

For a description of the project: https://hal.archives-ouvertes.fr/hal-02149708v1. Email contact: marine.beranger@college-de-france.fr.

1. XML Declaration and Namespaces

The XML declaration is a processing instruction that identifies the document as being XML. XML namespaces are used for providing uniquely named elements and attributes in an XML document.

<?xml version="1.0" encoding="UTF-8"?>
<?xml-model href="https://raw.githubusercontent.com/MarineBeranger/xml-cuneiform/master/schema-cuneif-mb.rng\" type="application/xml"
schematypens=""http://relaxng.org/ns/structure/1.0"?>

2. Text

<text> : XML element used to frame the text; used with different attributes:

- id="" > reference of the text
- genre="" > textual genre
 - administrative
 - astrological
 - astronomical
 - hemerological
 - historical
 - hymn-prayer
 - incantation-ritual
 - legal
 - letter
 - lexical
 - literary
 - liturgy
 - mathematical
 - medical
 - omen
 - prayer-incantation
 - ritual
 - royal inscription
 - school
 - scholarly
 - uncertain.
- placeComposition=""
 - (city –or if unknown kingdom– where the tablet was written; the Ancient name must be used: Nippur, Ebla, Mari, ...)
 - unknown
- placeDiscovery=""
 - (city –or if unknown kingdom– where the tablet was found; the Ancient name must be used)
 - unknown
- period=""
 - ea I > Early Dynastic I
 - ea I?
 - ea II > Early Dynastic II
 - ea II?



- ea III > Early Dynastic III
- ea III?
- oldakk > Old Akkadian
- oldakk?
- gd > Gutian Dynasty
- gd?
- ld II > Lagaš II Dynasty
- ld II?
- Ur III
- Ur III?
- oldass > Old Assyrian
- oldass?
- oldbab > Old Babylonian
- oldbab?
- midass > Middle Asssyrian
- midass?
- midbab > Middle Babylonian
- midbab?
- neoass > Neo-Assyrian
- neoass?
- neobab > Neo-Babylonian
- neobab?
- ltebab > Late Babylonian
- ltebab?
- unknown
- century=""
 - (17, 18, 5, ...)
 - unknown
- year=""
 - (2025, 1750, ...)
 - unknown
- king=""
 - Abi-ešuh
 - Abi-ešuh?
 - Ammi-ditana
 - Ammi-ditana?
 - Abdi-Erah
 - Abdi-Erah?
 - Ammi-ṣaduqa
 - Ammi-ṣaduqa?
 - Anam
 - Anam?
 - Bilalama
 - Bilalama?
 - Daduša
 - Daduša?
 - Hammi-dušur
 - Hammi-dušur?
 - Hammu-rabi
 - Hammu-rabi?
 - Ibal-pi-El II
 - Ibal-pi-El II?
 - Ilum-gamil
 - Ilum-gamil?



- Ipiq-Adad I
- Ipiq-Adad I?
- Kirikiri
- Kirikiri?
- Kudur-Mabuk
- Kudur-Mabuk?
- Naram-Sin
- Naram-Sin?
- Nur-Adad
- Nur-Adad?
- Rim-Anum
- Rim-Anum?
- Rim-Sin I
- Rim-Sin I?
- Rim-Sin II
- Rim-Sin II?
- Sabium
- Sabium?
- Samsi-Addu
- Samsi-Addu?
- Samsu-ditana
- Samsu-ditana?
- Samsu-iluna
- Samsu-iluna?
- Sin-iddinam
- Sin-iddinam?
- Sin-kašid
- Sin-kašid?
- Sin-muballiț
- Sin-muballit?
- Sumu-abum
- Sumu-abum?
- Sumu-El
- Sumu-El?
- Sumu-la-El
- Sumu-la-El?
- Silli-Sin
- Silli-Sin?
- Šu-iliya
- Šu-iliya?
- Ur-Ninmar
- Ur-Ninmar?
- Ur-Ningišzida
- Ur-Ningišzida?
- Uṣur-awassu
- Uṣur-awassu?
- Yahdun-Lim
- Yahdun-Lim?
- Zabaya
- Zabaya?
- Zimri-Lim



- Zimri-Lim?
- to be completed
- unknown
- scribe=""
 - (name of the person who wrote the text; could be a professional scribe, the author her/himself, ...)
 - TBD
- author=""
 - (name of the author of the text; this name can be the same as the one given in writer="" if the author wrote the text her/himself)
- genderauthor=""
 - F
 - M
 - TBD
- prof=""
 - (profession/occupation of the author: king, diviner, merchant, wetnurse, ...)
 - TBD
- addressee="Zimri-Lim"
 - (if the text is a letter, specify here the name of the sender)
 - no.
- genderaddressee="Zimri-Lim"
 - F
 - M
 - TBD

3. Words

<w> : XML element used to frame each word within a text; used with different attributes:

- line=""
- lang=""

From the ORACC website:

http://oracc.museum.upenn.edu/doc/help/editinginatf/primer/inlinetutorial/index.html#h_languages>

Akkadian	(none: must specify dialect too)
Early Akkadian	akk-x-earakk
Old Akkadian	akk-x-oldakk
Ur III Akkadian	ua
Old Assyrian	akk-x-oldass
Old Babylonian	akk-x-oldbab
Old Babylonian peripheral	akk-x-obperi
Middle Assyrian	akk-x-midass
Middle Babylonian	akk-x-midbab
Middle Babylonian peripheral	akk-x-mbperi
Neo-Assyrian	akk-x-neoass
Neo-Babylonian	akk-x-neobab
Late Babylonian	akk-x-ltebab
Standard Babylonian	akk-x-stdbab
Conventional Akkadian	akk-x-conakk



Hittite	hit
Sumerian	sux or sux-x-emegir
Emesal	sux-x-emesal
Syllabic	sux-x-syllabic
Udgalnun	sux-x-udgalnun

- frag=""> transliterated form of a word, with the (curly/angle) brackets...
 form=""> transliterated form of a word, without the (curly/angle) brackets...
 cf=""> citation form = dictionary form as noted in the CDA

- norm="" > normalized form (= transcription)
- pos="" > part of speech

Parts of speech to be used (based on Archibab and the ORACC website: http://oracc.museum.upenn.edu/doc/help/languages/akkadian/index.html)

Possibility for Scripta?		ARCHIBAB		ORACC	•
AV	adverb	VZ	vocabulaire autre	AV	adverb
CNJ	coordination conjunction	VZ	vocabulaire autre	CNJ	coordination conjunction
	lû[either]				lū[either]
	u[and//but]				u[and]
	û[or]				ū[or]
	ûla[either]				
	ûlûma[or]				
DD	deity	DD	divinité		
J	interjection	VZ	vocabulaire autre	J	interjection
	ahula[alas]				
					anna[yes]
					ai[alas]
	apputtum				
	ullu[no]				ullu[no]
MM	month name	MM	mois		
MOD	modal, negative, or conditional particle	VZ	vocabulaire autre	MOD	modal, negative, or conditional particle
	ai[not]				ai[not]
	anna[yes//certainly]				
	assurri				
	î[precative]				
	lâ[not]				lā[not]
	lû[either//indeed/may]				lu[either]
					lū[indeed]
					lū[may]
	pîqat				



	šumma[if]				šumma[if]				
	šummân								
	ul[not]				ul[not]				
NU	number		(disparaissent !!)	NU	number				
P	pronoun	VZ	vocabulaire autre	(see below)					
				DP	OP demonstrative pronoun				
					annû[this]				
					ullû[that]				
				IΡ	independent/anaphoric pronoun				
					nom.	acc./gen.	dat.		
					anāku[I]	yâti[me]	yâšim[to me]		
					attā[you]	kâta[you]	kâšim[to you]		
					attī[you]				
					šū[he//it]	šuāti[him//it]	šuāšim[to him//to it]		
					šī[she//it]	šiāti[her//it]	šiāšim[to her//to it]		
					nīnu[we]	niāti[us]	niāšim[to us]		
					attunu[you]	kunūti[you]	kunūšim[to you]		
					attina[you]	kināti[you]	kināšim[to you]		
					šunu[they]	šunūti[them]	šunūšim[to them]		
					šina[they]	šināti[them]	šināšim[to them]		
				PP	possessive pronoun				
					yû[mine]				
					kû[yours]				
					šû[his//hers//its]				
					nû[ours]				
					kunû[yours]				
					šunû[theirs]				
				RP	reflexive/recip	procal pronoun			
				XP	indefinite pronoun				
PF	female name	PF	prénom femme						
РН	male name	РН	prénom homme						
PRP	preposition	VZ	vocabulaire autre	PRP	preposition				



	adi[until]				adi[until]
	ana[at//to]				ana[at//to]
	aššu[about]				aššu[about]
	balu[without]				balu[without]
	eli[on//over]				eli[on//over]
	ina[in//from]				ina[in//from]
	ištu[from]				ištu[from]
	itti[with]				itti[with]
	kâmma[so]				
	kî[like]				kī[like]
	kîma[like//instead of]				kīma[like//instead of]
	lâma[before]				lāma[before]
					mala[as much as]
	qadu[with]				qadu[with]
	ša[of]	VZ	vocabulaire autre	DET	determinative pronoun ša[of] šūt[of] šīt[of]
	ullânum[except]				
QP	interrogative pronoun	VZ		QP	interrogative pronoun
	ammînim[why]				
	ayyum[which]				ayyû[which]
	kî				
	mâmînum				
	mannum[who]				mannu[who]
	matîma				
	mînum[what]				mīnu[what]
REL	relative pronoun	VZ	vocabulaire autre	REL	relative pronoun
	ali				
	ašar				
	mala[as much as]				mala[as much as]
	mali				
	mati				
					mimmû[all that]
	ša[that//who]				ša[that]
					šūt[that]
					šīt[that]
SBJ		W7	vocabulaire	SBJ	subjunction
	subordination conjunction	VZ	autre		
	subordination conjunction adi[until]	VZ			adi[until]
		VZ			adi[until]
	adi[until]	VZ			adi[until]



	aššum[because]				aššu[because]
	êma[wherever//whenever]				ēma[wherever//whenever]
	inûma[when]				inūma[when]
	ištu[since]				ištu[since]
	ištûma[because]				
	kî[when]				kī[when]
	kîma[as]				kīma[as]
	lâma[before]				lāma[before]
	warka[after]				warka[after]
TC	river name	TC	toponyme cours d'eau		
TE	irrigation district name[A.GAR]	TE	toponyme		
TL	toponym	TL	toponyme lieu		
VV	verb (including infinitives, (active) particles [pārisum] and statives [parsāku])	VV	vocabulaire verbe	V	verb (including infinitives, marked with EPOS 'N and gerundive GW)
VA	adjective (including verbal adjectives [parsum])	VA	vocabulaire adj	AJ	adjective (including statives, verbal adjectives and participles)
VS	noun	VS	vocabulaire substantif	N	noun (including verbal adjectives and participles)

■ gw="" > translation

4. Graphemes

(see ORACC: http://oracc.museum.upenn.edu/ns/gdl/1.0/index.html#Values)

<gdl> : XML element used to frame the different cuneiform signs combined to make a word
: XML element used to frame each cuneiform sign within a word; used with different attributes:

- value=""> reading of a sign in a given instance
- break="" > is the sign readable on the tablet?

• no

erased {na}
 supplied ≤na≥
 excised ≤≤na≥≥

role=""

• comp phonetic complement

det determinativelogo logogramnum number

• syll syllabic reading

• uncertain

• missing when the sign is broken



- refSyllab="" > reference number of the sign in Borger's 2010 preceded by #MesZL
- refUnicode="">

5. Example

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-model href="http://www.tei-c.org/release/xml/tei/custom/schema/relaxng/tei all.rng"</p>
type="application/xml"
        schematypens="http://purl.oclc.org/dsdl/schematron"?>
<TEI xmlns="http://www.tei-c.org/ns/1.0">
  <text id="AbB 2 1" genre="lettre" placeComposition="Babilim" placeDiscovery="Larsa"
    period="oldbab" king="Hammu-rabi" century="18" year="1762" scribe="TBD" author="Hammu-rabi"
    gender-author="TBD" addressee="Sin-iddinam" gender-addressee="TBD">
    <w line="1" lang="akk-x-oldbab" frag="[a]-na≤<-na≥=" form="a-na" cf="ana" norm="TBD" pos="VZ"
      gw="à, vers, pour">
      <gdl>
         <g value="a" break="missing" role="syll" refSyllab="#MesZL839" refUnicode="#U+12000"/>
         <g value="na" break="no" rol="syll" refSyllab="#MesZL110" refUnicode="#U+1223E"/>
         <g value="na" break="excised" rol="syll" refSyllab="#MesZL110" refUnicode="#U+1223E"/>
      </gdl>
    <w line="1" lang="akk-x-oldbab" frag="\( d \) \( EN.ZU-i-di \) -nam" form="(d) \( EN.ZU-i-di \) -nam"
      cf="Sin-iddinam" norm="TBD" pos="PH" gw="Sin-iddinam">
      \langle gdl \rangle
         <g value="(d)" break="supplied" role="det" refSyllab="#MesZL10" refUnicode="#U+1202D"/>
         <g value="EN" break="no" rol="logo" refSyllab="#MesZL164" refUnicode="#U+12097"/>
         <g value="ZU" break="no" rol="logo" refSyllab="#MesZL15" refUnicode="#U+1236A"/>
         <g value="i" break="no" rol="syll" refSyllab="#MesZL252" refUnicode="#U+1213F"/>
         <g value="dí" break="no" rol="syll" refSyllab="#MesZL119" refUnicode="#U+12077"/>
         <g value="na" break="erased" rol="syll" refSyllab="#MesZL110" refUnicode="#U+1223E"/>
         <g value="nam" break="no" rol="syll" refSyllab="#MesZL134" refUnicode="#U+12246"/>
      </gdl>
    <w line="2" lang="akk-x-oldbab" frag="qí-b[í]-[m]a" form="qí-bí-ma" cf="qabûm" norm="TBD"
      pos="VV" gw="dire, parler, ordonner">
         <g value="qí" break="no" role="syll" refSyllab="#MesZL737" refUnicode="#U+121A0"/>
         <g value="bi" break="damaged" role="syll" refSyllab="#MesZL313" refUnicode="#U+12248"/>
         <g value="ma" break="damaged" role="syll" refSyllab="#MesZL552" refUnicode="#U+12220"/>
      </gdl>
    </w>
    <w line="3" lang="akk-x-oldbab" frag="4" form="4" cf="4" norm="TBD" pos="NU" gw="4">
         <g value="4" break="no" role="num" refSyllab="#MesZL852" refUnicode="U+12409"/>
      </gdl>
    </w>
    <w line="3" lang="akk-x-oldbab" frag="\"MUHALDIM\".ME\"S\" form=\"MUHALDIM.ME\"S\"
cf="nuhatimmum"
      norm="TBD" pos="VS" gw="cuisinier">
      <gdl>
         <g value="MUHALDIM" break="damaged" role="logo" refSyllab="#MesZL98"</p>
refUnicode="U+1222C"/>
         <g value="MEŠ" break="no" role="logo" refSyllab="#MesZL754"</p>
           refUnicode="U+12228&U+1230D"/>
      </gdl>
<w line="4" lang="akk-x-oldbab" frag="(d)EN.ZU-i-dí-nam" form="(d)EN.ZU-i-dí-nam"
      cf="Sin-iddinam" norm="TBD" pos="PH" gw="Sin-iddinam">
```



```
<gdl>
<g value="(d)" break="no" role="det" refSyllab="#MesZL10" refUnicode="#U+1202D"/>
<g value="EN" break="no" rol="logo" refSyllab="#MesZL164" refUnicode="#U+12097"/>
<g value="ZU" break="no" rol="logo" refSyllab="#MesZL15" refUnicode="#U+1236A"/>
<g value="i" break="no" rol="syll" refSyllab="#MesZL252" refUnicode="#U+1213F"/>
<g value="di" break="no" rol="syll" refSyllab="#MesZL119" refUnicode="#U+12077"/>
<g value="nam" break="no" rol="syll" refSyllab="#MesZL134" refUnicode="#U+12246"/>
</gdl>
</rr>
</re>
</rr>
</re>
</re>
</rr>
</re>
```