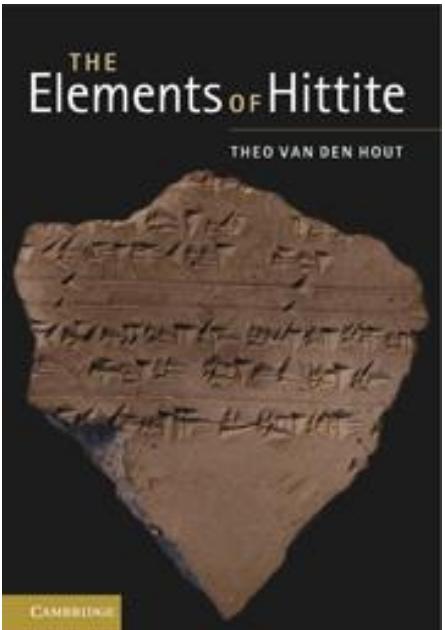


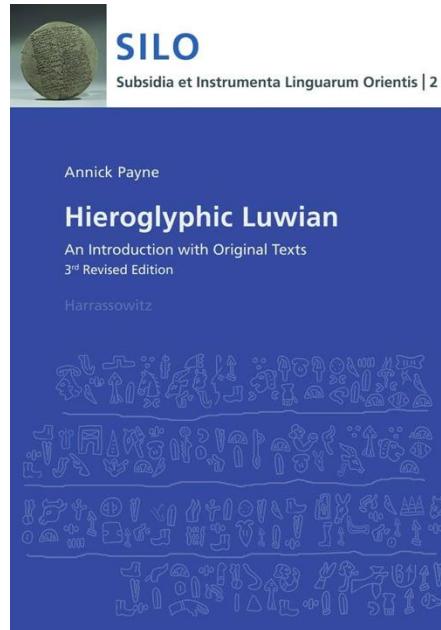


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Texts (and grammars)



van den Hout 2011



Payne 2014

Studien zu den Boğazköy-Texten

Herausgegeben von der Kommission für den Alten Orient
der Akademie der Wissenschaften und der Literatur, Mainz
Band 50

Die keilschrift-luwischen Texte in Umschrift

von Frank Starke

1985

Otto Harrassowitz · Wiesbaden

Studien zu den Boğazköy-Texten

Herausgegeben von der Kommission für den Alten Orient
der Akademie der Wissenschaften und der Literatur
Heft 10

Das Palaische Texte, Grammatik, Lexikon

von Onofrio Carruba

1970
OTTO HARRASSOWITZ · WIESBADEN

Starke 1985

Carruba 1970



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Anatolian

Class 3: Anatolian morphology



Morphological preliminaries

- Word = isolated by blank spaces (cuneiform, alphabetic) or word separator (hieroglyphic)

- Fusional and synthetic (cumulative exponence)

- Base **word structure:**

ROOT-(DERIVATION)-ENDINGS

zinuškezzi

/tsi-nu-sk:e-̄tsi/

cross-CAUS-PLUR-PRS.3SG

‘he is making (the oxen) cross (the river)’

takšulaš

/taks-ul-as/

join-NMZ-GEN.SG

‘of agreement, peace’



Morphological processes

- **Suffixation:** itt. *war-* 'burn (intr.)' > *war-nu-* 'make burn'
 - **Prefixation:** *uda-* 'carry hither', *peda-* 'carry away'
 - **Infixation:** *ištark-* 'fall ill' > *ištar-nin-k-* 'make ill'
 - **Reduplication:** *lelaniya-* 'become furious', *wewakk-* 'ask'
(Dempsey 2015)
 - **Ablaut:** no ablaut of the Gk. type *éleipon* vs. *élipon*
- }
- unproductive!**



Addition vs. substitution

- The most common pattern is suffix **addition**:

išpant- 'libate' > *išpant-uzzi-* 'libation' > *išpant-uzzi-aššar*
'libation vessel'

- **Caland System:** traces of a system of suffix **substitution**,
with adjectival bases (Dardano 2007, Rau 2009, 2013,
Dell'Oro 2015, Bozzone 2016):

park-u- 'high' / *parg-ašti-* 'height' / *park-nu-* 'make high' /
park-ešš- 'become high'



Compounding

- Nominal composition is scarcely attested in Anatolian:
dāyuga- 'two-year-old' << *dā* 'two' + *yuga-*
appašiwatt- 'future' << *appa* 'after' + *šiwatt-* 'day'
pappanekneš 'brothers of the same father' << *pappa-* 'father' +
negna- 'brother'
- Multi-word expressions (**NB**: placement of determinatives!)

GEN+NOUN	LÚ <i>maniyahhiyaš išha-</i> 'administrator (lit. lord of the administration)'
PREV+VERB	<i>parā ḥandantār</i> 'divine power (lit. ?)'
ADJ+NOUN	UZU <i>parkui ḥaštai</i> '(cut of meat called) pure bone'



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Nominal morphology

Kloekhorst 2008, Oettinger 2017



Hittite: grammatical categories of nouns

- **Case:** nominative, accusative, genitive, dative-locative, allative, ablative, instrumental, vocative, ergative
- **Number:** singular, plural, collective (?)
- **Gender:** common, neuter



Hittite: gender

- Hittite features **two grammatical genders**: common and neuter
- There is **no** 100% semantic correlation with **animacy**:

atta- (c.) 'father' vs. *šuhha-* (c.) 'roof'

peda- (n.) 'place' vs. *antuhsātar* (n.) 'population'

- Partial correlation with **inflectional classes**: most (but not all!) **consonant** stem nouns are **neuter**, certain derivational suffixes only derive neuter nouns e.g. the nominalizing suffix *-ātar*



The inflection of *a*-stems in Hittite

NOM	<i>antuḫšaš</i>	<i>antuḫšeš</i>
ACC	<i>antuḫšan</i>	<i>antuḫšuš</i>
GEN	<i>antuḫšaš</i>	<i>antuḫšan</i>
D/L	<i>antuḫši</i>	<i>antuḫšaš</i>
ABL		<i>antuḫšaz</i>
INST		<i>yukit</i> 'yoke'
N/A	<i>pēdan</i> 'place'	
VOC	<i>atta, atti</i> 'oh father'	



Cases: nominative

SG.COM

OH -š/-∅, Pal. -š, Luw. -s, Lyc. -s, Lyd. -(i)s < PIE *-s

PL.COM

- OH -eš < PIE *-es
- Pal. -aš < PIE *-o-es
- CLuw. -Vnzi /-Vntsi/, HLuw. -V-zí /-Vntsi/,
Lyc. -i (< *-insi), -ěi (< *-onsi), -ăi (< *-ānsi) < PIE *-Vms-oi



Cases: accusative

SG.C < PIE *-m

OH -(a)n, Pal. -(a)n, Luw. -an, Lyc. Lyd. -n

PL.C < PIE *-(o)m_os

OH -uš, Luw. -nz(a), Lyc. -Vs, Lyd. -as?



Cases: nominative-accusative

SG.N < PIE *-Ø/-m

OH -Ø/-n, Pal. -Ø/-n, Luw. -an, Lyc. -*ẽ*, Lyd. -Ø/d

PL.N < PIE *-eh₂

OH -a, Pal. -a, Luw. -a, Lyc. -a, Lyd. -a



Hittie: collectives?

alpa- (c.) 'cloud' common gender → nom/acc pl. *alpeš/alpuš*
'individual clouds' vs. collective (=neuter plural) *alpa* 'bank of clouds'

šuhha- (c.) 'roof' → *šuhhus* acc. pl. vs. *šuhha* collective plural

Neuter nouns only have a collective plural *-a* < PIE *-eh₂

Other strategies must be used to express countable neuter plurals.



Core cases and syntactic alignment

- a. **LUGAL-uš** 3-ŠU *aīš=šet*
king.NOM 3.times mouth(N).NOM/ACC=3SG.POSS.NOM/ACC.N
ārri
wash.PRS.3SG
'The king washes his mouth three times.' (KBo 17.1+ i 15)
- b. **LUGAL-uš** *arha paizzi*
king.NOM away go.PRS.3SG
'The king goes away.' (KBo 20.10+ i 2)
- c. *ta* **LUGAL-un** *šuppiahhi*
CONN king.ACC purify.PRS.3SG
'And he purifies the king.' (KBo 20.10+ ii 8)

Core cases and syntactic alignment

- a. *kēdani=ma pahhur urāni*
DEM.DAT=PTCL fire(N).NOM/ACC burn.PRS.3SG.MID
'And near to this one burns a fire.' (KUB 23.59 iii 9)
- b. ^{LÚ}MUḤALDIM=*kan hašši pahhur warnuzzi*
cook=PTCL hearth.DAT fire(N).NOM/ACC make.burn.PRS.3SG
'The cook lights the fire on the hearth.' (KUB 11.35 v 16)
- c. *man=an pahhuwenanza arha warnuzi*
IRR=3SG.ACC fire.ant.NOM away make.burn.PRS.3SG
'May the fire burn him completely.' (KBo 32.14 ii 6-7)



Split ergativity in Hittite?

LUGAL- <i>u</i> - 'king (c.)' <i>pahhur</i> 'fire' (n.)		
A	LUGAL- <i>uš</i>	<i>pahhuwen-anza -anzeš</i>
S	LUGAL- <i>uš</i>	<i>pahhur</i>
P	LUGAL-<i>un</i>	<i>pahhur</i>

What is **-anza**?

- 1) **Derivational approach:** derivational suffix *-ant-* + nominative *-s*
- 2) **Inflectional approach:** *-anza* is an ergative case ending

Luwian: *i*-mutation

Paradigm of common gender nouns in Luwic

	CLuw.		HLuw.		Lyc.	
	sg.	pl.	sg.	pl.	sg.	pl.
nom.	<i>-iš</i>	<i>-inzi</i>	<i>-is</i>	<i>-inzi</i>	<i>-i</i>	<i>-i</i>
acc.	<i>-in</i>	<i>-inz</i>	<i>-in</i>	<i>-inzi</i>	<i>-i</i>	<i>-is</i>
dat.-loc.	<i>-i</i>	<i>-anz</i>	<i>-i</i>	<i>-anz</i>	<i>-i</i>	<i>-e</i>
abl.		<i>-ati</i>		<i>-adi</i>		<i>-edi</i>
gen.adj.		<i>-ašša/i-</i>		<i>-asa/i-</i>		<i>-ehe/i-</i>

- *nakki-* 'heavy < *-íH (Widmer 2007)
- Lyc. -(a)za- < *-eh₂- (Melchert 2014)



Feminine gender as a Core-IE development!

- **Starke** (1982, 1990): 'feminine' motion suffix *-ih₂-*
- **Rieken** (2005): abstract thematic nouns > *i*-stem concrete nouns
- **Norbruis** (2021): resegmentation of *i*-stems as C-*i* stems and merger with *o*-stems

Cases: genitive

GEN.SG

OH. -(a)š, Pal. -aš, Hluw. -as, Lyc. -Ø (PN) < PIE *-os/-s

Lyc. -i/eh(e) < PIE *-(e)so

Hluw. -asi, Car. -ś < PIE *-osyo

GEN.PL < PIE *-om

OH. -an, Lyc. -ē, Lyd -an



number indifferent or only plural? (Kloekhorst 2017 vs. Goedegebuure 2019)



NH -aš = -aš DAT.PL

Hittite vs. Luwic possessive constructions

Luwian

tatarriyamna

curse.N/A.N.PL

'the curses...of the army'

*kuwar-ašša{*n*}*

army-ADJ.POSS-N/A.N.PL



Adjectival gentives

CLuw. -ašša/i-

HLuw. -asa/i-

Lyc. -a/ehe/i-

Mil. -a/ehe/i-

Car. -s

Sid. -asV

Pis. -s (?)

NB:

Hitt. ^{URU} *Tarhunt-ašša-* 'of the God Tarhun'

Pal. *Zaparwat-asa/i-* 'of the God Zaparfa'

< PIE *-osyo GEN > PAnat *-osso- (inflected gen.) =
Suffixaufnahme (or decausative derivation, Fortson 2020)



Cases: genitive and dative

DAT.SG < PIE DAT *-*eij*, LOC *-*i*

OH -*i*/∅, Pal. -*i*/-*ai*, Luw. -*ī*, Lyc. -*i*

DAT.PL

OH -*aš*, Pal. -*aš*, Lyc. -*e* < PIE *-*os*

Luw. -*anz* < PIE *-*ens* (from ACC.PL)

“This means that Lycian stems from a sister language to Proto-Luwian and that both can be regarded as **distinct daughters** of Proto-Luwic.” (Kloekhorst 2022: 69)



Cases: ablative-instrumental, allative

Ablative

- Hitt. *nepišz(a)*, Lyc. *xhadi* < PIE *-ti
- HLuw. *-a-ri/-a-ti* < PIE *-óti

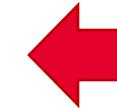
Instrumental: Hitt. *-(i)t* < PIE *-t

From OH > NH: the instrumental *-(i)t* disappears and its functions are taken over by the ablative (Melchert 1977)

Allative: Hitt. *-a* < PIE *-o cfr. Lat. *pro*

Hittite nominal inflection over time

Case	OH: plural	NH: plural
NOM.C	-eš	-eš, -uš, -aš
ACC.C	-uš	-eš, -uš, -aš
ABL.	-az, -za	-az, -za
INS.	-it, -d/ta	



Luwian
-i(n)zi / -a(n)zi
-adi

Hittite nominal stems

- **Nouns:**

- -a-: *antuḫš-a-* 'man'
- -i-: *ḥalk-i-* 'grain'
- -u-: *wēll-u-* 'meadow'
- -ai-: *zahh-ai-* 'battle'
- -au-: *ḥarn-āu-* 'birthing stool'
- One single -e- stem: *utne* (n.) 'land'

- **Adjectives:**

- -a-: *hantezziya-š* 'first'
- -i- (ablaut!): *šuppi-š* 'pure'
- -u- (ablaut!): *āššu-š* 'good'

	<i>ḥalki-</i>	<i>šuppi-</i>
NOM.G	<i>ḥalkiš</i>	<i>šuppiš</i>
NOM.PL	<i>ḥalkiēš</i>	<i>šuppaēš</i>

Hittite consonant stems

NB: most are neuter!

- *h*-stem: *išqaruḥ* (n.) 'vessel', *iskaruḥ-i* D/L
- *l*-stem: *mēmal* (n.) 'meal', *memal-aš* GEN
- *n*-stem: *lamān* (n.) 'noun', *lamn-aš* GEN
→ but *ḥāra-š* (c.) 'eagle' vs. *ḥāran-aš* GEN
- *r*-stem: *aniur* (n.) 'ritual', *aniur-aš* GEN
- *s*-stem: *aīš* (n.) 'mouth', *išš-aš* GEN
- *t*-stem: *kardimiyaz* /*kartimijats/* (c.) 'anger', *kardimiyatt-aš* GEN
- *nt*-stem: *išpanza* /*ispants/* (c.) 'night', *išpand-aš* GEN
- **Heteroclite r/n-stem:** *wātar* (n.) 'water', *weten-aš*
- *-r*: *kurur* 'hostile', *kurur-aš* GEN
- *-nt*: *ḥūmanza* 'all', *ḥūmand-an* ACC



Nominal derivation

Hittite derivational suffixes: some examples

-*ātar* (abstract nouns from verbs, adjectives, nouns)

- *aku-* 'drink' > *akuw-ātar* 'drinking'
- *palhi-* 'wide' > *palh-ātar* 'width'
- *anni-* 'mother' > *anniy-ātar* 'mother-hood'

-*iya-* (adjectives from nouns)

- *išpant-* 'night' > *išpant-iya-* 'nocturnal'



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Pronominal morphology

Pronominal inflection: personal pronouns

1 st person	Stressed		Enclitic	
	Singular	Plural	Singular	Plural
NOM	Hitt. <i>ūk</i> , HLuw. <i>amu</i>	Hitt. <i>wēs</i>	-	-
ACC	Hitt. <i>ammuk</i> , HLuw. <i>amu</i> , Lyc. <i>amu</i> , Lyd. <i>amu</i>	Hitt. <i>anzāš</i> , CLuw. <i>anza(š)</i> , Hluw. <i>anzanz(a)</i>	= <i>mu</i>	= <i>naš</i>
GEN	<i>ammel</i>	<i>anzel</i>	-	-
DAT	<i>ammuk</i> , HLuw. <i>amu</i>	<i>anzāš</i>	= <i>mu</i>	= <i>naš</i>
ABL	<i>ammēdaz</i>	<i>anzēdaz</i>	-	-

- **Anatolian innovation:** spread of -*u-* vocalism from 2nd **tu-* (Hitt. *tu-uk*, HLuw. *tu* ACC) > 1st person
- **Hittite innovation:** OH *ūk* > NH *ammuk* due to Luwian contact?



3rd person pronouns

- No dedicated tonic personal pronoun (demonstratives are used instead)
- **Anatolian innovation:** enclitic 3rd person subject pronouns

	Singular	Plural	
NOM (C)	=aš	=e (OH, MH), =at (MH, NH)	}
ACC (C)	=an	=uš (OH, MH), =aš (MH, NH)	
N/A (N)	=at	=e (OH, MH), =at (MH, NH)	
DAT	=še (OH), =ši (MH, NH)	=šmaš	< PIE *-soi

The reflexive pronoun

	nom.	acc.	dat.	refl.	Hittite
1sg.	(none)	=mu	=mu	=mi /=mu	
2sg.	(none)	=du > =ru	=du > =ru ⁶	=di > =ri	
3sg.	=as (c.)/= ada (n.)	=an (c.)/= ada (n.)	=du > =ru	=di > =ri	
1pl.	(none)	=anz(a)	=anz(a)	=anz(a)	
2pl.	(none)	=manz(a)	=manz(a)	=manz(a)	
3pl.	=ada	==ada	=manz(a)	=manz(a)	
					refl.
					=z(a) ¹⁸
					=z(a)

Table 1: Hieroglyphic Luvian pronominal clitics.

PIE **toi* > Hitt. **te*
 PIE **toi* > Luw. *ti* → Hitt. =z(a)



Pronominal inflection: relative and demonstrative pronouns

Relative/interrogative pronouns: *kui-* < PIE **kʷi-/kʷo-*

Demonstrative anaphoric pronouns (Goedegebuure 2014)

* *kó-* 'this' > Hitt. *kā-*, Pal. *kā-*, Luw. *zā-*,

**Ho-bó-* 'that' > Hitt. *apa-*, Pal. *apa-*, Luw. *āpa-*, Lyd. *bi-*,
Lyc. *ebe-*

**h₁e-* > Hitt. *aši/uni/ini*



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Verbal morphology



Verbal categories

	Anatolian	Other IE languages
number	singular, plural	singular, plural, dual
tense	present, past	present, past, future
mood	indicative, imperative	indicative, imperative, optative, subjunctive
aspect	-	present, aorist, perfect

“Hittite is famous for the fact that its verbal system is **monothematic**

Present vs. aorist?

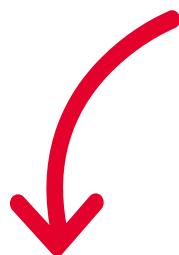
Anatolian verbs with **two synchronic stems** (Melchert 1997 for Hittite, Sasleville 2020: Ch. 18 for Luwic lgs):

karpiye/a- vs. *karp-* 'rise'

kar(a)ššiye/a- vs. *karuš-* 'be silent'

-ye/a- = present **zero = past**

Hitt. -ye/a- < PIE *-ye/o- "this suffix should be identified with the pie present-stem-forming suffix of the same form." (Melchert 1997: 89)





Hittite verbal stem formation

Suffix	Possible base			Function
	NOUNS	ADJECTIVES	VERBS	
-ahh-	+	+	-	factive
-āi-	+	-	-	denominative
-e-	+	+	-	stative/fientive
-ešš-	+	+	-	fientive
-nu-	+	+	+	causative
-ške/a-, -šša-, -anna/i-	-	-	+	pluractional



Anatolian verbal stem formation

- PIE *-ye/o-_A** > Hitt. *ani-ye/a-* 'work', Luw. *ar-i-* 'raise', Lyc. *pzz-i-* 'decree'
- PIE *-eh₁-s-** > Hitt. *park-ešš-* 'become high'
- PIE *-eh₁-** > Hitt. *marš-e-* 'be corrupt'
- PIE *-ske/o-** > Hitt. *anni-ške/a-* 'continue to work', Luw. *assa-zza-* 'speak', Lyc. *qa-s-* 'strike'

"No one denies the obvious relationship of the suffixes to PIE aspectual markers [i.e. present/aorist stem-forming suffixes], but there is a widespread view that these appear in Anatolian in a 'pre-aspectual' guise. They serve as derivational suffixes which modify the 'Aktionsart' of the verbal roots." (Melchert 1997: 84)

Anatolian verbal stem formation

PIE *-ye/o- >

Hitt. *zahh-iye/a-* 'fight', Luw. *pudall-i-* 'hitch up clothes',
Lyc. *kupr-i-* 'love'

PIE *-eh₂-ye/o- >

Hitt. *luluw-ai-* 'make prosper', Luw. *arun-a(i)-* 'make grow', Lyc. *xtt-a(i)-* 'cause damage', Lyd. *pit-a-* 'give'

PIE *-nu- >

Hitt. *war-nu-* 'burn (tr.)', CLuv. *hui-nuwa-* 'move (tr.)',
Lyc. *qa-nuwe-* 'destroy', Lyd. *trf-no-*

PIE *-eyé/ó- >

Hitt. *lukk-e-* 'set fire', Luw. *kwal-(a)i-* 'move (tr.)', Lyc. *kum-ez-e(i)-* 'sacrifice' → denominal forms = Luwic innovation!

PIE *-eh₂- >

Hitt. *newa-abh-* 'renew', Luw. *tur-a-* 'spear', Lyc. *prnñaw-a-* 'build a grave-house', Lyd. *c-a-* 'dedicate'



No evidence for the thematic type **bʰer-e-ti* = Skt. *bharati* 'brings'

Verbal inflection: Anatolian conjugations

		<i>mi</i> -conjugation	<i>hi</i> -conjugation	Anatolian innovation	
Present	sg. 1	<i>ēpmi</i>	<i>ārhi</i>	Pal.	3SG <i>-ti</i> vs. <i>-i</i>
	2	<i>ēpši</i>	<i>ārti</i>		
	3	<i>ēpzi</i>	<i>ari, āri</i>		
	pl. 1	<i>appueni</i>	<i>arweni</i>	CLuw.	3SG <i>-ti</i> vs. <i>-i</i>
	2	<i>apteni</i>	<i>arteni</i>		
	3	<i>appanzi</i>	<i>aranzi</i>	HLuw.	3SG <i>-ti</i> vs. <i>-i</i>
Preterite	sg. 1	<i>ēppun</i>	<i>ārbun</i>	Tendency for a <i>-hi</i> >> <i>-mi</i> replacement, Luw. limited to 3SG, fully achieved in Lyd. & Lyc. (on Lyc. see Vernet 2016)	
	2	<i>ēpta</i>	[<i>ārta</i>]		
	3	<i>ēpta</i>	<i>āraš</i>		
	pl. 1	<i>ēppuen</i>	<i>erwen</i>		
	2	<i>ēpten</i>	[<i>erten</i>]		
	3	<i>ēppir</i>	<i>erir</i>		

NB: purely lexical distribution, no functional motivation (*pace* Rose 2006)

Hittite stem formation: *mi*-verbs

- Ablauting consonant stems:
ešmi 'I am' vs. *ašanzi* 'they are'
kuemi 'I kill' vs. *kunanzi* 'they kill'
- Non-ablauting consonant stems:
walhmi 'I strike' = *walhanzi* 'they strike'
- Irregular consonant stems:
harmi 'I have' vs. *harkanzi* 'they have'

Ablauting stem variation simply reflects **stress variation**, it does not encode grammatical features (vs. e.g. Ancient Greek)

	SG	PL
PRS	strong	weak
PST	strong	weak (excp. 3pl)



Hittite stem formation: *mi*-verbs

- Ablauting vowel stems:

uwatemi 'I lead here' vs. *uwadanzi* 'they lead here'

- Non-ablauting vowel stems: only suffixed (-*nu*-)

arnumi 'I transport' = *arnuwanzi* 'they transport'

- Irregular vowel stems:

paimi 'I go' vs. *panzi* 'they go'; *temi* 'I say' vs. *taranzi* 'they say'

- Suffixed stems: -*ške/a-*, -*ēšš-*, -*nu-*, -*āi-*



Hittite stem formation: *hi*-verbs

- Consonant stems:
 - ablauting: *ārhi* 'I arrive' vs. *aranzi* 'they arrive'
 - non-ablauting: *istaphi* 'I close' vs. *istappanzi* 'they close'
- Vowel stems:
 - ablauting: *tēhhi* 'I place' vs. *tiyanzi* 'they place'
 - non-ablauting: *tarnahhi* 'I let' vs. *tarnanzi* 'they let'
- Suffixed stems: **-ahh-, -anna-, -šša-**

Origin of the *mi*-conjugation

Luwic innovation: Luw. *-wi*, Lyc. *-u*, Lyd. *-w/u*

		Present	PIE	Preterite
		sg. 1	<i>ēpmi</i>	*- <i>mi</i> ,
		2	<i>ēpši</i>	*- <i>si</i>
		3	<i>ēpzi</i>	*- <i>ti</i>
pl. 1		<i>appueni</i>	*- <i>me-</i>	pl. 1
		<i>apteni</i>	*- <i>te(-)</i>	2 <i>ēpten</i>
		<i>appanzi</i>	*-(é) <i>nti</i>	3 <i>ēppir</i>

Anatolian innovation: Hitt. *-weni*, Pal. *-wani*, Luw. *-unni* < PIE dual *-*we-*, e.g. Skt. *ábhāra-va*

Origin of the *mi*-conjugation

	Present	Preterite	PIE
sg. 1	<i>ēpmi</i>	sg. 1 <i>ēppun</i>	*-m
2	<i>ēpši</i>	2 <i>ēpta</i>	*-s
3	<i>ēpzi</i>	3 <i>ēpta</i>	*-t
pl. 1	<i>appueni</i>	pl. 1 <i>ēppuen</i>	*-me(-)
2	<i>apteni</i>	2 <i>ēpten</i>	*-te(-)
3	<i>appanzi</i>	3 <i>ēppir</i>	*-(é)nt

Anatolian innovation

< PIE *-to 3SG.MID

CLuw. -*tta*, HLuw. -*ta*,
Lyc. -*te*



Hittite innovation < PIE *-ēr

Spread from *hi*-conj. vs. Luw. -*anta*

The mediopassive/middle conjugation: Hittite

Singular

PRES. 1	- <i>h̥ari</i> , - <i>h̥āri</i> , - <i>h̥ahari</i> ^a
2	- <i>tta</i> , - <i>ttari</i> , - <i>ttati</i>
3	- <i>a</i> , - <i>ari</i> , - <i>āri</i> , - <i>tta</i> , - <i>ttari</i> , - <i>ttāri</i>
PRET. 1	- <i>h̥hati</i> , - <i>h̥hat</i> , - <i>h̥ahat</i> , - <i>h̥ahati</i> , - <i>h̥ahatti</i>
2	- <i>at</i> , - <i>tta</i> , - <i>ttat</i> , - <i>tati</i>
3	- <i>at</i> , - <i>ati</i> , - <i>tta</i> , - <i>ttat</i> , - <i>tati</i>

Plural

PRES. 1	- <i>wašta</i> , - <i>waštati</i>
2	- <i>dduma</i> , <i>ttuma</i> , - <i>ttumari</i> , - <i>ttu(m)mat</i>
3	- <i>anta/-anda</i> , - <i>antari</i> , - <i>ant/dāri</i>
PRET. 1	- <i>waštat</i> , - <i>waštati</i>
2	- <i>ddumat</i> , - <i>ttumāt</i>
3	- <i>antat</i> , - <i>antati</i>

- **-a** vs. **-ta** verbs
- -*ri* endings, as in *kiš-a* vs. *kiš-a-ri*
- (preterite) endings in **-ti** (< reflexive **t?*)
- 1SG **-h̥ah̥a** (= Lyc. -*xagā*) as archaism vs. innovation

The middle inflection



Lydian evidence disputed
(Inglese 2020: 87-88)

	HITT.	PAL.	LUW.	LYC.	PIE
1SG	- <i>ha</i>			- <i>xani</i>	*- <i>h₂e-r</i>
2SG	- <i>ta</i>				*- <i>th₂e-r</i>
3SG	- <i>a/-ta</i>	- <i>ari/-tar</i>	- <i>ari/-tari</i>	- <i>(t)ēni</i>	*-(<i>t)o-r</i>
1PL	- <i>wašta</i>	< PIE *- <i>we-d^hh₂</i>			*- <i>me-d^hh₂</i>
2PL	- <i>dduma</i>				*- <i>d^u(u)we-</i>
3PL	- <i>anta</i>	- <i>anta</i>	- <i>anta</i>		*- <i>nto-r</i>

	HITT.	LUW.	LYC.	PIE
1SG	- <i>hat(i)</i>	- <i>hasi</i> (H)	- <i>xagā</i>	*- <i>h₂e</i>
2SG	- <i>at</i>			*- <i>th₂e</i>
3SG	- <i>at/-tat</i>	- <i>ta</i>		*-(<i>t)o</i>
1PL	- <i>waštat</i>			*- <i>me-d^hh₂</i>
2PL	- <i>ddumat</i>			*- <i>d^u(u)we-</i>
3PL	- <i>antat</i>	- <i>antasi</i> (H)		*- <i>nto</i>



-a vs. -ta endings

- 1) *bi-/mi*-conj. (Goetze 1933: 259) → only partly for OH!
- 2) 'stative' theory (e.g. Oettinger 1976)

Ved. ***bru-te*** 'invokes' vs. ***bruv-é*** 'is called' → semantically untenable, e.g. Hitt. *paršiya* 'breaks'

'to lie': **kéi-ori*, **kéi-ontori* (CLuv. *ziyar(i)*; Lyc. *sijēni*—NB Pres1Sg *sixāni*)
**kéi-tori*, **kéi-ontori* (Hitt. *kitta(ri)*, *kianta(ri)*; Pal. *kītar*; Lyc. *sitēni*)

- 3) 'morphological' theory: *-o >> *-to (based on act *-ti) first with thematic formations (Yoshida 2013, Villanueva Svensson 2014)

pash-a 'protects' (MS) >> *pash-tat* 'protected' (NS)



-*ri* endings: PIE origin

	Hittite	Tochar. A	Sanskrit	Greek	Latin	Old Irish	Gothic
PRIMARY ENDINGS							
1	- <i>ha(ri)</i>	- <i>mār</i>	- <i>e</i>	- <i>mai</i>	- <i>r</i>	- <i>ur</i>	- <i>da</i>
2	- <i>ta(ri)</i>	- <i>tār</i>	- <i>se</i>	- <i>oi</i>	- <i>ris</i>	- <i>ther</i>	- <i>za</i>
3	- <i>(t)a(ri)</i>	- <i>tär</i>	- <i>te</i>	- <i>toi</i>	- <i>tur</i>	- <i>thir</i>	- <i>da</i>

Where does *-*r* come from (Inglese 2020: 99)?

- **Deictic** adverb (= *-i‘hic et nunc’), or *ré‘backwards’
- **r-stem** nouns
- **3rd person plural** PIE *-ēr > impersonal > middle



-*ri* endings: Hittite data

- **Tense** distribution: -*ri* limited to the **present** in Hittite
- **Lexical** distribution: *lukkatta* 'it dawns' vs. **lukkattari*
- Issue of **chronology**: -*ri* is optional in OH and becomes increasingly common (virtually obligatory) in NH
- **Morphophonological** distribution:
iš-ka-a-ri vs. *ki-it-ta*

Stage 1: -*r* lost in unaccented final syllables but preserved for a subset of -*a* verbs with accented ending (-C*a*-*a*-*ri*)

Stage 2: re-characterization as -*ri* on analogy with the active (-*mi*) and generalization to all verb classes



The distribution of verbal voice

- **Activa tantum:** *pai^{-zi}* 'go'
- **Media tantum:** *zē^{-a(ri)}* 'cook'
- **Oppositional middles:** *nai^{-j}* 'turn (tr.)' vs. *nē^{-a(ri)}* 'turn (intr.)'
- **Optional middles:** *nekuzi* = *nekutta* 'it becomes evening'
- **Voice reversal** (Yates & Gluckman 2020):

pai^{-zi} 'go' > *paiške/a^{-ta(ri)}*

parš(i)^{-a(ri)} 'break' > *parš(i)-anna^{-j}*

Origin of the *hi*-conjugation



ār̥hi
ārti
ari, āri
arwени
arteni
aranzi

PIE
*-h₂e-i
*-th₂e-i
*-e-i
*-wени
*-teni
*-enti

ārbun
[ārta]
āraš
erwen
[erten]
erir

*-h₂e +m
*-th₂e
*-s-t (?)
*-wen
*-(s)ten
*-ēr

PIE MIDDLE
*-h₂e-r
*-th₂e-r
*-(t)o-r
*-me-dʰh₂
*-d ^u (u)we-
*-nto-r

*-h₂e
*-th₂e
*-(t)o
*-me-dʰh₂
*-d ^u (u)we-
*-ēr

PERFECT and *hi*-C based on *o*-grade roots

PIE *molh₂e-i > Hitt. *mallai* 'grind' = *woid-h₂e- > Skt. *veda*, Gk. *oîda* 'know'

PIE *we-wok-h₂e- > Hitt. *wewakk-* 'ask'
 → secondary! (Dempsey 2015)

PIE PERFECT
*-h₂e
*-th₂e
*-(t)o
*-me
*-e
*-ēr

- 1) MIDDLE > *hi*-C
- 2) PERFECT > *hi*-C
- 3) X > *hi*-C, PERFECT,
MIDDLE



Origin of the *hi*-conjugation

- 1. Middle theory:** The *hi*-conj. derives from the middle (Rosenkranz 1953, Rose 2006) → semantically un compelling
- 2. Perfect theory:** The *hi*-conj. derives from the (unreduplicated) perfect (Eichner 1975, Lazzeroni 2011) → formal and semantic issues (but see Kloekhorst 2018)
- 3. “*h₂e*-conjugation” theory:** Jasanoff (2003, 2018): PIE **m*- vs. *h₂e*-conjugation, the latter giving rise to *hi*-conj., the perfect and the middle.

The imperative

Hittite

1SG	-(a)llu
2SG	-Ø/-i/-t
3SG	-(t)u
1PL	-weni
2PL	-ten
3PL	-(a)ntu

-llu e -lit < /ā- 'let'
< -Ø / *-d^hi
< PIE secondary ending + *u
= indicative!
= indicative!
< PIE secondary ending + *u
(cf. Skt. -antu) = Pal. -antu, Luw. -
antu, Lyc. -*V*ntu





What happened to the other moods?

the loss of the subjunctive and optative moods. (Kloekhorst 2022: 67)

- **Subjunctive** (Jasanoff 2019):

Hitt. *pahs-i* 'protect!' = Ved. *si*-imperative, e.g. *yáksi* 'sacrifice!'

< PIE **peh₂-s-esi* = *s*-aorist subjunctive

- **Optative**: phonological merger with -*ye/o*-stems?



Optative in Hittite

- (1) *iyami=man=pat=wa* *kuitki*
do.PRS.1SG=PTC=PTC=QUOT INDF.ACC.N
'If someone might do something!' (KUB 23.103 rev. 13)

- (2) *man=an=kan* ^m*Aškaliyaš* *kuenzi*
PTC=3SG.ACC=PTC A.NOM kill.PRS.3SG
'A. wanted to kill him.' (KBo 3.34 ii 17)

man < *mn

cf. *mān* 'if'

- (3) *man=uš=kan* ^m*Huzziyaš* *kuenta*
PTC=3PL.ACC=PTC H.NOM kill.PST.3SG
'H. would have killed them.' (KUB 23.11 iii 11)



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