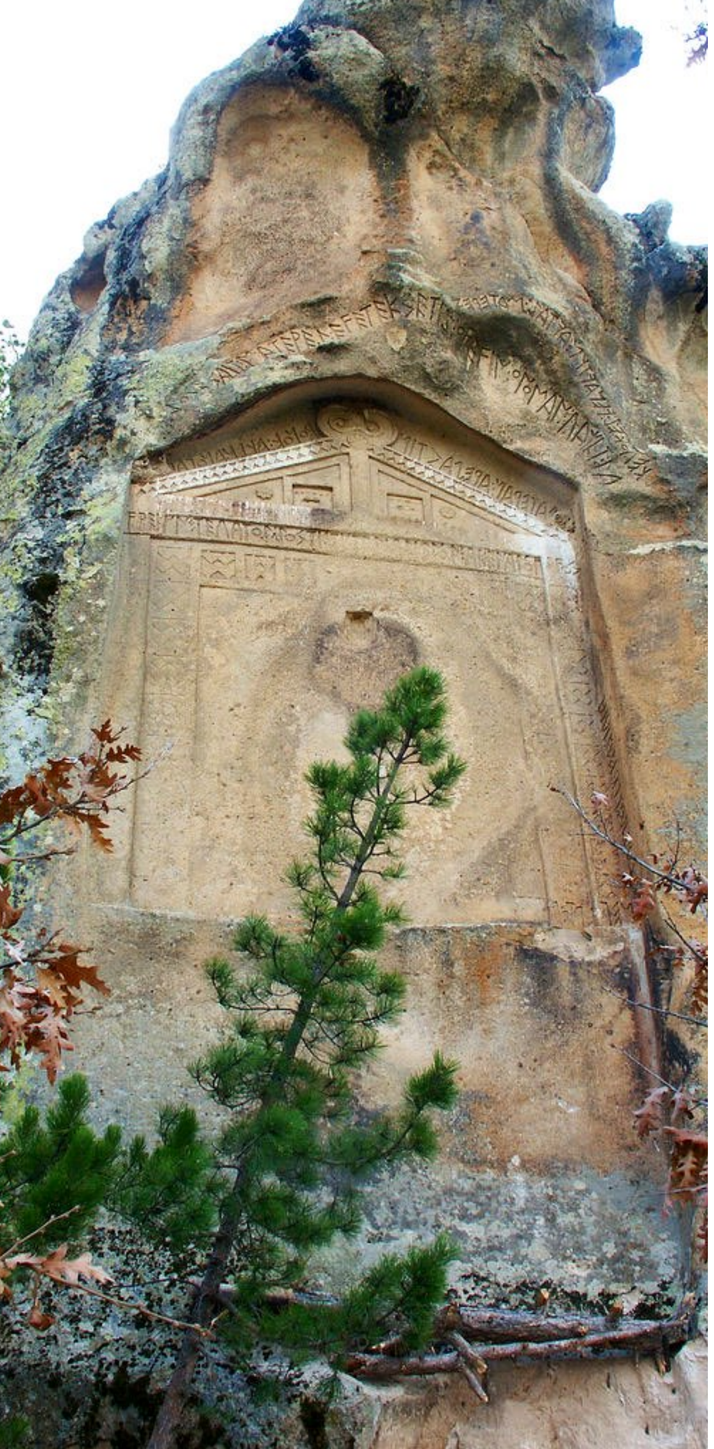


A Reconstruction of Proto-Graeco-Phrygian Phonology

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Spring Seminar in Indo-European Linguistics

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Intro — Innovations in Phrygian

the loss of PIE *h_1V into **ø**
the formation of pf stem ***d^heh_1-k-**
the formation of 3pl ipv praes act in ***-nt-ō(d)**
the adoption of ***-oi** in *o*-stem nom mpl
the adoption of ***-ōis** in *o*-stem dat pl
the formation of PIE augment ***h_1e**
the use of 3sg ind praes med in ***-toi**
the merger of PIE *-*m* and *-*n* into ***-n**
the vocalization of PIE *$\underset{\circ}{R}h_3C$ into ***Rō**
the vocalization of PIE *$C\underset{\circ}{h}_{1/2/3}(C)$ into ***e**, ***a**, ***o**
the palatalization of PIE *$K\underset{\wedge}{i}$- into ***ts-**
the formation of *eh_2-stem nom msg in ***-eh$_2$-s**
the formation of 3sg ipv praes med in ***-t^{s}d^h-ō(d)**
the formation of the pronoun ***h$_2$eu+to-**
the formation of *$g^{\text{u}}\underset{\times}{\text{n}}$-**(e)h$_2$-i-k-** 'woman'
the development of ***-ns** into ***-is**

Lex Rix

the vocalization of *$\underset{\circ}{R}HV$ into ***aRV**
the debuccalization of PIE *s- into ***h**
the debuccalization of PIE *VsV into ***h**
the raising of PIE *o to ***u** in front of *Ncf.
the raising of PIE *e to ***i** in front of PIE *N
the vocalization of PIE *-$\underset{\circ}{m}$ > *-$\underset{\circ}{n}$ into ***-an**
the devoicing of PIE **mediae**
the lowering of PIE *$\bar{e}$ into ***ā**
the development of *nt into ***nn**
the formation of *e*-stem nom sg in ***-e-s**
the adoption of gen sg *-*so* > ***-ho** in *e*-stems
the adoption of 3sg ***-e-t** in ind (?) praes act
the formation of 3sg ind aor act in ***-es-t**
the adoption of 3sg ***-toi** in ind aor (?) med
…

Intro — Innovations in Phrygian

NON-ANATOLIAN

the loss of PIE *h_1V into **ø**

the formation of pf stem ***d^heh_1-k**-

the formation of 3pl ipv praes act in *-**nt-ō(d)**

the adoption of *-**oi** in *o*-stem nom mpl

the adoption of *-**ōis** in *o*-stem dat pl

the formation of PIE augment ***h_1e**

the use of 3sg ind praes med in *-**toi**

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the vocalization of PIE *$C\underset{\circ}{h}_{1/2/3}(C)$ into ***e**, ***a**, ***o**

the palatalization of PIE *$K\underset{\wedge}{i}$- into ***ts**-

the formation of *eh_2-stem nom msg in *-**eh_2-s**

the formation of 3sg ipv praes med in *-**t^sd^h-ō(d)**

the formation of the pronoun ***$h_2$eu+to-**

the formation of *$g^{\text{u}}\!\!\!\!\!\!\text{x}n$-**(e)$h_2$-i-k**- ‘woman’

the development of *-**ns** into *-**is**

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the raising of PIE *e to ***i** in front of PIE *N

the vocalization of PIE *-$\underset{\circ}{m}$ > *-$\underset{\circ}{n}$ into *-**a***n*

the devoicing of PIE **mediae**

the lowering of PIE *$\bar{e}$ into ***ā**

the development of *nt into ***nn**

the formation of *e*-stem nom sg in *-**e-s**

the adoption of gen sg *-*so* > *-**ho** in *e*-stems

the adoption of 3sg *-**e-t** in ind (?) praes act

the formation of 3sg ind aor act in *-**es-t**

the adoption of 3sg *-**toi** in ind aor (?) med

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Intro — Innovations in Phrygian

GREEK, LATIN

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Intro — Innovations in Phrygian

INDO-IRANIAN, GREEK, ARMENIAN

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the vocalization of PIE *$C\underset{\circ}{h}_{1/2/3}(C)$ into ***e**, ***a**, ***o**

the palatalization of PIE *$K\underset{\wedge}{i}$- into ***ts**-

the formation of *eh_2-stem nom msg in *-**eh_2-s**

the formation of 3sg ipv praes med in *-**t^sd^h-ō(d)**

the formation of the pronoun ***$h_2$eu+to-**

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the formation of *eh_2-stem nom msg in *-***e**h_2-**s**

the formation of 3sg ipv praes med in *-***t**^{s}**d**^{h}-**ō**(**d**)

the formation of the pronoun ***$h_2$eu**+**to-**

the formation of *$g^u\!\!\!\!\!\!\times n$-(**e**)**h_2-i-k**- ‘woman’

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the formation of *eh_2-stem nom msg in *-***eh_2-s**

the formation of 3sg ipv praes med in *-***t^sd^h-ō**(**d**)

the formation of the pronoun ***$h_2$eu**+**to-**

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the formation of *$g^u\!\!\!

Intro — Innovations in Phrygian

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Intro — Innovations in Phrygian

PHRYGIAN

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the adoption of 3sg *-***toi** in ind aor (?) med

…

Intro — Innovations in Phrygian

GREEK, GREEK + SOME OTHER LANGUAGE(S)

the loss of PIE *h_1V into ***ø***

the formation of pf stem *$\mathbf{d^heh_1}$-**k**-

the formation of 3pl ipv praes act in *-**nt**-**ō**(**d**)

the adoption of *-**oi** in *o*-stem nom mpl

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the formation of PIE augment *$\mathbf{h_1e}$

the use of 3sg ind praes med in *-**toi**

the merger of PIE *-*m* and *-*n* into *-**n**

the vocalization of PIE *$\underset{\circ}{R}h_3C$ into *$\mathbf{R\bar{o}}$

the vocalization of PIE *$C\underset{\circ}{h}_{1/2/3}(C)$ into ***e**, ***a**, ***o**

the palatalization of PIE *$K\underset{\wedge}{i}$- into *$\mathbf{ts}$-

the formation of *eh_2-stem nom msg in *-$\mathbf{eh_2}$-**s**

the formation of 3sg ipv praes med in *-$\mathbf{t^sd^h}$-**ō**(**d**)

the formation of the pronoun *$\mathbf{h_2eu}$+**to-**

the formation of *$g^{\text{u}}n$-(**e**)$\mathbf{h_2}$-**i**-**k**- ‘woman’

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Proto-Graeco-Phrygian?

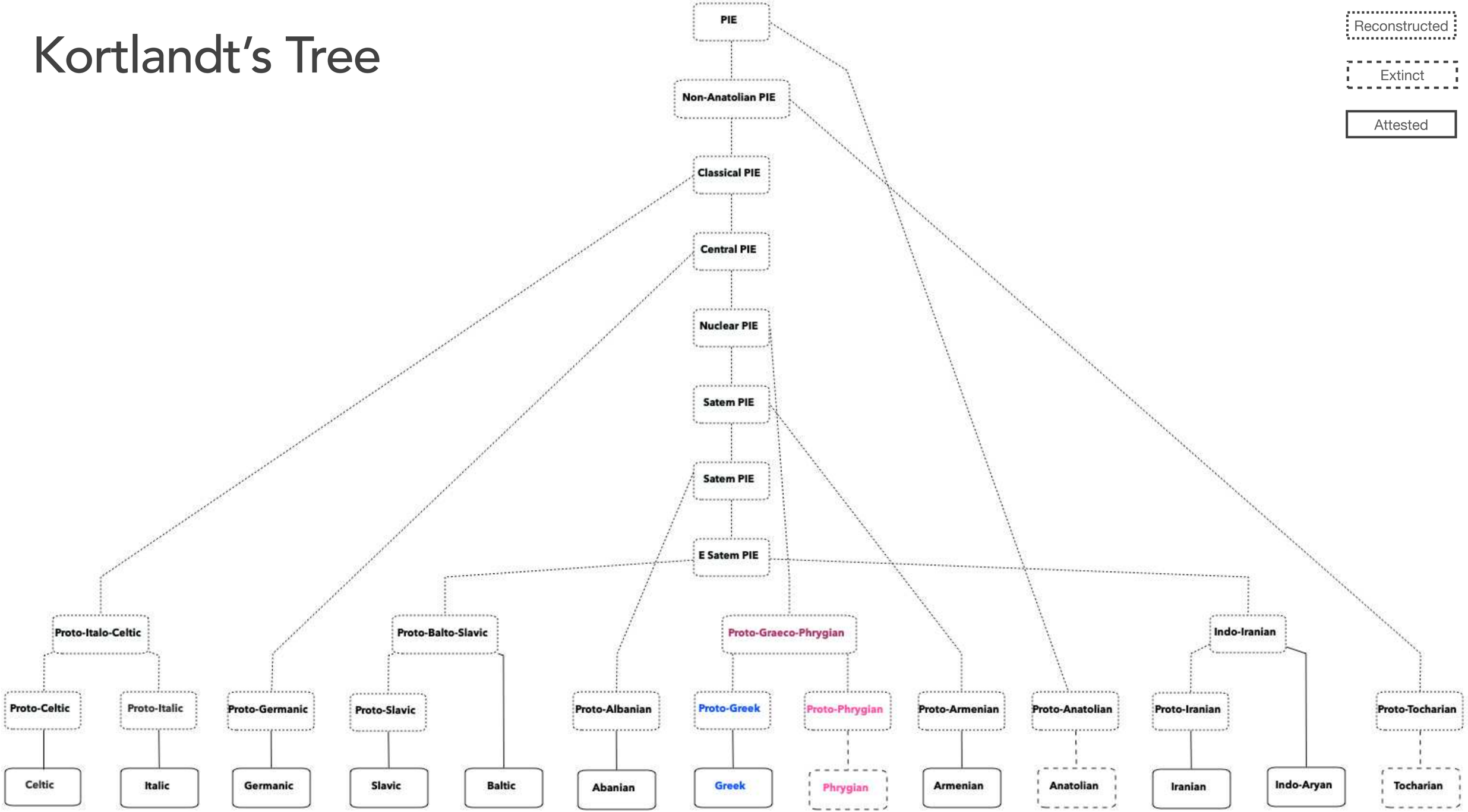
Proto-Graeco-Phrygian?

- Лигорио, Орсат, Александр Лубоцкий. **Фригийский язык.** *Языки мира* : *Реликтовые индоевропейские языки Передней и Центральной Азии*, 180–195. (Ред. Ю. Б. Коряков, А. А. Кибрик. Москва: Academia, 2013.)
- Obrador-Cursach, Bartomeu. **On the place of Phrygian among the Indo-European Languages.** *Journal of Language relationship* 17/3, 2017, 233–245.
- Kortlandt, Frederik. **The disintegration of the Indo-European Language Family**. *Etymologus* [Fs. Blažek], 267–276. Hamburg: Baar, 2020
- Obrador-Cursach, Bartomeu. ***The Phrygian Language***. Leiden-Boston: Brill, 2020.

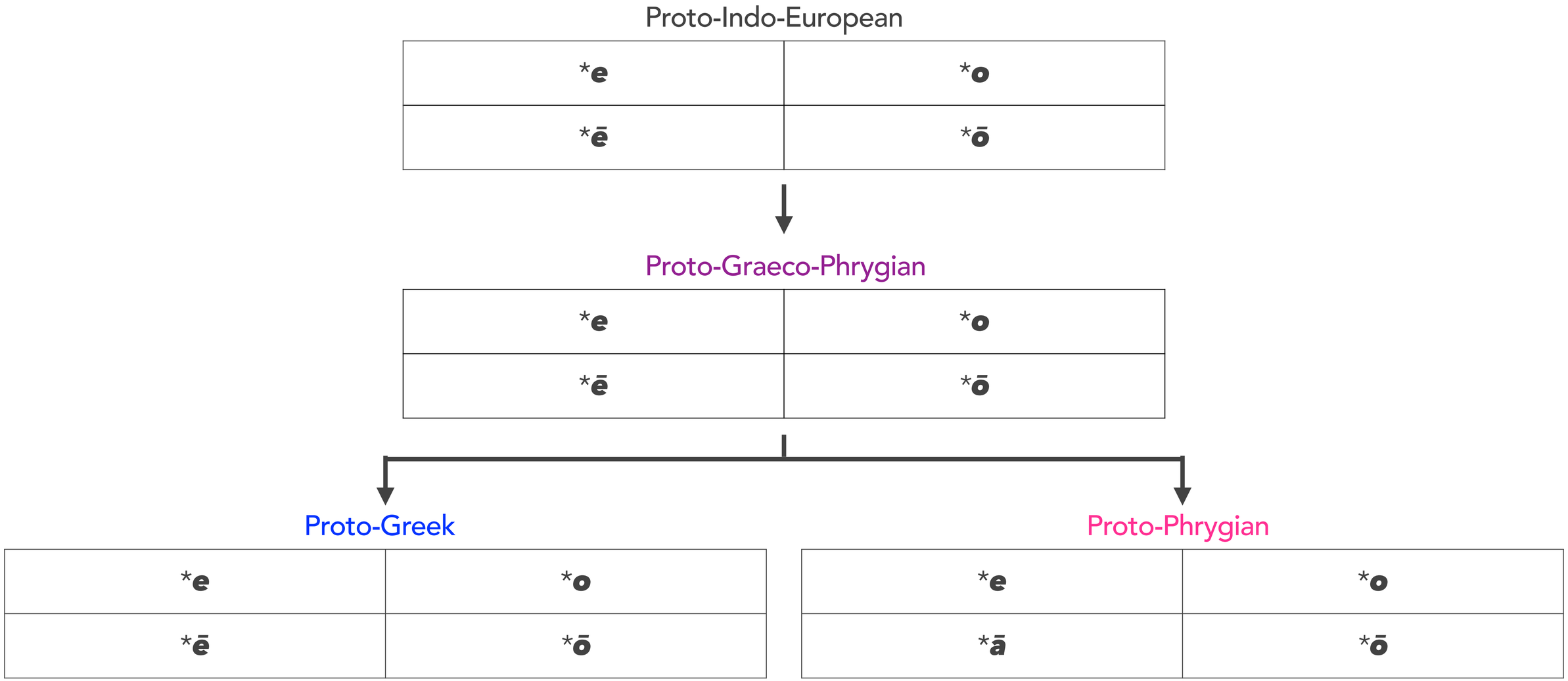
"The last half century of scientific study of Phrygian has approached both languages and deceloped the hypothesis of a Proto-Graeco-Phrygian language, to the detriment to other theories like Phrygio-Armenian or Thraco-Phrygian. The result of this study, as fragmentary as our knowledge of Phrygian, is consistent with this view."

– Obrador-Cursach 2017: 243

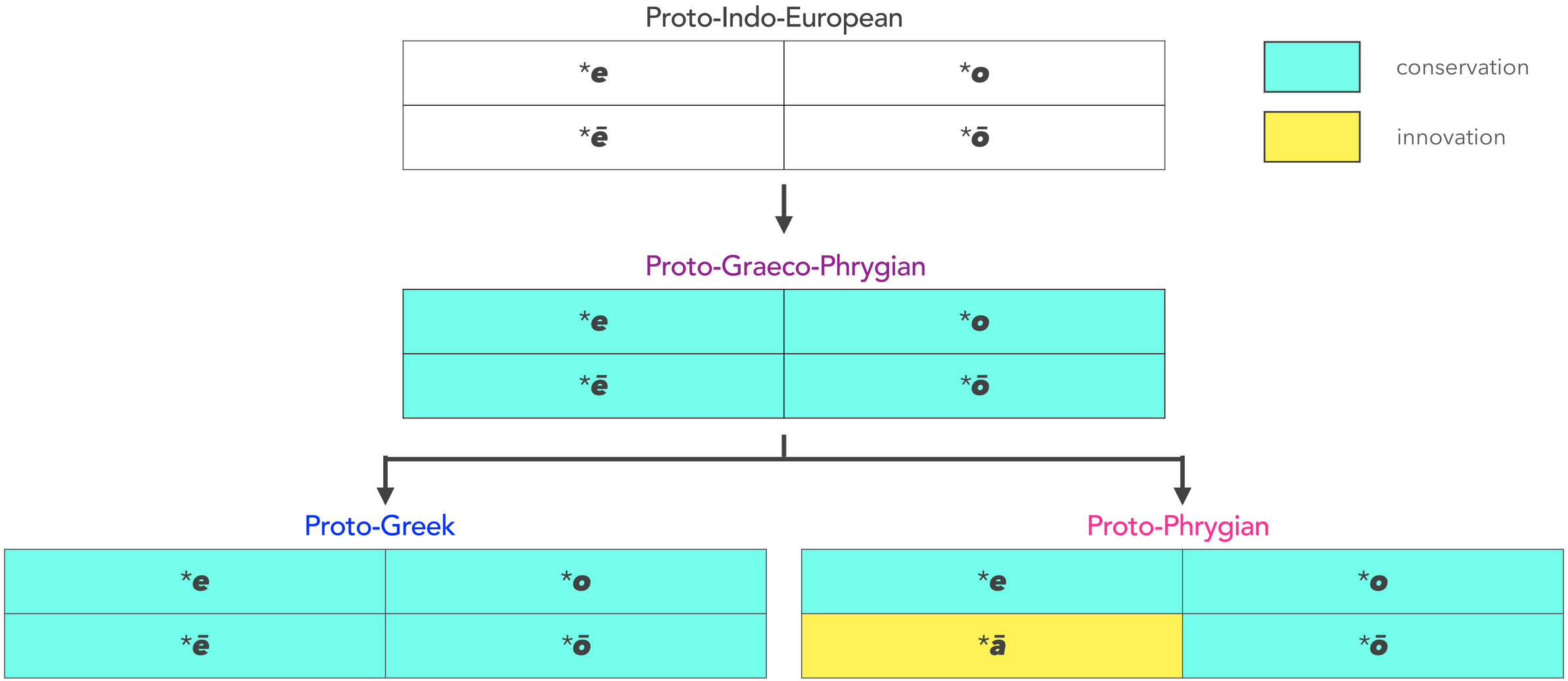
Kortlandt's Tree



Hypothesis — Proto-Graeco-Phrygian Vowel System



Hypothesis — Proto-Graeco-Phrygian Vowel System



Hypothesis — Proto-Graeco-Phrygian Resonant System

Proto-Indo-European

*m	*n	*r	*l	*i̯	*u̯	*h₁	*h₂	*h₃
*m̥	*n̥	*r̥	*l̥	*u	*u	*h₁̥	*h₂̥	*h₃̥

Proto-Graeco-Phrygian

*m, n₂	*n	*r	*l	*i̯?	*u̯	*H?	*H?	*H?
*ã	*ã	*r̥	*l̥	*i	*u	*e₂	*a	*o₂

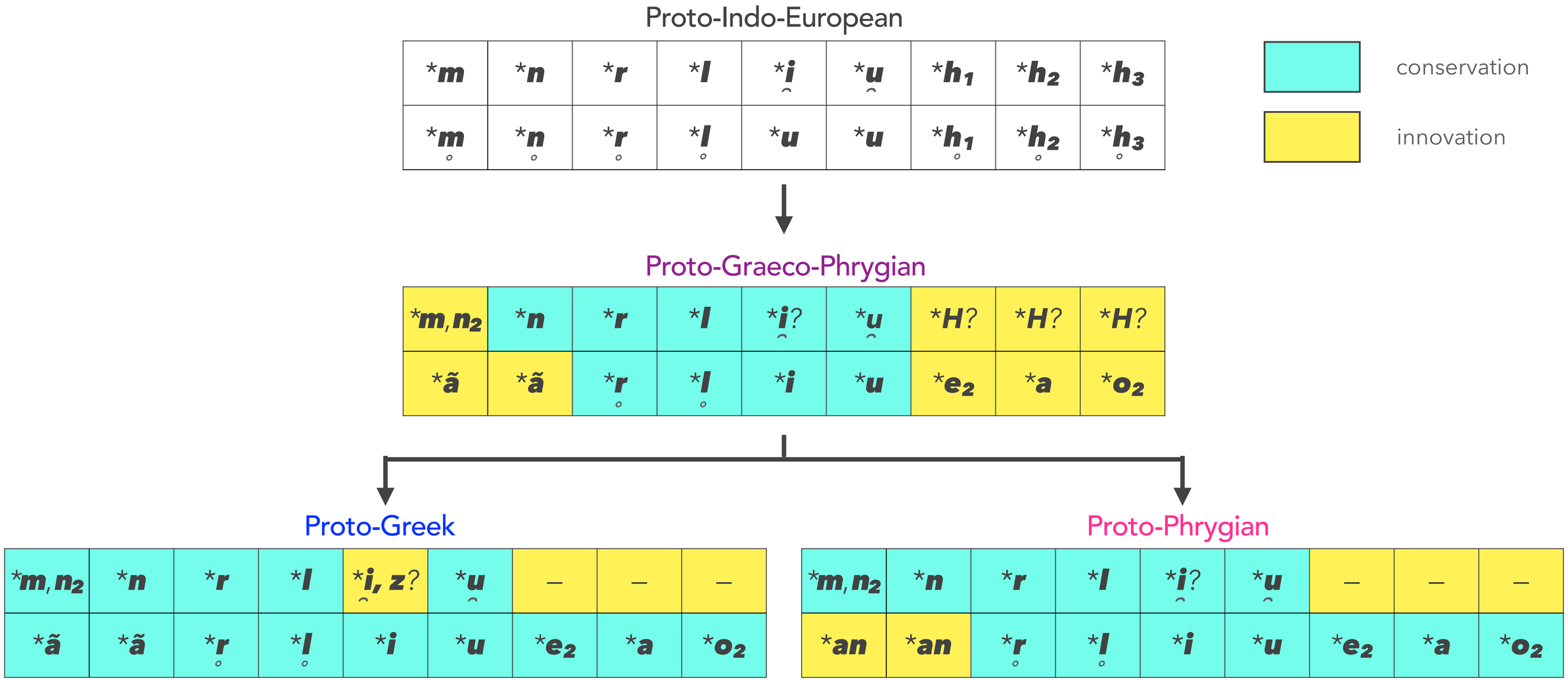
Proto-Greek

*m, n₂	*n	*r	*l	*i̯?	*u̯	–	–	–
*ã	*ã	*r̥	*l̥	*i	*u	*e₂	*a	*o₂

Proto-Phrygian

*m, n₂	*n	*r	*l	*i̯?	*u̯	–	–	–
*an	*an	*r̥	*l̥	*i	*u	*e₂	*a	*o₂

Hypothesis — Proto-Graeco-Phrygian Resonant System



Hypothesis — Proto-Graeco-Phrygian Consonant System

Proto-Indo-European

*p	*t	*k	*ḱ	*kᵘ
*b	*d	*g	*ǵ	*gᵘ
*bʰ	*dʰ	*gʰ	*ǵʰ	*gᵘʰ

Proto-Graeco-Phrygian

?	?	?	?	?
?	?	?	?	?
?	?	?	?	?

Proto-Greek

*p	*t	*k	*k	*kᵘ
*b	*d	*g	*g	*gᵘ
*pʰ	*tʰ	*kʰ	*kʰ	*kᵘʰ

Proto-Phrygian

?	?	?	?	?
?	?	?	?	?
?	?	?	?	?

Hypothesis — Proto-Graeco-Phrygian Consonant System

Proto-Indo-European

*p	*t	*k	*ḱ	*kᵘ
*b	*d	*g	*ǵ	*gᵘ
*bʰ	*dʰ	*gʰ	*ǵʰ	*gᵘʰ

Proto-Graeco-Phrygian

?	?	?	?	?
?	?	?	?	?
?	?	?	?	?

Proto-Greek

*p	*t	*k	*k	*kᵘ
*b	*d	*g	*g	*gᵘ
*pʰ	*tʰ	*kʰ	*kʰ	*kᵘʰ

Proto-Phrygian

?	?	?	?	?
?	?	?	?	?
?	?	?	?	?

PIE Stops in Greek & Phrygian — The Facts

PIE Labials

PIE	OPh.	NPh.	Myc.	Gk.
p	***p***, ***v***?	**π**, **?**	/**p**/	**π**

PIE **p*h_2*-ter-* ‘father’
PIE **p*h_2*-tēr* > Myc. *pa-te* /**p**atēr/, Gk. **π**ατήρ
PIE **p*h_2*-ter-ei-es* > NPh. **π**ατερης

PIE **p**ed-* ‘foot’
PIE **p**ed-o-m* > Gk. **π**έδον
PIE **p**ed-es* > OPh. ***p****etes*
PIE **p**od-* > Myc. *po-dV* /**p**od-/

PIE **ne**p**ot-* ‘grandson’
PIE **ne**p**ot-m* > OPh. *ne**v**otan*?

PIE Stops in Greek & Phrygian — The Facts

PIE Labials

PIE	OPh.	NPh.	Myc.	Gk.
b	–	–	–	**β**

PIE ****b**el-* ‘force’

PIE ****b**el-ter-o-s* > Gk. **β**έλτερος /**b**élteros/

PIE Stops in Greek & Phrygian — The Facts

PIE Labials

PIE	OPh.	NPh.	Myc.	Gk.
***bʰ**	***b***	**β**	**/pʰ/**	**β**

PIE ***bʰ**er- ‘to carry’

PIE ***bʰ**er-o-h_2 > Gk. **φ**έρω

PIE ***bʰ**er-e-ø > Myc. *pe-re* /**pʰ**erei/, Gk. **φ**έρει

PIE ***bʰ**er-e-*t* > NPh. -**β**ερετ

PIE ***bʰ**reh$_2$-**t**er- ‘brother’

PIE ***bʰ**reh$_2$-tēr > Gk. **φ**ρᾰ́τηρ

PIE ***bʰ**reh$_2$-ter-ns > OPh. ***b**raterais*

PIE ***bʰ**reh$_2$-ter-ei > NPh. **β**ρατερε

PIE Stops in Greek & Phrygian — The Facts

PIE Dentals

PIE	OPh.	NPh.	Myc.	Gk.
t	***t***	**т**	**/t/**	**т**

PIE *meh_2-**t**er- ‘mother’

PIE *meh_2-**t**ēr > Myc. *ma-te* /mā**t**ēr/,

Gk. μή**т**ηρ, OPh. *ma**t**ar*, NPh. μα**т**αρ

PIE Stops in Greek & Phrygian — The Facts

PIE Dentals

PIE	OPh.	NPh.	Myc.	Gk.
d	***t***	**τ**	**/d/**	**δ**

PIE ****d**i-eu-* ‘sky; sky god’

PIE ****d**i-u-os* > Myc. *di-wo* /**d**iu̯os/,

Gk. **Δ**ιός /**d**iós/, NPhr. **τ**ιος

PIE ****d**eh_3-* ‘to give’

PIE ****d**h_3-ti-m* > Gk. **δ**όσιν, OPhr. ***t**otin*

PIE Stops in Greek & Phrygian – The Facts

PIE Dentals

PIE	OPh.	NPh.	Myc.	Gk.
dʰ	***d***	**δ**	**/d/**	**θ**

PIE **dʰeh₁-* ‘to put, place’

PIE **dʰh₁-t-o-m* > Gk. **θ**ετόν, NPh. **δ**ετουν

PIE **dʰh₁-s-o-* ‘creator, god’

PIE **dʰh₁-s-o-s* > Myc. *te-o* /**tʰ**ehos/, Gk. **θ**εός

PIE **dʰh₁-s-ōis* > NPh. **δ**εως

PIE **bʰeudʰ-* ‘perceive’

PIE **bʰeudʰ-os-ø* > OPh. *bev**d**os*

PIE Stops in Greek & Phrygian — The Facts

PIE Plain Velars

PIE	OPh.	NPh.	Myc.	Gk.
k	***k***	**–**	**/k/**	**γ**

PIE *$g^{\text{u}}\!\!\!

PIE Stops in Greek & Phrygian — The Facts

PIE Plain Velars

PIE	OPh.	NPh.	Myc.	Gk.
g	***k***	**κ**	**/g/**	**γ**

PIE *d^hu**g**h_2-*ter*- ‘daughter’

PIE *d^hu**g**h_2-*tēr* > Myc. *tu-ka-te* /t^hu**g**atēr/, Gk. θυ**γ**άτηρ

PIE *b^heh_1**g**- ‘bake’

PIE *b^hh_1**g**-*o*-*s* > OPh. βε**κ**ός, NPh. βε**κ**ος

PIE Stops in Greek & Phrygian — The Facts

PIE Plain Velars

PIE	OPh.	NPh.	Myc.	Gk.
gʰ	**–**	**γ**	**/kʰ/**	**χ**

PIE *h_1ueg^{uh}- ‘to vow’

PIE *h_1e-h_1ug^{uh}-*e-toi* > PIE *h_1e-h_1u**gʰ**-*e-toi* >

Myc. *e-u-ke-to* /eu**kʰ**etoi/, Gk εὔ**χ**εται

PIE ***gʰ***reiH- ‘to scratch’

PIE ***gʰ***e-g^hreiH- > NPhr. **γ**εγρειμενος

PIE Stops in Greek & Phrygian — The Facts

PIE Palatovelars

PIE	OPh.	NPh.	Myc.	Gk.
ḱ	***k***	**–**	**/k/**	**κ**

PIE ****ḱ**erh$_2$-* ‘to mix’

PIE ****ḱ**rh$_2$-ter-m* > Myc. *ka-ra-te-ra* /**k**rātēra/,

Gk. **κ**ρᾱτῆρα

PIE *h$_1$en ‘in’, *per**ḱ**- ‘to dig’

PIE *h$_1$en+h$_1$e-per**ḱ**-es- > OPh. *en-epar**k**es*,

NPh. εν-επαρ**κ**ες

PIE Stops in Greek & Phrygian – The Facts

PIE Palatovelars

PIE	OPh.	NPh.	Myc.	Gk.
ǵ	**k**	**κ**	/**g**/	**g**

PIE *me**ǵ**-h_2- ‘great’
PIE *me**ǵ**-h_2-*s* > Gk. μέ**γ**ας, OPh. *me**k**as*, NPh. με**κ**ας

PIE *h_2e**ǵ**- ‘to ‘lead
PIE *h_2e**ǵ**-e-ø > Myc. *a-ke* /a**g**ei/, Gk. ἄγει

PIE Stops in Greek & Phrygian – The Facts

PIE Palatovelars

PIE	OPh.	NPh.	Myc.	Gk.
***ǵʰ**	**g**	**ɣ**	/**g**/	**g**

PIE *se**ǵʰ**- ‘to hold’

PIE *se**ǵʰ**-e-ø > Myc. *e-ke* /e**kʰ**ei/, Gk. **ἔ**χει

PIE *se**ǵʰ**-e-sd^{h}ō > Gk. **ἐχ**ἐσθω, NPh. ε**ɣ**εδου

PIE *se**ǵʰ**-es- > OPh. *an-e**g**eseti*

PIE Stops in Greek & Phrygian – The Facts

PIE Labiovelars

PIE	OPh.	NPh.	Myc.	Gk.
***kᵘ**	***k***	**κ**	**/kʷ/, (/k/)**	**π, τ, (κ)**

PIE *kᵘe ‘and’
PIE *kᵘ̯e > Myc. qe /kʷe/, Gk. τε, OPhr. ke, NPhr. κε

PIE *penkᵘe ‘five’
PIE *penkᵘ̯e > Gk. πέντε, NPhr. πινκε

PIE *kᵘei- ‘to pay’
PIE *kᵘoi-n-eh₂-ø > Gk. ποινή

PIE Stops in Greek & Phrygian — The Facts

PIE Labiovelars

PIE	OPh.	NPh.	Myc.	Gk.
***gᵘ**	***k***	**κ**	**/gʷ/**, (**/g/**)	**β**, **δ**, (**γ**)

PIE *gᵘen- ‘woman’

PIE *gᵘn-eh₂-i-k-m > NPh. **κ**ναικαν

PIE *gᵘeh₃-u- ‘cow’

PIE *gᵘh₃-eu- > Myc. *qo-u-* /**g**ʷou-/, Gk. **β**ου-

PIE *gᵘelbʰ- ‘womb’

PIE *gᵘelbʰ-u-s > Gk. **δ**ελφύς

PIE Stops in Greek & Phrygian — The Facts

PIE Labiovelars

PIE	OPh.	NPh.	Myc.	Gk.
gʷʰ	**–**	**γ**	**/kʷʰ/**	**φ, θ, (χ)**

PIE **sneigʷʰ-* ‘snow’

PIE **snigʷʰ-m* > Gk. νί**φ**α

PIE *dis-* ‘dis-’, **dʰregʷʰ-* ‘to make thick, fat’

PIE **dis+dʰregʷʰ-r-o-m* > NPh. τιδρε**γ**ρουν

PIE **dʰregʷʰ-o-h₂* > Gk. τρέ**φ**ω

Proto-Greek Consonants

π	/p/	*p
β	–	*b
φ	/p^h/	*p^h
τ	/t/	*t
δ	/d/	*d
θ	/t^h/	*t^h
κ	/k/	*k
γ	/g/	*g
χ	/k^h/	*k^h
κ	/k/	*k
γ	/g/	*g
χ	/k^h/	*k^h
π, τ, (κ)	/k^w, (k)/	*k^u, k
β, δ, (γ)	/g^w, (g)/	*gu, g
φ, θ, (χ)	/k^{wh}, (k^h)/	*k^{uh}, k^h

Proto-Phrygian Consonants

p, v	π
–	–
b	β
t	τ
t	τ
d	δ
k	–
k	κ
–	γ
k	–
k	κ
g	γ
k	κ
k	κ
–	γ

*p
*p?
*b
*t
*t
*d
*k
*k
*g
*k
*k
*g
*k
*k
*g

Side Note: Phrygian Palatalization?

Palatalization of Plain and Palatal Velars

PIE *d^h***ǵ**^{h}*em-* ‘earth; man’

PIE *d^h***ǵ**^{h}*em-el-ōis* > NPh. **ζεμελως**

PIE *$\acute{g}^h$*es-r-* ‘hand’

PIE *d^h***ǵ**^{h}*es-r-eh$_2$-* > NPh. **ζειραι**, Gk. **χεῖρ-ες**

PIE *$\acute{g}^h$*eu-* ‘pour’

PIE *$\acute{g}^h$*eu-mn-ø* > NPhr. **ζευμαν**, Gk. **χεῦμα**

No Palatalization of Labiovelars

PIE ***k**^{u}*e* ‘and’

PIE ***k̟**^{u}*e* > OPhr. ***k**e*, NPhr. **κε**, Myc. qe /**k^w**e/, Gk. **τε**

PIE *pen***k**^{u}*e* ‘five’

PIE *pen***k̟**^{u}*e* > NPhr. **πινκε**, Gk. **πέντε**

Counterexamples

PIE *se**ǵ**^{h}*-* ‘to hold’

PIE *se**ǵ**^{h}*-e-sd^{h}ō* > NPh. **εγεδου**, Gk. **ἐχέσθω**

PIE *se**ǵ**^{h}*-es-* > OPh. *an-e**g**eseti*

PIE ***ǵ**enh$_1$-* ‘to beget, give birth to’

PIE ***ǵ**enh$_1$-es-h$_2$* > Hom. Gk. **γένεα**, NPh. **κενα**

Proto-Phrygian Consonants

p, v	π	**p*
–	–	**p?*
b	β	**b*
t	τ	**t*
t	τ	**t*
d	δ	**d*
k	–	**k*
k	κ	**k*
–	γ	**g*
k	–	**k*
k	κ	**k*
g	γ	**g*
k	κ	**k*ᵘ?
k	κ	**k*ᵘ?
–	γ	**g*ᵘ?

Hypothesis — Proto-Graeco-Phrygian Consonant System

Proto-Indo-European

*p	*t	*k	*ḱ	*kᵘ
*b	*d	*g	*ǵ	*gᵘ
*bʰ	*dʰ	*gʰ	*ǵʰ	*gᵘʰ

Proto-Graeco-Phrygian

?	?	?	?	?
?	?	?	?	?
?	?	?	?	?

Proto-Greek

*p	*t	*k	*k_2	*kᵘ
*b	*d	*g	*g_2	*gᵘ
*pʰ	*tʰ	*kʰ	*k_2ʰ	*kᵘʰ

Proto-Phrygian

*p	*t	*k	*k_2	*kᵘ?
*p?	*t	*k	*k_2	*kᵘ?
*b	*d	*g	*g_2	*gᵘ?

Proto-Graeco-Phrygian Consonant System

Proto-Indo-European

*p	*t	*k	*ḱ	*kᵘ
*b	*d	*g	*ǵ	*gᵘ
*bʰ	*dʰ	*gʰ	*ǵʰ	*gᵘʰ

Proto-Graeco-Phrygian

?	?	?	?	?
?	?	?	?	?
?	?	?	?	?

Proto-Greek

*p	*t	*k	*k_2	*kᵘ
*b	*d	*g	*g_2	*gᵘ
*pʰ	*tʰ	*kʰ	*$kʰ_2$	*kᵘʰ

Proto-Phrygian

*p	*t	*k	*k_2	*kᵘ?
*p?	*t	*k	*k_2	*kᵘ?
*b	*d	*g	*g_2	*gᵘ?

Caveat 1: Grassmann's Law

Proto-Indo-European

*p	*t	*k	*ḱ	*kᵘ
*b	*d	*g	*ǵ	*gᵘ
*bʰ	*dʰ	*gʰ	*ǵʰ	*gᵘʰ

Proto-Graeco-Phrygian

?	?	?	?	?
?	?	?	?	?
?	?	?	?	?

Proto-Greek

*p	*t	*k	*k	*kᵘ
*b	*d	*g	*g	*gᵘ
*pʰ, p₂?	*tʰ, t₂?	*kʰ, k₂?	*kʰ, k₃?	*kᵘʰ, kᵘ₂?

Proto-Phrygian

*p	*t	*k	*k	*kᵘ?
*p?	*t	*k	*k	*kᵘ?
*b, ?	*d, ?	*g, ?	*g, ?	*gᵘ?, ?

No Grassmann in Phrygian

Counterexamples

PIE *b^heud^h- ‘to perceive’

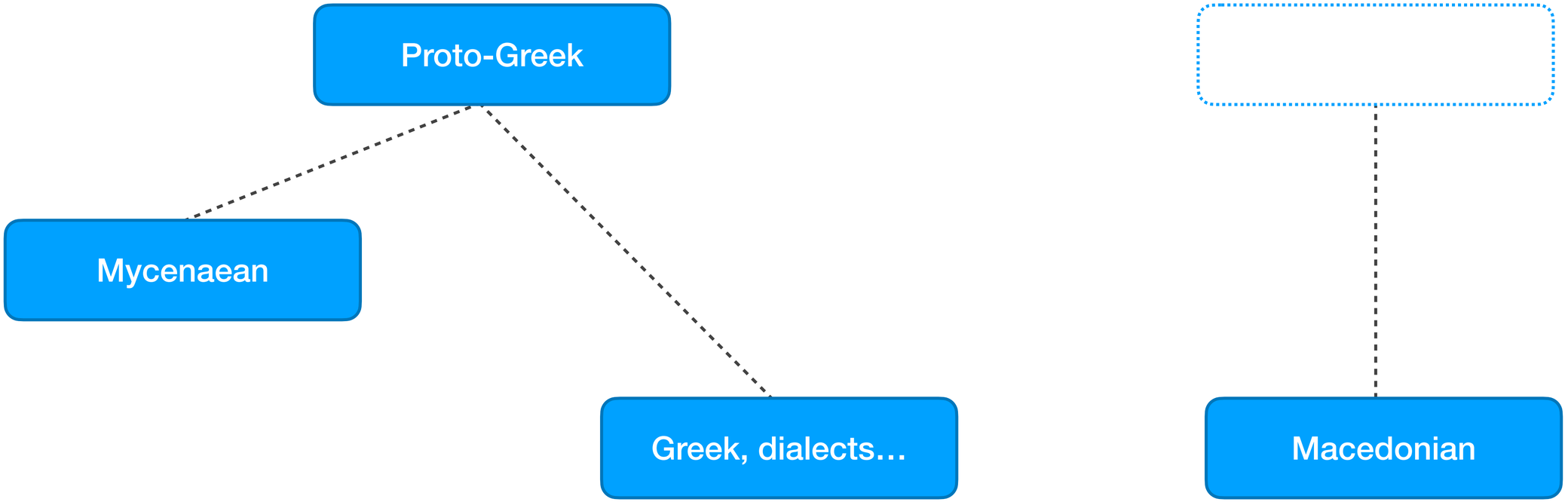
PIE *$\mathbf{b^h}eud^h$-*os*-*ø* > OPh. ***b****evdos*

PIE *dis*- ‘dis-’, *$\mathbf{d^h}reg^{uh}$- ‘to make thick, fat’

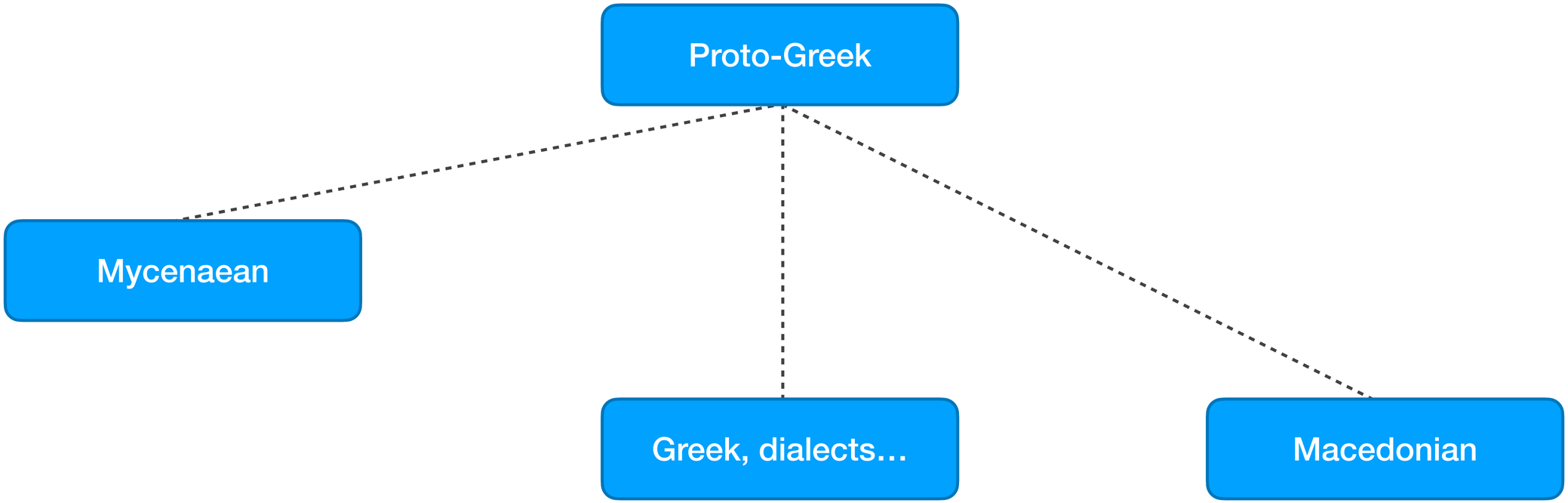
PIE *dis*+$\mathbf{d^h}reg^{uh}$-*r*-*o*-*m* > NPh. τι**δ**ρεγρουν

PIE *$\mathbf{d^h}reg^{uh}$-*o*-h_2 > Gk. **τ**ρέφω

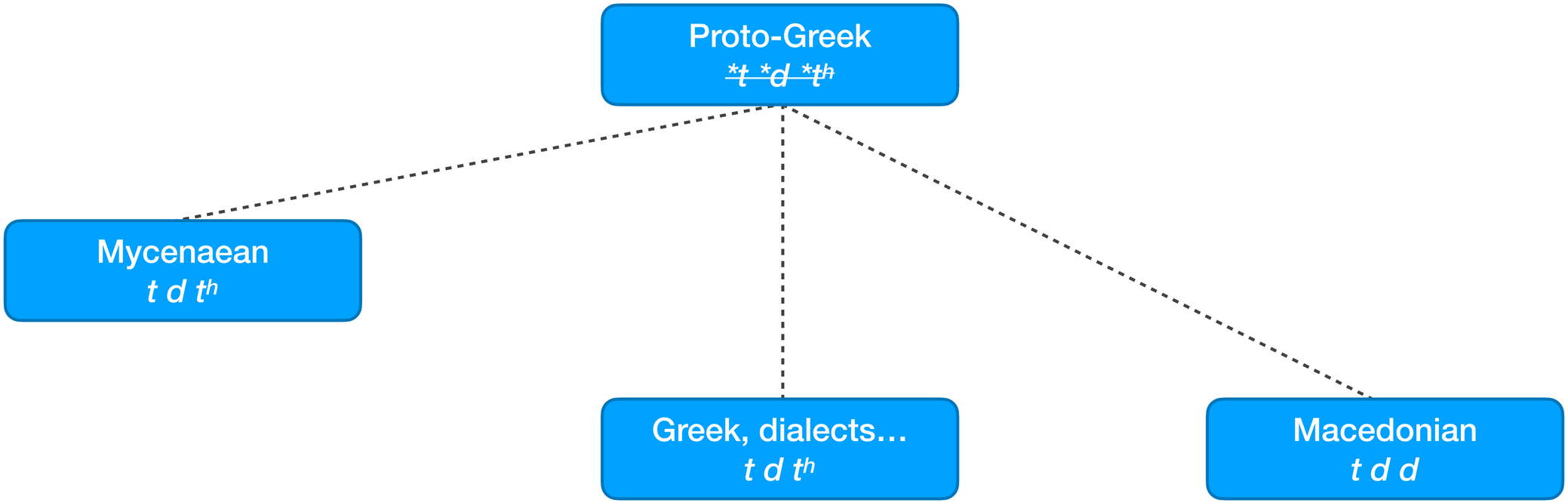
Caveat 2: Macedonian and Proto-Greek



Caveat 2: Macedonian and Proto-Greek



Caveat 2: Macedonian and Proto-Greek



– Méndez Dosuna 2012

Traditional Reconstruction

Proto-Indo-European

*p	*t	*k	*ḱ	*kᵘ
*b	*d	*g	*ǵ	*gᵘ
*bʰ	*dʰ	*gʰ	*ǵʰ	*gᵘʰ

Proto-Graeco-Phrygian

?	?	?	?	?
?	?	?	?	?
?	?	?	?	?

Proto-Greek

*p	*t	*k	*k₂	*kᵘ
*b	*d	*g	*g₂	*gᵘ
*pʰ	*tʰ	*kʰ	*kʰ₂	*kᵘʰ

Proto-Phrygian

*p	*t	*k	*k₂	*kᵘ?
*p?	*t	*k	*k₂	*kᵘ?
*b	*d	*g	*g₂	*gᵘ?

Traditional Reconstruction

Proto-Indo-European

*p	*t	*k	*ḱ	*kᵘ
*b	*d	*g	*ǵ	*gᵘ
*bʰ	*dʰ	*gʰ	*ǵʰ	*gᵘʰ

Proto-Graeco-Phrygian

*p	*t	*k	*k₂	*kᵘ
*b	*d	*g	*g₂	*gᵘ
*bʰ	*dʰ	*gʰ	*gʰ	*gᵘʰ

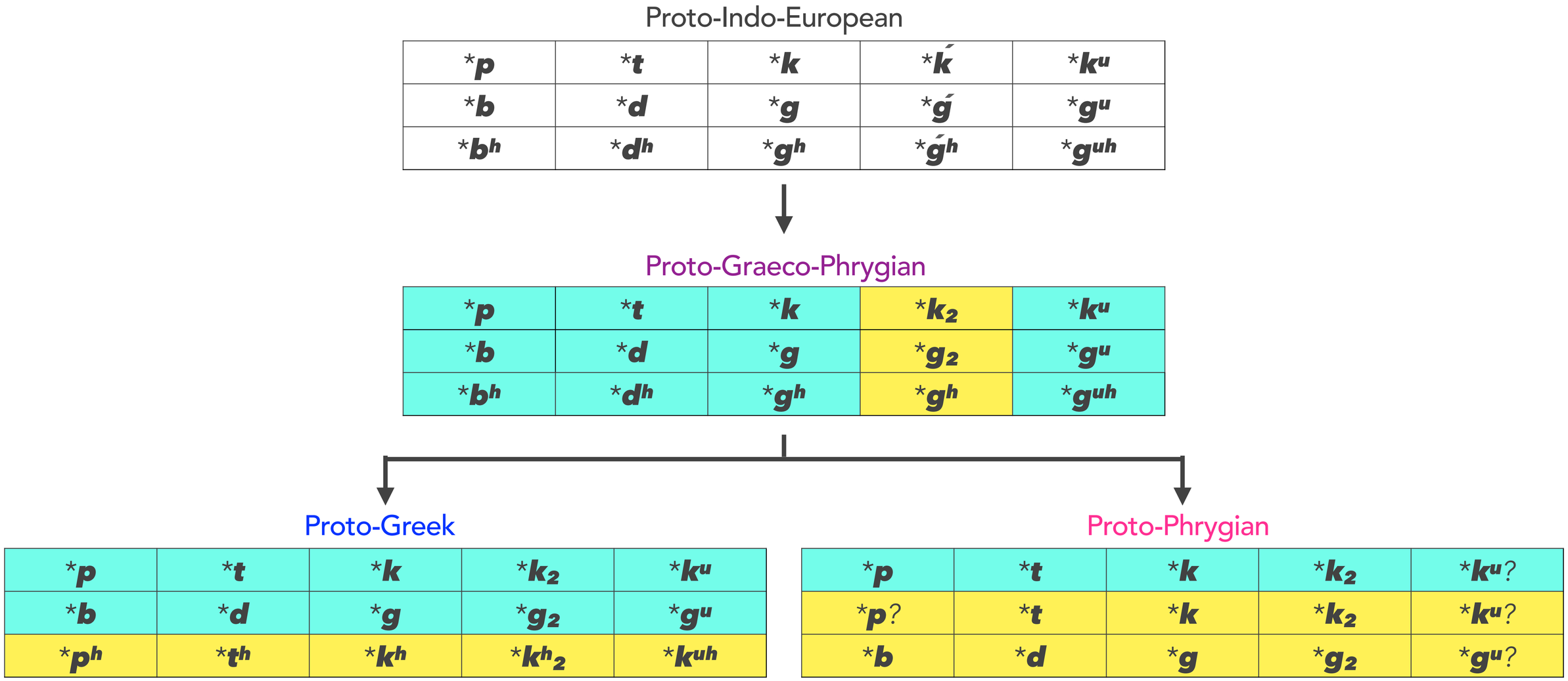
Proto-Greek

*p	*t	*k	*k₂	*kᵘ
*b	*d	*g	*g₂	*gᵘ
*pʰ	*tʰ	*kʰ	*kʰ₂	*kᵘʰ

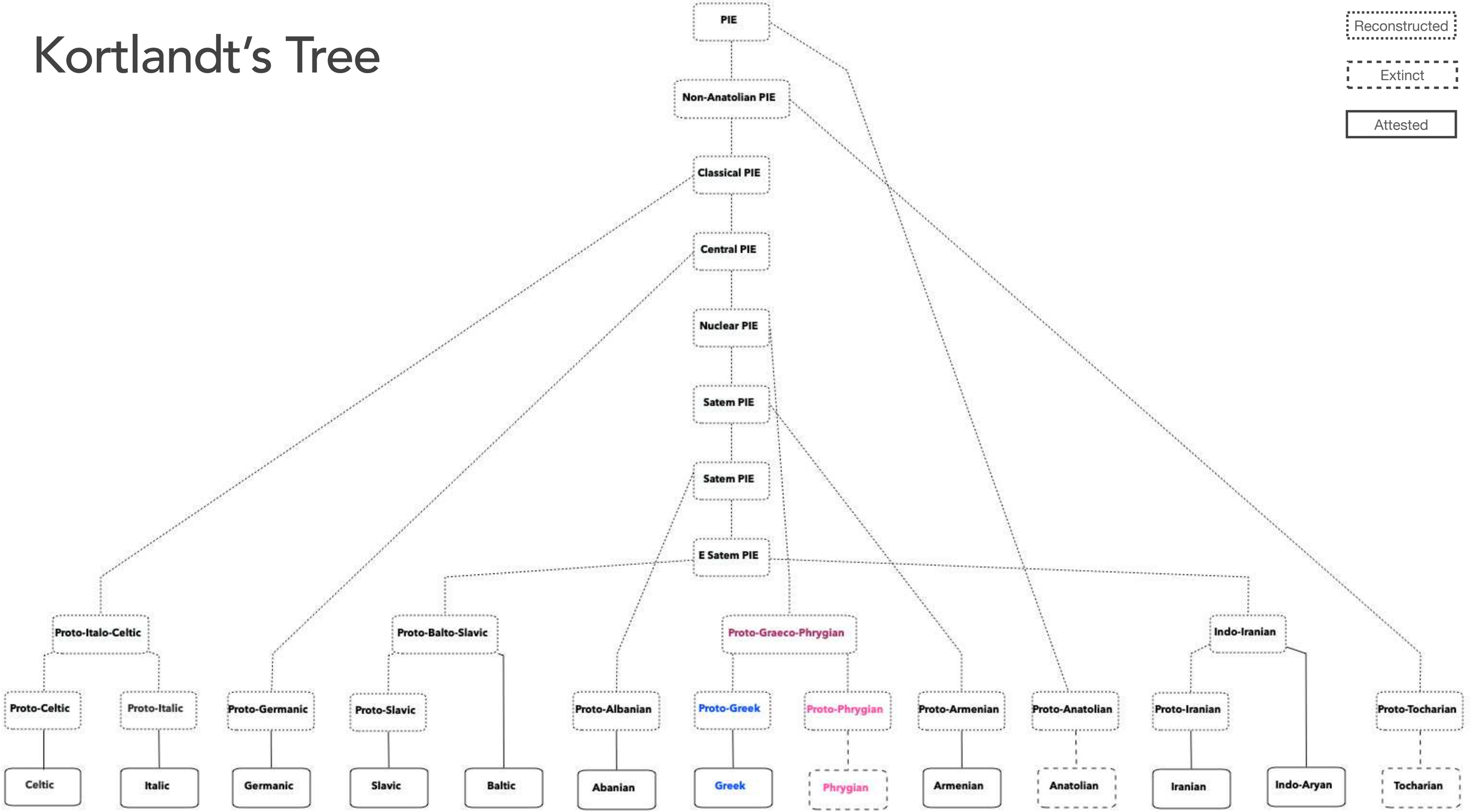
Proto-Phrygian

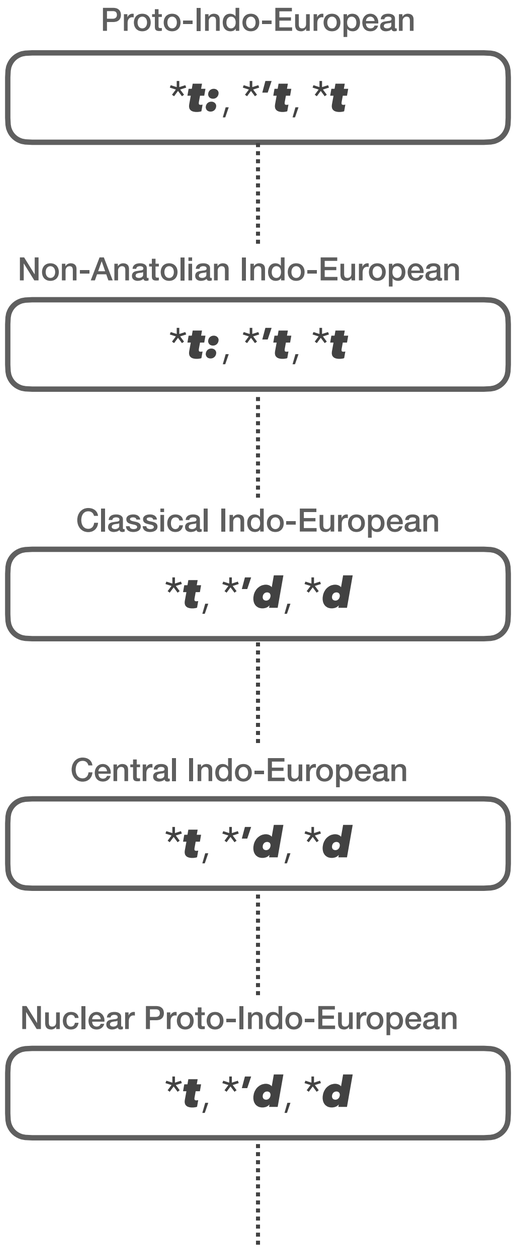
*p	*t	*k	*k₂	*kᵘ?
*p?	*t	*k	*k₂	*kᵘ?
*b	*d	*g	*g₂	*gᵘ?

Traditional Reconstruction



Kortlandt's Tree




Proto-Indo-European
*t:, *'t, *t
Non-Anatolian Indo-European
*t:, *'t, *t
Classical Indo-European
*t, *'d, *d
Central Indo-European
*t, *'d, *d
Nuclear Proto-Indo-European
*t, *'d, *d

Glottalic Reconstruction

Nuclear Proto-Indo-European

*p	*t	*k	*ḱ	*kᵘ
*ʔb	*ʔd	*ʔg	*ʔǵ	*ʔgᵘ
*b	*d	*g	*ǵ	*g

Proto-Graeco-Phrygian

Proto-Greek

*p	*t	*k	*k_2	*kᵘ
*b	*d	*g	*g_2	*gᵘ
*p^h	*t^h	*k^h	*$k^h{}_2$	*k^{uh}

Proto-Phrygian

*p	*t	*k	*k_2	*kᵘ?
*p?	*t	*k	*k_2	*kᵘ?
*b	*d	*g	*g_2	*gᵘ?

Glottalic Reconstruction

Nuclear Proto-Indo-European

*p	*t	*k	*ḱ	*kᵘ
*ʔb ~ ʔp	*ʔd ~ ʔt	*ʔg ~ ʔk	*ʔg ~́ ʔk	*ʔgᵘ ~ ʔkᵘ
*b	*d	*g	*ǵ	*g



Proto-Graeco-Phrygian



Proto-Greek

*p	*t	*k	*k₂	*kᵘ
*b	*d	*g	*g₂	*gᵘ
*pʰ	*tʰ	*kʰ	*kʰ₂	*kᵘʰ

Proto-Phrygian

*p	*t	*k	*k₂	*kᵘ?
*p?	*t	*k	*k₂	*kᵘ?
*b	*d	*g	*g₂	*gᵘ?

Glottalic Reconstruction

Nuclear Proto-Indo-European

*p	*t	*k	*ḱ	*kᵘ
*ʔb ~ ʔp	*ʔd ~ ʔt	*ʔg ~ ʔk	*ʔǵ ~ ʔk	*ʔgᵘ ~ ʔkᵘ
*b	*d	*g	*ǵ	*gᵘ

Proto-Graeco-Phrygian

*p	*t	*k	*k₂	*kᵘ
*ʔb ~ ʔp	*ʔd ~ ʔt	*ʔg ~ ʔk	*ʔg₂ ~ ʔk₂	*ʔgᵘ ~ ʔkᵘ
*b	*d	*g	*g₂	*gᵘ

Proto-Greek

*p	*t	*k	*k₂	*kᵘ
*b	*d	*g	*g₂	*gᵘ
*pʰ	*tʰ	*kʰ	*kʰ₂	*kᵘʰ

Proto-Phrygian

*p	*t	*k	*k₂	*kᵘ?
*p?	*t	*k	*k₂	*kᵘ?
*b	*d	*g	*g₂	*gᵘ?

Glottalic Reconstruction

Nuclear Proto-Indo-European

*p	*t	*k	*ḱ	*kᵘ
*ʔb ~ ʔp	*ʔd ~ ʔt	*ʔg ~ ʔk	*ʔǵ ~ ʔk	*ʔgᵘ ~ ʔkᵘ
*b	*d	*g	*ǵ	*gᵘ

Proto-Graeco-Phrygian

*p	*t	*k	*k₂	*kᵘ
*ʔb ~ ʔp	*ʔd ~ ʔt	*ʔg ~ ʔk	*ʔg₂ ~ ʔk₂	*ʔgᵘ ~ ʔkᵘ
*b	*d	*g	*g₂	*gᵘ

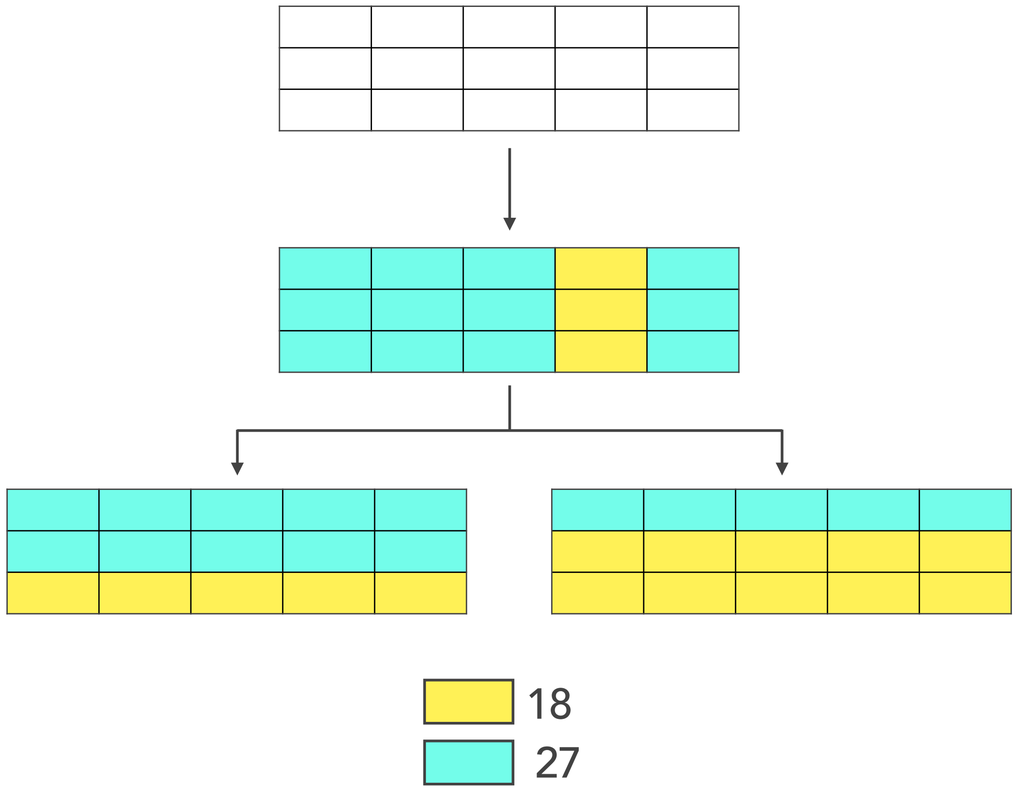
Proto-Greek

*p	*t	*k	*k₂	*kᵘ
*b	*d	*g	*g₂	*gᵘ
*pʰ	*tʰ	*kʰ	*kʰ₂	*kᵘʰ

Proto-Phrygian

*p	*t	*k	*k₂	*kᵘ?
*p?	*t	*k	*k₂	*kᵘ?
*b	*d	*g	*g₂	*gᵘ?

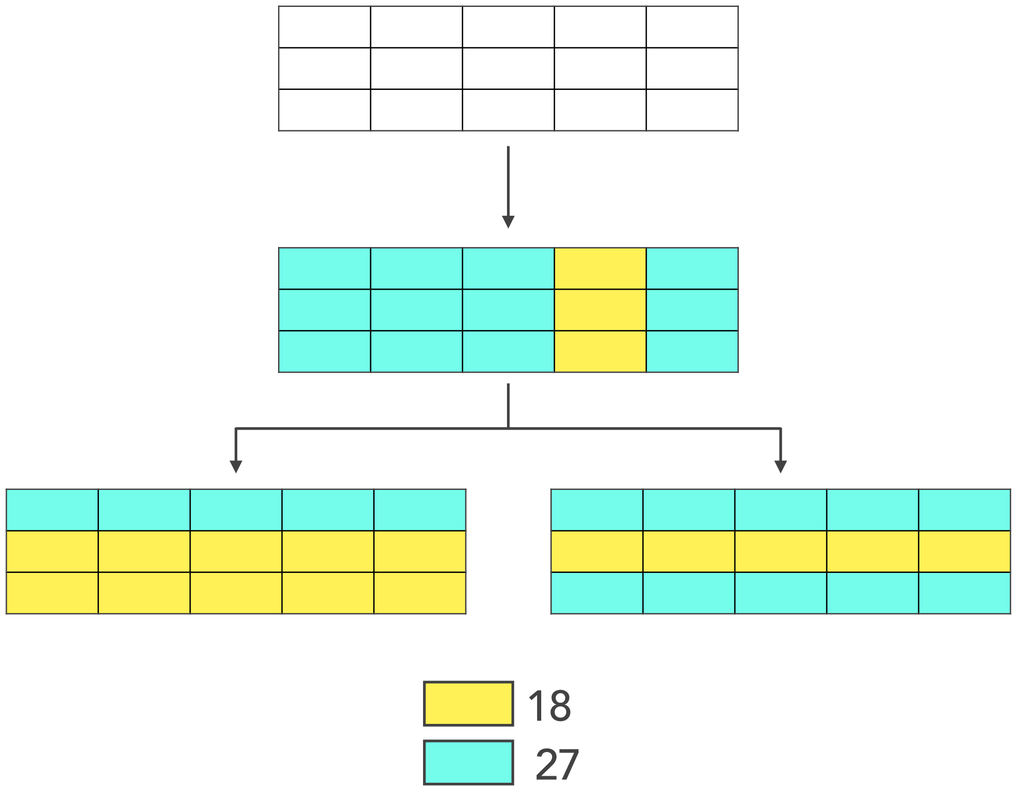
Traditional Reconstruction



Proto-Graeco-Phrygian is largely conservative

Proto-Phrygian is more innovative than Proto-Greek

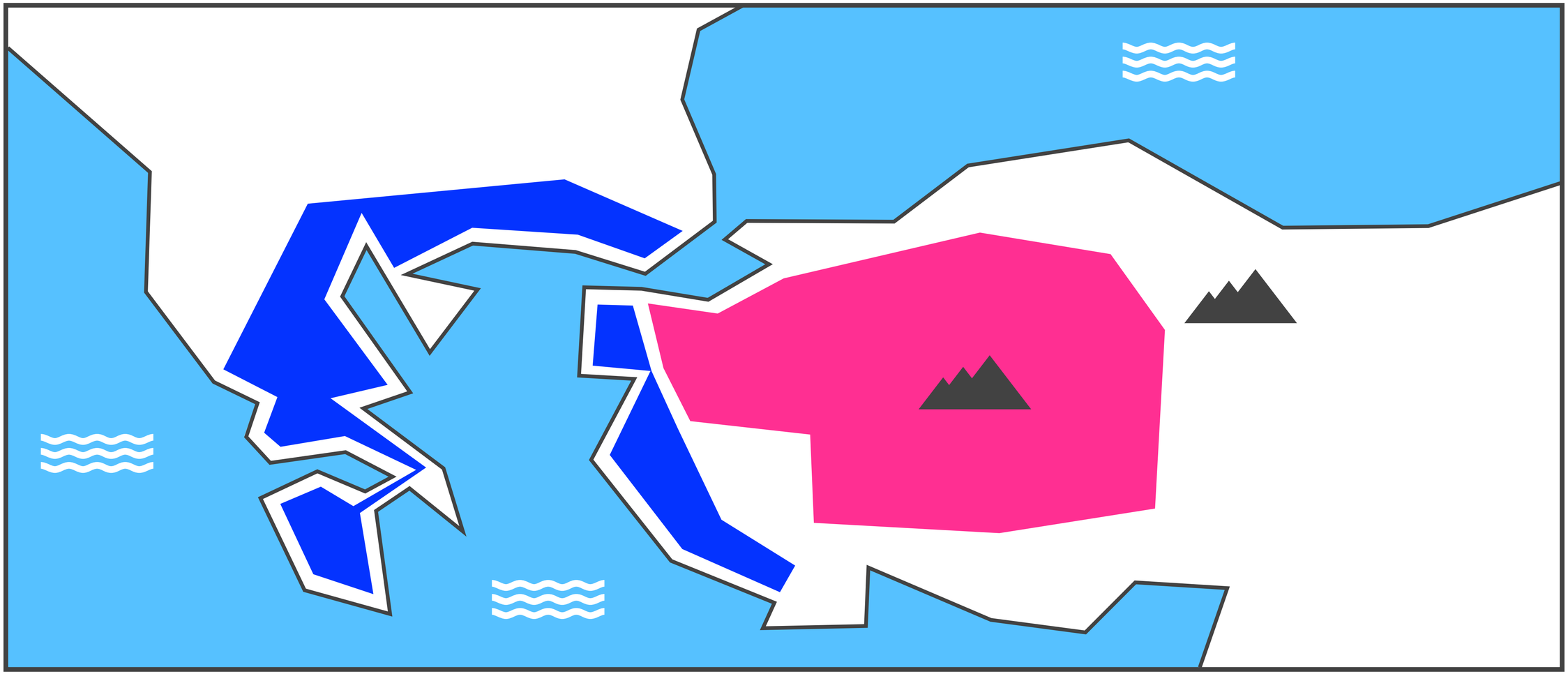
Glottalic Reconstruction



Proto-Graeco-Phrygian is largely conservative

Proto-Greek is more innovative than Proto-Phrygian

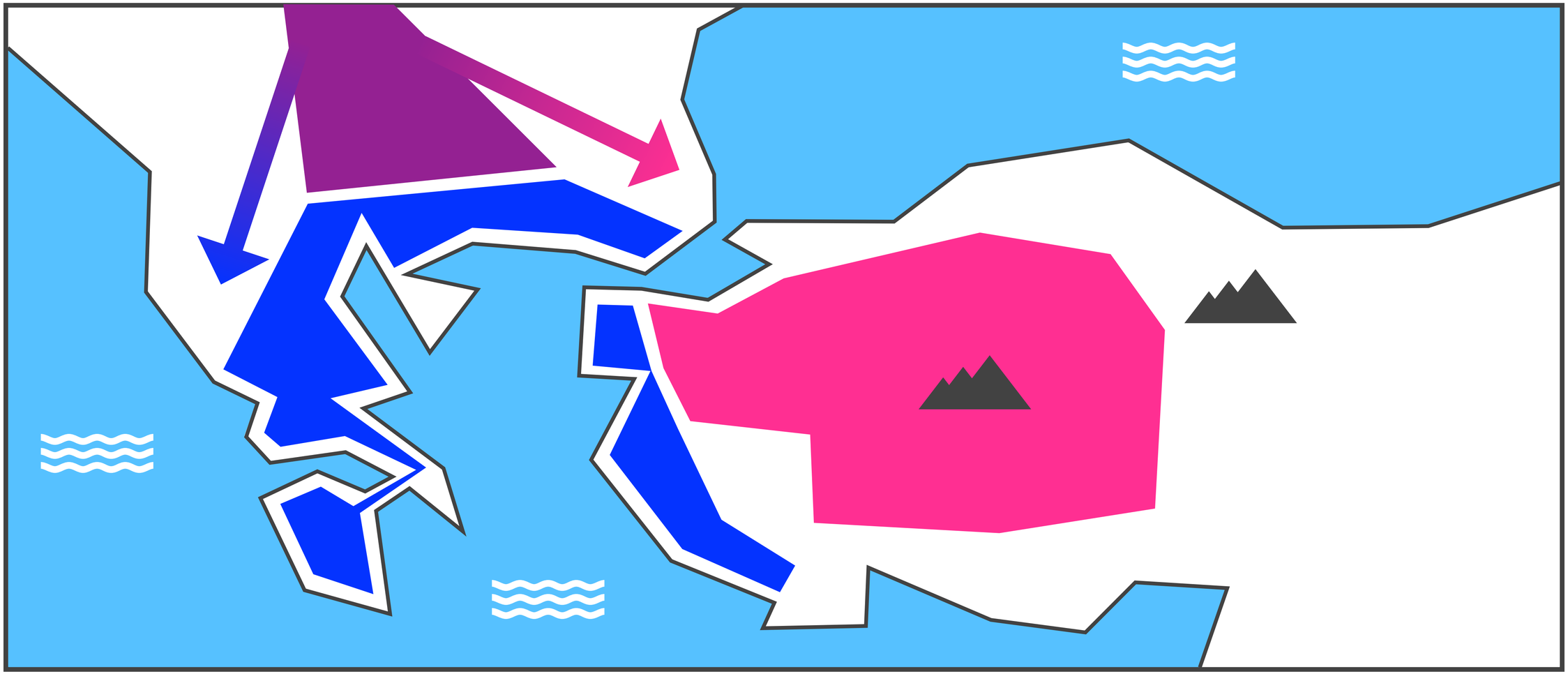
When & Where?



Greek

Phrygian

When & Where?



Greek | Phrygian | Graeco-Phrygian

Thank you!

– If rerigerators could speak, which language do you think would they speak?

– Phyrigan 😆

(A cringy Phrygian joke.)