so long as | | | | | Beekes |
| *weh□b- | cry, scream | NE weep Lith vōbyti 'summon at court' OCS vabljo 'cry' | North-West | | Speech | JPM |
| *weh□t- | (suppurating) wound | Lith votis 'ulcer, abscess, boil' Grk ōteílē 'wound' | | | Health&Sickness | JPM |
| *weh□p- | body of water | Lith ūpė 'river' OCS vapa 'lake' Hit wappu- 'wadi, river bank' Skt vāpī- 'large pond' | | | Water | JPM |
| *wéi *weyóm (emphatic) | 1P we | Olr nī 'we, us' Lat nōs 'we, us' OE wē 'we' Lith mēs 'we' OCS my 'we' Alb ne (< *nōs) 'we, us' Grk hēmeīs 'we' Arm mek' 'we' Hit wēs 'we' Skt vayám 'we' Toch B wes 'we, us' | Here again there have been shifts from other forms and influences from different numbers seen, for example, in the tendency of Baltic, Slavic, and Armenian to replace the initial *n- by m-, either influenced by the first person singular pronoun or because of the influence of the first person plural verbal endings in *-m-, or both. | obl. asmá-, encl. nas | Pronouns | JPM IAL |
| *wei(h ₁)- | plait, wattle twist | Lat vieō 'bind, interweave' Skt váyati 'weaves' NE withy Lat vītis 'vine' ON veggr 'wall' | | | Textiles | JPM |

Sheet1

| | | | | | | | |
|-----------|----------|---|--|--|--|--------|-------------|
| *wei(h□)- | go after | Lat vīs 'thou wantest' Lith vejù 'chase, drive, pursue' Grk hiēmai 'strive' Skt véti 'follows, strives' Toch B wāyā- 'will drive, lead' | {1} [AL] For v(a)iiemi (Yt 15.43) and apa ...v(a)iiēiti (Yt 8.23) see Kellens 1984: 89. | Present II: véti [3sg.act.] (RV+), viyānti [3pl.act.] (RV+), véh [2sg.inj.act.] (RV), vayati [3sg.subj.act.] (RV), vīhī [2sg.impv.act.] (RV next to irregular vihī and 2pl. vitā) Aorist S: véṣat [3sg.subj.] (RV) SI-impv: véṣi (RV) Perfect: vivāya [3pl.act.] (RV) vivye [3sg.med.] (RV) Intensive: veveti [3sg.act.] (RV), vevīyate [3sg.med.] (RV) TA-Ptc.: vītā- (RV+) | | Travel | JPM IIAL |
|-----------|----------|---|--|--|--|--------|-------------|

Sheet1

| | | | | | | | |
|----------|-----------------------|--|--|--|---|---------------------|-------------|
| *weid- | see, know (as a fact) | Lat videō, NE wit, Grk oīda, | {1} Roots ved [1] and [2] are etymologically identical, but they function as separate roots already in Pllr. | Present VII>VI: vindāti [3sg.act.], vindāte [3sg.med.] (RV+) Aorist A: vidāt [3sg.inj.act.] (RV+), vidāt [3sg.subj.act.] (RV+) Aorist S: avitsi [1sg.med.] (RV) Perfect: vivēda [3sg.act.], vividē [3sg.med.] (RV+) Passive: vidyāte [3sg.] (RV+) Aorist mediopass: avedi [3sg.], (sam-) vidānā- [ptc.] (RV) Intensive: vi- vévidat- [ptc.act.] (RV), vévidāna- [ptc.med.] (RV) TA-Ptc.: vittā- 'found' (RV+) Inf: vidé, ā-víde (RV) | 'looking for ... finds': Skt. icchán ... avidat (RV 10.005.05) — YAv. isəmnō ... vīnasti (V 7.79) 'to find the way/place': Skt. gātúm ... vividrīre (RV 02.021.05) — YAv. gātuuō vīndan (V 2.8) 'to find the cow(s)': Skt. gā ávīndan (RV 01.062.02) — OAv. gaṃ vidat_ (Y 51.5), YAv. vidat_gu- [m] PN (Yt 13.127) 'to acquire fame': Skt. śrávo vivide (RV 04.026.05) — YAv. vīdisrauuh- [m] PN (Yt 13.119) | Knowledge & Thought | JPM IIAL |
| *weides- | what is seen | Mlr fīad 'face to face' NE -wise as in 'lengthwise' Lith véidas 'face' OCS vidŭ 'appearance' Grk eiudos 'appearance' Skt védas- 'knowledge' | | | | Knowledge & Thought | JPM |
| *weig/k- | turn, yield | ON víkja □ víkva 'turn' OE wīcan 'yield' Grk eíko 'yield' Av vaēg- 'throw' Toch AB wik- 'disappear' | | | | Motion | JPM |

Sheet1

| | | | | | | | |
|-------------|-------------------------|---|--|--|--|-----------------|-------------|
| *weih | wrap, envelop | | {1} [AL] The meaning of prá vīyáte is 'to be covered = impregnated'. {2} [AL] The root actually always appears in the zero grade in Ilr., the present reflecting *uiH-aia-. | Present AYA: vyáyati [3sg.act.] (RV+) Aorist A: ávyata [2pl.act.] (RV 01.166.04), avyata [3sg.med.] (RV) Perfect: -viviyathur [2du.act.] (RV 06.072.05, Ep.), viviyé [3sg.med.] (RV) Passive: vīyáte [3sg.] (AV+) {1} TA-Ptc.: vītá- 'veiled' (RV+) | | | IIAL |
| *wéih□(e)s- | strength, vitality | Lat vīs 'power' Grk ís 'power' Skt váyas- 'vitality, growth' | {1} Relation to vayi is uncertain. | | | Health&Sickness | JPM IIAL |
| *weih□s | vital force strength | Lat vīs Grk ís | A 'vital force' and has been linked with one of the words for 'man', *wih□rós | | | Conflict | JPM |
| *weik- | appear | Lith vỹkti 'come, go' Grk eíke 'it appeared good' Av visaiti 'presents itself' Skt viśati 'enters' OE wīh □ wēoh 'image, idol' Grk eikōn 'image, likeness' | | | | Sight | JPM |
| *weik- | consecrate | Lat victima 'sacrificial victim' NE witch Goth weihan 'consecrate' NHG Weihnachten 'Christmas Eve' Skt vinákti 'select out'. | | | | Sacred | JPM |
| *weik- | fight | Olr fichid 'fights' Lat vincō 'conquer' OE gewegan 'fight' Lith apveikiù 'defeat' Rus vek 'force' | North-West | | | Conflict | JPM |

Sheet1

| | | | | | | | |
|--------|------------------------|--|---|--|-------------------|----------|------|
| *weik- | settle down | | | Present IV: višanti [3pl.act.] (RV+), ávišat [3sg.impf.act.] (RV+), višánte [3pl.med.] (RV+) Aorist R: ávišran [3pl.med.] (RV 08.027.12) Aorist S: ávikšmahī [1pl.med.] (RV) Aorist IS: vešīt [3sg.inj.act.] (RV 08.060.20) Perfect: vivéša [3sg.act.] (RV+), áviveštīh [2sg.ppf.act.] (RV 03.032.10), vivišre [3pl.med.] (RV 08.101.14+) Fut: vekšy° (Br.+) Caus: vešáy° (RV+) TA-Ptc.: ūvišta- (RV+) Inf: ā-viśam (RV 02.024.06) | *weik-mn- 'abode' | | IIAL |
| *weip- | set in motion, agitate | Av vip- 'throw, ejaculate' Skt vépati 'trembles' Toch B wip- 'shake' | Indo-Iranian-Tocharian isogloss | | | Movement | JPM |
| *weip- | swing, shake | | {1} For the meaning see Kümmel 2000: 498. | Present I: vépate [3sg.med.] (RV) Present AYA: vipáy° 'to become inspired' (RV) Aorist R: vipāná- [ptc.med.] (RV) Perfect: vivipre [3pl.med.] (RV 03.032.04) {1} Caus: vepáy° 'to shake, agitate' (RV+) Aorist RED: avivipat [3sg.act.] (RV) | | | IIAL |

Sheet1

| | | | | | | | |
|------------------|--------------------|--|---|---|--|----------------|-------------|
| *weip- *weib- | turn | Lat vibrāre NE wave, wipe Skt vépate | | | | Motion | JPM |
| *weis- | ooze out | Skt aveṣan 'they flowed' NE ooze a number of European river names, e.g. Weser, Vistula | it underlies the noun *wis- 'poison' | | | Liquid Motions | JPM |
| *weis- | twist, wind around | NE ware (seaweed) Lith vy' styti 'swaddle' Skt vēṣa- 'dress' Rus víkh(o)rí 'whirlwind' Arm gi 'juniper' | | | | Motion | JPM |
| *weit- | willow | Olr fēith 'some kind of twining plant' Lat vītis 'vine' NE withy Lith vytis 'willow' Rus vítina 'branch' Grk ἰτέα 'willow' Av vaēiti- 'willow' Skt veta- 'reed' | | | | Trees | JPM |
| *wek'- | wish, want | Hit wēkmi 'I wish' Av vasəmi 'I wish' Skt vásmi 'I wish' Grk hekōn 'willingly' | {1} [AL] Further nonce forms are Present III: vavákxi [2sg.] 08.045.06, vivaṣti [3sg.] 07.016.11, and Present I: ávaṣat [3sg.impf.] 02.022.01.{2} [AL] uśanā [adv] 'eagerly' (RV) most probably does not exist, cf. Jamison 2007: 156f. See s.v. uśanā-. {3} [AL] According to Kümmel 2000: 479f., these perfect forms rather belong to vás. | Present II: váṣti [3sg.act.] (RV+) uśmāsi [1pl.act.] (RV+) 02.031.06 irregularly śmasi) uśánt- [ptc.act.] (RV+) váśas [2sg.subj.act.] (RV) medial forms are rare: uśánāḥ [ptc.med.] and nonce uśámānaḥ {1} Perfect: vāvaśúr [3pl.act.] (RV), vāvaše [3sg.med.] (RV) {3} | | Desire | JPM IIAL |

Sheet1

| | | | | | | | |
|------------------------|----------------------|--|---|---|--|---------|-------------|
| *wek ^w - | speak | <p>Olr focal 'word'</p> <p>Lat vocō 'call'</p> <p>OHG giwahanem 'recall'</p> <p>OPrus wackitwei 'entice'</p> <p>Grk eiupon 'spoke'</p> <p>Arm gočem 'call'</p> <p>Av vak- 'say'</p> <p>Skt vivakti 'speaks, says'</p> <p>Toch B wesk- 'speak, say'</p> | <p>O-grade present formation *wok^wti</p> <p>{1} [AL] The RV perfect forms vavāca [3sg.act.] and vavakṣé [2sg.med.] are nonce (cf. Kümmel 2000: 441ff.).</p> <p>{2} [AL] Cf. already vivakṣú- [adj] (AV)</p> <p>RV vivakṣase is unclear, for a discussion see Heenen 2006: 219.</p> | <p>Present III: vivakti [3sg.act.] (RV+)</p> <p>Aorist RED: ávocat [3sg.act.] (RV+), vócat [3sg.subj./inj.act.] (RV), vóce [1sg.subj.med.] (RV)</p> <p>Aorist mediopass: avāci [3sg.] (RV+)</p> <p>Perfect: uvāca [3sg.act.] (RV+), ūcúh [3pl.act.] (RV+), ūciṣe [2sg.med.] (RV+)</p> <p>{1}</p> <p>Passive: ucyáte [3sg.] (RV+)</p> <p>Fut: vakṣyá^o (RV+)</p> <p>Intensive: ávāvacīt [3sg.impf.act.] (RV)</p> <p>Caus: vācay^o (Br.+)</p> <p>Desid: vivakṣant- [ptc.act.] (VS+)</p> <p>TA-Ptc.: uktá- (RV+)</p> <p>Inf: vāktave (RV), pra-vāce (RV)</p> | to say with the tongue': Skt. uváktha | Speech | JPM IIAL |
| *wek ^w - | speak utter forth | <p>Grk. v. ēpēn, n. épos</p> <p>Skt. vacas- 'speech, pronouncement', ukhtam 'hymn'</p> <p>Av. vaca-tašti- fashioning of an utterance</p> <p>Toch A wāktasurñe 'eulogy'</p> <p>OHG giwahan 'mention, tell of'</p> <p>giwaht 'fame'</p> | <p>Also, Olr anocht 'not (to be) uttered cf. Skt anukta.</p> | | | Poetics | JPM |
| *wek ^w -es- | word, speech | | | | 'sweet speech': Skt. vācaḥ svādhōḥ svādīyah (RV 01.114.06) — Gr. ἡδυεπής 'to pronounce a speech': Skt. ávocāma ... vācaḥ (RV 01.078.05) — Gr. ἔπος εἰπεῖν 'well-spoken word': Skt. sūktá-vācas (RV) — YAv. hūxtəm vacō | | IIAL |

Sheet1

| | | | | | | | |
|---|------------------------|--|--------------|--|--|----------------------|---------------|
| *wek ^w ésh ₂ *wel- | song die | ON Valhalla 'hall of the dead' ON valr 'one who dies on the battlefield' Latv velis 'spirit of the dead' Czech valěti 'fight, make war' Toch A wāl- 'die', walu 'dead' | | | | Health&Sickness | Beekes JPM |
| *wel- | grass | NWels gwellt 'grass' OPrus woltis 'head of grain' Hit wellu(want)- 'grass' | | | | Plants | JPM |
| *wel- | see | NWels gweled 'see' Toch B yel- 'examine, investigate' Lat voltus 'facial expression, appearance, form' OE wuldor 'fame' | | | | Sight | JPM |
| *wel- | turn, wind, roll | Lat volvō Grk eilēō Skt válati | | | | Motion | JPM |
| *wel- | warm, heat | NE well as 'well up' [from **boil] Alb valē 'heat, boiling' Arm gol 'heat' | West Central | | | Qualities | JPM |
| *wel- | wish, want | MWels gwell 'better' Lat volō 'want' NE will Lith pa-vélmi 'wish' OCS veljō 'wish' Arm geṭ 'beauty' Av var- 'choose, wish' Skt vṛṇīṭé 'chooses' | | | | Desire | JPM |
| *wel(h,)- | strike, tear at | Hit walh- 'strike, attack' as well as 'pluck, tear' Lat vellō 'strike' H.Luvian wal(a)- Toch A wāl- 'die' ON valr (whence we have both Valhalla and Valkyrie) | | | | Reductive Activities | JPM |
| *weld- | crush, grind, wear out | NWels gwlydd 'mild, soft, tender' NEwilt Toch B wālts- 'crush, grind' | | | | Reductive Activities | JPM |

Sheet1

| | | | | | | | |
|--------------------------|------------------|--|--|--|---|--|------|
| *welg- | move up and down | | <p>{1} [AL] On semantic grounds, it is difficult to connect valḡu- [adj] 'handsome, beautiful' (RV+) with this verb (< 'lively'?).</p> <p>{2} [AL] The appurtenance of Old Khotanese valj- [verb] 'to go astray, be deceived' (< *ʋarǰa- ?) is very uncertain.</p> <p>{3} [AL] The non-palatal -g- in this thematic present is unique and in need of explanation. AiGr. I: 141 points out that -lc- and -lj- do not occur in Sanskrit, which is not really surprising because the cluster -lg- is extremely rare. Jasanoff Heth. und Idg. (ed. Neu / Meid) 85 (XXX) assumes an original athematic present with o- grade in the root, which, considering the semantics (intensive), seems attractive, but the phonological problem remains.</p> | <p>Present I: válgati [3sg.act.] (AV+) Caus: abhi-valgay (Sū.)</p> | | | IIAL |
| *welh . | want, wish | | <p>{1} [AL] 2du.act. avṛñtam (RV 01.180.04) is nonce.</p> <p>{2} [AL] The sigmatic forms 3pl. avṛṣata (AV+), 1sg. avṛṣi (Up.), etc. are secondary.</p> <p>{3} [AL] The añit forms of this root in Sanskrit are of secondary origin. The metrics of the RV clearly shows that the root was still set in this text: vavṛsé and vavṛmáhe must be scanned /vavūrṣe/ and /vavūrmahe/, respectively avṛi must be trisyllabic /avuri/ for 3sg. vṛta and for the TA-Ptc. vṛtā- we can read /(v)ūrta/, cf. Kümmel 2000: 459.</p> | <p>Present IX (med.) {1}: vṛñté [3sg.med.] (RV+) Aorist R: avri /avuri/ [1sg.med.] (RV 04.055.05) vṛta [3sg.inj.med.] (RV+) {2} váras [2sg.conj.act.] (RV) vurita [3sg.opt.med.] (RV, with restored v-), urāṇā- [ptc.med.] (RV) Perfect: vavṛsé [2sg.med.] (RV), vavṛmáhe [1pl.med.] (RV) TA-Ptc.: vṛtā- (RV+) {3}</p> | <p>'choice share': Skt. váreṇyam bhāgām (RV 10.035.07) — OAv. vairīm bāgəm — Elam.-Iran. *varya-bāga- PN</p> <p>'to make a (right) choice': Skt. pravarā- [n] 'choice of the priest' (KS+) — OAv. frauuaši- 'guardian spirit' (< *ʋār-ti-) 'to choose for praising': Skt. prāśastaye ... avṛñta (RV 09.070.06) — OAv. sṣastrāi vərənē (Y 46.3)</p> | | IIAL |
| *welh .b ^h r- | pull smbds leg | | <p>{1} [AL] Considering the form of the root, this must be an original compound.</p> | <p>Present I: úpa-valhāmasi [1pl.act.] (VS 23.51), úpa-valhante [3pl.med.] (ŚB 12.4.2.8), upa-válheta [3sg.opt.med.] (ŚB 11.4.1.9) TA-Ptc.: pra-valhita- (GB+)</p> | | | IIAL |

Sheet1

| | | | | | | | |
|------------------|-----------------|---|--|--|--|-----------------|------|
| *weliko/eh□- | willow | NE NE willow Grk elikē 'willow' | | | | Trees | JPM |
| *welk- *welg- | wet | Olr folc 'heavy rain' OHG welk 'wet, moist, mild' Lith vilgau 'moisten' OCS vlaga 'moisture juice of plants' | North-West | | | Qualities | JPM |
| *wélsu- | meadow, pasture | Hit wēllu- Grk Elysian ēlúsios | Derives from *wel- 'grass' | | | Plants | JPM |
| *welutrom | case | Lat involūcrum 'case' Grk élutron 'case' Skt varútra- 'cloak' | As a derivative from ?*wel- 'wind, turn', it may have been independently formed in some or all the languages | | | Containers | JPM |
| *wemh□ | vomit | | | Present II: avamīt [3sg.impf.act.] (RV+), váman [3pl.subj.] (RV 10.108.08) Perfect: uvāma, vavāma [3sg.act.] (ŚB/ŚBK) TA-Ptc.: abhí- vānta- 'spit out' (MS+) | | | IIAL |
| *wémh□mi | spew, vomit | Lat vomō Lith vémti Grk eméō Av vam- Skt vámiti | | | | Vital Functions | JPM |

Sheet1

| | | | | | | | |
|----------------------|-----------------|--|---|--|--|----------|------|
| *wen | get, win | | <p>{1} [AL] RV 09.072.08 vasīmahī with secondary loss of the nasal.</p> <p>{2} The set-forms are analogical after the root sani. The same is probably valid for class V present, as opposed to Avestan thematic one.</p> <p>{3} [AL] As demonstrated by Kümmel 2000: 447ff., perfect forms with long reduplication belong to vani 'to love'.</p> <p>{4} [AL] vanij- [m] 'merchant' (RV+) can hardly be related to van-.</p> | <p>Present V: vanōti [3sg.act.] (RV+), vanute [3sg.med.] (RV+)</p> <p>Aorist R: vānāva [1du.subj.act.] (RV), vanate [3sg.subj.med.] (RV), vanémā [1pl.opt.] (them.) (RV), vanemahi [1pl.opt.med.] (them.) (RV)</p> <p>Aorist S: vāṃsi [1sg.inj.med.] (RV), vāṃsat [3sg.subj.act.] (RV), vāṃsate [3sg.subj.med.] (RV), vāṃsīmāhi [1pl.opt.med.] (RV) {1} vāṃsva [2sg.impv.med.] (RV)</p> <p>Aorist IS: vaniṣīṣta [3sg.opt.med.] (nonce) (RV)</p> <p>Perfect: vavanmā [1pl.act.] (RV), vavanvāms- [ptc.act.] 'winner' (RV) {3} vavné [3sg.med.] (RV)</p> | | | IIAL |
| *wen- | strike, wound | <p>NWels gweint 'bored through'</p> <p>Hit wen- 'copulate with' suggest a piercing motion</p> <p>NE wound</p> <p>Arm vandem 'destroy'</p> | | | | Conflict | JPM |
| *wend ^h - | (a single) hair | <p>Mlr Wnd 'a single hair'</p> <p>OHG wint-brāwa 'eyelash'</p> <p>Grk ionthos 'hair root, young beard acne'</p> | | | | Hair | JPM |
| *wend ^h - | wind, twist | <p>NE wind</p> <p>Grk kánnathron 'basketcarriage'</p> <p>Skt vandhúra- 'wicker carriage'</p> <p>Umbrian pre-uendu 'turn'</p> <p>Arm gind 'ring'</p> <p>Toch AB wānt- '+cover, envelop'</p> | nominal forms that suggest any object produced by twisting flexible branches or osiers | | *wend ^h -ur- 'wickerwork' ? | Motion | JPM |

Sheet1

| | | | | | | | |
|-------------------------|-----------------------------|---|--|---|--|----------------|------|
| *weng- | bend | NE wink Lith vėngti 'try to avoid' Alb vang 'felloe' Skt vāṇ gati 'limps' | | | | Bend and Press | JPM |
| *wenh□- | desire, strive to obtain | ON vinr 'friend' Av vantā 'wife', across 'lust' Lat venus Skt vānas- Hit wen- 'copulate' Toch B wīna 'pleasure' An *-sk- suffixed form gives NE wish Skt vāñchati 'wishes, desires' | | | | Desire | JPM |
| *wenk- | curve | | {1} [AL] For a recent discussion of this form see Kulikov 2001 s.v. | Present: váñcati [3sg.act.] (RV- Kh., AV+) Perfect: vāvakre [3pl.med.] (RV) Passive: vacyáte [3sg.med.] (RV) {1} | | | IIAL |
| *wenVst(r)- | (ab)omasum | Lat venter 'belly' OHG wenist 'belly, omasum' Grk ěnustron 'abomasum' Skt vaniṣṭhú- 'part of the entrails of a sacrificial animal' | | | | Organs | JPM |
| *wer- | boil, cook | Lith vėrdu 'cook, boil' OCS vīrijǫ 'cook, boil' Hit war- 'burn' Toch A wrātk- 'cook' | | | | Food Prep | JPM |
| *wer- | crow | Lith vārna Rus voróna Toch B wraufña | | | | Bird | JPM |
| *wer- | find | Arm gerem 'take prisoner' Lith su-resti 'catch' | West Central | | | Give & Take | JPM |
| *wer- | perceive, give attention to | Lat vereor 'honour, fear' NE ware and wary Latv vērt 'look, gaze, notice' Grk ouĩros 'guard', oráō 'see' Hit werite- 'put one's attention' Toch AB wār- 'smell' | | | | Sight | JPM |
| *wer- | surround, cover, contain | Lat aperio Grk érumai Skt vrñóti | | | | Motion | JPM |
| *wer-b ^(h) - | oversee, protect | OPrus warbo 'protects' Toch AB yārp- 'oversee, observe, take care of ' | | | | Sight | JPM |
| *wer ġ - | shave, shear | Toch B wārġ- 'shear' Arm gercum 'shave, cut hair' | poorly attested (an Armenian-Tocharian isogloss) | | | Hair | JPM |

Sheet1

| | | | | | | | |
|-------------|-------------------------|--|---|---|--|---------------|--------------|
| *wer ġ - | work ?strength, fury | NE work Grk hrézō 'do' Av vərəzeyēti 'works' Toch B warkšāl 'power, strength, energy' | | | | Being & Doing | JPM Celt. |
| *werh□-u- | protector | | {1} [AL] For an analysis and separation from var [2] see Lubotsky 2000. | | | | IIAL |
| *wérh□us | broad, wide | Grk eurús 'broad, wide' Av vouru- 'broad, wide' Skt urú- 'broad, wide' Toch B wartse | | | | Shape | JPM |
| *verno/eh□- | alder | MLr fern 'alder' Alb verr 'alder' Arm geran 'alder' Skt varaṇa- 'Crataeva roxburghii' | | | | Trees | JPM |
| *wers | lift oneself | | {1} [AL] For a recent discussion of the verb see Kümmel 2000: 474ff. {2} [AL] For a discussion of possible derivatives, attested in the RV (svāvṛṣṭi-, vṛsad-añji-), see Scarlata 1999: 526f. {3} [AL] See Kloekhorst 2008: 969ff. for the semantics. | Present ĀYA: (ā) vṛṣāyāte [3sg.med.] (RV+) Aorist A: ā vṛṣasva [2sg.impv.med.] (RV) Perfect: úd vāvṛṣasva [2sg.impv.med.] (RV), (ud)vāvṛṣāṇā- [ptc.med.] (RV) {1} | | | IIAL |
| *wers- | ± thresh | Lat verrō 'sweep (grain after threshing)' Latv vārsmis 'unwinnowed heap of grain' OCS vrěšti 'thresh' Hit warsi 'plucks, harvests' | | | | Agriculture | JPM |
| *wers- | peak | Old Ir ferr 'better' [< *'higher'] Lat verrūca 'varus, pimple' OE wearr 'sill' Lith viršūs 'highest point' Rus verkħ 'peak' Grk hērma 'point, top' Skt vārṣman- 'height, peak' | The Greek word for 'heaven', ouranós, may belong here as well if, as has been suggested, it comes from *worsmṇó- | *wers-men- | | Position | JPM IIAL |

Sheet1

| | | | | | | |
|----------|----------|--|--|---|--------|----------|
| *wert- | turn | <p>Olr do-fortad 'pour out'</p> <p>Lat vertō 'turn'</p> <p>Lith verčiū 'turn'</p> <p>OCS vřitěti sę 'draw around'</p> <p>dialectal Grk bratánon 'ladle'</p> <p>Av varət- 'turn'</p> <p>Skt vārtate 'turns'</p> <p>Toch A wārt- 'throw'</p> <p>Sog wrtn 'chariot'</p> <p>Mitanni -wartanna 'lap around a horse track'</p> <p>OE weorpan 'become'</p> <p>OHG werdan 'become'</p> | {1} [AL] For the distribution of the reduplication vowel in the perfect, for its meaning and an analysis of the other reduplicated forms see Kümmel 2000: 463ff. | <p>Present I: vārtate [3sg.med.] (RV+)</p> <p>Aorist R: avart [2,3sg.act.] (RV+)</p> <p>Aorist mediopass: varti [3sg.] (RV+)</p> <p>āvrtan [3pl.] (RV), later replaced by avrt̥sata (RV+)</p> <p>to pf. stem samā- avavarti [3sg.] (RV+), ā-avavrt̥an [3pl.] (RV)</p> <p>Aorist RED: vavrt̥at [3sg.act.] (them.) (RV)</p> <p>Perfect: vāvarta [3sg.act.] (RV), vāvrt̥uh [3pl.act.] (RV) {1}</p> <p>Intensive: (ā) varivarti, vārvarti [3sg.act.] (RV+)</p> <p>āvarivar [3sg.impf.] (RV)</p> <p>ānu āvarivur [3pl.impf.] (RV)</p> <p>analogical (RV)</p> <p>Desid: vīvrt̥sa- (RV+)</p> <p>Caus: vartāyati [3sg.act.] (RV+)</p> <p>Aorist RED: avīvrt̥at [3sg.act.] (RV+)</p> | Motion | JPM IIAL |
| *werwer- | squirrel | <p>ScotsGael feòrag</p> <p>Lat vīverra</p> <p>OE āc-weorna (<*"oak-squirrel")</p> <p>Lith vēveris</p> <p>Rus véverica</p> <p>OPers varvarah</p> | | | Fauna | JPM |

Sheet1

| | | | | | | | |
|-------------|-----------------------------|--|---|---|---|----------------------|----------|
| *wes- | be dressed | Grk énnūmi 'get dressed' Arm z-genum 'get dressed' Hit wess- 'be dressed' Skt vāste 'wear' Toch B wās- 'be dressed' Lat vestis 'clothes' | As we can see, in Baltic and Slavic it specifically pertains to the wearing or putting on of shoes. | Present II: vāste [3sg.med.] (RV+) avasran [3pl.impf.med.] (RV 04.002.19) vāsāna- [ptc.med.] (RV+) Aorist IS: avasišta [3sg.med.] (RV), vāsišvā [2sg.impv.med.] (RV) Perfect: vāvase [3sg.med.] (RV 08.004.08), vāvasānā- [ptc.] (RV) Caus: vāsáy° (RV+) 'to clothe', Fut: (to the caus. stem) vāsaišyāse [2sg.med.] (RV) | to wear clothes': Skt. vástrāṇi vas- (F | Textiles | JPM IIAL |
| *wes- | crush, grind, pound, wear o | Hitt wesuriya- 'press, oppress' OE wisnian 'dry up, wither, waste away' Alb veshk 'wither, shrivel, wilt' Olr fess 'food' OE wesan 'feast, cause to graze' Hit wesi- 'pasture', wesiya- 'graze' Av vāstar- 'herdsman' Toch A wāsri 'grassy area, pasture' | | | | Reductive Activities | JPM |
| *wes- | graze | | | (< *su-vāsar-a-) | | Food & Drink | JPM IIAL |
| *wes-ent-o- | spring | | | | | | IIAL |
| *wes-no- | purchase | Lat vēnum 'that which is sold' OCS věno 'bride-price' Arm gin 'price' Skt vasnā- 'price' Grk ônos 'price [usually of a captive]' | derives from *wes- 'buy' (e.g. Hit wasi 'buys') | | | Exchange & Property | JPM |
| *wes-tro- | garment | | | | 'to make clothes': Skt. vástrā kar, vástrā ... súkrṭā (RV 05.029.15) — YAv. vastrāšca kəšā (Yt 17.14) 'to wear clothes': Skt. vástrā ... vāsāna- (RV 09.097.02) — YAv. vastrā vaṇhaiti (Yt 10.126) | | IIAL |

Sheet1

| | | | | | | | |
|------------------------|------------------|--|--|--|--|-------------|------------|
| *wéšperos *wékeros | evening | Lat vesper Lith vākaras OCS vec`erŭ Grk hēšperos Arm gišer | West Central | | | Time | JPM |
| *wésr, | spring | Lith vāsara Skt vasantā- Olr errach Lat vēr OCS vesna Grk éar Arm garun Av vanri 'in spring' Toch B ysāre < *wes-eh□-ro-, originally 'spring wheat' | r/n heteroclitic {1} [AL] The deviating meaning of the Skt. words is strange. We might look for the original meaning 'spring' in the compound vasarhā 'killing in the spring (?)' and possibly in RV 08.048.07 sóma rājan prā ṇa āyūṃṣi tāñīr āhānīva sūryo vāsarāṇi 'O king Soma, prolong our life-time, as Sūrya prolongs the days in the spring' (or āhāni vāsarāṇi means 'day-time'?). {2} [AL] In spite of the fact that it is attractive to reconstruct *h:- in this word and to connect it with the root for 'to shine' (vas [2]), Gr. ēōp clearly points to an absence of the initial <i>h</i> . | | | Time | JPM IAL |
| *wéstor- | herdsman | Hit westara- 'herdsman' Av vāstar- 'herdsman' | Derives from the verbal root *wes- 'graze'. | | | Occupations | JPM |
| *wesu- ??*h , wesu- | excellent, noble | Olr feib 'in excellence' Luv wāsu 'good' Av vohu- 'good' Skt vāsu- 'good' Names: Gaul Vesu-avus Lat Vesuna (name of a goddess) Germanic tribal name Wisi (e.g. the Visigoths) | | vāsvī- [adj f] (RV+) vāsyas- [comp] (RV+), vāsīyas- [comp] (TS+) vāsiṣṭha- [sup] (RV+) | '(possessing/encompassing) all goods': Skt. viśvāvasu- [adj] (RV+), vāsu viśvam (RV+) — OAv. vīspā.vohu- [adj], vīspācā vohū 'provider of goods': Skt. dātar- ... vāsu- (RV+) — YAv. dātārəm vohunam — Gr. δωτηρὲς ἐδών 'having goods as fame': Skt. vāsu-śravas- (RV+) — OAv. vanhāu srauuhī — Elam.-Iran. *vau-čavah- [m] PN — Illyr. Ves-cleves- [m] PN 'possessing the light of goods': Skt. vāsu-rociṣ- [m] PN (RV+) — YAv. vohu-raocah- [m] PN — Elam.-Iran. *vahu-raučah- [m] PN — NP behrōz [m] PN 'most excellent, the best': Skt. śrēṣṭham ... vāsiṣṭham (AV) — OAv. vahištəm ... sraēštəm | Values | JPM IAL |
| *wésu-kléuos | fame (good) | | | | | | Beekes |

Sheet1

| | | | | | | | |
|---|---------------------------|---|--|--|--|--------------------|-------------|
| *wet- | see (truly) | Olr fethid 'sees, pays attention to' Lat vātēs 'seer, prophet' Skt āpi vatati 'is familiar with, is aware of' | | Present I: āpi ... vatemala [1pl.opt.act.] (RV) Caus: apivātāyant- [ptc.act.] (RV), Aorist RED: āpy- avivatan [3pl.act.] (RV 10.013.05) | | Sight | JPM IIAL |
| *wet-s-o- | yearling | | {1} A derivative of PIE *uet-es- 'year', cf. vatsará-. Similar formations are Alb. viç 'calf', Go. wiPrus 'lamb' Gr. ἔταλον [n] 'young animal'. | | | | IIAL |
| *wet-us | old | | | | | | Beekes |
| *wet(-es) | year | Olr feis 'sow' NE wether with -u(so)- 'old' Lat vetus Lith vėtušas OCS vetŭchŭ Sogdian wṭšnyy | | | | Time | JPM IIAL |
| *wételos | yearling | Lat vitulus 'calf, yearling' Grk ételon 'yearling' Skt sa-vātára- 'having the same calf' | A related form gives NE wether | | | Fauna | JPM |
| *weyt-i- | willow | | | | | | Celt. |
| *wi- | apart, in two, asunder | Av vi- 'apart, off' Skt vi- 'asunder' Lat vitium 'defect' [> by borrowing NE vice] NHG wider | | | | Position | JPM |
| *wi-d ^h h ₁ - | put asunder | Lat dīvidō 'divide' Latv vidus 'interior' Hit widā(i)- 'bring' Skt vidhā 'distribute' | | | | Measure & Quantity | JPM |
| *wi(n) ḡ- | common elm (Ulmus glabra) | Kurdish viz NE wych-elm Lith vinkšna 'elm' Rus vjaz 'elm' Alb vidh 'elm' | | | | Trees | JPM |
| *wid ^h eweh□- *h ₁ uid ^h h ₁ eweh ₂ - | widow | Olr fedb Lat vidua NE widow OPrus widdewu Rus vdová ?Alb ve (if not a loan from Latin) Hit SALu(i)dati- Av viavā Skt vidhāvā- Grk ēitheos 'bachelor' | This word is usually taken as a nominal derivative of a verb *wi- heh ₁ - attested only in Anatolian, meaning 'separate' {1} [AL] For the reconstruction see Lubotsky 1994a. | | | Marriage | JPM IIAL |

Sheet1

| | | | | | | | |
|--|-------------------------------|--|---|----------------------------------|--|---------------------|-------------|
| *wid ^h u | tree, forest | Olr fid 'tree' NE wood | North-West | | | Trees | JPM |
| *widmén- | knowledge | Grk ídmōn 'skilled' Skt vidmán- 'wisdom' Toch B ime 'consciousness, awareness, thought' | | | | Knowledge & Thought | JPM |
| *wih□iēn | grapevine | | | | | Plants | JPM |
| *wih□rós | man warrior, hero | Olr fer 'man' Lat vir 'man' NE werewolf Lith v́yras 'man, husband' Av v́ira- 'man' Skt v́irā- 'man, husband' | {1} With laryngeal loss in compounds? {2} Possibly related to Skt. váyas-. | | killing men': Skt. v́ira-hán- [adj] (RV, | Health&Sickness | JPM IIAL |
| *wih□rós | man, husband | Olr fer 'man, husband' Lat vir 'man, husband' OE wer 'man, husband' [NE werewolf] Lith v́yras 'man, husband' Av v́ira- 'man person [as opposed to animals]' Skt v́irā- 'hero [eminent] man husband' | May derive from a word meaning 'young' (e.g. Toch A wir 'young fresh' or Alb ri 'young', if the latter is from *wihxros < *wihxros) | | | Family | JPM |
| *wik- | extended family, clan | Av vis- 'clan' Skt viś- 'dwelling clan' OCS vísī 'village' Lat v́icus 'village' Gothic weihs 'village' Grk oikíā 'house, household' Toch B íke 'place' | Indicates a residence unit larger than the nuclear family and is generally translated as 'extended family' or 'clan' | v́it [nom.sg.] (RV+) | | Family | JPM IIAL |
| *wikiti ^h , *dui-dkmti *h ⁱ ui-h ⁱ kmt-i- | 20 twenty | Olr fiche Lat v́iginti Alb njēzet Grk eíkosi Arm k'san Av v́isaiti Skt vimśatī Toch B ikām | Easily analysable as *dwī- 'two' + *kmti ^h 'tens' while the other decades are formed on the full-grade {1} [AL] It seems very unlikely to me that Skt. vimś° is a hypercorrection for *viś°. It is also difficult to explain away Oss. ssæ3 / insæj 'twenty'. | | | Numbers | JPM |
| *wikpots *wik-poti- | master of the clan | Lith viēšpatis 'master' Av vispaiti- 'master of the clan' Skt viśpāti- 'head of the household' | | v́itpati- (TB+ accent uncertain) | 'lord of all tribes': Skt. v́isvāsām viśām pátim (RV 06.015.01) — YAv. v́isṗō v́isō v́ispatōiš (Vyt 16) 'lord of the tribes': Skt. viśām ...viśpāti ^h (RV 09.108.10) — YAv. v́isām v́ispaitiš (Yt 10.18) | Social Organization | JPM IIAL |
| *wiks | (social unit of) settlement, | OCS vísī 'village' Av v́is- 'village' Doric Grk -(w)ikes 'tribes' Lat v́illa (< *weiks-leha-) 'country-house, country estate' | It also yields derived forms, e.g. *weiks- which gives us Lat v́illa (< *weiks-leha-) 'country-house, country estate' and *woikos which underlies Lat v́icus 'village, hamlet quarter of a city' and Grk (w)oikos 'household' (the source of NE economy). | | | Dwelling | JPM |

Sheet1

| | | | | | | | |
|------------------------------------|---------------------|---|---|--|--|---------------------|------------|
| *wikso- | mistletoe, birdlime | Lat viscum 'birdlime' OHG wīchsila 'black cherry' [Prunus cerasus] Rus víšnja 'cherry' Grk iksós 'mistletoe' | | | | Trees | JPM |
| *wís | poison | Lat vírus 'potent liquid, poison, venom' Grk iós '[organic fluid] poison stagnant smell and taste', Skt viṣa 'poison' Mlr fi 'poison' Av viś(a)- 'poison' Toch B wase 'poison' | derives from *weis- 'flow (slowly)' {1} [AL] It is unclear whether the scarcely attested Skt. verb veṣ- 'to flow' (RV 3pl.impf. aveṣan ptc.pres. véṣantīh) and Av. vaēšah- [n] 'filth, fustiness (?)' are related. | | | Meals | JPM IAL |
| *wis- | bison | OHG wisant | | | | Fauna | JPM |
| *witeros | far | NE withershins Av vītara- 'a further one' Skt vitarām 'far away' | a compound of *wi- 'apart, in two' and *-tero-, the comparative suffix. | | | Position | JPM |
| *wl(o)p- | (red)fox | Lat vulpēs Lith lāpė Grk alōpēks □ alōpós Arm aluēs Hit ulip(pa)na- 'wolf' Av urupis 'dog' raopi- 'fox, jackal' Skt lopāśā- 'jackal, fox' | | | | Fauna | JPM |
| *wīh : neh □ - ?*h₂ulh₁ -neh₂ - | wool | NWels gwlan Lat lāna NE wool Lith vilna Rus vólna Grk léhos Hit hulana- Av varəṇā- Skt ū m .ā- | {1} [AL] The variant ūṃā-vábhi-, given by the EW Aia with reference to Debrunner, FS Sommer 22, is not found in Vīśvabandhu. XXX | | | Hair | JPM IAL |
| *wlkānos *wlkeh□nos | smith god | Lat Volcānus Oss woergon, a smith god | | | | Dieties | JPM |
| *wlk*īh □ - *ulk*ih₂ - | she-wolf | | | | | Fauna | JPM IAL |
| *wlk*o- *ulk*o- | wolf | Lat lupus NE wolf Lith vilkas Rus volk Alb ujk Grk lúkos Av vōhrka- Skt vṛka- Toch B walkwe | Explained as a nominalization of the unattested adjective 'dangerous' (*wlkwó-) or derived from a verbal root *wel- 'tear' | | | Fauna | JPM IAL |
| *wndstí- | bladder | Lat vēs-(s)ica Skt vastí- | Italic-Indic correspondence | | | Organs | JPM |
| *wnṛáktih □ | lady, queen | Grk (w)ánassa 'queen' Toch A nāši 'lady' | | | | Social Organization | JPM |

Sheet1

| | | | | | | |
|------------------------|--------------------|--|---|--|-----------------|---------------|
| *wódr- | water | | {1} [AL] It is highly uncertain that YAv. vaiði- [f] 'watercourse, irrigation channel' belongs here. It can easily be a derivative of the verbal root vad- 'to lead'. Cf. further Sogd. w'd /wād/ 'bed', Pash. wāla 'river bed', which were connected with the Avestan word by Henning (Sogdica, London 1940, p. 25). | The RV forms are: udnā [instr.sg.], udnās [gen.abl.sg.], | Water | JPM IIAL |
| *wo ġ -eie- | incite | | | Present X: vājáyati [3sg.act.] (RV+), vājáyant- / vājáyánt- [ptc.act.] (RV+) | | IIAL |
| *wo ġ -o- | incitement | | {1} [AL] There are no certain cognates in Iranian. For Av. vāzišta- [adj] 'most respected' see vāh, the meaning and interpretation of OAv. vāzā [du] Y 51.12 is uncertain. | | | IIAL |
| *wog ^{wh} nis | ploughshare | Lat vōmis 'ploughshare' OHG waganso 'ploughshare' OPrus wagnis 'coultter' Grk ophnis 'ploughshare' | West Central | | Tools | JPM |
| *wóh ı | 2D ye two, you two | OE git 'ye two', inc □ incit 'you two' Lith jūdu 'ye/you two' OCS va 'ye/you two' Skt yuvā m 'ye/you two' Toch B yene 'ye/you two' | accusative *uh wé 'you two' | | Pronouns | JPM |
| *woik-ó- | inhabitant / abode | | | | | IIAL |
| *wóinom | ?wine | Lat vīnum Alb verē Grk oīnos Arm gini Hit wiyana- | From the verbal root *wei(hx)- 'twist', hence originally 'that of the vine' | | Plants | JPM |
| *wokéh□- | cow | Lat vacca 'cow' Skt vaśā- 'cow' | No semantic distinction between these three | | Fauna | JPM |
| *wok ^w - | speech | | | vāk [nom.sg.] (RV+) vācam [acc.sg.] (RV+) vācās [gen.sg.] (RV+), etc. | | IIAL |
| *wōk ^w s | voice | Lat vōx Grk [acc.] ópa Av vāxš Skt vāk Toch B wek | A nominal derivative from *wek ^w - 'speak' | | Human Sounds | JPM Beekes |
| *wolko- | hair | | {1} With a different interpretation. | | | IIAL |
| *wolno/eh□- | (bloody) wound | Lat volnus 'wound, injury' Alb varrē 'wound, injury, sore' Grk oulē 'scar' Rus rána 'wound' Skt vraṇā- 'wound' | *wo[l/r]n[o/e]ha- | | Health&Sickness | JPM |

Sheet1

| | | | | | | | |
|-------------------------|------------------------|--|--|--|--|-----------------|------------|
| *wólos | tail hair (of a horse) | Lith vala[pl.] 'tail of a horse' Skt vā la- vā ra- 'tail of a horse horsehair' | Attested only in Lithuanian and Old Indic and in both languages specifies the 'tail hair of a horse' {1} [AL] Thieme's explanation of vāra- as 'warding off (flies)' (following Yaska, Nir. 11.31) has a strong flavour of folk etymology. Moreover, the root vr- does not mean 'to ward off', which renders the idea even less probable (Lubotsky 2000). from *wels- 'bulge' | | | Hair | JPM IAL |
| *wólswom | gums | Grk oulon Skt bársva- | | | | Head | JPM |
| *wór(h□) ḡ s | nourishment, strength | Hit wargant- 'fat' Grk orgē 'natural impulse, mood, anger' Av varəz- 'power' Skt ūrj- □ ūrjá- 'strength, nourishment' | | | | Food & Drink | JPM |
| *wórg ^h s | chain, row, series | Alb varg 'chain, row, string, strand' Grk órkhos 'row of vines' Toch B warke 'chain, garland' | | | | Placement Verbs | JPM |
| *worh□d-i/o- | frog | Latv varde Arm gort | | | | Fauna | JPM |
| *worh□d ^h us | upright, high | Grk (w)orthós 'upright, standing' Skt ūrdhvá- 'upright high' Toch A orto 'from above' | | | | Position | JPM |
| *worh□do- | wart | NE wart Latv ap-vīrde 'abscess' Rus véred 'abscess' NPers balū 'wart' | Suggests that the association between warts and frogs is quite old | | | Health&Sickness | JPM |
| *worm- | ant | Grk hómikas Skt valmíka- Toch B warme | | | | Bug | JPM |
| *worPo- | enclosure | Hit warpa 'enclosures' Toch A warp 'enclosure' ??Lat urbs 'city' (< *ritual enclosure') | | | | Dwelling | JPM |
| *wortok ^w - | quail | Grk órtuks Skt vartaka- | | | | Bird | JPM IAL |
| *worwos | furrow | Lat urvāre 'to mark out a boundary with a furrow' Grk oulon 'range (of area that could be ploughed up in a day)' | West-Centra | | | Agriculture | JPM |
| *wos | you (pl.) | | {1} Cf. *us-me in Ilr. *ušma- (Skt. yuṣmā-). | | | | IAL |
| *wos(h□)-ko- | wax | NE wax Lith vāškas 'wax' OCS voskū 'wax' | | | | | JPM |
| *wosn-éie | buy, to sell | | Denominative | | | | Beekes |

Sheet1

| | | | | | | | |
|----------------------|----------------------------|--|--|--|--|----------------------|-----|
| *wospo/eh□- | garment | Lat vespa 'one who steals clothes from the dead'. Hit was(sa)pa- 'garment, shroud' Luv waspant 'wearing funeral shrouds' | | | | Textiles | JPM |
| *wōsu | goods | Luv wāsu 'goods' Skt vāsu- 'wealth, goods, riches, prosperity' | Suggests the possibility of a PIE *wōsu 'goods' if these are not independent creations (cf. the same semantic development in NE goods) | | | Exchange & Property | JPM |
| *wōtis | god-inspired | Olr fāith 'prophet' or gods ON O' ðinn 'Odin' Skt api-vat- 'inspires' | | | | Sacred | JPM |
| *wōto- | (true) knowledge, shamanic | Olr fāth 'prophetic wisdom' OE wōþ 'song, poetry' OE wōd 'furious, frenzied' > archaic NE wood 'mad' *wōtonó 'who incarnates' OE Woden ON Oðinn | | | | Sight | JPM |
| *wr(h□)d- | root branch | Lat rādīx 'root', rāmus 'branch' Grk hrādīx 'branch palm-frond' ON rōt 'root' [NE root is borrowed from Old Norse] Olr frēn 'root' OE wyrt 'herb, plant' [> NEwort] Grk hríza 'root' Toch B witsako 'root' ?? | | | | Trees | JPM |
| *wrþ- | branch, sprig, twig | Lat verbēna 'leaves and saplings for sacral use' Lith viřbas 'twig, switch' Grk hrābdos 'twig, rod' | | | | Trees | JPM |
| *wred ^h - | grow, stand, take shape | Latv rādīt 'bear' Rus rodītī 'produce' Grk orthós 'upright, straight, true' Av varedaiti 'grows' Skt vr̥dhāti 'grows, increases, becomes strong', vr̥dhant- 'upright', Toch AB wrāt- 'form, shape' | | | | Vital Functions | JPM |
| *wreg- | press, oppress | Lat urgeō 'press, oppress' ON reka 'avenge, punish', OE wrecan 'avenge, punish' > NEwreak | North-West | | | Conflict | JPM |
| *wreg- | track, hunt, follow | Lat urgēre 'press' NE wreak Hiit ūrki- 'track' Toch B werke 'chase, hunt' | | | | Travel | JPM |
| *wreh , ġ - | break, tear to pieces | Lith ré žti 'cut, scratch' OCS řězati 'cut, hew' Grk rhēgnūmi 'break' | West Central | | | Reductive Activities | JPM |

Sheet1

| | | | | | | | |
|------------------------|--------------|--|--|---|--|-----------------|-------------|
| *wreh□g ^h - | thorn | <p>MLr fraig 'needle'</p> <p>Lith rāžas 'dry stalk, stubble prong of fork'</p> <p>Grk hrākhós 'thornhedge', hrākhis 'spine, backbone'</p> | West-Central | | | Plants (Wild) | JPM |
| *wrētos | flock, herd | <p>OE wræþ 'herd of swine'</p> <p>Skt vrāta- 'flock, swarm'</p> | May have been formed on the verbal root *wer- 'bind'. | | | Fauna | JPM |
| *wrh.ēn *urh. -en- | lamb | <p>Grk arén</p> <p>Arm gaṛn</p> <p>Av varən-</p> <p>Skt urán-</p> <p>Toch B yrīye</p> | | <p>[nom.sg.] úrā (RV 10.095.03), [acc.sg.] úraṇam (RV 02.014.04 PN, ŚB 11.5.1.2), úrām (RV 08.034.03 secondary)</p> | | Fauna | JPM IIAL |
| *wrh□os | pimple | <p>Lat varus 'pimple'</p> <p>Lith viras 'measles'</p> <p>Toch B yoro '+pimple'</p> | | | | Health&Sickness | JPM |
| *wriyo/eh□- | fort | <p>Grk hríon 'promontory'</p> <p>Thrac bría 'city, town built on a hill', Messapic (the city name Uria) Toch B rīye 'city'</p> | Both the specific Thracian meaning and the fact that the Greek cognate hrion means 'promontory' suggests an original meaning of 'acropolis' in those IE traditions where the word came to mean 'city' and a derivative from *wer- 'high'. | | | Dwelling | JPM |
| *wr̥mis | worm, insect | <p>Lat vermis</p> <p>NE worm</p> <p>Lith vařmas 'mosquito'</p> <p>OCS vermije 'grasshoppers'</p> <p>Grk rhómoks 'woodworm'</p> | | | | Bug | JPM |
| *wr̥to/eh□- | enclosure | <p>OE worp 'court, courtyard, farm'</p> <p>Lith var̥tai 'gate, gateway'</p> <p>OCS rata 'gate'</p> <p>Skt vr̥ti- 'enclosure'</p> <p>?Toch B warto 'forest' < **sacred grove' < **sacred enclosure'</p> | May reflect independent creations in these various groups, all derived from the root *wer- 'cover, enclose, protect'. | | | Dwelling | JPM |

Sheet1

| | | | | | | | |
|---|----------------------------|---|---|---|--|-----------------|-----|
| *ya ġ - *yehː ġ - (Beekes) *h ₁ iehː ġ - (IAL) | honor, worship | Grk házomai 'dread' (hágios 'holy') Skt yá jati 'worships' | Greek-Indo-Iranian isogloss {1} [AL] In Indo-Iranian, the second laryngeal has disappeared in front of the cluster IE *gC, on which see Lubotsky 1981: 135 ff. The initial laryngeal seems to be indicated by tǵé [3sg.pt.med.] and by the reflex in Greek. {2} [AL] Hajnal 1999: 95 interprets yájuš- as an original stem in Ø-ur-, forming one paradigm with yájvan-. | Present I: yájati [3sg.act.] (RV+) Aorist S: yákṣat [3sg.subj.act.] (RV+), ayās [2sg.act.] (RV 03.029.16 +), áyāt [3sg.act.] (RV-Kh.+) SI-impv: yákṣi (RV) Perfect: tǵé [3sg.med.] (RV+) Fut: yakṣyá ° (RV+) Caus: yájáy ° 'to cause someone to sacrifice' (YV+) Passive: iyyáte (YVp+) Inf: yájadhyai (RV+) Abs: ištṵá (AV) TA-Ptc.: ištá- (RV+) | 'to worship the Truth': Skt. ṛtām ... yaj (RV+) — OAv. ašəm ... yaz 'to worship (and) to please': Skt. yákṣat ... pipráyac ca (RV) — OAv. yazamaidē ... friiṇmahī 'to praise (and) to worship': Skt. stuhi ... yákṣvā (RV 05.042.11), stavat ... yajāte (RV 06.047.15) — OAv. yazəmnašca ... stauuas 'worshipping the gods': Skt. deva-yáj- [adj] (KS+) — YAv. daēuuaiiaz- 'worshipping the Daēuuas' 'well-worshipping': Skt. su-yáj- [adj] (RV+) — YAv. hu-iiēšti- [f] 'good worship' 'goal of the worship': Skt. yajñásya ... ártham (RV) — OAv. arəθā ... yasnəm 'the goals ... the worship' (Y 33.8) 'Mitra / Miθra, worthy to be worshipped': Skt. mitró ... yajñíyah — YAv. yesniō miθrō Aram.-Iran. mtr-yzn PN 'to worship with a worship': Skt. yajñám yaj- (RV) — YAv. yasnəm yaz- 'the worship ... the word': Skt. yajñám ... vácaḥ (RV) — OAv. vacaḥhā ... yasnā (Y 34.1) | Sacred | JPM |
| *yak(k)- | ± cure, make well | OIr ícc 'cure, treatment' Grk ákos 'cure, treatment' | | | | Health&Sickness | JPM |
| *yam *yau | now, already | Lat iam 'now, already' OHG ju 'already' Lith jaũ 'already' OCS ju 'already' | North-West | | | Time | JPM |
| *yéb ^h e/o- | enter, penetrate, copulate | Rus jebú Grki oíphō Skt yábhati Toch B yāp- 'enter, set [of sun]' | Eastern | | | Vital Functions | JPM |
| *yeg- | ice, icicle | OIr aig 'ice' NE icicle Hit eka- 'ice' | Possibly 'solid expanse of ice' | | | Water | JPM |
| *yehː - | do, make act vigorously | Hit iēzi 'does, makes' Toch A ya- 'do, make' Grk hērōs 'hero', Hērā Skt yātú- 'witchcraft' | | | | Being & Doing | JPM |
| *yehː - | throw | Latin iaciō Greek hīēmi | West Central | | | Throw | JPM |

Sheet1

| | | | | | | | |
|---------------------------|------------------------|---|---|---|--|----------------------|----------------------|
| *yeh .g ^w eh□- | power, youthful vigour | Lith jegà 'strength, power' Grk hēbē 'youth, vigour, puberty' | West Central | | | Conflict | JPM |
| *yéh .s- | gird | Lith júosiu 'gird, girdle, buckle on [a sword]' OCS po-jašq 'gird' Alb n-gjesh 'gird, buckle on' Grk zōnnūmi 'gird' Av yāh- 'gird' Grk zōnē 'belt' | | | | Textiles | JPM IAL Beekes |
| *yeh□- | ask for, beg | Skt yā- 'beg, entreat' Toch B yāsk- 'beg' | Indo-Iranian-Tocharian isogloss {1} Attested both in the active ('imploing') and passive ('implored') usages. {2} An enlargement of the root yā- is Skt. yāc [verb] 'to implore' (RV yāc- +): yācāmi [1sg.pres.act.], yācānte [3pl.pres.med.] (RV+), ayācišta [3sg.aor.med.] (MS+), yācišat [3sg.aor.subj.act.] (RV), yayāce [3sg.pf.med.] (Br.+), yācáy ^o [caus.] (AV+), yācisy ^o [fut.] (Br.+), yācitā- [TA-Ptc.] (AV+), yācitum [inf.] (AV+) yācñā- [m] 'request' (AV+) yācñā- [f] 'id.' (TS+). {3} [AL] For the semantic analysis of these Vedic forms and their relationship to Gr. Ζητήρ and other Greek forms like ζηλος [m] 'zeal, jealousy', δίζημαι [verb] 'to search, seek out, desire', see García-Ramón 1999. | Present II: yāmi [1sg.act.] (RV), yāti [3sg.act.] (RV 07.038.06) īmahe [1pl.med.] (RV+), iye [1sg.med.] (RV 02.017.07), iyānā- [ptc.med.] (RV) {1} Aorist S: áva yāsat [3sg.subj.act.] (RV 06.066.05), yāsīšta [3sg.opt.med.] (RV) Aorist SIŠ: ayāsišam [1sg.act.] (RV 01.018.06), yāsisīsthās [2sg.opt.med.] (RV 04.001.04) Passive: īyate [3sg.] (RV) Inf: iyādhyai (RV 06.020.08) {2} | | Formal Speech & Song | JPM IAL |
| *yeh□- | go, travel | Lith jóju 'ride' OCS jadq 'ride' Av yā- 'go' Skt yā ti 'goes, travels' Toch AB yā- 'go, travel' | possibly an iterative-intensive derivative of *h ₁ ei-, i.e. *h ₁ y-eh□- | | | Come & Go | JPM |
| *yéh□wot(s) | as many, as long | Grk hēōs 'as long as' Skt yāvat 'as much, as many as great, as large as often, as far' | | | | Relative Pronouns | JPM |
| *yek- | express, avow | Lat iocus 'joke' Umb iuka 'prayers' MWels ieith 'speech' OHG jēhan 'express, explain' Skt yācati 'asks, solicits, entreats' | Meaning is unclear | | | Formal Speech & Song | JPM |

Sheet1

| | | | | | | | |
|---------------------------|-------|--|---|---|--|---------------------|-------------|
| *yék"r(t) *(h□)iek"-r- | liver | Lat iecur, Lith (j)ėknos [pl.], Grk hépar Av yākarə Skt yākr̥ṣ | {1} The laryngeal is based on Greek and is uncertain. | yākr̥ṣ [nom.acc.sg.] (AV) yaknās [gen.abl.sg.] (RV+) yakani [loc.sg.] (AVP) | | Organs | JPM IIAL |
| *yem- | hold | Av yam- 'hold' Skt yam- 'hold, sustain, offer, grant' Toch B yām- 'achieve, obtain reach' [< * 'come to hold' or the like] Toch B yām- 'do, make, effect' | Eastern | | | Exchange & Property | JPM |
| *yemos | twin | Lat geminus Skt yamā- Olr emon 'twins' Av yəma- 'twin' | | | | Marriage | JPM |
| *yes- | boil | NWels ias 'boiling' OE gist 'foam, yeast' [> NE yeast] Grk zéō 'boil, cook' Av yaēšya- 'boil' Skt yāsyati 'boils' Toch A yās- 'boil' Toch B yās- 'excite, ravish' [< *'make boil'] Hittite is(s)na- 'dough' | | Present III: yayastu [3sg.impv.act.] (RV) Present III>I: yéšant-ī- (< *ja-ja-) [ptc.act.f.] (RV 03.053.22 +) Present IV: pra- yasyati [3sg.act.] (AVP 9.28.3), pra- yāsyantī- [ptc.act.f.] (AVŚ 12.5.31 = AVP 16.144.5) TA-Ptc.: pra-yasta- 'made hot, boiling' (RV+) | | Food Prep | JPM IIAL |

Sheet1

| | | | | | | | |
|-------|--|---|--|---|--|-----------------|-------------|
| *yet- | put in the right place be in place? | NWels addiad 'longing' SC jatiti se 'flock together' Av yataiti □ yatayeiti 'puts oneself in the right or natural place' Skt yátati 'puts oneself in the right or natural place' Toch AB yāt- 'adorn', yāt- 'be capable of [intr.] have power over tame' | | Present I: yátate [3sg.med.] (intr.) (RV+), yátati [3sg.act.] (trans.) (RV) Aorist R: yátāna-, yatāná- [ptc.med.] (RV) Perfect: yetire [3pl.med.] (RV+) Caus: yátáy° (RV+) TA-Ptc.: pári-yatta- 'lined up' (RV+) | | Placement Verbs | JPM IIAL |
| *yeu- | bind, join together | Lith jáutis 'ox, steer' [<"that which is yoked"] Skt yáuti 'binds, unites' Lat iungō Lith jūngti Grk zeúgnūmi Skt yunákti | {1} [LK] Probably secondary after -stuvāná- (Joachim 1978: 139). {2} [LK] yūpa- [m] 'sacrificial post, pillar (to which sacrificial animals are fastened)' (RV+) most probably does not belong here (Gotō 1997: 1029, fn. 48). {3} This root may have formed the basis of *ieug- > Skt. yoj. | Present VI: -yuvāti [3sg.act.] (RV, TSm) -te [3sg.med.] (RV+) Present II: yauti [3sg.act.] (AV+) yuté [3sg.med.] (YVp +) yutām [3sg.impv.med.] (AV 11.10.16) -yuvāná- [ptc.med.] {1} (RV 07.091.05, ŚB, Sū.) Aorist IS: - yāvīṣtam [2du.inj.act.] (RV 08.005.13) ayāvīt [3sg.act.] (VādhSū.) Aorist S: ayusmahi [1pl.med.] (AVP) mā yoṣta [2pl.inj.act.] (ŚrSū.m) mā yūḍhvam [2pl.inj.med.] (ŚrSū.m) Perfect: -yuyuvé [3sg.med.] (RV 01.138.01) Intensive: -yoyuve [3sg.stat.] (RV 12.222.22) | | Binding | JPM IIAL |
| *yeu- | ripen | | | | | | JPM |

Sheet1

| | | | | | | | |
|------------------------|--------------------------------------|--|---|--|---|-------------------|--------------|
| *yeud ^h - | moved, stirred up fight | Lat iubeō 'order, command' Lith judù 'move, stir' Grk husmínē 'battle' Av yū iyeiti 'fights' Skt yúdhyaṭi 'fights' Toch A yutk- 'be anxious' | | | | Conflict | JPM |
| *yeud ^h - | set in motion, stir up | Lat iubeō 'order' Lith judù move oneself, stir' Pol judzić 'incite' Av yaozaiti 'becomes agitated [of water and emotions]' Toch A yutk- 'become upset, worry' Grk husmínē 'combat' Skt yúdhyaṭe 'fights' | | | | Movement | JPM |
| *yeud ^h mós | fighter | OCS o-jīminū 'warrior' Skt yudhmá- | from verb *yeud ^h - 'fight' | | | Occupations | JPM |
| *yeu ġ - | stir up, incite be unquiet | Goth jiukan 'fight, struggle' Av yaozaiti 'stirs oneself up' Toch B yuk- 'overcome, surpass' | | | | Food Prep | JPM |
| *yeuh□- | mix something moist pottage, soup | Lat iūs Grk zúmē Latv jāut 'mix, mix dough' Skt yāuti 'binds, unites' | | | | Food Prep | JPM |
| *yew(e)s- | order | Lat iūs 'law, right, justice, duty' Av yaož-dā- 'make ritually pure' Skt śāmca yósca 'health and happiness' | | | | Law & Order | JPM |
| *yéw(e)s- | grain | Hit ewan NPers j'av Skt yáva- 'grain, Grk zeiaí'einkorn or emmer wheat' Oss joew 'millet' Toch B yap 'millet' | Derives from the verbal root *yeu- 'ripen, mature' | | to cultivate barley': Skt. yávam ... ka | Plants | JPM |
| *yoinis | reed, rush | Mlr aīn 'reed' Lat iuncus 'reed' iūniperus 'juniper' ON einir 'juniper' | North-West | | | Plants (Wild) | JPM |
| *yóku | (animal) body hair | Arm asr 'wool' Skt yášu '+pubic hair' Toch AB yok 'body hair, wool' | | | | Hair | JPM |
| *yórk(o)s | roedeer | NWels iwrch Grk zórks | | | | Fauna | JPM Celt. |
| *yós *yéh *yód | relative pronoun | Gaul dugiionti-io 'who serve' Lith geràs-is 'good' OCS dobrŭ-jī 'kind, good' Grk hós / hē / hó 'who, what, that' Skt yás / yā / yád 'who, what, that' | | | | Relative Pronouns | JPM |

Sheet1

| | | | | | | | |
|-------------------------|-------------------|--|---|--|-------------------------------------|-------------------|----------------------|
| *yóteros | which of the two | Doric Grk óteros 'which of the two' Av yatāra- 'which of the two' Skt yatarā- 'which of the two' | | | | Relative Pronouns | JPM IAL |
| *yóti | as much, as many | Grk hósos 'as many' Skt yá ti 'as many as, as often as' | | | | Relative Pronouns | JPM |
| *yu- | ± shout (for joy) | MIr ilach 'victory cry' Lat iūbilō 'shout' NE yowl Grk iúzō 'shout' | West Central | | | Human Sounds | JPM |
| *yugóm | yoke | OWels iou Lat yugum NE yoke Lith jūngas Grk zugón Arm luc Hit yukan Av yugam Skt yugám | derives from *yeug- 'join, harness' | | yoke and yoke pin': Skt. yuga-śamyā | Transport | JPM Beekes IAL |
| *yuh□-r- | water | Lith jūrés 'sea' Thracian iuras [a river name] | | | | Water | JPM |
| *yuh□s *uswé *swe | ye / you | OIr sī 'ye, you' Lat vōs 'ye, you' OE gē 'ye' [> NE ye], ēow 'you' [> NE you] Lith jū- s 'ye', jus 'you' OCS vy 'ye, you' Alb ju 'ye' Grk humeios 'ye', huméas 'you' Arm i-jēz 'you' Hit sumēs 'ye, you' Skt yūyám 'ye', yuśmā n 'you', enclitic vas Toch B yes 'ye, you'). | enclitic *wos the accusative serves as the nominative form for Celtic, Italic, Slavic, Albanian, Greek, and Anatolian. | | | Pronouns | JPM |
| *yúh□s- | broth | Lat iūs 'broth, sauce, juice' [> NE juice] Lith jūše 'fish soup' Rus ukhá'broth, fish soup' Grk zúmē 'leaven' Skt yūṣ- 'soup, broth, water in which pulses of various kinds have been boiled' | | | | Meals | JPM Celt. |
| *yust(iy)os | orderly, fitting | OIr uisise 'just right, fitting' OCS istū 'actual, true' | Adjective, derived from *yew(e)s- | | | Law & Order | JPM |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

