PROGYMNASMATA INDO-EVROPAEA

250 Preparatory Exercises in Comaparative Indo-European Phonology

by
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Instruction

This little book is a compilation of exercises in Proto-Indo-European reconstruction.

Material is arranged as follows:

1. ex. 1–12 : PIE *p, *t, *k;
2. ex. 13–20: *b, *d, *g;
3. ex. 21–31: *b^h, *d^h, *g^h;
4. ex. 32–40: Review;
5. ex. 41–52: *$\acute{k}$, *$\acute{g}$, *$\acute{g}^h$;
6. ex. 53–65: *k^w, *g^w, *g^{wh};
7. ex. 66–76: Review;
8. ex. 77–87: *s;
9. ex. 88–96: *m, *n, *l, *r;
10. ex. 97–107: *$\underset{\circ}{m}$, *$\underset{\circ}{n}$, *$\underset{\circ}{l}$, *$\underset{\circ}{r}$;
11. ex. 108–122: *i, *u, *$\underset{\wedge}{i}$, *$\underset{\wedge}{u}$, *iH, *uH;
12. ex. 123–130: *CRHC, *CRHV;
13. ex. 131–145: Review;
14. ex. 146–157: *e, *o, *$\bar{e}$, *$\bar{o}$;
15. ex. 158–168: *He, *eH;
16. ex. 169–177: *HC-, *CHC;
17. ex. 178–188: Review;
18. ex. 189–195: *ei, *oi, *HVi;
19. ex. 196–205: *eu, *ou, *HVu;
20. ex. 206–250: Review.

Student should resort to footnotes only ex post, for clarification.

Solutions are provided in the *Key* and sound laws, for convenience, in the *Appendix*.

Abbreviations

Symbols

* – reconstructed
** – unattested
> – becomes
< – derives from
= – is equal to
≠ – is not equal to
C – consonant
H – laryngeal
R – resonant
V – vowel

Languages

Aeol. – Aeolic
Alb. – Albanian
Anat. – Anatolian
Arm. – Armenian
Att. – Attic
Av. – Avestan
Balt. – Baltic
Bret. – Breton
BSl. – Balto-Slavic
Bulg. – Bulgarian
Celt. – Celtic
Corn. – Cornish
Cz. – Czech
Dan. – Danish
Dor. – Doric
E. – English
Falisc. – Faliscan
Fr. – French
Gaul. – Gaulish
GAv. – Gāthā-Avestan
G. – German
Gmc. – Germanic
Goth. – Gothic
Gr. – Greek

Hitt. – Hittite
HLuw. – Hieroglyphic Luwian
Hom. – Homeric Greek
Ic. – Icelandic
IIr. – Indo-Iranian
Ill. – Illyrian
Ion. – Ionian
Ir. – Iranian
Ital. – Italic
Lat. – Latin
Latv. – Latvian
Lesb. – Lesbian
Lig. – Ligurian
Lith. – Lithuanian
Luw. – Luwian
Lyc. – Lycian
Lyd. – Lydian
M – Middle
Myc. – Mycenaean
N – New
Norw. – Norwegian
O – Old
OCS – Old Church Slavic
OHG – Old High German
OIr. – Old Irish
ON – Old Norse
OPr. – Old Prussian
Osc. – Oscan
Oss. – Ossetic
P – Proto-
Pāl. – Pāli
Pers. – Persian
Phry. – Phrygian
PIE – Proto-Indo-European
Pol. – Polish
Rom. – Romanian
Ru. – Russian
SCr. – Serbo-Croatian
Skt. – Sanskrit
Slav. – Slavic
Slov. – Slovenian
Sogd. – Sogdian
Sw. – Swedish
Thr. – Thracian
TA – Tocharian A
TB – Tocharian B
Umbr. – Umbrian
Ved. – Vedic
Ven. – Venetian
W. – Welsh

Other abbreviations

acc. – accusative
abl. – ablative
adj. – adjective
adv. – adverb
act. – active
an. – analogy
aor. – aorist
cf. – compare
con. – conjunction
dat. – dative

du. – dual
f. – feminine
fut. – future
gen. – genitive
ins. – instrumental
impv. – imperative
impf. – imperfect
inf. – infinitive
inj. – injunctive
coll. – collective
loc. – locative
m. – masculine
med. – medium
n. – neuter
nom. – nominative
num. – numeral
opt. – optative
pass. – passive
perf. – perfect
pl. – plural
plpf. – pluperfect
praep. – preposition
pres. – present
pron. – pronoun
ptcp. – participle
sg. – singular
subj. – subjunctive
subst. – substantive
voc. – vocative
v. – verb

Pronunciation

Hittite: 1. <ḫ> = [x̆]; 2. <š> = [s]; 3. <z> = [ts].

Tocharian: 1. <a> = [ə]; 2. <ā> = [a]; 3. <ä> = [ɨ]; 4. etc. cf. Skt.

Sanskrit: 1. <c> = [tɕ]; 2. <j> = [dʑ]; 3. <Vṁ> = [Ṽ]; 4. <ś> = [ɕ]; 5. <ṭ> = [ʈ] et sim.; 6. <th> = [tʰ] et sim.; 7. <y> = [j].

Avestan: 1. <ą> = [ã]; 2. <å> = [ɒː]; 3. <β> = [β]; 4. <δ> = [ð]; 5. <ə> = [ə]; 6. <ɣ> = [ɣ]; 7. <θ> = [θ]; 8. <ń> = [ɲ] et sim.; 9. <t̰> = [t̪] et sim.; 10. <x> = [χ].

Old Persian: 1. <θ> = [θ]; 2. <x> = [χ].

Gothic: 1. <ai> = [ɛ] /_ *r, h, hv*; 2. <au> = [ɔ] /_ *r, h, hv*; 3. <gC> = [ŋC]; 4. <ei> = [iː]; 5. <þ> = [θ]; 6. <hv> = [xʷ].

Old Irish: 1. <á> = [aː] et sim.; 2. <c> = [k]; 3. <ch> = [x]; 4. <dh> = [ð]; 5. <th> = [θ]; 6. <s> = [s], [h] /_V; 7. <iC> = [Cʸ];

Old Church Slavic: 1. <c> = [ts]; 2. <č> = [tʃ]; 3. <ě> = [æ]; 4. <ę> = [ẽ]; 5. <ĭ> = [ə]; 6. <ǫ> = [õ]; 7. <š> = [ʃ] 8. <ŭ> = [ə]; 9. <y> = [ɯ]; 10. <x> = [x]; 11. <ž> = [ʒ].

Lithuanian: 1. <ą> = [aː]; 2. <c> = [ts]; 3. <č> = [tʃ]; 4. <ė> = [ę]; 5. <ę> = [ɛː]; 6. <y> = [iː]; 7. <š> = [ʃ]; 8. <ž> = [ʒ].

Latvian: 1. <c> = [ts]; 2. <č> = [tʃ]; 3. <ģ> = [ɟ]; 4. <ķ> = [c]; 5. <ļ> = [ʎ]; 6. <ņ> = [ɲ]; 7. <o> = [uo]; 8. <š> = [ʃ]; 9. <ž> = [ʒ].

Armenian: 1. <c> = [ts]; 2. <č> = [tʃ]; 3. <j> = [dz]; 4. <ǰ> = [dʒ]; 5. <kh> = [χ]; 6. <ł> = [ɬ, ɣ]; 7. <pʿ> = [pʰ] et sim.;

Albanian 1. <c> = [ts]; 2. <ç> = [tʃ]; 3. <dh> = [ð]; 4. <ë> = [ə]; 5. <gj> = [ɟ]; 6. <ll> = [ɫ]; 7. <nj> = [ɲ]; 8. <q> = [c]; 9. <r> = [ɾ]; 10. <rr> = [r]; 11. <sh> = [ʃ]; 12. <th> = [θ]; 13. <x> = [dz]; 14. <xh> = [dʒ]; 15. <zh> = [ʒ].

Exercises

Reconstruct:

1. Ved. *ápa*, Lat. *ab*,[1] Goth. *af* = PIE *h_2e _ o 'from'?

2. Lat. *tenuis*, OHG *dunni*,[2] OE *þynne* = PIE *_ n̥h_2- 'thin'-?

3. Ved. *tyájati*, Gr. Hom. σέβομαι[3] = PIE *_ i̯eg^w- 'avoid, worship'?

4. OE *þurst*, Arm. *tʿaršamim*, Alb. *ter* = PIE *_ r̥s- 'be thirsty'?

5. Hitt. *ḫāppar-*, ON *efni* = PIE *h_3e _ - 'work'?

6. Goth. *fadar*,[4] OIr. *athir*[5] = PIE *_ h_2 _ ēr? 'father'

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[1] Cf. OLat. [3sgperf] *feced* for *fēcit* 'he did' (final voicing).
[2] Cf. G. *Dorn, Distel, durch* to E. *thorn, thistle, through* (OHG sound shift).
[3] Cf. Att. τόσος, Hom. τόσσος 'so great' from PG *toti̯os.
[4] For accent in PIE cf. Gr. πατήρ 'father' (Verner's law).
[5] PIE *t, *k > OIr. *th, ch* between vowels regularly q.v. Appendix.

7. Goth. *hlifan*, Lith. *slẽpti*[6] = PIE *_ le _- 'steal'?

8. Skt. *rócate*, Lat. *lūx* = PIE *lou _ - 'light'?

9. Ved. *kravís-*, E. *raw*[7] = PIE *_ reu̯h$_2$- 'blood'?

10. Gr. πόσις,[8] Goth. *-faps*, Bret. *ozech*[9] = PIE *_ o _ i- 'lord' ?

11. Lat. *somnus*,[10] ON *svefn* = PIE *su̯o _ -/*su̯e _ -no- 'dream'?

12. Ved. *upári*, OHG *ubir*, Gaul. *ver-* = PIE *u _ er(i) 'above'?

13. Gr. δείκνῡμι, OHG *gi-zihan* = PIE *_ eiḱ- 'show'?

14. Lith. *dubùs*, OHG *tiuf, tiof* = PIE *_ u _ -/*_ eu _ - 'deep' ?

15. Skt. [accsg] *dyām*,[11] Gr. [accsg] Ζῆν[12] = PIE *_ i̯ēum 'Sky-father'?

16. Ved. *ójas*, ON *auka* = PIE *h$_2$eu _ - 'strength, increase'?

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[6]From *s-klep-. But cf. OPruss. *au-klipts*.
[7]From OE *hrēo* < PGmc. *xraiw-.
[8]Cf. Gr. [ʒpl] -ουσι from PIE *-onti.
[9]Cf. Bret. *bezu* 'birch' from PIE *g^{w}etu-.
[10]From *somnos < *sopnos < PIt. *su̯opnos.
[11]With Greek, from *di̯ēm < PIE *di̯ēum (Stang's law).
[12]Cf. Gr. πεζός from PIE *pedi̯os 'on foot'.

17. Hitt. *taru-*, Skt. *dā́ru* = PIE *_ oru- 'tree, wood'?

18. TB *tkācar*, Ved. *duhitár-*[13] = PIE *d^hu _ h_2 _ ēr 'daughter'?

19. Hitt. *wātar*, OHG *wazzar* = PIE *u̯o _ - 'water'?

20. TAB *yokäm*, Goth. [accsg] *juka*, Arm. *lowc*[14] = PIE *Hi̯ou _ -/Hi̯u _ o- 'yoke'?

21. Ved. [nomdu] *dvā́rāu*,[15] Lat. *foris* = PIE *_ u̯or- 'door'?

22. TA [3sg] *pälkässi*, TB *pälketär*, Lat. [3sg] *fulget* = PIE *_ l̥ _ - 'flash'?

23. Gr. θεός, Phry. *deo-*, Arm. [nompl] *dikʿ* = PIE *_ $h_1$so- 'god'?

24. Av. *mižda*, Goth. *mizdō*, OCS *mĭzda* = PIE *mis _ o-[16] 'retribution'?

25. Lat. *verbum*, Lith. *vařdas*= PIE *u̯er _ o- 'word'?

26. Lat. *ebulus*,[17] OPruss. *addle* = PIE *h_1e _ l- 'fir'?

27. Skt. *dáhati*, TB *tsäk-*,[18] Lat. *foveō*, Alb. *djeg* = PIE *_ e _ - 'burn'?

[13]Cf. Skt *máhi-*, *ahám* from PIE *meǵh_2- 'great', *h_1eǵHom 'I'.
[14]Initial *l-* possibly through contamination with *lowcanem* 'untie'.
[15]Skt. *dv-* instead of *dhv-*, possibly through analogy with *dvá*(*u*) '2'.
[16]PIE *-s- > *[-z-] /_C^{voiced} like in *nisdos [nizdos] 'nest'.
[17]Cf. Lat. *poculum* from PIE *peh$_3$tlom 'cup' (anaptyxis).
[18]Cf. TA *pats*, TB *petso* < PIE *poti- 'lord' (Tocharian 1. palatalization).

28. Gr. πείθω, Lat. *fīdō* = PIE *_ ei _ - 'convince, believe'?

29. Lat. [nompl] *aedēs*, OIr. *áed*, OE *ād* = PIE *$h_2$ei _ - 'burn'?

30. Gr. θρίξ, OIr. *-driuch* = PIE *_ ri _- 'hair'?

31. Gr. Att. μέσος,[19] Lat. *medius*, Goth. *midjis* = PIE *me _ i̯o- 'middle'?

32. Lat. *ruber*, OE *rēad* = PIE *$h_1$ru _ -ro-/*$h_1$rou _ -ro- 'red'?

33. Hitt. *nepišaš*, Lat. *nebula*, OE. *nifol* = PIE *ne _ - 'sky'?

34. OCS *bosŭ*, Arm. *bok*,[20] OHG. *bar*[21] = PIE *_ os- 'barefoot'?

35. Skt. *nápāt-*, Lat. [gensg] *nepōtis*, OE *nefa* = PIE *ne _ ō _ - 'nephew'?

36. TB *āke*, Lat. *acus*, Goth. *ahs* = PIE *h_2e _ -? 'sharp'

37. Ved. *rátha-*, Lat. *rota* = PIE *Hro_ _ - 'wheel'?

38. Hitt. *pattar*, OE *feðer*, OIr. *én*[22] = PIE *_ o _ -/*_ e _ - 'fly, wing'?

[19]Cf. Hom., Lesb. and Dor. μέσσος, Cret. μέττος.
[20]From PIE *b^{h}oso-go-.
[21]Cf. OHG [gensg] *tiores* from PGmc. *deuzas 'animal'.
[22]From PCelt. *pet-no-, cf. W. *edn*.

39. Gr. ὀφρῦς, OE. *brū* = PIE *h_3 _ ruH- 'eyebrow'?

40. Ved. *sájati*, OCS *ségti* = *se _ - 'bind'?

41. Gr. οἶκος, Lat. *vīcus*, Lith. *viẽš-*[23] = PIE *u̯oi _ - 'dwelling'?

42. Skt. *jóṣa-*, Gr. γεύω, Goth. *kiusan* = PIE *_ ous-/*_ eus- 'taste'?

43. Skt. *lih-*, OCS *lizati*, Lith. *liežiù* = PIE *li _ /*lei _ - 'lick'?

44. Ved. *hu-*, Lat. [1sgperf] *fūdī*, Goth. *giutan* = PIE *_ u- /_ eu- _ - 'pour'?

45. Av. *paēsa-*, Goth. *-faihs* = PIE *_ oi _ - 'varicolored'?

46. Skt. *náśyati*, Lat. *nex* = PIE *ne _ - 'perish'?

47. Skt. *śrávas*, Gr. κλέος, OCS *slovo*[24] = PIE *_ leu̯-os- 'glory'?

48. Skt. [gensg] *śúnas*, Lith. [gensg] *šuñs* = PIE *_ un- 'dog'?

49. Skt. *bāhú-*, Gr. πῆχυς,[25] OE. *bōg* = PIE *_ eh_2 _ u- 'forearm'?

[23]Instead of *vaiš-, regularly under accent.
[24]PIE *-eu̯o- > PSl. *-ou̯o-, through assimilation.
[25]Cf. also Dor. πᾶχυς.

50. Skt. *váhni-*, OIr. *fen*, OE. *wægn* = PIE *$*u̯e$ _ -n- 'road'?

51. Skt. *jñā-*, Lat. *nōscō*,[26] OCS *znati* = PIE *_ neh_3- 'know'?

52. Hitt. *parkuš*, Skt. *bṛhánt-*, OLat. *forctus*[27] = PIE *_ $r̥$ _ - 'high'?

53. Skt. *sagarbhya-*, Gr. ἀδελφός = PIE *$sm̥$- _ el _- 'brother' ?

54. Gr. θείνω,[28] Lat. *of-fendō* = PIE *_ en- 'kill'?

55. Gr. βαίνω,[29] Lat. *veniō* = PIE *_ $m̥$-$i̯$e/o- 'go, come'?

56. Ved. *niktá-*, Gr. χερ-νίπτομαι = PIE *ni _ - _ o- 'wash'?

57. Ved. *cakrá-*, Gr. κύκλος,[30] OE *hwēol*[31] = PIE *_ e _ lo- 'wheel'?

58. Ved. *áhi-*, Gr. ὄφις = PIE *h_3e _ i- 'snake'?

59. Gr. γυνή,[32] Goth. *qino*, OIr. *ben* = PIE *_ en- 'woman'?

[26]But *co-gnōscō* 'learn', *i-gnōscō* 'forgive' etc.
[27]From which Lat. *fortis*; ultimately from *$b^horǵ^h$-to-.
[28]From PG *$t^henḭō$.
[29]Cf. Gr. κοινός from PIE *komḭos.
[30]From *k^wuklos < *k^wuk^wlos < *k^wok^wlos < PIE *k^wek^wlos.
[31]Regular breaking before *-Cl-.
[32]From *gun- < *g^wun- < *g^won- < *g^wen-.

60. Ved. *raghú-*, Gr. ἐλαφρός = PIE *$h_1l̥n̥$ _ - 'light'?

61. Lat. *frendō*, OE *grindan*, Lith. [2sg] *gréndi* = PIE *_ ren _ - 'gnash'?

62. Gr. [gensg] ἀδένος, Lat. *inguen* = PIE *$n̥$ _ en- 'gland'?

63. Ved. *gharmá-*, Gr. θερμός, Lat. *formus* = PIE *_ er-mo-/*_ or-mo- 'warm'?

64. Gr. πολύ-θεστος,[33] OIr. *guidiu*[34] = PIE *_ e _ -?

65. Skt. *pácati*, Gr. πέσσω,[35] Lat. *coquō*[36] = PIE *_ e _ - 'cook'?

66. Ved. *śáye-*, Gr. κεῖμαι, Lith. *šeimà* = PIE *_ ei- 'lay'?

67. Ved. *áṁhas-*, Gr. ἄγχω, OCS *ǫzŭkŭ* = PIE *$h_2$en _ - 'narrow'?

68. Goth. *naqaþs*, OCS *nagŭ*, Lith. *nuógas*[37] = PIE *no _- 'nude'?

69. Ved. *páś-*, Gr. σκέπτομαι,[38] Lat. *speciō* = PIE *s- _ e _ - 'see, look'?

70. Ved. *śr̥ṅga-*, Lat. *cornū*, Goth. *haurn* = PIE *_ r̥n- 'horn'?

[33]From *$g^{wh}ed^h$-to-, cf. ἴστωρ 'wise man' < PIE *$u̯idtōr$.
[34]From *$g^{wh}ed^h$-i̯o-, cf. Gaul. [1sg] *uediúumi*.
[35]From *pek^w-i̯o-, cf. φυλάσσω 'guard' but φύλακος 'guardian'.
[36]Cf. Lat. *quinque, quercus* from *penk^{w}e 'five', *perk^{w}o- 'oak'.
[37]N.B. Winter's law: *nog^w- > PBSl. nōg-.
[38]PIE *s-pe$\acute{k}$- > Gr. *s-$\acute{k}$ep-, through metathesis.

71. Skt. *náktam*, Gr. νύξ,[39] Goth. *nahts* = PIE *no _ _ - 'night'?

72. Skt. *yákr̥-t*, Gr. ἦπαρ,[40] Lat. *iecor-* = PIE *i̯e _ r̥ 'liver'?

73. Skt. *bhā-*, Gr. φημί,[41] Lat. *fārī* = PIE *_ eh$_2$- 'speak'?

74. Skt. *káti-*, Gr. πόσος,[42] Lat. *quot* = PIE *_ o_ i 'how much'?

75. Ved. *pr̥śni-*, Gr. περκνός, W. *erch* = PIE *_ r̥ _ -/*_ er _ - 'varicolored'?

76. Gr. θέλω, OCS *želěti* = PIE *_ el- 'desire'?

77. Ved. *ákṣa-*, Gr. ἄξων, OCS *osĭ*, Lith. *ašis*[43] = PIE *h$_2$e _ _ - 'axle'?

78. Skt. *śvásiti*, TB *kwäs-*, Lat. *queror* = PIE *_ u̯e _ H- 'breathe'?

79. Ved. *syālá-*, OCS *šurĭ*,[44] Arm. *hor* = PIE *_ i̯oro-/*_ i̯ouro- 'brother-in-law'?

80. Ved. *óṣati*, Gr. εὔω, Lat. *ūrō* = PIE *h$_1$eu _ - 'burn'?

[39]But [gensg] νυκτός; notice Cowgill's law.
[40]Long vowel perhaps through analogy with ἦτορ 'heart'.
[41]Cf. also Dor. φᾱμί.
[42]From PG *k^{w}oti̯os.
[43]PIE*-ḱ- > PBSl. *-ś- before RUKI.
[44]Cf. OCS *nošǫ* from *nosjǫ 'carry'.

81. Av. *snaoδa-*, Lat. *nūbēs*[45] = PIE *_ neu _ - 'fog, cloud'?

82. Gr. ῥῖγος,[46] Lat. *frigus*[47]= PIE *_ riH _ -os- 'cold'?

83. Gr. σκέλος, Lat. *scelus*, OHG *scelah* = PIE *_ - _ el- 'crime'?

84. Gr. ἥλιος,[48] Goth. *sauil*, Lith. *sáulė* = PIE *_ eh_2u-el- 'sun'?

85. Ved. *ṛkṣa-*, Gr. ἄρκτος,[49] Lat. *ursus* = PIE *h_2r̥ _ _ o- 'bear'?

86. Skt. *sárp-*, Gr. ἕρπω, Lat. *serpō* = PIE *_ er _ - 'crooked'?

87. Gr. ὄζος, Goth. *asts*, Arm. *ast* = PIE *h_2o _ _o-[50] 'branch'?

88. Hitt. *laman*,[51] Ved. *nāman-*, Gr. ὄνομα = PIE *h_3_ (e)h_3-mn̥ 'name'?

89. Gr. μύλη,[52] Lat. *molō*, Goth. *malan* = ie. *_ o _ H- 'grind'?

90. Ved. *tám*, Gr. τόν, Lat. *is-tum* = PIE [accsg] *_ o_ 'that'?

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[45]Cf. *nurus* from PIE *snusos 'daughter-in-law'.
[46]Cf. Gr. ῥέω from PIE *sreu- 'flow'.
[47]Cf. Lat. *frāgum* 'strawberry' with Gr. ῥᾴξ 'grapes'.
[48]Cf. also Ep. ἠέλιος and Dor. ἀέλιος.
[49]Cf. Skt. *tákṣan-* with Gr. τέκτων 'carpenter'.
[50]Cp PIE *nisdo- [nizdo-] 'nest'. In Greek *[zd] gave ζ [zd].
[51]From *naman.
[52]From PG *molā (Cowgill's law).

91. Ved. *sána-*, Gr. ἕνος, Lat. *senex* = PIE *_ e _ - 'old'?

92. Ved. *gắm*, Gr. Ep. βῶν = *_ ō _ [53] 'cattle?'

93. Skt. *nár-*, Gr. ἀνήρ = PIE *h_2 _ e _ - 'man'?

94. Gr. ὀρφανός, Lat. *orbus*, OCS *rabŭ*[54] = PIE *h_3e _ _ - 'orphan'?

95. Gr. ὀμείχω, Lat. *mēiō*,[55] Lith. *minžù*[56] = PIE *h_3 _ ei _ - 'urinate'?

96. Skt. *jắnu-*, Gr. γόνυ, Lat. *genū*[57] = PIE *_ o _ -u-/*_ e _ -u- 'knee'?

97. Ved. *kr̥ṣṇá-*, OCS *črŭnŭ*, OPruss. *kirsnan* = PIE *_ _ _ _ o- 'black'?

98. Skt. *tatá-*, Lat. *tentus* = PIE *_ _ - _ o- 'stretched'?

99. Skt. *tárman-*, Gr. τέρμα, Lat. *termen* = PIE *_ e _ - _ _ 'border'?

100. Ved. *pr̥thú-*, Av. *pərəθu-*, Gr. πλατύς = *_ _ _ h_2u- 'wide'?

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[53] From PIE *gʷoum (Stang's law).
[54] From PSl. *orb-, through liquid metathesis.
[55] From PIt. *meiχ-i̯o/e-.
[56] From PIE *$h_3$mi-n-ǵʰ-.
[57] Petrified dual, cf. Lat. *cornū*.

101. Ved. *mr̥dú-*, Gr. βλαδύς,[58] Lat. *mollis*[59] = PIE *_ _ _ - 'soft'?

102. Goth. *dulgs*, OCS *dlŭgŭ*, OIr. *dligid* = PIE *_ _ _ - 'debt'?

103. Ved. *á-śtr̥ta-*, Gr. στρατός = PIE *_ _ _ - _ o- 'army'?

104. Skt. *matí-*, Gr. –ματος, Lat. [gensg] *mentis* = PIE *_ _ _ - 'thought'?

105. Hitt. *pangu*, Ved. *bahú-*, Gr. παχύς = PIE *_ _ _ u- 'thick'?

106. Ved. *asmā́n*, Gr. Aeol. ἄμμε,[60] OHG *uns* = PIE *_ _ (_ e) 'we'?

107. Skt. *gáti-*, Gr. βάσις, Goth. *ga-qumþs* = PIE *_ _ - _ i- 'walk, pace'?

108. Ved. *srávati*, Gr. ῥέω, OCS *struja*[61] = PIE *_ _ e_ - 'flow'?

109. Gr. ῥέζω,[62] Goth. *waurkjan*, Arm. *gorc* = PIE *_ e _ _ -/*_ o _ _- 'work'?

110. Ved. *márya-*, Gr. μεῖραξ = PIE *_ e_ _ o- 'girl'?

111. Av. *yārə*, Gr. ὥρα, Goth. *jer* = PIE *_ oh_1 _ -/*_ eh_1 _ - 'year'?

[58]PIE *mR- > Gr. βR-, cf. βροτός from PIE *mr̥-to- 'mortal'.
[59]From *molu̯i- < *mollu̯i- < PIt. *moldu̯i-.
[60]Cf. Aeol. ἔμμι from PIE *$h_1$esmi 'I am'.
[61]From *srouiā; for anaptyxis cf. *o-strovŭ* 'island'.
[62]From *u̯reǵ-i̯o/e- (Schwebeablaut).

112. Gr. ἄλλος, Lat. *alius* = PIE *h_2e_ _ o- 'other'?

113. Gr. ἔτος, OCS *vetŭxŭ*, Lith. *vẽtušas* = PIE *_ e_ - 'old'?

114. Ved. *śvaś-*,[63] Gr. ἑκυρά, OCS *svekry* = PIE *_ _ e_ - _ - 'mother-in-law'?

115. Goth. *harjis*, Gr. κοίρανος, Lith. *kãrias* = PIE*_ o_ _ o- 'army'?

116. OE *sūr*, OCS *syrŭ*, Lith. *sūras* = *_ _ _ _ o- 'whey'?

117. Ved. *ūdhar*, Gr. οὖθαρ,[64] Lat. *über* = PIE *h_1_ _ _ _ 'udder'?

118. Luw. *ḫāvīš*, Ved. *ávi-*, Gr. ὄις = PIE *h_3e_ _- 'sheep'?

119. Gr.ʾῑ́ός, Lat. *vīrus* = PIE *_ _ _ _ o- 'poison'?

120. Ved. *yásyati*, Gr. ζέω, OHG *jesan* = PIE *_ _ e_ - 'seethe'?

121. Gr. βῑ́ός, SCr. *žȋca/жӣца*[65] = PIE *_ _ _ -o- 'tendon'?

122. Ved. *yūṣ-*, Gr. ζῦ́μη,[66] Lat. *iūs*, OCS *juxa* = PIE *_ _ _ _ _ - 'soup'?

[63]Assimilated, from *svaś-, cf. *śmáśru-* 'chin' from *smáśru-.
[64]From *$h_1$oud^h- < *$h_1$ouHd^h- (Saussure's effect).
[65]N.B. Hirt's law and cf. Gr. θυμός to SCr. *dȋm/дӣм*.
[66]From PIE *Hi̯uHs-meh$_2$.

123. Ved. *jātá-*, Gr. -γνητος, Lat. *nātus*[67] = PIE *_ _ _ _ o- 'born'?

124. Ved. *āśīrta-*, Gr. ἄκρᾱτος = PIE *_ - _ _ _ - _ o- 'neat'?

125. Gr. τλητός,[68] Lat. *lātus*,[69] W. *tlawd* = PIE *_ _ _ - _ o- 'suffered'?

126. Gr. στρωτός, Lat. *strātus* = PIE *_ _ _ _ - _ o- 'laid'?

127. Skt. *gurú-*,[70] Gr. βαρύς, Goth. *kaurus* = PIE *_ _ h_2 _ - 'heavy'?

128. Ved. *dīrghá-*, Lith. *ìlgas*,[71] Goth. *tulgus* = PIE *_ _ h_1 _ o- 'long'?

129. Gr. ῥᾶξ, [gensg] ῥᾱγός, Lat. *frāgum* = PIE *_ _ _ _ o- 'berry'?

130. Gr. κλῆρος,[72] OIr. *clár*, W. *clawr* = PIE *_ _ h_2 _ o- 'beam'?

131. Gr. μύρμος,[73] Lat. *formīca*[74] = PIE *_ o_ _ - 'ant'?

132. Lat. *clingō*, OCS *klęčǫ*, Lith. *klénkti* = PIE *_ _ e _ _ - 'bend'?

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[67]Cf. Lat. *nōscō* from older *gnōscō*.
[68]Cf. also Dor. τλᾱτός.
[69]But cf. [1stpres] *tollō* and [1sgperf] *tulī*.
[70]Skt. *-ur-* instead of *-ir-* regularly in the neighbourhood of labials.
[71]PIE *dl- > Lith. *l-* regularly.
[72]Cf. also Dor. κλᾶρος.
[73]From PG *mormos (Cowgill's law).
[74]From PIt. *mormīca, through dissimilation.

133. Goth. *alls*,[75] OCS *lani*[76] = PIE *h_2e _ _ - 'from other side'?

134. Hitt. *ištarkzi*, Ved. *stṛháti* = PIE *_ _ _ _ - 'destroy'?

135. Skt. *vīrá-*, Lat. *vir*,[77] OIr. *fer* = PIE *_ _ _ _ o- 'man, hero'?

136. Hitt. *milit*, Gr. μέλι,[78] [gensg] μέλιτος, Goth. *miliþ*= PIE *_ e_ _ _ - 'honey'?

137. Ved. *vácas-*, Gr. ἔπος = PIE *_ e_ -os- 'word'?

138. Ved. *yás*, Gr. ὅς = PIE *H _ o- 'which'?

139. Ved. *dvís, dví-*, Lat. *bis, bi-*[79] = PIE *_ _ _ _ 'twice'?

140. Gr. ἕννῡμι,[80] Goth. *wasti* = PIE *_ e _ -/_ o _ - 'cloth'?

141. Ved. *svādú-*, Gr. ἡδύς, Lat. *suāvis* = PIE *_ _ eh_2 _ _ - 'sweet'?

142. Ved. *mádhu*, Gr. μέθυ, OCS *medŭ* = PIE *_ e_ - 'mead'?

143. Ved. [3plaor] *pravanta*, Gr. πλέω, Lat. [3sg] *pluit* = PIE *_ _ eu- 'pour'?

[75]Cf. Goth. *fulls* from PIE *pl̥$h_1$no- 'full'.
[76]From PSl. *olni (liquid metathesis).
[77]Lat. *viro-* < *u̯īro- (Dybo's shortening).
[78]Final consonants drop regularly in Greek.
[79]Cf. Lat. *bellum* from older *duellom* 'war'.
[80]From PIE *u̯es-n-.

144. Ved. *śíras-*, Gr. κάρη = PIE *_ _ _ - 'head'?

145. Ved. *úran-*, Gr. ἀρήν = PIE *_ _ _ _ - 'lamb'?

146. Gr. κόλπος, OE *hwealf* = PIE *_ _ _ _- 'vault'?

147. Hitt. *ḫaštāi-*, Ved. *ásthi*, Gr. ὀστέον = PIE *h_3e _ _ h_1- 'bone'?

148. Gr. φώγω, OE *bacan* = PIE *_ _ _ - 'bake'?

149. Skt. *váhati*, OCS *vezǫ*, Lith. *vežù* = PIE *_ _ _- 'convey, carry'?

150. Gr. ἔαρ, OCS *vesna*, Arm. *gar-un* = PIE *_ _ _ - _ -/*_ _ _ - _ - 'spring'?

151. Ved. [locsg] *héman*, Gr. χείμων, OCS *zima* = PIE *_ _ _ _- ? 'winter'

152. Gr. λώψ, OE *lōf* = PIE *_ _ _ _- 'mantle'?

153. Ved. *makṣú́*, Lat. *mox*, OIr. *mó* = PIE *_ _ _ _- 'soon'?

154. Ved. *rāj-*, Lat. *rēx*, [gensg] *rēgis*, OIr. *rí* = PIE *_ _ _ _- 'king'?

155. Skt. *uṣās*,[81] Gr. ἕως,[82] Lat. *aurōra* = PIE *_ _ _ _ _- 'dawn'?

[81]From PIE *$h_2$usō-.

[82]Cf. Gr. εὕω from PIE *$h_1$eus- 'singe'.

156. Gr. γέρανος, OCS *žeravĭ*, Lith. *gérvė* = PIE *_ _ _ h_2- 'crane'?

157. Skt. *catvā́rah*, Gr. Dor. τετόρες,[83] Lat. *quattuōr*[84] = PIE *_ _ _ _ _ _-[85] 'four'?

158. Ved. *andhá-*, Gaul. *anda-* = PIE *_ _ _ _- 'blind' ?

159. OLat. *arquos*, Goth. *arhvazna*= PIE *_ _ _ _ 'bow'?

160. Ved. *dhātár-*, Lat. *con-dītor*,[86] OCS *dětelĭ* = PIE *_ _ _ _ _- 'maker'?

161. Hitt. *paḫzi*, TB *pāsk-*, OCS *pasti* = PIE *_ _ _- 'fall'?

162. Skt. *dā́nam*, Lat. *dōnum* = PIE *_ _ _ _ _ _ 'gift'?

163. Gr. ἄμφω, Lat. *ambō* = PIE [du] *_ _ _ _ _ h_1 'both'?

164. Gr. ἐγώ, Lat. *ego*[87] = PIE *_ _ _ _ _ 'I'?

165. Gr. ὄνυξ, [gensg] ὄνυχος,[88] Lat. *unguis* =PIE *_ _ _ _- /_ _ _- 'nail'?

166. Lat. *ob-stāculum*, OE *staðol* = PIE *_ _ _ _- _ _ _- 'place' ?

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[83]Cf. Dor. [accsg] τέ from PIE *tu̯e 'you'.
[84]For original vocalism cf. Osc. *pettiur*
[85]N.B. Lat. *quáttuōr* vs. Skt. *carvā́rah*, Gr. τεσσάρες (*kʷetu̯ores* rule).
[86]PIE *ē > Lat. *ī* regularly in non-initial syllables.
[87]From PIt. *egō (iambic shortening).
[88]From PG *onokʰos (Cowgill's law).

167. Lat. *sērus*, OIr *sír* = PIE *_ _ _ - _ _- 'debt'?

168. Gr. ὀξύη,[89] OHG *asc*, Alb. *ah* = PIE *_ _ _ _- 'ash tree'?

169. Gr. ἐρεύγομαι, Lat. *ē-rūgō*,[90] Lith. *riáugmi* = PIE *_ _eu _- 'burp'?

170. Skt. *vā́ti*, TB *yente*,[91] Gr. [3sg] ἄησι, OCS *vějati* = PIE *_ _ _ _- 'blow'?

171. Gr. ἄνεμος, Lat. *animus* = PIE *_ _ _ _ _ _- 'breath'?

172. Skt. *rájas*, Gr. ἔρεβος, Arm. *erek* = PIE *_ _ _ _ - _ _ - 'dark'?

173. Gr. μακρός, Lat. *macer*, OHG. *magar* = PIE *_ _ ḱ - _ _-'big'?

174. Gr. ἀμέλγω, Lith. *mélžu*, OIr. *milgid* = PIE *_ _ _ _ _- 'milk'?

175. Gr. ὀλίγος, Arm. *alkʿat*, Lith. *ligà* = PIE *_ _ _ _ _- 'ill'?

176. Gr. ἄλεισον, Lat. *lītus*, Goth. *leiþu*, OCS *lějǫ* = PIE *_ _ ei- 'pour'?

177. Ved. *así-*, Lat. *ensis* = * PIE _ _ _- 'sword'?

[89]From PG *oskuā, through metathesis.
[90]Lat. *ē-* is a preposition, from *ēx*.
[91]PIE *u̯- > TB *y-* regularly.

178. Skt. *spr̥hyáti*, TAB *spärk-*, Gr. σπέρχω = PIE *_ _ _ _-/*_ _ _ _ _ 'spring'?

179. Lat. *collis*,[92] Lith. *kálnas* = PIE *_ _ _ _- 'hill'?

180. Gr. κῦδος, SCr. *čȕdo/чȕдо* = PIE *_ _ _ _- _ _- 'wonder'?

181. Gr. ἕζομαι,[93] Lat. *sedeō*, OCS *sědě̀ti*[94] = PIE *_ _ _- 'sit'?

182. Ved. *sácate*, Gr. ἕπομαι, Lat. *sequor* = PIE *_ __- 'follow'?

183. Ved. *sa-hásra-*,[95] Gr. Ion. χείλιοι[96] = PIE *_ _ _ _ _- 'thousand'?

184. Skt. *drā́ti*, Gr. [1sgaor] ἔδρᾱν = PIE *_ _ _ _- 'run'?

185. Gr. [inf] λῆδειν, Lat. *lēnis*, OCS *lěnŭ* = PIE *__ _ - 'light'?

186. Skt. *áyas*, Lat. *aës*, [gensg] *aëris*, Goth. *aiz* = PIE *_ _ _ _ _ - 'metal' ?

187. Gr. ἄροτρον, Lat. *arātrum*,[97] OCS *ralo*[98] = PIE *_ _ _ _ - _ _ _- 'plough'?

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[92]From PIt. *kolnis.
[93]From PG *hed-i̯o/e-.
[94]PSl. *sēd- < *sed- (Winter's law).
[95]From *sm̥-ǵʰeslo- 'one thousand'.
[96]Lengthed by compensation. Cf. also Aeol. χέλλιοι.
[97]Length by analogy with *arāre*.
[98]From PSl. *ordlo, through liquid metathesis.

188. Skt. *yábhati*, TB *yäp-*, OCS *jebǫ* = PIE *_ _ _ 'copulate'?

189. Skt. *éti*, Gr. εἶμι, OCS *iti* = PIE *_ _ _ - 'go'?

190. Gr. οἴνη, Lat. *ūnus*, Goth. *ains* = PIE *(H)_ _ - 'one'?

191. Ved. *rékṇas-*, Gr. λοιπός, OCS *otŭ-lěkŭ*, Lith. *ãt-laikas* = PIE *_ _ _ _ - 'remanent'?

192. Gr. μείγνυμι, Lith. *miẽšti*, OCS *měsiti* = PIE *_ _ _ _ - 'mix'?

193. Lith. *díegiu*, Lat. *fīvō*, OE *dīc* = PIE *_ _ _ _ - 'thrust in'?

194. Skt. *tvéṣate*, Gr. σείω[99] = PIE *_ _ _ _ - 'shake'?

195. Gr. ἐρείκω, Lith. *riekiù* = PIE *_ _ _ _ _ - 'crunch'?

196. Goth. *biugan*, OIr. *boc*[100] = PIE *_ _ _ _ - 'bend'?

197. Gr. λευγαλέος, Lat. *lūgeō*, Lith. *láužti*[101] = PIE *_ _ _ _ - 'sad'?

198. Gr. ἐλεύθερος, Goth. *liudan*, OCS *ljudĭje*= PIE *_ _ _ _ _ - 'free'?

[99]PIE *tu̯- > Gr. Att. σ- regularly, cf. [accsg] σέ from *tu̯e 'you'.
[100]PIE *eu > OIr. *o* regularly in front of velars.
[101]From PIE *louǵ-.

199. Lat. *auris*, Lith. *ausis*, OCS *uxo* = *_ _ _ _ - 'ear'?

200. Av. *raoxšna-*, Lat. *lūna*, OPruss. *lauxnos* = PIE *_ _ _ _ - _ _ _ - 'Moon'?

201. Ved. *rocá-*, Goth. *liuhaþ*, OCS *lučĭ* = PIE *_ _ _ _ - 'light'?

202. Goth. *þiuda*, Ill. Τεύτα = PIE *_ _ _ _ - 'people'?

203. TAB *sruk-*, Gr. στρεύγομαι = PIE *_ _ _ _ _ _ - 'exhaust'?

204. Ved. *ójas-*, Lat. *augur* = PIE *_ _ _ _ - 'strength'?

205. Gr. σπουδή, Lith. *spáuždiu* = PIE *_ _ _ _ _ - 'haste'?

206. Skt. *limpáti*,[102] Gr. λίπος, OCS *pri-lĭpjǫ* = PIE *_ _ _ - 'smear, stick'?

207. Skt. *náva*, Gr. ἐννέα,[103] OCS *devętĭ*[104] = PIE *_ _ _ _ _ 'nine'?

208. Gr. ἐν-έπω, OLat. [2sgimpv] *in-sece*, W. *hepp* = PIE *_ _ _ - _ _ _ - 'say'?

209. Hitt. *ḫarki-*, Skt. *árjuna-*, Gr. ἄργυρος = PIE *_ _ _ _ - 'white'?

[102]From PIE *li-n-p- [limp-].
[103]The geminate is unclear.
[104]From *nevętĭ, analogically with *desętĭ* 'ten'.

210. Gr. ὀρύσσω,[105] Lat. *rūga* = PIE *_ _ _ _ _ - 'dig'?

211. Gr. ὀμφή, Goth. *saggws* = PIE *_ _ _ _ - 'voice'?

212. Gr. ἀλφός, Lat. *albus*, SCr. *lȁbūd/лȁбӯд* = PIE *_ _ _ _ - 'white'?

213. Gr. αὔω, Lat. *hauriō*,[106] ON *ausa* = PIE _ _ _ _- 'scoop'?

214. Gr. αἰετός,[107] Lat. *avis* = PIE *_ _ _ _ - 'bird'?

215. Gr. νεφρός, OLat. [nompl] *nefrōnēs*[108] = PIE *_ _ _ - _ _ - 'kidney'?

216. Av. *ϑβərəsa-*, Gr. σάρξ, [gensg] σαρκός, OIr. *torc* = PIE *_ _ _ _ - 'cut'?

217. Gr. κράνος, Lat. *cornus*, Lith. *Kìrnis* = PIE *_ _ _ _ - 'cherry'?

218. Gr. ὀνειδίζω, Lith. *níedėti*, Arm. [aor] *anici*[109] = PIE *_ _ _ _ _ - 'revile'?

219. Ved. *ájati*, Gr. ἄγω, Lat. *agō*, Arm. *acem* = PIE *_ _ _ - 'drive'?

220. Ved. *máhi*, Gr. μέγα, Lat. *magnus* = PIE *_ _ _ h_2- 'big'?

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[105]From PG orugi̯ō.
[106]From PIt. *auriō, with hypercorrect *h-*.
[107]From PIE *$h_2$eu̯i-eto-.
[108]But cf. Lat. *febris* from PIE *d^heg^{wh}-ri- 'fever'.
[109]From PIE *$h_3$neid-s-.

221. Ved. *sūnú-*, Lith. *sūnùs*, SCr. *sîn/cûн*[110] = PIE *_ _ _ _ _ - 'son'?

222. Lat. *grānum*, OE *corn* = PIE *_ _ _ _ _- 'corn'?

223. Gr. μῦς, Lat. *mūs*, OCS *myšĭ*[111] = PIE *_ _ _ _ - 'mouse'?

224. Gr. [nomdu] ὄσσε,[112] Lat. *oculus*, OCS *oko* = PIE *_ _ _- 'eye'?

225. Skt. *náśati*, Gr. [inf] ἐνεγκεῖν, OCS *nesti* = PIE *_ _ _ _ 'reach'?

226. Skt. *ájra-*, Gr. ἀγρός, Goth. *akrs* = PIE *_ _ _ _ _ - 'field'?

227. Gr. ποινή, OCS *cěna*, Lith. *kainà* = PIE *_ _ _ _ _ 'punishment'?

228. Gr. [3sg] νείφει, OCS *sněgŭ*, Lith. *sniẽgas* = PIE *_ _ _ _ _ - 'snow'?

229. Gr. ἐνάτηρ, OCS *jętry*, Lith. *jéntė* = PIE *_ _ _ _ _ _ _ - 'wife of husband's brother'?

230. Hitt. *newa-*, Gr. νέος, Goth. *niujis* = PIE *_ _ _ - 'new'?

231. Skt. *kŕ̥mi-*, Lith. *kirmìs* = PIE _ _ _ _ - 'worm'?

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[110]N.B. Lith. [accsg] *sū́nų* vs. SCr. *sîn/cûн* (Meillet's law).

[111]PIE *muHs- > *mūs- > (RUKI) *mūš- > *mūx- > (1. pal.) mūši > OCS *myšĭ*.

[112]From PG *okʷi̯e < PIE *$h_3ek^wih_1$.

232. Skt. *vámiti*, Gr. ἐμέω = PIE _ _ _ _ - 'vomit'?

233. Hitt. *ešḫar*, Skt. *ásṛ-k*, Gr. ἔαρ = PIE *_ _ _ _ _ 'blood'?

234. Gr. ζῆλος,[113] SCr. *jâl/jâл* = PIE *_ _ _ _ - 'jealousy'?

235. Ved. *ubhnā́ti*, Gr. ὑφαίνω, OHG *weben* = PIE *_ _ -/*_ _ _ - 'weave'

236. Lat. *hostis*, Goth. *gasts*, OCS *gostĭ* = PIE _ _ _ _ _ 'stranger'?

237. Skt. *jániman-*, Lat. *germen*[114] = PIE _ _ _ _ - _ _ - 'offspring'?

238. Skt. *dá-dhāti*, Lat. [1sgperf] *fēcī* = PIE *_ _ _ - 'put, place'?

239. Gr. Hom. νυός, OHG *snur*, OCS *snŭxa* = PIE *_ _ _ _ - 'daughter-in-law'?

240. Skt. *duhitár-*, Gr. θυγάτηρ = PIE _ _ _ _ _ _ _ 'daughter'?

241. Gr. ἄ-δμητος,[115] Lat. *māteriēs*[116] = PIE *_ _ _ - _ _ - 'tamed'?

242. Skt. *jīvá-*, Lat. *vīvus* = PIE *_ _ _ _ _ - 'living'?

[113]Cf. also Dor. ζᾶλος.
[114]From *genmen, cf. Lat. *carmen* from *kanmen 'song'.
[115]Cf. also Dor. νεό-δμᾶτος.
[116]From PIt. *dmāt-.

243. Gr. ἀρόω, Lat. *arō* = PIE *_____ h_2 'plough'?

244. Gr. ὠιόν, Lat. *ōvum* = PIE *h_2 _____ 'egg'?

245. Skt. *dhvāntá-*, Gr. Dor. θνᾱτός = PIE *____-__- 'dead'?

246. Lat. *sēmen*, OCS *sěmę* = PIE *___-___- 'seed'?

247. Lat. *crābrō*,[117] Lith. *širšuõ* = PIE *___-__- 'hornet'?

248. Gr. ἐλλός, Lith. *élnis* = PIE *____- 'deer'?

249. OE *teran*, Arm. *terem* = PIE *___- 'tear'?

250. Skt. *ditá-*, Gr. δοτός, Lat. *datus* = PIE *__-__- 'given'?

[117]For PIE *-sr- > Lat. *-br-* cf. Lat. *cerebrum* 'brain' from *ḱerh$_2$sro-.

Key

1. *$h_2$epo
2. *t̥n̥h_2-
3. *t̥i̯eg^{w}-
4. *t̥r̥s-
5. *$h_3$ep-
6. *ph_2tēr
7. *klep-
8. *louk-
9. *kreu̯h_2-
10. *poti-
11. *sup-/*su̯ep-no-
12. *uper(i)
13. *deiḱ-
14. *d^{h}ub -/*d^{h}eub-
15. *di̯ēum
16. *$h_2$eug-
17. *doru-
18. *d^{h}ugh$_2$tēr
19. *u̯od-
20. *Hi̯oug-/Hi̯ugo-
21. *d^{h}u̯or-
22. *b^{h}l̥g-
23. *d^{h}$h_1$so-
24. *misd^{h}o-
25. *u̯erd^{h}o-
26. *$h_1$ed^{h}l-
27. *d^{h}eg^{wh}-
28. *b^{h}eid^{h}-
29. *$h_2$eid^{h}-
30. *d^{h}rig^{h}-
31. *med^{h}i̯o-
32. *$h_1$rud^{h}-ro-/*$h_1$roud^{h}-ro-

33. *neb^{h}-

34. *b^{h}os-

35. *nepōt-

36. *h$_{2}$ek-

37. *HrotH-

38. *pot-/*pet-

39. *h$_{3}$b^{h}ruH-

40. *seg-

41. *u̯oiḱ-

42. *ǵous-/*ǵeus-

43. *liǵ^{h}-/*leiǵ^{h}-

44. *ǵ^{h}u-/ǵ^{h}eu-d-

45. *poiḱ-

46. *neḱ-

47. *ḱleu̯-os-

48. *ḱun-

49. *b^{h}eh$_{2}$ǵ^{h}u-

50. *u̯eǵ^{h}-n-

51. *ǵneh$_{3}$-

52. *b^{h}r̥ǵ^{h}-

53. *sm̥-g^{w}elb^{h}-

54. *g^{wh}en-

55. *g^{w}m̥-i̯e/o-

56. *nig^{w}-to-

57. *k^{w}eklo-

58. *h$_{3}$eg^{wh}i-

59. *g^{w}en-

60. *h$_{1}$ln̥g^{wh}-

61. *g^{wh}rend^{h}-

62. *n̥g^{w}en-

63. *g^{wh}er-mo-/*g^{wh}or-mo-

64. *g^{wh}ed^{h}-

65. *pek^{w}-

66. *ḱei-

67. *h$_{2}$enǵ^{h}-

68. *nog^{w}-

69. *s-peḱ-

70. *ḱr̥n-

71. *nok^{w}t-

72. *i̯ek^{w}r̥

73. *b^{h}eh$_{2}$-

74. *k^{w}oti

75. *pr̥ḱ-/*perḱ-

76. *g^{wh}el-

77. *h$_{2}$eḱs-

78. *ḱu̯esH-

79. *si̯oro-/*si̯ouro-

80. *h$_{1}$eus-

81. *sneud^{h}-

82. *sriHg-os-

83. *skel-

84. *seh$_2$u-el-

85. *h$_2$r̥ḱto-

86. *serp-

87. *h$_2$osdo-

88. *h$_3$n(e)h$_3$-mn̥

89. *molH-

90. *tom

91. *sen-

92. *g^{w}ōm

93. *h$_2$ner-

94. *h$_3$erb^{h}-

95. *h$_3$meiǵ^{h}-

96. *gon-u-/*gen-u-

97. *kr̥sno-

98. *tn̥-to-

99. *ter-mn̥

100. *pl̥th$_2$u-

101. *ml̥d-

102. *d^{h}l̥g^{h}-

103. *str̥-to-

104. *mn̥t-

105. *b^{h}n̥ǵ^{h}u-

106. *n̥s(me)

107. *g^{w}m̥-ti-

108. *sreu̯-

109. *u̯erǵ-/*u̯orǵ-

110. *meri̯o-

111. *i̯oh$_1$r-/*i̯eh$_1$r-

112. *h$_2$eli̯o-

113. *u̯et-

114. *su̯eḱ-r-

115. *kori̯o-

116. *suHro-

117. *h$_1$uHd^{h}r̥

118. *h$_3$eu̯i-

119. *u̯iHso-

120. *Hi̯es-

121. *g^{w}iH-

122. *Hi̯uHs-

123. *ǵnh$_1$-to-

124. *n̥-ḱrh$_2$-to-

125. *tl̥h$_2$-to-

126. *str̥$_3$-to-

127. *g^{w}r̥h$_2$u-

128. *dl̥h$_1$g^{h}o-

129. *srh$_2$go-

130. *kl̥h$_2$ro-

131. *morm-

132. *kleng-

133. *$h_2$eln-

134. *st̥r̥ǵʰ-

135. *u̯iHro-

136. *melit-

137. *u̯ekʷ-os-

138. *Hi̯o-

139. *du̯is

140. *u̯es-/*u̯os-

141. *su̯eh$_2$du-

142. *medʰ-

143. *pleu-

144. *ḱr̥h$_2$-

145. *u̯r̥h$_1$n-

146. *kʷolp-

147. *h$_3$esth$_1$-

148. *bʰōg-

149. *u̯eǵʰ-

150. *u̯es-r-/*u̯es-n-

151. *ǵʰeim-

152. *loHp-

153. *moks-

154. *Hrēǵ-

155. *h$_2$eusō-

156. *ǵerh$_2$-

157. *kʷetu̯or-

158. *h$_2$endʰ-

159. *h$_2$erkʷ-

160. *dʰeh$_1$ter-

161. *peh$_2$-

162. *deh$_3$nom

163. *h$_2$embʰoh$_1$

164. *h$_1$eǵoh$_2$

165. *h$_3$nogʷʰ-/*h$_3$n̥gʷʰ-

166. *steh$_2$-tlo-

167. *seh$_1$-ro-

168. *h$_3$esk-

169. *h$_1$reug-

170. *h$_2$u̯eh$_1$-

171. *h$_2$enh$_1$mo-

172. *h$_1$regʷ-os-

173. *mh$_2$ḱ-ro-

174. *h$_2$melǵ-

175. *h$_3$ligo-

176. *h$_2$lei-

177. *n̥si-

178. *spr̥ǵʰ-/*sperǵʰ-

179. *koln-

180. *kuHd-os-

181. *sed-

182. *sek^{w}-

183. *ǵ^{h}eslo-

184. *dreh$_{2}$-

185. *leh$_{1}$-

186. *h$_{2}$ei-os-

187. *h$_{2}$erh$_{3}$-tro-

188. *i̯eb^{h}-

189. *h$_{1}$ei-

190. *(H)oin-

191. *loik^{w}-

192. *meiḱ-

193. *d^{h}eig^{w}-

194. *tu̯eis-

195. *h$_{1}$reik-

196. *b^{h}eug-

197. *leuǵ-

198. *h$_{1}$leud^{h}-

199. *h$_{2}$eus-

200. *louk-sno-

201. *leuk-

202. *teut-

203. *streug-

204. *h$_{2}$eug-

205. *spoud-

206. *lip-

207. *h$_{1}$neu̯n

208. *h$_{1}$en-sek^{w}-

209. *h$_{2}$erǵ-

210. *h$_{3}$rug-/h$_{3}$roug-

211. *song^{wh}-

212. *h$_{2}$elb^{h}-

213. *h$_{2}$eus-

214. *h$_{2}$eu̯i-

215. *neg^{wh}-ro-

216. *tu̯r̥ḱ-

217. *kr̥no-

218. *h$_{3}$neid-

219. *h$_{2}$eǵ-

220. *meǵh$_{2}$-

221. *suHnu-

222. *ǵr̥h$_{2}$no-

223. *muHs-

224. *h$_{3}$ek^{w}-

225. *h$_{1}$neḱ-

226. *h$_{2}$eǵro-

227. *k^{w}oineh$_{2}$

228. *sneig^{wh}-

229. *i̯enh$_2$ter-

230. *neu-

231. *kr̥mi-

232. *u̯emh$_1$-

233. *h$_1$esh$_2$r̥

234. *Hi̯eh$_2$-

235. *ubʰ-/*u̯ebʰ-

236. *gʰosti-

237. *ǵenh$_1$-mn-

238. *dʰeh$_1$-

239. *snus-

240. *dʰugh$_2$tēr

241. *dm̥h$_2$-to-

242. *gʷiHu̯o-

243. *h$_2$erh$_3$oh$_2$

244. *h$_2$ōui̯om

245. *dʰu̯n̥h$_2$-to-

246. *seh$_1$-men-

247. *ḱr̥h$_2$-sr-

248. *h$_1$eln-

249. *der-

250. *dh$_3$-to-

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Synopsis polyglotta

1. Preface — Gr. Προλεγόμενα — Lat. *Praefatio* — Fr. *Avant-propos* — It. *Prefazione* — G. *Vorwort* — Ru. *Предисловие*.

2. Abbreviations — Gr. Συντομογραφίαι — Lat. *Abbreviationes* — Fr. *Abréviations* — It. *Abbreviazioni* — G. *Abkürzungen* — Ru. *Сокращения*.

3. Pronunciation — Gr. Προφορά — Lat. *Pronuntiatio* — Fr. *Prononciation* — It. *Pronuncia* — G. *Aussprache* — Ru. *Произношение*.

4. Exercises — Gr. Γυμνάσματα — Lat. *Exercenda* — Fr. *Exercices* — It. *Esercizi* — G. *Übungen* — Ru. *Упражнения*.

5. Key — Gr. Λύσεις — Lat. *Solutiones* — Fr. *Solutions* — It. *Soluzioni* — G. *Lösungen* — Ru. *Решения*.

6. References — Gr. Βιβλιογραφία — Lat. *Fontes* — Fr. *Bibliographie* — It. *Bibliografia* — G. *Literatur* — Ru. *Библиография*.

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INDO-EUROPEAN SOUND LAWS

PIE Plosives			
Labials	*p	*b	*b^{h}
Alveolars	*t	*d	*d^{h}
Palatovelars	*ḱ	*ǵ	*ǵ^{h}
Plain Velars	*k	*g	*g^{h}
Labiovelars	*k^{w}	*g^{w}	*g^{wh}

PIE Non-Plosives	
Fricative	*s

PIE Resonants			
Liquids	*r	*l	
Nasals	*m	*n	
Laryngeals	*h$_{1}$	*h$_{2}$	*h$_{3}$
Semivowels	*i̯	*u̯	

PIE Vowels			
Short	a (?)	e	o
Long	ā (?)	ē	o

1. PIE Consonants

PIE	Hitt.	Skt.	Av.	Toch.	Gr.	Lat.	OIr.	Goth.	OCS	Lith.	Alb.	Arm.
*p	p-, pp	p, ph^{b}	p, f^{d}	p	π	p	Ø	f, b^{n}	p	p	p	h, w^{e}
*t	t-, tt, z^{a}	t, th^{b}	t, θ^{d}	t, c^{a}	τ	t	t, th^{j}	þ, d^{n}	t	t	t	t^{c}
*k	k-, kk	k, c,^{a} kh^{b}	k, c,^{a} x^{d}	k, ś^{a}	ϰ	c	c, ch^{j}	h, g^{n}	k, č,^{a} c^{o}	k	k	k^{c}
*b	p	b	b, β^{e}	p	β	b	b	p	b	b	b	p
*d	t	d	d, δ^{e}	t, ts^{a}	δ	d	d	t	d	d	d, dh^{j}	t
*g	k	g, j^{a}	g, j,^{a} γ^{e}	k, ś^{a}	γ	g	g	k	g, ž,^{a} dz^{o}	g	g	k
*b^{h}	p	bh	b, β^{e}	p	φ	f-, b	b	b	b	b	b	b
*d^{h}	t	dh	d, δ^{e}	t, ts^{a}	θ	f-, d, b^{k}	d	d	d	d	d	d
*g^{h}	k	gh, h^{a}	g, j,^{a} γ^{e}	k, ś^{a}	χ	h	g	g	g, ž,^{a} dz^{o}	g	g	g, ǰ^{a}
*ḱ	kk	ś	s	k, ś^{a}	ϰ	c	c, ch^{j}	h, g^{n}	s	š	th	s
*ǵ	k	j	z	k, ś^{a}	γ	g	g	k	z	ž	dh	c
*ǵ^{h}	k	h	z	k, ś^{a}	χ	h	g	g	z	ž	d	j
*k^{w}	kku	k, c,^{a} kh^{b}	k, c,^{a} x^{d}	k, ś^{a}	π, τ,^{a} ϰ^{h}	qu, c^{l}	c, ch^{j}	hʊ	k, č,^{a} c^{o}	k	k, s,^{a} q^{o}	k^{c}
*g^{w}	ku	g, j^{a}	g, j,^{a} γ^{e}	k, ś^{a}	β, δ,^{a} γ^{h}	u, gu^{m}	b	q	g, ž,^{a} dz^{o}	g	g, z,^{a} gj^{o}	k
*g^{wh}	ku	gh, h^{a}	g, j,^{a} γ^{e}	k, ś^{a}	φ, θ,^{a} χ^{h}	f-, u/b	g	w	g, ž,^{a} dz^{o}	g	g, z,^{a} gj^{o}	g, ǰ^{a}
*s	š	s, ṣ^{c}	h, s,^{f} š^{c}	s, ṣ^{a}	ʿ-, σ,^{i} Ø^{j}	s, r^{j}	s, h^{j}	s, z^{n}	s, x^{c}	s, š^{c}	sh, h^{j}	h, Ø^{j}, š^{c}

Notes: a. before PIE *i, *e; b. before PIE *H; c. after PIE *r, *u, *k, *i ('RUKI-rule'); d. before PIE *C or *H; e. after V; f. before PIE *p, *t, *k; g. before PIE *R; h. before PIE *u; i. before of after C and word finally; j. between Vs; k. after PIE *u, *r or before PIE *r, *l; l. before PIE *u, *o; m. after PIE *n; n. after PIE unstressed V ('Verner's law'); o. before post-PIE front vowels.

2. PIE Resonants

PIE	Hitt.	Skt.	Av.	Toch.	Gr.	Lat.	OIr.	Goth.	OCS	Lith.	Alb.	Arm.
*r	r	r	r	r	ρ	r	r	r	r	r	r, rr^{b}	r
*l	l	r/l	r	l	λ	l	l	l	l	l	l, ll^{b}	l
*m	m, -n	m	m	m	μ, -ν	m	m	m	m	m	m	m
*n	n	n	n	n, ñ^{a}	ν	n	n	n	n	n	n	n
*i̯	y	y	y	y	ʿ, Ø^{b}	i, Ø^{b}	Ø	j	j	j	gj	Ø
*u̯	w	v	v	y-, w	ʿ/Ø, Ø^{b}	v	f, Ø^{b}	w	v	v	v	g

Notes: a. before PIE *i, *e; b. between Vs.

PIE	Hitt.	Skt.	Av.	Toch.	Gr.	Lat.	OIr.	Goth.	OCS	Lith.	Alb.	Arm.
*ṛ	ar	ṛ	ərə	är	ρα/ρα	or	*ar	aur	rĭ/rŭ	ir/ur	ri	ar
*ḷ	al	ṛ	ərə	äl	λα/αλ	ol	*al	ul	lĭ/lŭ	il/ul	li	al
*m̥	am	a	a	äm	α	em	*am	um	˂	im/um	a	am
*n̥	an	a	a	än	α	en	*an	un	˂	in/un	a	an
*i	i	i	i	ä	ι	i	i	i	ĭ	i	i	i
*u	u	u	u	ä	υ	u	u	u	ŭ	u	u	u
*h$_1$	a-	Ø-, i	Ø-, i/Ø	Ø	ε	Ø-, a	Ø-, a	Ø-, a/Ø	Ø	Ø	Ø	e-/i-, a/Ø
*h$_2$	h̯V-	Ø-, i	Ø-, i/Ø	Ø	α	Ø-, a	Ø-, a	Ø-, a/Ø	Ø	Ø	Ø	a-, a/Ø
*h$_3$	h̯V-	Ø-, i	Ø-, i/Ø	Ø	ο	Ø-, a	Ø-, a	Ø-, a/Ø	Ø	Ø	Ø	o/a-, a/Ø

3. PIE *RH, *VH, *HV

*HV	*h$_1$e ≈ *e, *h$_2$e ≈ *a, *h$_3$e ≈ *o, *Ho ≈ *o, *Hē ≈ ē
*VH	*eh$_1$ ≈ *ē, *eh$_2$ ≈ *ā, eh$_3$ ≈ *ō, *oH ≈ *ō, *ēH ≈ *ē
*RH	*iH ≈ *ī, *uH ≈ *ū

4. PIE Vowels and Diphthongs

PIE	Hitt.	Skt.	Av.	Toch.	Gr.	Lat.	OIr.	Goth.	OCS	Lith.	Alb.	Arm.
*e	e/i	a	a	ä	ε	e	e	i	e	e	je, ja[c]	e
*o	a	a, ā[a]	a, ā[a]	e	ο	o	o	a	o	a	a	o/a
*h$_2$e/a	h̯a	a	a	ā	α	a	a	a	o	a	a	a
*ē/*eh$_1$	e	ā	ā	a/e	η	ē	í	ē	ě	ė	o	i
*ō/eh$_3$	a	ā	ā	ā	ω	ō	á	ō	a	uo	e	u
*eh$_2$	ah̯	ā	ā	ā	ᾱ, η[b]	ā	á	ō	a	o	o	a

*iH	i	ī	ī	yā	ῑ	ī	í	ei	i	y	i	i
*uH	u	ū	ū	wā	ῡ	ū	ú	ū	y	ū	y	u

*ei	e	e	aē/ōi	i	ει	ī	ía/é	ei	i	ie/ei	i	ē
*oi	e/ai	e	aē/ōi	e/ai	οι	oe/ū	óe	ai	ě	ie/ai	e	ē
*h$_2$ei/ai	e/ai	e	aē/ōi	e/ai	αι	ae	áe	ai	ě	ie/ai	e	ay
*eu	u	o	ao/əū	u	ευ	ū	úa/ó	iu	ju	iau	e	oy
*ou	u/au	o	ao/əū	o/au	ου	ū	úa/ó	au	u	au	a	oy
*h$_2$eu/au	u/au	o	ao/əū	o/au	αυ	au	úa/ó	au	u	au	a	aw

Notes: a. in open syllable ('Brugmann's law'); b. in Ionic-Attic only; c. in closed syllable.

5. PIE Sound Laws

Bartholomae's law:	PIE *C^{h}C > PIE *CC^{h}
Szemerényi's law:	PIE *-VRs, *-VRH > PIE *-V:R
Stang's law:	PIE *-VRN, *-VNN, *-VHN > PIE *-V:N
Siebs' law:	PIE *s-mobile + C^{voiced} > PIE *sC^{voiceless}