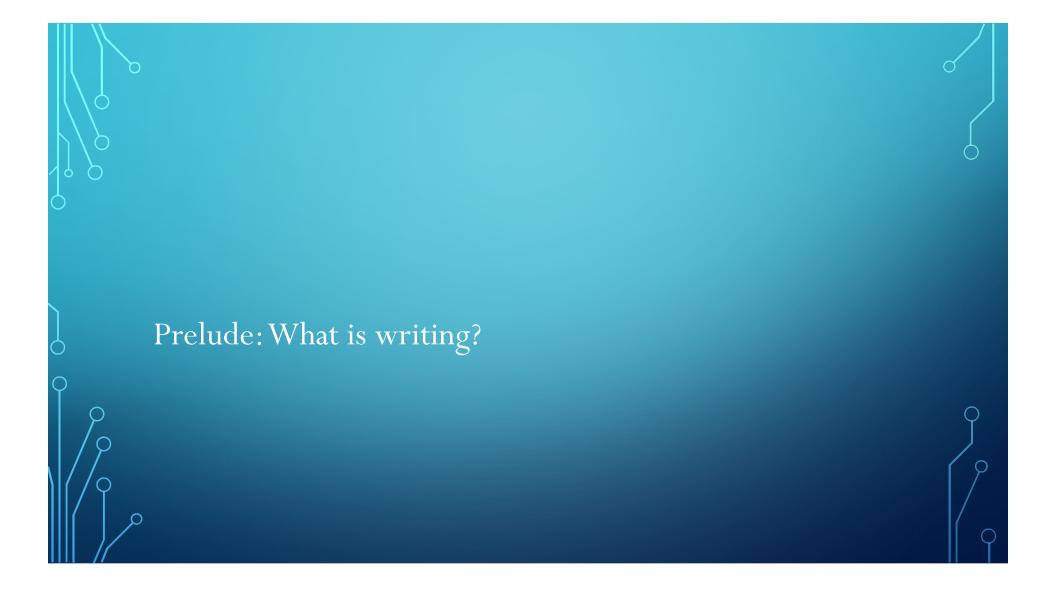
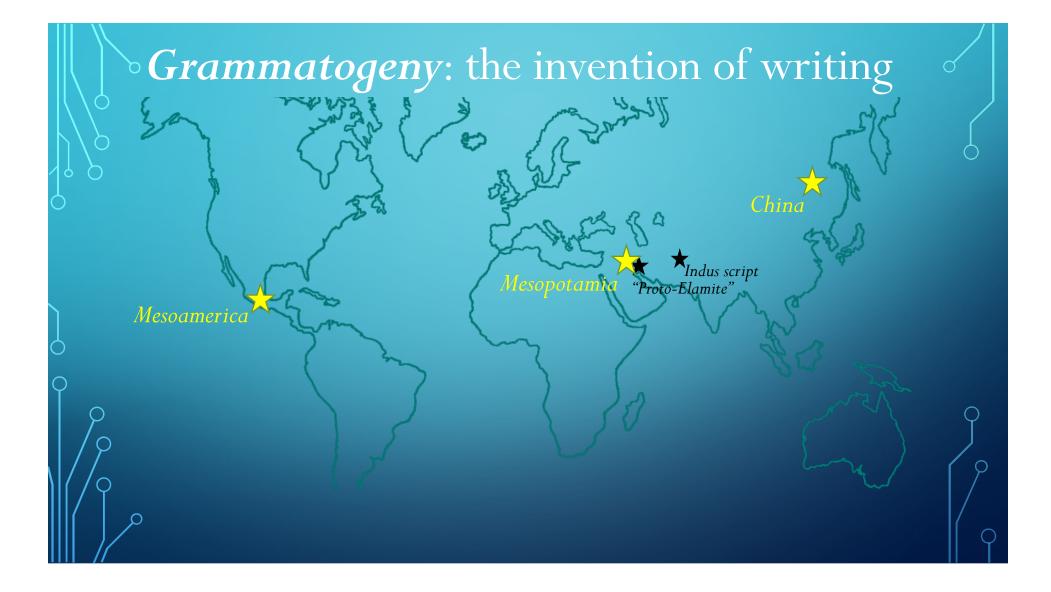
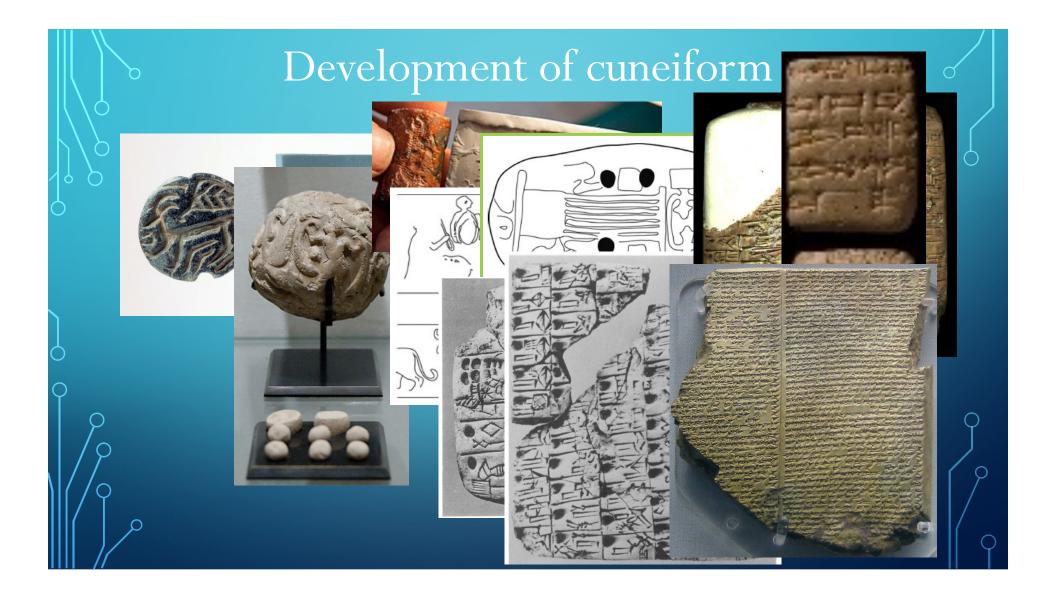
When Is Non-writing Writing? or, When Is Writing Non-writing? Peter T. Daniels Independent scholar, Jersey City AWLL 2020 Chapel Hill On line 21 October 2021











	> Wha	t shall we	e call non-writing?	0
	Gelb1952/63	Forerunners of writing	Primitive drawings, Descriptive representational devices, and Identifying-mnemonic devices	Ę
	Diringer 1948–68	Embryo- writing	Iconography and Sympathetic magic, Mnemonic devices, and Symbolic means of communication	
	Février 1948/59	Mnémotech- nique et synthétique	Knots, Geometric signs, Images, Stylization, Petroglyphs, Pictorial narratives, and Synthetic writing	
/0	Cohen 1958	Protoécriture	Non-writing and Pictographic pre- writing	J
0	Friedrich 1966 Jensen 1969	Vorstufen	Object-writing and Pictorial ideography Object-writing and Graphic first stages; then Idea-writing and Pictography	

	> Wha	t shall we	e c	all non-writing?	0
	Gelb1952/63	Forerunners of writing	Pri rep Ide		
9	Diringer 1948–68	Embryo- writing	Ico Mn of	Ways of Communicating Ideas	I I II 20 22
	Février 1948/59	Mnémotech- nique et synthétique	Kn Sty nar	II. FORERUNNERS OF WRITING Primitive Drawings Descriptive-Representational Device Identifying-Mnemonic Device	24 24 29 36
	Cohen 1958	protoécriture	Nc wr	Limited Systems III. WORD-SYLLABIC SYSTEMS Sumerian System	51 60 61
	Friedrich 1966 Jensen 1969	Vorstufen	Ob	pject-writing and Pictorial ideography pject-writing and Graphic first stages; en Idea-writing and Pictography	

> What s	hall w	e call true non-writing? ه	
Gelb1952/63	Forerunr of writing		
		I	age
Diringer 1948–68	Embryo-	FOREWORD	XI
	writing	PREFACE	13
	witting	INTRODUCTION	17
Février 1948/59	Mnémote nique et synthétiq	Study of history of writing. Writing and early civilization. Various stages of writing: embryo-writing; iconography and "sympathetic magic"—rock pictures; mnemonic devices; symbolic means of communication; pictography or picture-writing; ideographic writing; transitional scripts; phonetic writing: syllabaries or syllabic writing; the alphabet.	
Cohen 1958	protoécrit	FIRST PART	
Friedrich 1966	Vorstufen	NON-ALPHABETIC SYSTEMS OF WRITIN	G
Jensen 1969		Chapter	
		I. CUNEIFORM WRITING THEFT IDEA-WITCING and FICCOGLAPHY	41

V v	Vhat shall w	e call no	on-writing?
Gelb1952/63	Forerunners	Primitive d	I La Naissance de l'écriture
	of writing	representat Identifying-	Écriture et langage
Diringer 1948	3–68 Embryo- writing	Iconograph Mnemonic	Les Noeuds
Février 1948/	nique et	of commun Knots, Gec Stylization,	L'Image et le mot
0	synthétique	narratives, a	III Les Écritures de l'Amérique centrale
○ Cohen 1958	protoécriture	Non-writin	1 L'Écriture maya
19			IV Les Grands écritures analytiques (ou idéographiques) 1 L'Écriture chinoise et les écritures des pays voisins
$//_{\odot}$ Friedrich 196	6 Vorstufen	Object-wri	L'Écriture coreenne
Jensen 1969		Object-wri	L'Écriture annamite (chu'nôm et quôc ngu') 89 L'Écriture japonaise
		then Idea-w	A L'Ecriture sumero-akkadienne 100

	What shall we call non-writing?						
$\left \left(\right. \right)$	Gelb 1952/63	Forerunners	Primitive draw	TABLE DES MATIÈRES (1953)			
\mathbb{N}	\mathbf{b}	of writing	representatior		*1		
			Identifying-mn	Avertissement	6		
	Diringer 1948–68	Embryo-	Iconography a	Entroduction. — L'écriture, grande invention sociale et instrument intellectuel	7		
			Mnemonic dev	Chapitre premier. — Signes en dehors de l'écriture Observations préliminaires. — 1. Information. — 2. Mes-	9		
		writing		 sage. — 3. Convention et pacte. — 4. Rapports économiques. — 5. Comptes et paiements. — 6. Mesures. — 7. Rapports d'autorité et de prestige. — 8. Appartenance et identité. 			
			of communica	9. Sorcellerie, magie, religion primitive. — 10. Astrologie et astronomie. — 11. Composition littéraire. — 12. Jeux à combinaison.			
\	Février 1948/59	Mnémotech-	Knots, Geome				
		nique et	Stylization, Pe	parlant à la lettre Préambule	15 15		
\circ		synthétique	narratives, and		16		
Ĭ	 Cohen 1958 	protoécriture	Non-writing a	 Pictogrammes-signaux et pictogrammes-signes. — Indiens d'Amérique. — 3. Eskimos. — 4. Sibériens. — Africains. — 6. Océaniens. 			
	γ_{ρ}	proceeding	writing	 B. — L'écriture picto-idéographique de l'Amérique cen- trale (Mayas et Aztèques du 1V° au XVI° siècle) 1. Ecriture maya. — 2. Ecriture aztèque. 	19		
	$/_{\odot}$ Friedrich 1966	Vorstufen	Object-writing	C. — L'écriture idéographique en Chine (du 3 ^é millénaire jusqu'à nos jours)	23		
	Jensen 1969		Object-writing	1. Conditions sociales, origines. — 2. Systeme pa-kwa. — 3. Ecriture d'origine pictographique. — 4. Disposition et			
$ _{-}$			then Idea-writ	ing and Fictography			

	> Wha	t shall we	e call	non-writing?	_
$\left \left(\right) \right $	Gelb1952/63	Forerunners	Primit	INHALTSVERZEICHNIS	
$\left \right\rangle \left \right\rangle \left \right\rangle$		of writing	repres Identif	Allgemeine Bemerkungen zu Arten und Entwicklung der Schrift Vorstufen der Schrift	11
9	Diringer 1948–68		Iconog	 Die sogenannte Gegenstandsschrift Bildliche Ideenschrift Weiterer Entwicklungsgang der Schrift 	15 19 24
		writing	Mnem of con	1. Hauptteil Die große schriftschöpferische Leistung der Alten Welt	
	Février 1948/59	Mnémotech- nique et	Knots Styliza	 I. Die beiden Schrift-Urschöpfungen im altorientalischen Bereich 1. Die ägyptische Schrift	31 32
0 0		synthétique	narrat	 C. Entwicklung der ägyptischen Schrift 35 2. Die Keilschrift A. Äußere Schriftform 42 	42
2	Cohen 1958	protoécriture	Non-v writin	 B. Innere Form der sumerischen Schrift 44 C. Die Keilschrift bei den Akkadern 48 D. Die Keilschrift bei anderen Völkern des Alten Orients 51 a) Die elamische Keilschrift 52 b) Die Keilschrift bei den Churritern 52 	
	Friedrich 1966	Vorstufen	Objec	c) Die Keilschrift im hethitischen Kleinasien 53 d) Die Keilschrift in Urartu 55	
Jensen 1969 Object-writing and Graphic first stages; then Idea-writing and Pictography				(9	

	> Wha	it shall we	e cal	l non-writing?	
	Gelb1952/63	Forerunners of writing	Primi repre Ident	Contents	
	Diringer 1948–68	Embryo- writing	Iconc Mner of co	PREFACES	page 7 15 24 31
	Février 1948/59	Mnémotech- nique et synthétique	Knot Styliz narra	 II Idea-writing (Pictography) III The Universal Course of Development in Writing IV The Egyptian Group of Scripts A The Egyptian script 	40 50 54
1/9	Cohen 1958	protoécriture	Non- writir	 B The Meroïtic and Nubian script V The Cuneiform Scripts A The Sumerian–Babylonian–Assyrian cuneiform script I The Mesopotamian cuneiform script 	78 82 82
	• Friedrich 1966 Vorstufen Jensen 1969		 Object-writing and Pictorial ideography Object-writing and Graphic first stages; then Idea-writing and Pictography 		

	What was writing?
Février 1948/59	« L'écriture est un procédé dont on se sert actuellement pour immobiliser, pour fixer le langage articulé fugitive par son essence même. »
Gelb 1952/63	"A system of intercommunication by means of conventional visible marks."
$\int_{0}^{1} O$ Cohen 1958	« une représentation visuelle et durable du langage, qui le rend transportable et conservable »
Diringer 1958	(i) Iconography, (ii) Synthetic or Ideographic, (iii) Transitional or "still better, analytic", (iv) Phonetic ("Syllabic or Alphabetic"), and (v) Alphabetic
Diringer 1962	"the graphic counterpart of speech, the 'fixing' of spoken language in a permanent or semi-permanent form By means of it, language is made capable of transcending the ordinary conditions of time and space."
Friedrich 1966	"Der Schrift läßt sich als ein Mittel der Mitteilungen bezeichnen, mit der die Menschen durch ohne weiteres verständliche oder vereinbarte Zeichen räumliche und zeitliche Entfernungen überbrücken wollen."
Jensen 1969	"The essential characteristics of writing in the true sense [are] twofold, namely: 1. its production by the act of drawing, painting or scratching on a durable writing-material, and 2. the purpose of communicating (to others or, as an aid to the memory, to the writer himself)."

All these primitive devices can be mentioned only in a book such as this chiefly devoted to the history of the alphabet, but the author hopes, as already mentioned, to deal with them more extensively in a further work which will treat of writing as a whole with an examination also of its origins.

The main classes of true writing are the following:

nat was writing

Pictography or Picture-writing

This is the most primitive stage of true writing. A picture or sketch represents the thing shown; thus a circle might represent the sun, a sketch of an animal would represent the animal shown, a sketch of a man would indicate a man. Straight narrative can be thus recorded in a sequence of pictures, drawings or symbols, which yield their meaning to later decipherers with a fair degree of clarity, and can be, by the reader, expressed in speech in every language. It is possible to read, but intrinsic phonetism (the term derives from Greek *phoné*, "voice") is still absent,

Diringer

What was writing?: Diringer

Diringer 1958 (implicit in 1948) Diringer 1962 (i) Iconography, (ii) Synthetic or Ideographic,
(iii) Transitional or "still better, ... analytic",
(iv) Phonetic ("Syllabic or Alphabetic"), and
(v) Alphabetic.

Literally and closely defined, writing is the graphic counterpart of speech, the 'fixing' of spoken language in a permanent or semipermanent form, or, in the words of a French scholar, 'une représentation visuelle et durable du langage, qui le rend transportable et conservable.' By means of it, language is made capable of transcending the ordinary conditions of time and space.

What was writing?: Gelb

Writing. A system of intercommunication by means of conventional visible marks. See also Forerunners of Writing or Semasiography and Phonography.

Forerunners of Writing. Various devices, grouped together under Semasiography, to achieve intercommunication by means of visible marks, expressing meaning but not necessarily linguistic elements. Opposite of Phonography.

Semasiography. Forerunners of Writing, including the Identifying-Mnemonic and Descriptive-Representational devices, to achieve intercommunication by means of visible marks expressing meaning, but not necessarily linguistic elements. Opposite of Phonography.

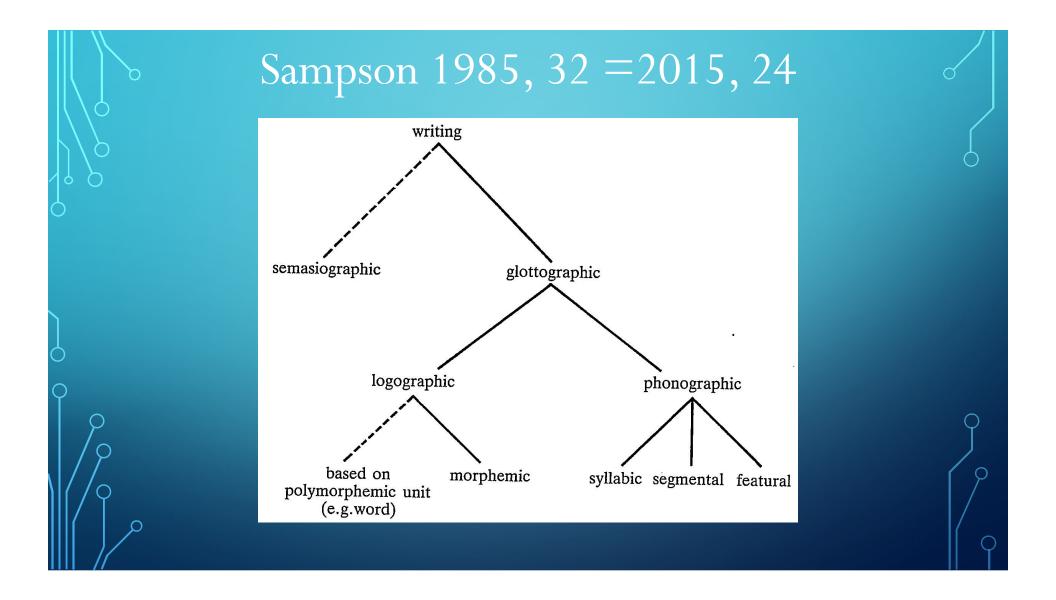
Phonography. A full Writing, that is a system of signs expressing linguistic elements by means of visible marks. Opposite of Semasiography.

Identifying-Mnemonic Device. A semasiographic device to convey communication by means of pictures or visible marks, which help to identify or to record certain persons or objects. For example, the drawing of a panther on a shield may convey some general meaning as 'this shield belongs to the person who killed the panther'.

Descriptive-Representational Device. A semasiographic device to convey communication by means of pictures drawn and grouped in accordance with conventions of figurative art.

	What was writing?
Février 1948/59	« L'écriture est un procédé dont on se sert actuellement pour immobiliser, pour fixer le langage articulé fugitive par son essence même. »
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Jensen 1969	"The essential characteristics of writing in the true sense [are] twofold, namely: 1. its production by the act of drawing, painting or scratching on a durable writing-material, and 2. the purpose of communicating (to others or, as an aid to the memory, to the writer himself)."

	What is writing?
Sampson 1985/2015	"script, writing-system, or orthography refer to a given set of written marks together with a particular set of conventions for their use [/for using them]." AND To "write" might be defined, at a first approximation, as: to communicate relatively specific ideas by means of permanent, visible marks."
Daniels 1988–	"A system of more or less permanent marks used to represent an utterance in such a way that it can be recovered more or less exactly without the intervention of the utterer."
DeFrancis 1989	"Full writing is a system of graphic symbols that can be used to cnvey any and all thought."
Coulmas 1989	"1 it consists of artificial graphical marks on a durable surface; 2 its purpose is to communicate something; 3 this purpose is achieved by virtue of the marks' conventional relation to language."
Coulmas 1996	"a system of recording language by means of visible or tactile marks which relate in a systematic way to units of speech, for example alphabetic vs logographic writing"
Coulmas 2003	"a system of recording language by means of visible or tactile marks"
Coulmas 2013	"The term writing system refers to an abstract type of graphic system. There are only a few such systems, distinguished by their basic operational units: word writing systems, syllabic writing systems, and phonetic writing systems. A secondary meaning of the term refers to the specific rules according to which the units of the system are interpreted in a given language. In the latter sense there are hence many writing systems, in the former only very few."
Rogers 2005	"the use of graphic marks to represent specific linguistic utterances."
Sproat 2010	"Writing is a symbol system that represents language."
Meletis 2020	"Writing represents language by graphic means."



Marcus 1976, 38–39

A DEFINITION OF WRITING

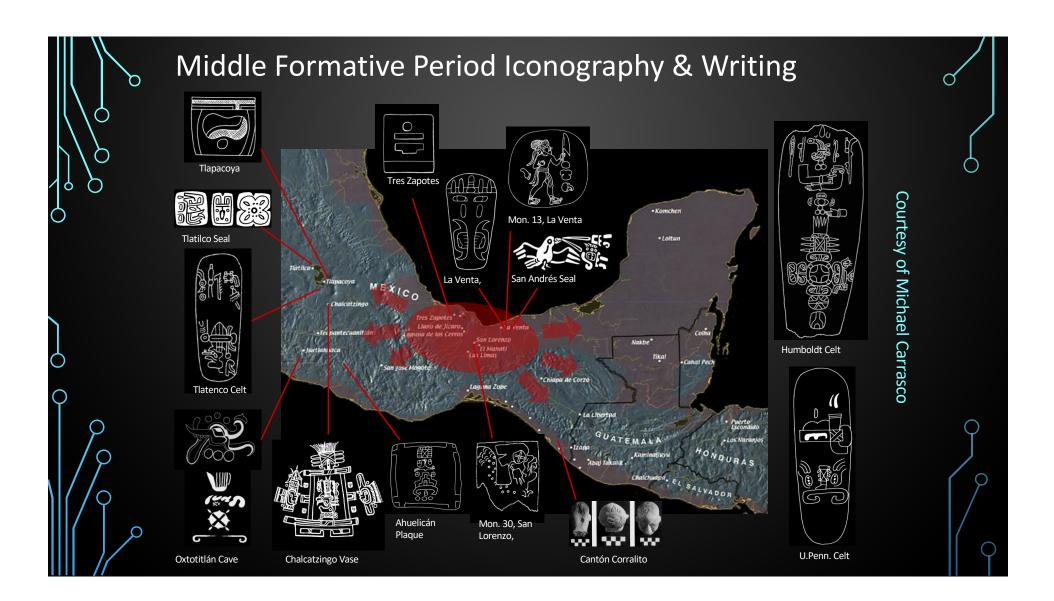
Because I do not feel that petroglyphs, iconographic motifs, and heraldic symbols qualify as writing, I will begin with a definition of early writing in general and proceed to a discussion of early Mesoamerican texts in particular.

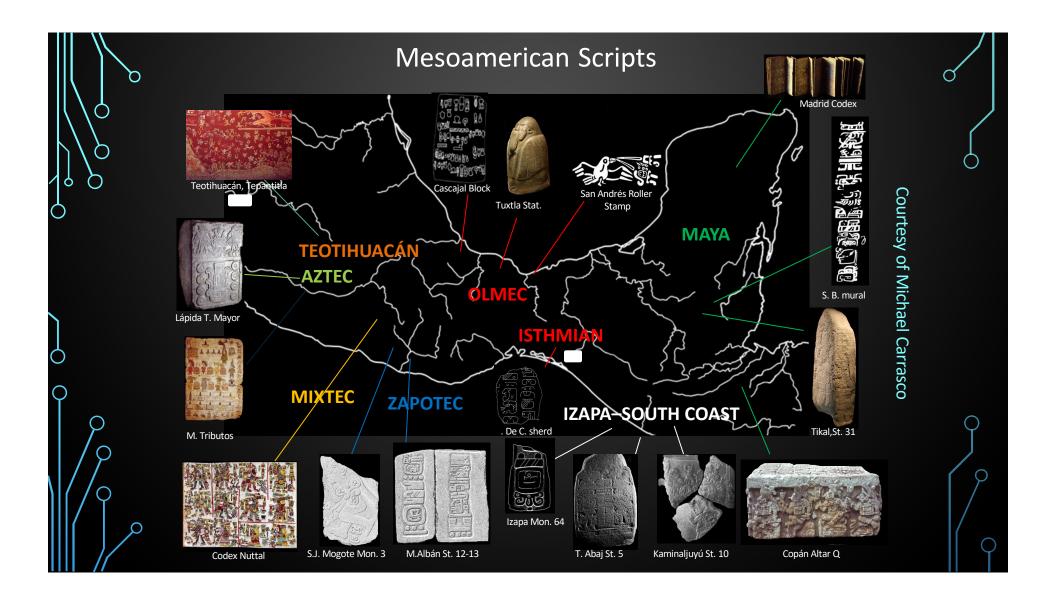
- Writing is recognizable by its format; even when we are unable to read or interpret certain examples of writing, we are able to infer that a certain text is writing by its organization.
- 2. More than 90 percent of all early writing has a linear format, either in rows (as in the case of Mesopotamia and Egypt) or columns (as in the case of China and the Maya region).
- **3.** This linear format implies the order of reading, either:
 - a. left to right, or right to left;
 - **b.** top lo bottom, or bottom to top.
- 4. There is some degree of relationship to the spoken language.
- 5. There is a limited set of conventionalized signs that combine according to p specific rules, i.e. "grammar."

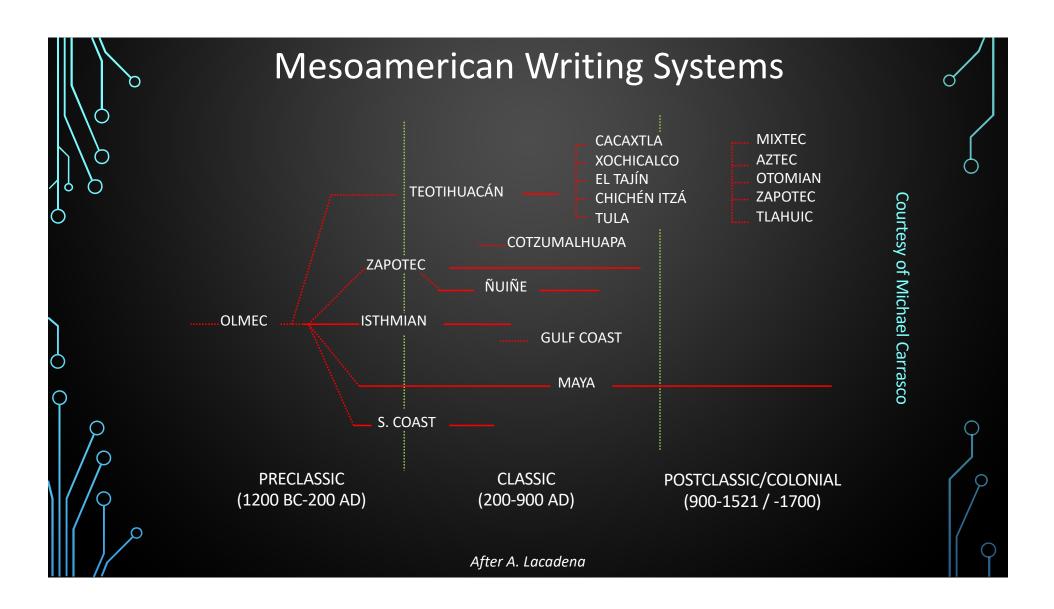
Marcus 2006, 16

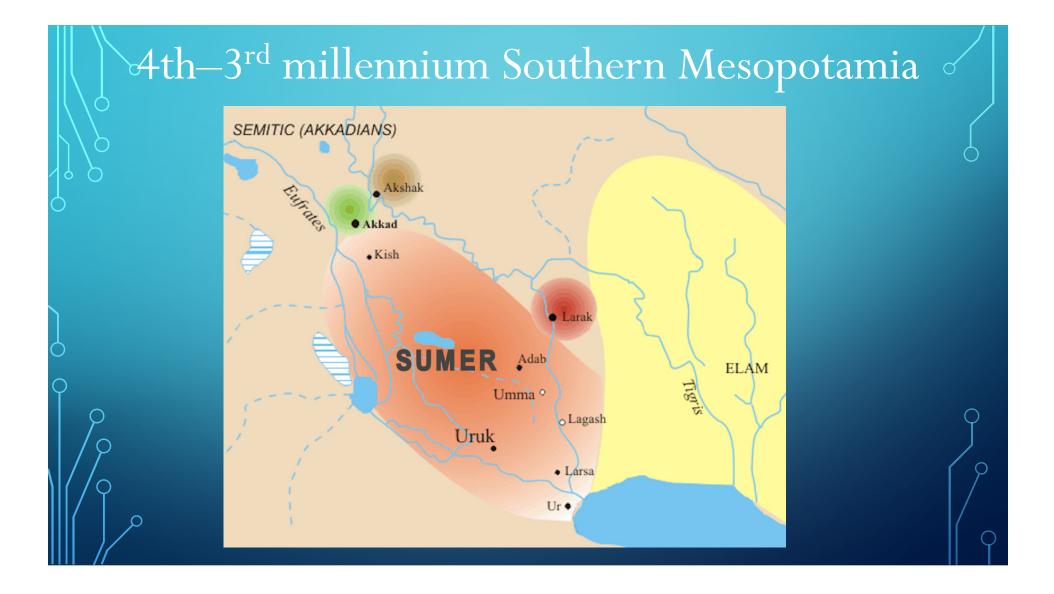
In order to distinguish Mesoamerican writing from its iconographic precursors, we can list four requirements:

- 1. There must be at least three glyphs, arranged in a row or column.
- 2. The arrangement must determine reading order.
- 3. The set of glyphs must show a correspondence to the spoken language.
- 4. As a consequence, the arrangement must follow grammatical rules.







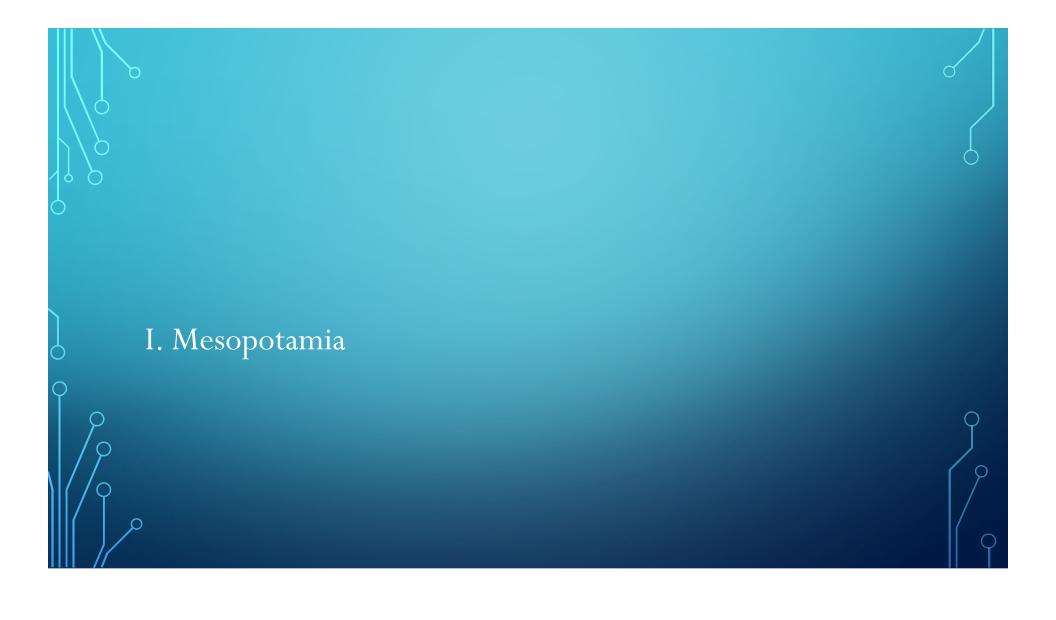




Chronology of Mesoamerican pre-literacy and literacy

		Dates	Language (language family)
	Olmec	(1250)–300 BCE (La Venta)	(Mixe-Zoque??)
	Zapotec	500 все – 900 се	Zapotec (Oto-Manguean)
	Teotihuacan	100 все – 550 се	several? esp. Nahuatl??
	Epi-Olmec/Isthmian	142 CE, 156 CE (La Mojarra)	(Mixe-Zoque?)
0	Maya	before 292 – after 909 CE	Ch'olan (Mayan)
	Mixtec	1000–1600 CE	Mixtec (Oto-Manguean)
70	Aztec	colonial?	Nahuatl (Uto-Aztecan)

Marcus 1992, 2020; Taube 2000; M. Jensen 1992; Whittaker 1992, 2021





6th–5th millennium stamp seal



Ubaid Period, N Syria or SE Anatolia – Metropolitan Museum

"Tokens" from the ancient Near East







Bulla with the tokens it contained (Louvre display)

Accountancy device

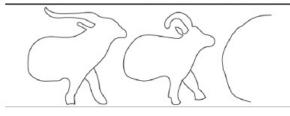


Figure 5: Reconstructed seal impression from a bulla, from Uruk. Animals. After Boehmer 1999: Taf. 81, Nr. 30.



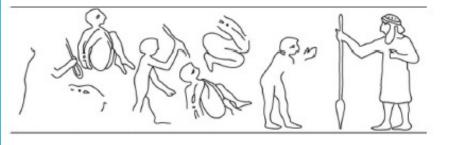
Figure 6: W 6883, a (see Fig. 3b) and other numerical tablets, reconstructed seal impression, from Uruk. After Boehmer 1999: Abb. 51.

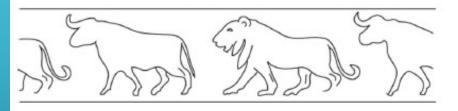


Figure 7: Reconstructed seal impression from Uruk. People, plants, and animals. After Boehmer 1999: Abb. 93.

Impressions of cylinder seals used on bullae (Ross 2014)







Cylinder seals before writing

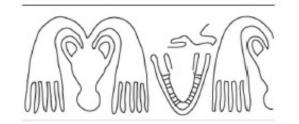
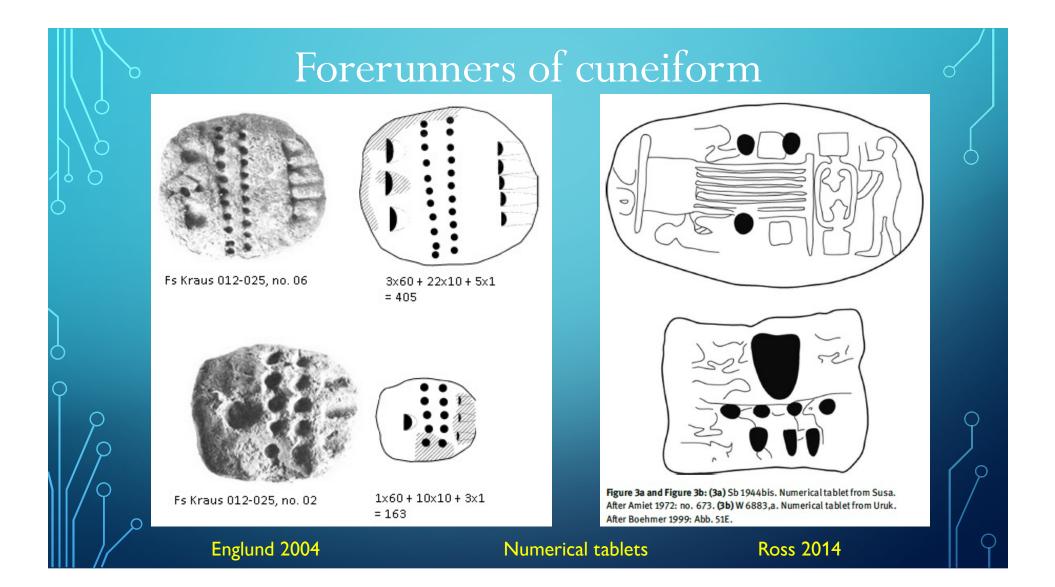


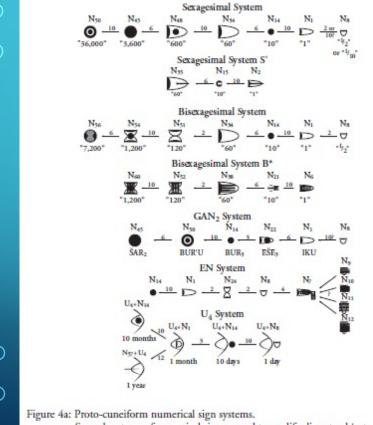
Figure 4a, Figure 4b and Figure 4c: (4a) Reconstructed seal impression from Uruk. Prisoners. After Boehmer 1999: Taf. 17. (4b) Reconstructed seal impression from Uruk. Animals. After Boehmer 1999: Taf. 75. (4c) Reconstructed seal impression from Uruk. Vessels and an animal. After Boehmer 1999: Taf. 77, Nr. 25. Impressions of cylinder seals used on clay door sealings (Ross 2014)



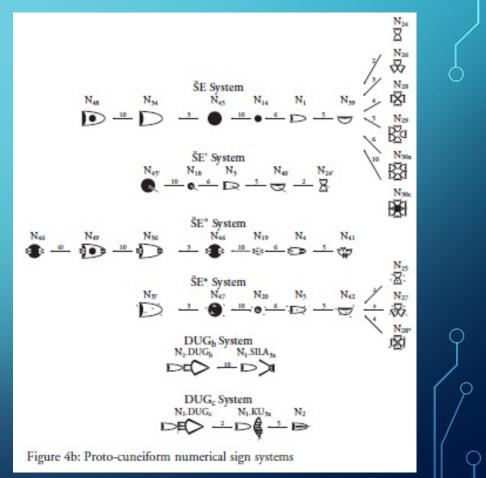
Different numerals for different commodities of

Englund

1998

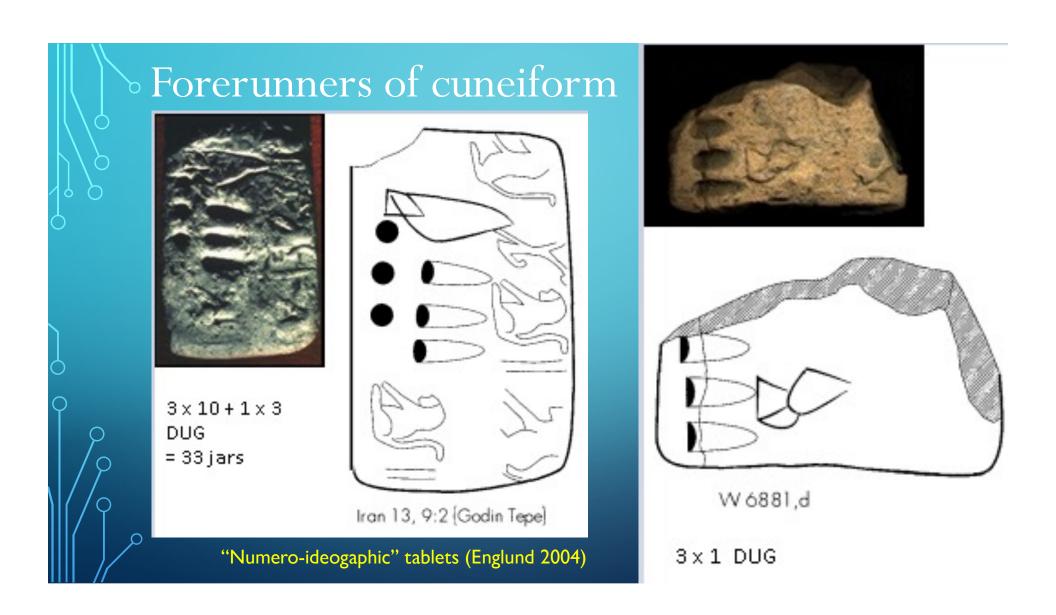


Several systems of numerical signs served to qualify discrete objects (Fig. 4a), while others qualified measures of grains, (semi-)liquids and time (Fig. 4a and 4b).

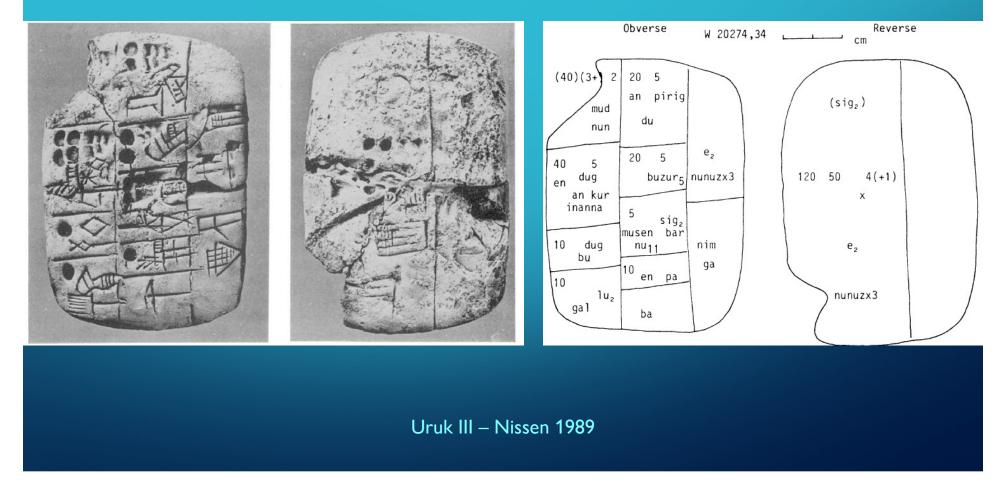








Symbols not neatly arranged

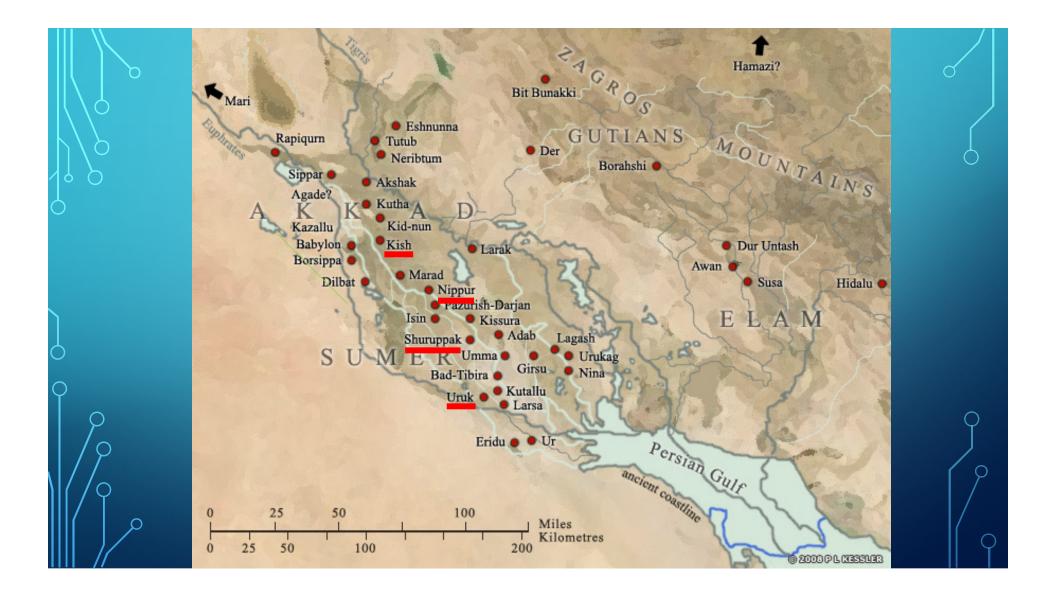


Arno Poebel's ubiquitous chart of cuneiform development

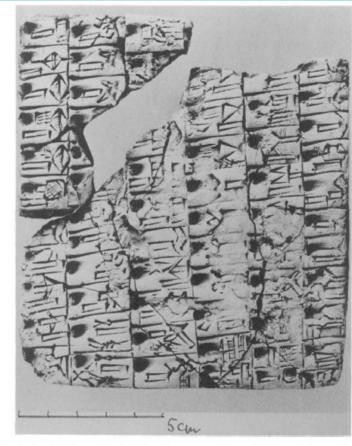
Here, in Gelb 1952's version

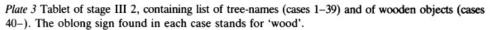
BIRD	D	₹ V	47	μų
FISH	Ş	A	R.	₩∢
DONKEY	X	23	Same -	TI IIII
ox	\bigotimes		÷D	Ť
SUN	Ø	\$	4	Ł
GRAIN		»»>-	All a	*
ORCHARD	×	****		
PLOUGH		4		樹
BOOMERANG	2	>	Ď	ATT.
FOOT	ß	Z	A	K

FIG. 31.—PICTORIAL ORIGIN OF TEN CUNEIFORM SIGNS Oriental Institute Photo No. 27875 (after A. Poebel)



List of trees; list of wooden objects

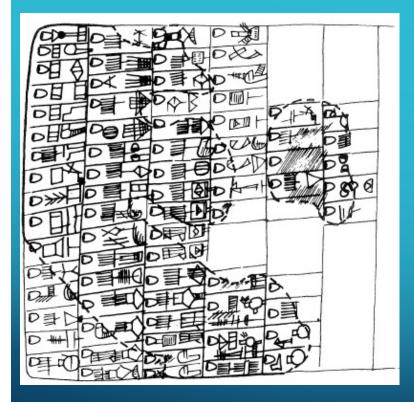




Nissen 1989



"Standard Professions List"



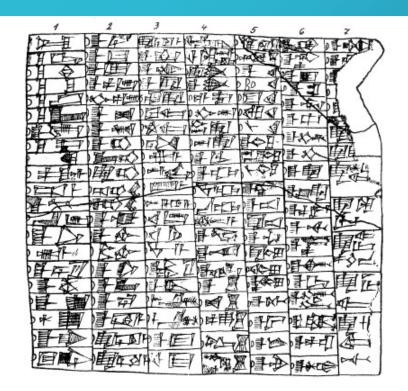


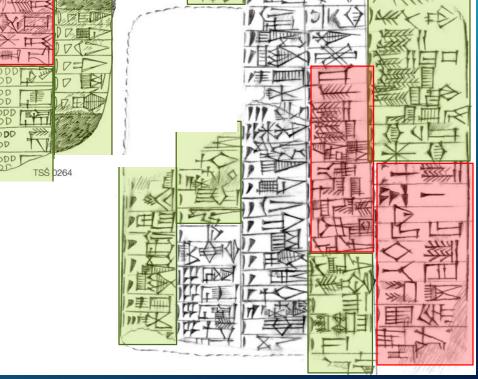
Figure 5 Tablets containing the 'Standard Professions List'; top: composite copy of fragments of stage III 2; bottom: tablet from Fara, dating to c. 2500 B.C.

Nissen 1989

The beginning of prose?



VAT 12547: Tablet in the Vorderasiatisches Museum, Berlin; from Shuruppak (modern Fara, Iraq)



Copy of VAT 12547 by Manfred Krebernik; Inset: another piece of the same tablet, in the Istanbul Museum, copy by Raymond Jestin

Civil 2013

"It is a well-known and generally accepted fact that the Early Dynastic tablets ... frequently omit bound morphemes (morphograms) such as verbal affixes and anaphoric pronouns, and very predictable words in a style that in pre-internet days used to be called "telegraphic," but they nevertheless normally include explicit predicates, no matter how abbreviated. [I] postulate the existence of a simpler, more archaic stage in the evolution of the cuneiform writing system. When the scribes attempted for the first time to write down narrative texts, they simply enunciated the participants of the narrated event, leaving out the representation of predicates and of the anaphoric pronouns that tie together various textual elements and give continuity to a narrative."

Civil 2013 (lines 71–78)

EN×ME.ÉŠ [ME].ÉŠ.EN.ZI DAM.URU×IŠ TAR.AL TAR.ÉŠ.AL Gl₄.GÚ.ŠÀ

E

Enmerkar Enmerkar-zi town-knowing-wife brickwork brick pavement the river bed back to banks irrigation ditches ŠE.SAR.ZU+ZU.SAR.E all the irrigation ditches

Which language?

"It is fairly certain that the principle of logographic writing was invented by the non-Sumerian predecessors of those Mesopotamians who wrote the earliest intelligible records on clay in Sumerian." (Oppenheim 1964)

2.3. Phonetic and semantic indicators; purely phonetic writings

Although the Uruk script is essentially logographic, it also shows unmistakable examples of phonetic indicators. In fact, the number of phonetic indicators that can be culled from Uruk sources is unexpectedly high. Equally significant is the fact that these writings, while more common in the Uruk III writing, are documented already in the sources dating to the Uruk IV period. Among the certain or fairly certain examples of such writings we can list⁶):

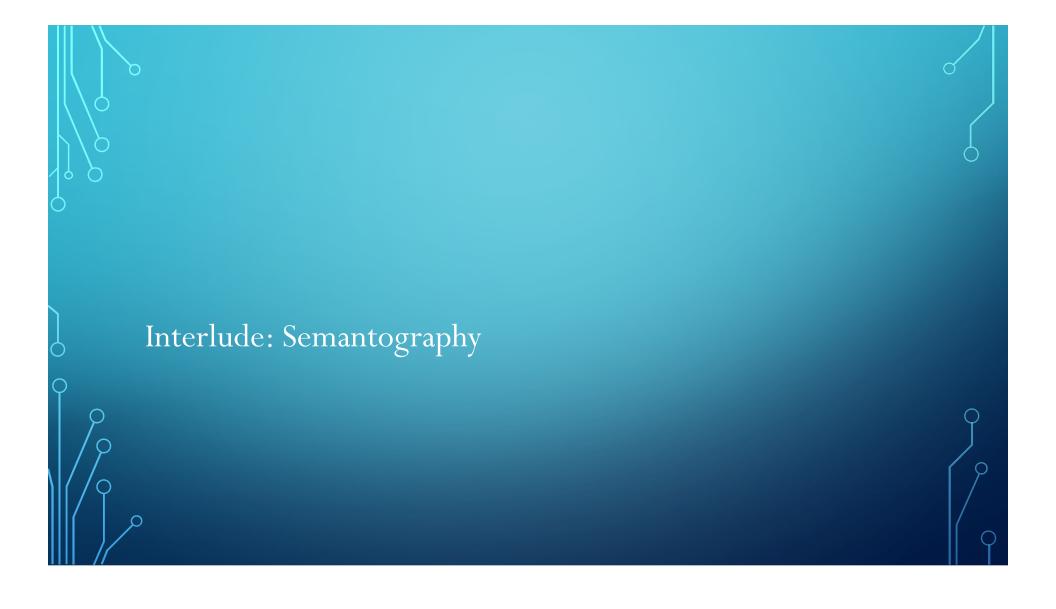
a	in BU+BU+NA ₂ +A = ARINA _x (ZATU-58) <u>IV</u> - III
am_6	in GA_2 +AN = AMA (ZATU-28) IV-III
bar	in $SEG_0+SE+BAR = SEGBAR_x$ (ZATU-72) III
bur	in GA_2 +BUR+ME(?) = GABURA(?) (ZATU-
	185) <u>IV-</u> III
en	in EZEN+EN = $EZEN_x$ (ZATU-151) IV
	in GA_2 +EN = MEN (ZATU-360) IV-III
ga(r)	in GA_2 +GAR = GALGA (ZATU-189) III
gi	in $NE+GI = GIBIL_6$ (ZATU-215) III

ma	in $DARA_3 + MA = MAŠDA_x(?)$ (ZATU-26) III
na	in ŠEŠ+NA = NANNA (ZATU-388) III
na ₂	in BU+BU+NA ₂ (+A) (ZATU-58) IV-III
nu _x (NUN)	in (GIŠ+)DARA ₃ +MA+NUN (ZATU-26) III
rum	in EZEN+AŠ = $DURUM_x$ (ZATU-44) III
	in $UR_2 + A\check{S} = URUM_x$ (ZATU-589) IV-III
(s)ug ₆	in PIRIG+SU = UG ($ZATU-428$) III
še	in $\check{S}EG_9 + \check{S}E(+BAR) = \check{S}EGBAR_x$ (ZATU-72,
	220) <u>IV-III</u>
šeš ₄ /šuš _x	in $MU\check{S}_{3}$ +ERIN = ŠUŠIN (ZATU-499) III
za	in PIRI \tilde{G} +ZA = AZ (ZATU-38) III

Even if one allows that some of these identifications may not be correct, the evidence in hand is sufficient to demonstrate that the principle of phonetic writing was fully established already in the Uruk IV script. Apart from their importance for the history of cuneiform, these writings also provide an iron-clad proof that the language underlying the Uruk script is in fact Sumerian.



				Instr	uctior	ns of SP	nuruppak		
9	dumu	engar		níg	na-		ra		(ca. 2500 BCE)
	son	farmer	•	thing	do.not		beat		[Early Dynastic]
	dumu	engar	-ra -ra	níg	nam-	mu-	ra-ra	-an	(ca. 1800 BCE)
\bigcirc	son	farmer	-of -to	thing	do.not	(prefix)	beat.(repeat)	-you	[Old Babylonian]
						beat a far Cooper 1996	mer's son'		





c. k. Bliss Semantography

(Blissymbolics)

Second enlarged Edition

A simple system of 100 logical pictorial symbols, which can be operated and read like 1 + 2 = 3 in all languages. It can be typed and printed, and used in international communication and commerce, industry and science. It contains also a simple semantics, logic, and ethics, which even children can learn to use in their problems.

SEMANTOGRAPHY (BLISSYMBOLICS) PUBLICATIONS

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A logical Writing for an illogical World

Prophecy and Fulfillment

"A Universal Symbolism, very popular, very agreeable to the people ... might be introduced if small figures were employed in the place of words, which would represent visible things by their lines, and the invisible, by the visible, which accompany them.

This would be of service at first for easy communication with distant nations, but if introduced also among us, without however, renouncing ordinary writing . . . would be useful in giving thoughts less absurd and verbal than we now have.

I think these thoughts will some day be carried out, so agreeable and natural appears to me this writing for rendering our conceptions more real."

Gottfried Wilhelm Leibnitz (1679).

"Bliss realized the ambition of the great mathematician Leibnitz." Prof. Oliver Leslie Reiser (1951).

"Bliss' work provides something of real importance."

Prof. Julian Huxley (1954).

Supporting Bliss' work means "performing an important service to mankind,"

"If schools throughout the world (would) clarify the use of words calculated to promote passion, the existing hatred between nations, creeds, and political parties would very rapidly diminish, and the preservation of peace throughout the world would become an easy matter."

Bertrand Russell (1950).

"Ideographic writing will surely achieve the final victory over phonetic writing."

Prof. Basil Hall Chamberlain (1905).

SHORT OUTLINE OF CONTENTS

7

104 (24)

For the detailed list of chapters see page 67 but watch out for double page numbers due to the following reasons:

This second edition in one handy volume is a photographically reduced reproduction of the 3 large-sized volumes of the first edition. But more reading matter has been added, and therefore more pages. Hence new page numbers were necessary.

But the page numbers of the first edition had to be retained, because of cross-references in the photographed text, and in other publications. Therefore: old page numbers are shown in brackets below the new page numbers.

Sample page no. 183 shows below in brackets and smaller type thus (51) the page number of the first edition.

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Book I The idea of semantography		
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	 	 882

LINE LETTERS AND THE 100 SYMBOL ELEMENTS

We can imagine a simple man, somewhere in the - us: ss, who speaks a kind of English and has learned a bit of reading. The letter comlection HOUSE would mean something to him, but the combinations MANSION, MANOR, COTTAGE, B. GALOW may mean nothing to him and he wouldh't even know how to pronounce it correctly.But so would a Frenchman or a Spaniard fail to pronounce it correctly, least to get the meaning, although they all use the Latin alphabet, composed of 26 letters.

Now let us compose other letters, "line letters" of a better geometrical ideography.

1 1 1 1 1 1 1

And with these "line letters" we could now write letter combinations, such as for instance

The meaning of this geometrical "word" may be guessed. It may mean a HOUSE, BUILDING, MANSION, COTTAGE, BUNGALOW or in French MAISON, or CASA or any other word in other languages conveying generally the same meaning.

And we can use the above 11 "line letters" to write down thousands of other "words". So,if critics point to the "simplicity" of the 26 letters of the Latin alphabet, we may point to the "simplicity" of the 11 letters of our geometrical "alphabet. We know now, that comparison leads nowhere, because both writings have different advantages. Alphabetical writing is used all over the world, and it will be used in ever increasing editions of books and newspapers. Besides the alphabetical letters, we have already a series of ideographic letters such as 1 2 3 4 5 etc. and now we may add - as an auxiliary tool only - a few other symbols and symbol elements for two purposes:

 to write international reports in science, industry, commerce, etc. whenever we need to bridge the language barrier, especially in countries with a multi-lingual population. (2) to recognize words with relative and vague meanings.

This only is the purpose of semantography, and with this in mind we shall now study the list of the 100 symbol elements, and how they are used. In the column on the right side we shall put in the number of symbol elements and we shall then add up the total.

THE 100 SYMBOL ELEMENTS

Total

10

The first elements are symbols which are already in use in most parts of the world, Every boy and girl who went through primary school will recognize them.

The mathematical numbers

5 6 9 2 3 8 O 1

These well known symbols form the first 10 elements of semantography. Now we know that we may combine these symbols in different ways to get different meanings.

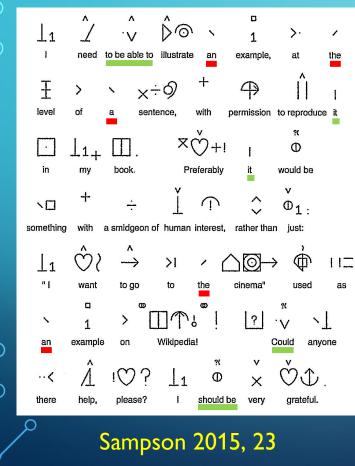
Combination examples: |23 is different from 32| in meaning.

22 is different from 2^2 in meaning

From these combination examples we learn that different position of the symbol elements, and sometimes different size of the same element will indicate <u>different meanings</u>, We shall use our symbol elements in different po-sition and sometimes in different size to indicate different meanings.

And now we shall add up the total of symbol elements we have learned





Articles in semantography

PODIVICIA So we must accustom ourselves to the fact, that a lot of particles are unnecessary, and now, the English reader is" in" for a heavy shock, because we have to face the assertion that the so-called articles a and the are unnecessary. There is even a greater shock for the reader in store: the beloved particles any and some (the nightmare of foreigners) are equally unnecessary. What is the significance of the article a ? It signifies one with lesser stress. is similar to a house. one house What is the significance of the particle the ? It signifies this with lesser stress. this house. is similar to the house There is only a slight shade of stress in both meanings, and we should not be suprised

There is only a slight shade of stress in both meanings, and we should not be suprised that Slav languages have not the particle the. In those languages, the nouns are used without an article: <u>Father works, house is nice, man is cruel</u>. If these languages contain an article it is <u>this</u> : this father works, this house is nice, this man is cruel.

Bliss p. 447

"Blissymbolics" in modern writing-systems books

1 1	^ need	∧ `∨ to be able to	♪) ⊙ illustrate	an an	D 1. example,	≻. at	the
王 level	> of	~	÷ 0) tence,	+ with	Permission	A to reprod	l luce it
	L1+		X	⊕+!	I	я Ф	
in N	my 十	book.	Pr L	eferably	it ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	would be	3
something	with a	a smidgeon o A	of human	interest,	rather tha	in just: } ♪ (ff)	
"I	want	to go co	to	the op	cinema"	vsed vsed	as
an	1 example	> [on	Wikipedia	al .		`∨ Could a	∖ ⊥ Inyone
··· <	Â help,	I (∭? please?	⊥ <u>1</u>	^{२९} ⊕ should t	v X be very	Ŭ1 gratefu	ン. JI.
ρ	S	Samp	son	201	5, 23	}	

Is Bliss semantically based or morphologically based? What linguistic units are represented by the symbols? The answer seems clearly to be that it is semantically resed. For example, English has a morpheme *taxi*. This morpheme in English has a possible internal division into smaller meaningful units. The Bliss symbol $\bigotimes \square$ for 'taxi', however, clearly has internal structure. And indeed, we had many cases it single morphemes written with complex, analysable symbols; e.g., \sim 'cloud', \sum 'parent', and $\bigcirc \bigcirc$ 'song'. The English word 'argument' consists of two morphemes *argu-* and *-ment*, but neither corresponds to any of the parts of the source $\square \square \square \square \square \square \square \square$.

Bliss sometimes makes semantic distinctions which do not exist lexically in Engish: for example, there are six different ways of writing 'I', explicitly set out in the Essymbol Reference Guide (Wood, Storr, and Reich 1992):

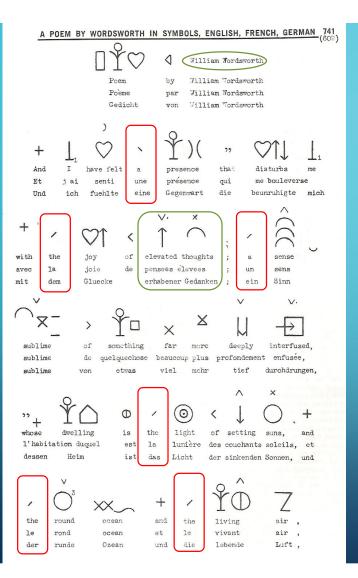
<u>L</u> 1	<u>k</u> 1	λ1	81	R 1	ያ፣
·ľ	ʻľ	ʻľ	ʻI'	ʻľ	۰I'
general)	(female)	(male)	(girl)	(boy)	(child)

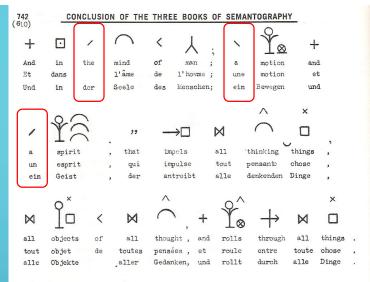
Clearly, the Bliss symbols correspond to units of meaning, not morphemes, and the system is semantically based. In chapter 14, we will examine further how Elss fits into the general classification of writing systems.

We conclude then that Bliss symbols are semantically based, that anything that im be said in any language can be written down in Bliss symbols, and anything that im be written down in Bliss can be read in any language. Finally, the creation mocess for symbols used for Bliss uses no devices not otherwise known in creating maditional writing systems.

Rogers 2005, 267







Here,I shall not give a special explanation of some compound symbols, as I have given following the translation of a Bible text, and the Lord's prayer. Those readers who have followed me through all the 609 foregoing pages know that these symbols can indicate the meanings of the words in Wordsworth poem, and they know too, that some "elusive" meanings are just as vague and elusive when written in the words of ordinary languages, but in the above symbols are indicated by their source, the mind of man, this mysterious tool of the Mind in the Universe.

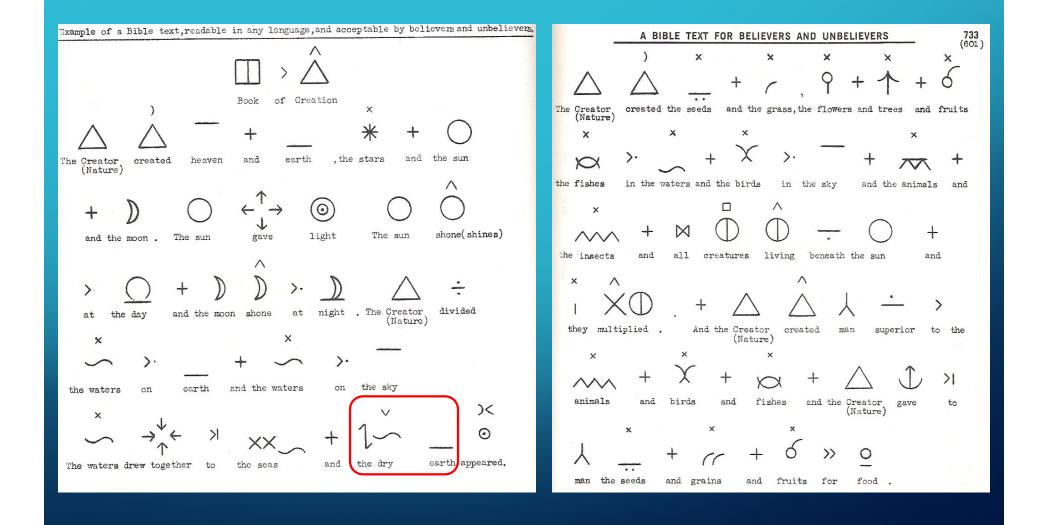
These readers do not need a special explanation, and they might benevolently agree that the symbols above are graceful and meaningful.

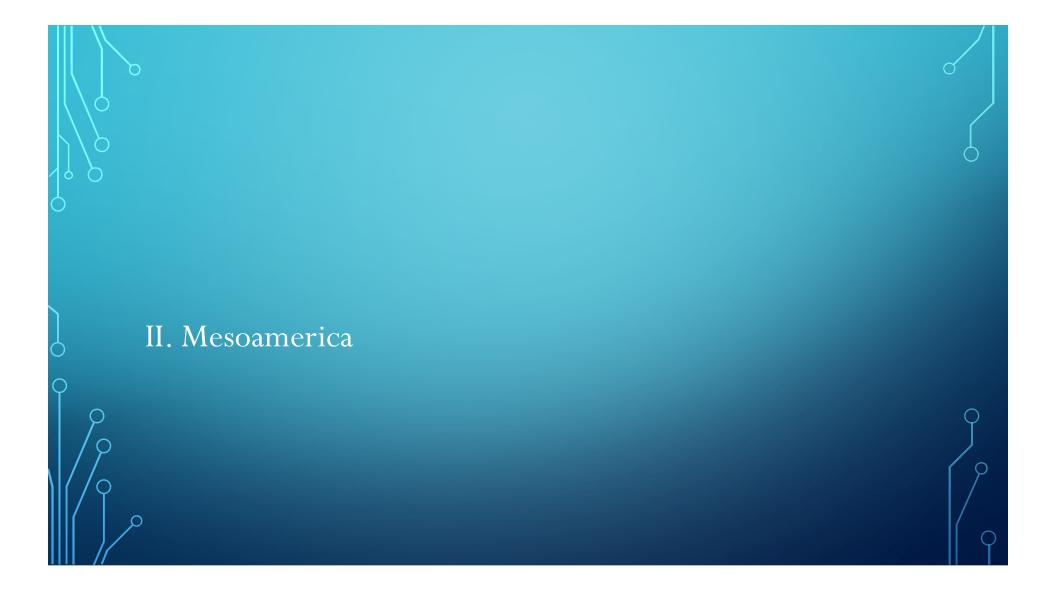
For the other readers, who reject the idea of semantography, another thousand pages of spacial explanations will be wasted. They will not recognize that a symbol writing is alreduce in Moheration for many thousands of years in East Asia; that it has brought about the oldest culture of man in China, where astronomers scanned the sky at a time, when the stone-age hunter roamed the forcests of Europe; that it has united through its supralinguistic writing the most diversified races, peoples and tribes into one, the greatest nation on Earth: that this symbol writing unites today all the different languages spoken in East Asia in most efficient applications for commerce; industry, science, political unification, and also for the study of the writings and poems, written thousands of years ago. Readers, who reject the idea of semantography.might not realize that the few interna-

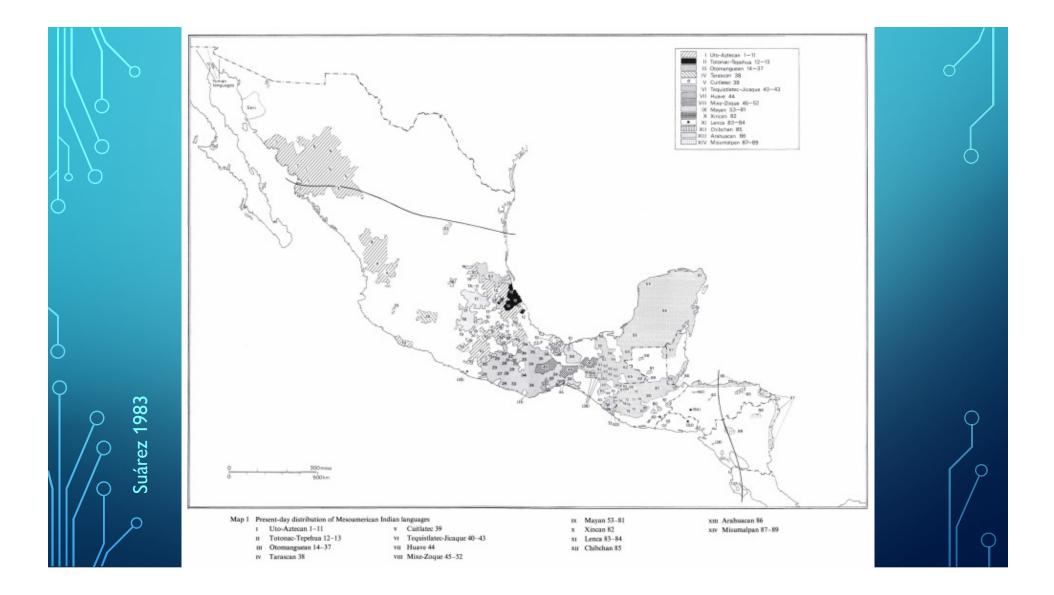
tional symbols, which we use in writing, mathematics, chemistry, science in general, but also on the highways and the sea lanes, came about only by many conscientious efforts of farsighted pioneers, men of the same type as these pioneers, who introduced all the great innovations. Of course, at their time, people laughed about a ship without sails, a carrive without a horse, and they will laugh about a symbol writing, which could unit the peoples of this planet, which could be read in all languages specen on this planet, which could be used for innumerable prectical purposes of international co-operation, and also for reading a poor of a poot who wrote it for all the peoples of the Earth to enjoy it.

 \cap

Prosently people use ships without sails and ride in horseless carriages - and surely a day will come, when the efforts of all those people, who have joined the movement for semantography will be crowned with success. To shill use a symbol writing for all people. One writing for one world. It will come. Why not? Why not, indeed? C. & Buss







Gelb's infamous boo-boo

In whatever light we understand the statement of the Spanish bishop Diego de Landa in his book published in the middle of the sixteenth century, that a Mayan alphabet of twenty-seven signs was used in Yucatan in his time, one thing is clear: nobody has ever succeeded in deciphering the Maya inscriptions on the basis of de Landa's alphabet. (Gelb 1252, 54)

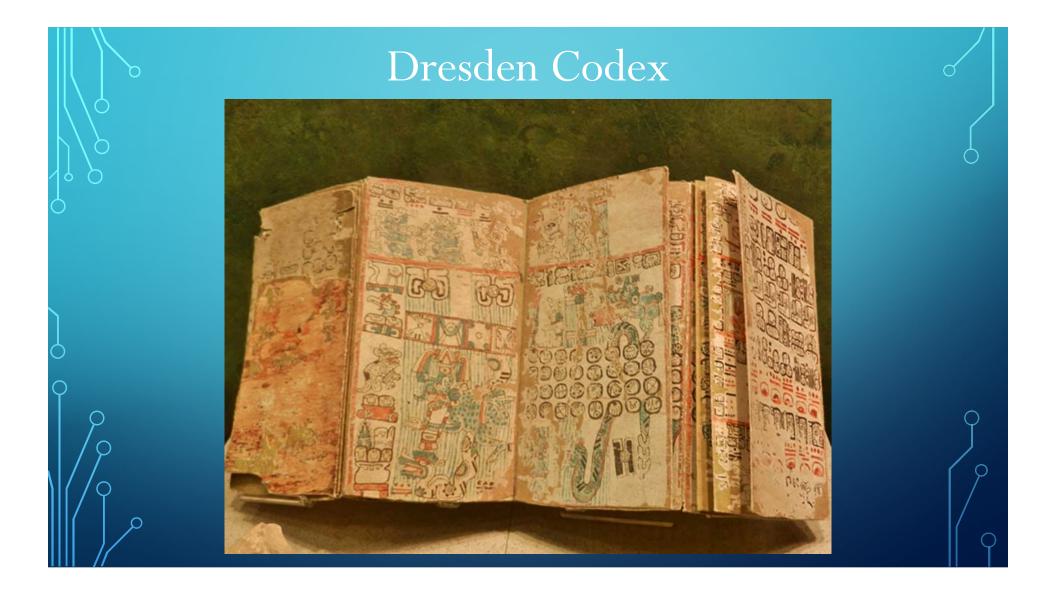
The best proof that the Maya writing is not a phonetic system results from the plain fact that it is still undeciphered. This conclusion is inescapable if we remember the most important principle in the theory of decipherment: A phonetic writing can and ultimately must be deciphered if the underlying language is known. Since the languages of the Mayas are still used to-day, and therefore well known, our inability to understand the Maya system means that it does not represent phonetic writing. (Gelb 1952, 56)

Gelb's infamous boo-boo

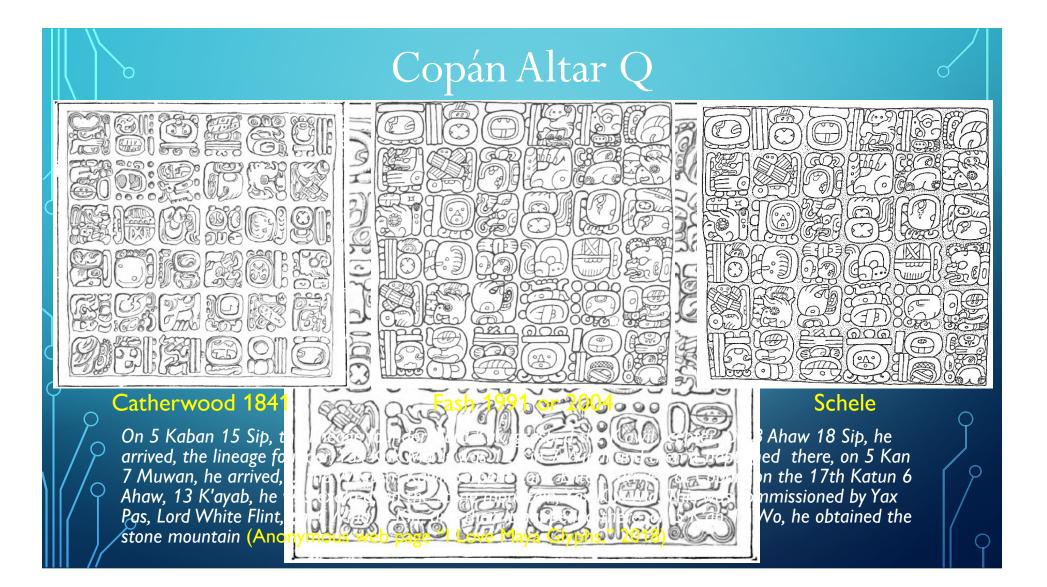
As far as I can judge the situation, this is true of the more serious attempts made in recent years by the American linguist Benjamin L. Whorf and the Russian ethnologist Yuriy V. Knorozov. Whorf's work was criticized by J. Eric S. Thompson, but favorably received by Archibald A. Hill. Knorozov's work was favorably received by Tor Ulving but criticized by T. S. Barthel and by J. Eric S. Thompson. (Geb 1963, 276f. n. 39)

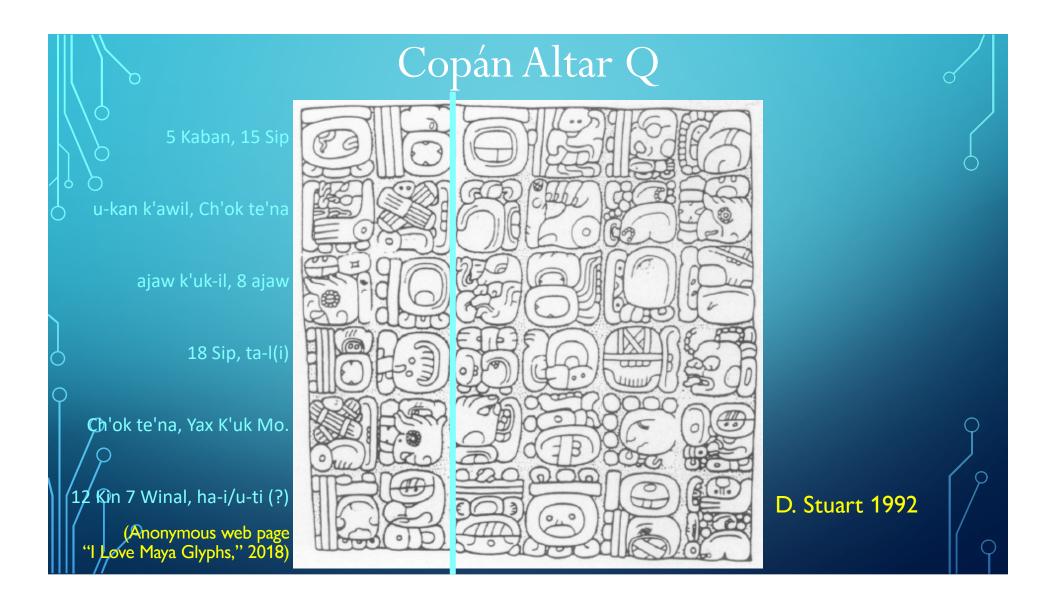
39. As far as I can judge the situation, this is true of the more serious attempts made in recent years by the American linguist Benjamin L. Whorf and the Russian ethnologist Yuriy V. Knorozov. Whorf's work, 'Maya Writing and Its Decipherment,' Maya Research, ii (1935), 367-382, and 'Decipherment of the Linguistic Portion of the Maya Hieroglyphs,' Annual Report of the Smithsonian Institution, 1941, pp. 479-502, was criticized by J. Eric S. Thompson, Maya Hieroglyphic Writing (Washington, D.C., 1950), pp. 311 ff., but favorably received by Archibald A. Hill in International Journal of American Linguistics, xviii (1952), 184 ff. Knorozov's work, 'Drevnyaya pis'mennost' Centralnoy Ameriki,' Sovetskaya Etnografiya, 1952, Part 3, pp. 100-118; 'Pis'mennost' drevnikh Maiya, Opyt rasshifrovki,' op. cit., 1955, Part 1, pp. 94-125; 'The Problem of the Study of the Maya Hieroglyphic Writing,' American Antiquity, xxiii (1958), 284-291; and 'New Data on the Maya Written Language,' Journal de la Société des Américanistes, n.s. xlv (1956), 209-216 (Proceedings of the Thirty-second International Congress of Americanists [Copenhagen, 1958], pp. 467-475), was favorably received by Tor Ulving in 'Russian Decipherment of the Maya Glyphs,' International Journal of American Linguistics, xxii (1956), 184 ff., and 'A New Decipherment of the Maya Glyphs,' Ethnos, xx (1955), 152-158, but criticized by T. S. Barthel in 'Die gegenwärtige Situation in der Erforschung der Maya-Schrift,' Journal de la Société des Américanistes, n.s. xlv (1956), 219-227, and by J. Eric S. Thompson in Yan, ii (1953), 174-178, and 'Systems of Hieroglyphic Writing in Middle American and Methods of Deciphering Them,' American Antiquity, xxiv (1959), 349-364. The preliminary reports by Evreynov, Kosarev, and Ustinov on the 'Siberian' decipherment of the Maya writing with the help of computer machines are not available to me. For a criticism of their work see Knorozov, 'Mashinnaya deshifrovka pis'ma Maiya,' Voprosy yazykoznaniya, xi/1 (1962), 91-99.







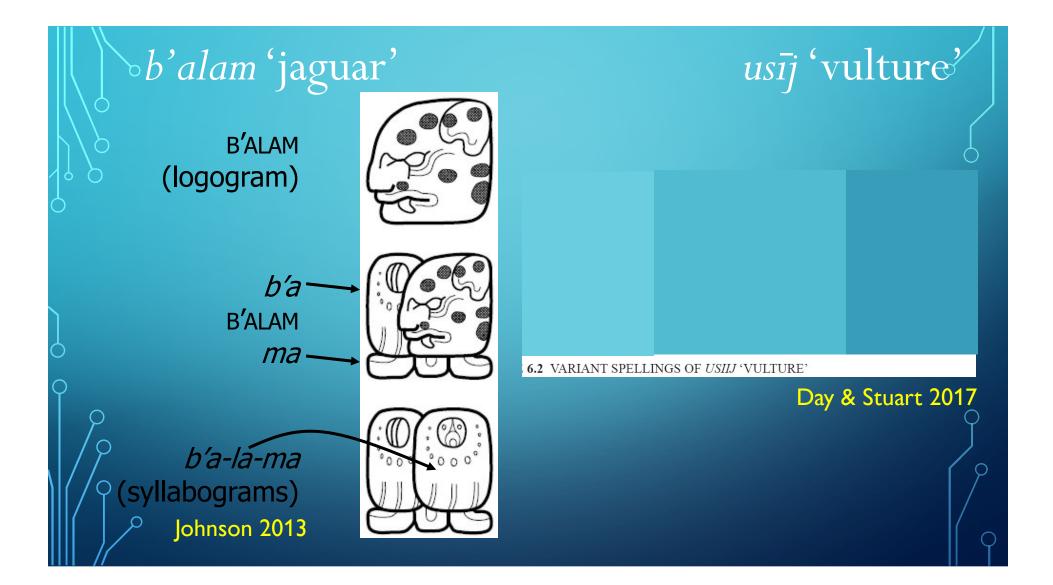




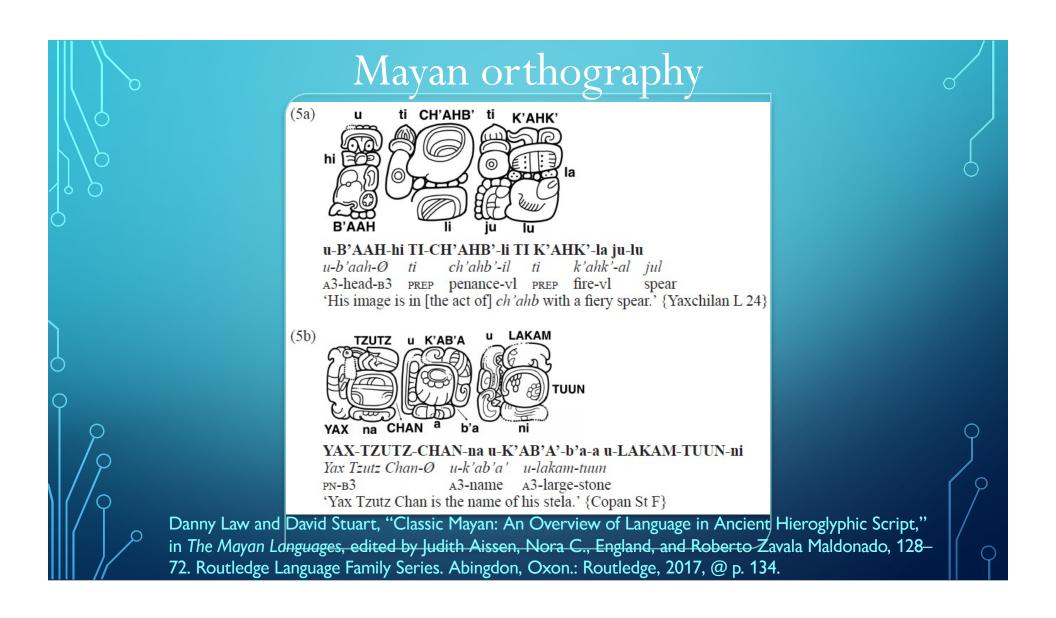
6	Maya calendar glyphs									
1	Tzolkin Day Names and Glyphs									
•	Ahau	Imix	Ik	Akbal	Kan	Chicchan	Cimi	Manik	Lamat	Muluc
-	Ĩ.	Ì	Q	(B)	O	ā	R	0]		đ
	Oc	Chuen	Eb	Ben	Ix	Men	Cib	Caban	Etz'nab	Cauac
-) B	<u> </u>			8	Q	Q	Ø	8
				Haab I	Month N	Vames and	Glyphs			
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-			600	(S)	Q	(A)	0	Θ	g	õ
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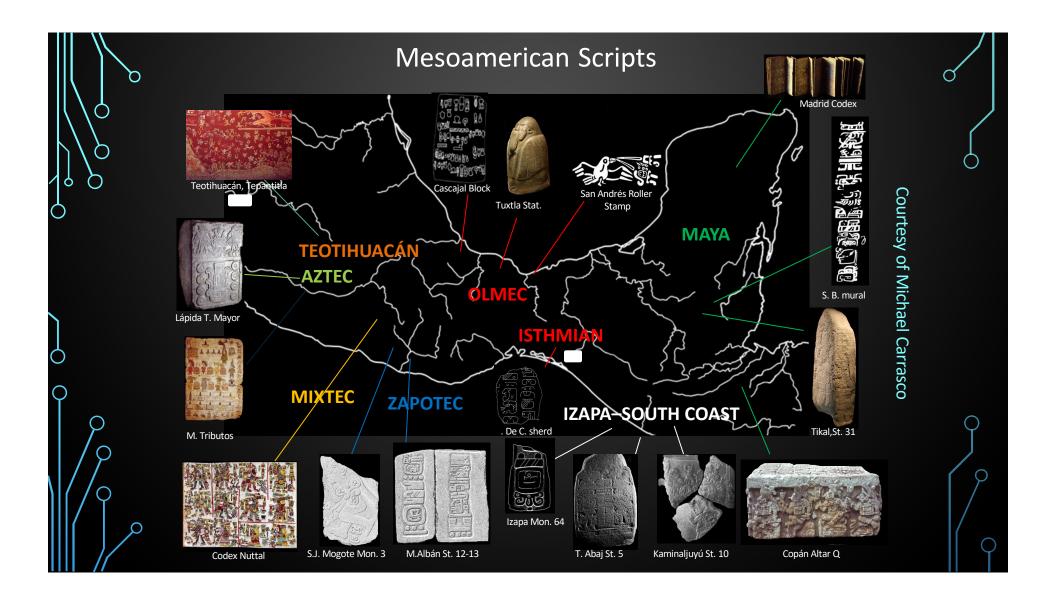
Full-form sinogram	НК	Kugyŏl graph	Sound value (MK)
去 (qù, 'depart')	kŏ 거	云	/kə/ 거
隱 (yǐn, 'hidden')	ŭn 은	1	/n/,/ʌn/ ㄴ, 온
丁 (dīng, '4th heavenly ster	n') <i>chŏng '</i> z < /tj-/	Т	/tjə/ 며
刀 (dāo, 'knife')	to 도	73	/to/도
斗 (dǒu, 'ladle')	tu 두	4	/tu/ 두
羅 (luó, 'net')	ra 라	田	/ra/ 라
彌 (mí, 'extend')	mi P]	ケ	/mjə/ 며
音 (yīn, 'sound')	ŭm 음	☆	/m/, /ɨm/ ㅁ, 음
邑 (yì, 'town')	ŭp 읍	邑	/p/, /ip/ ㅂ, 읍
叱(chì, 'scold')	chil 질	七	/s/ 入
∠ (yl, '2nd heavenly stem')	ŭl 을	L	/1/, /il/ 르, 을

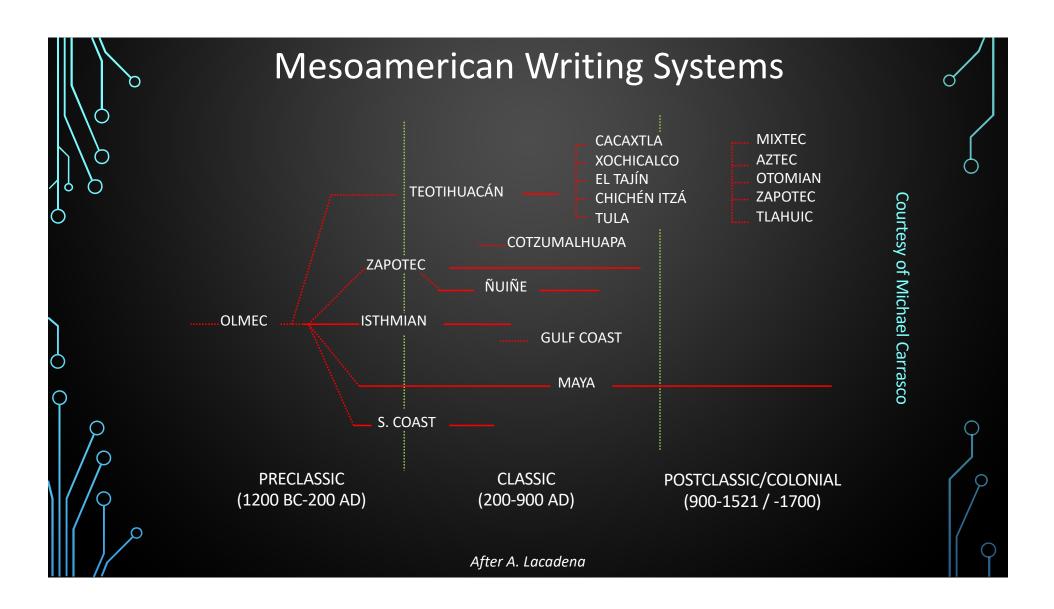


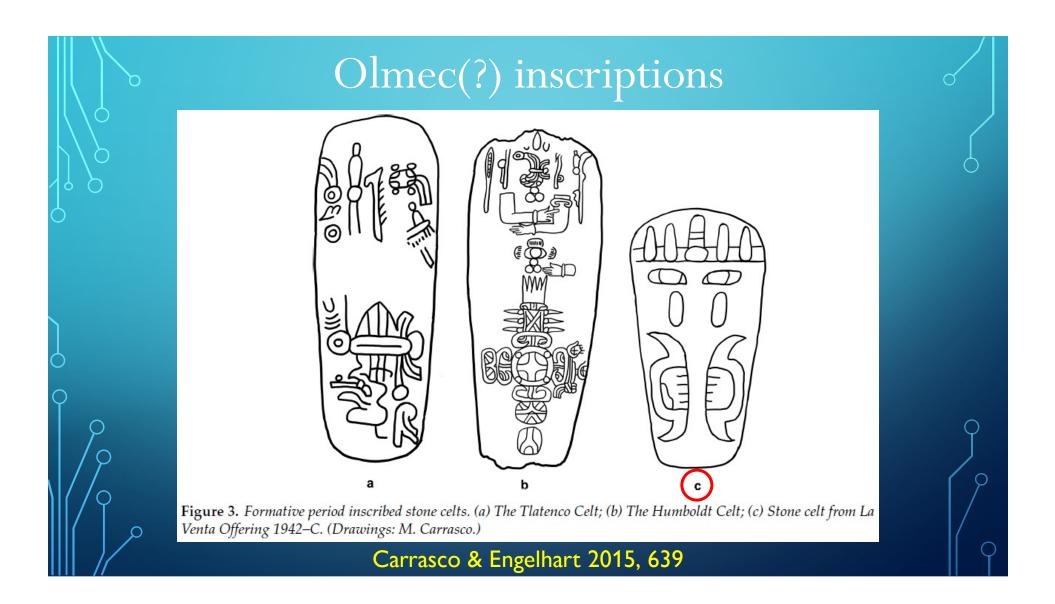
Chronology of Mesoamerican pre-literacy and literacy

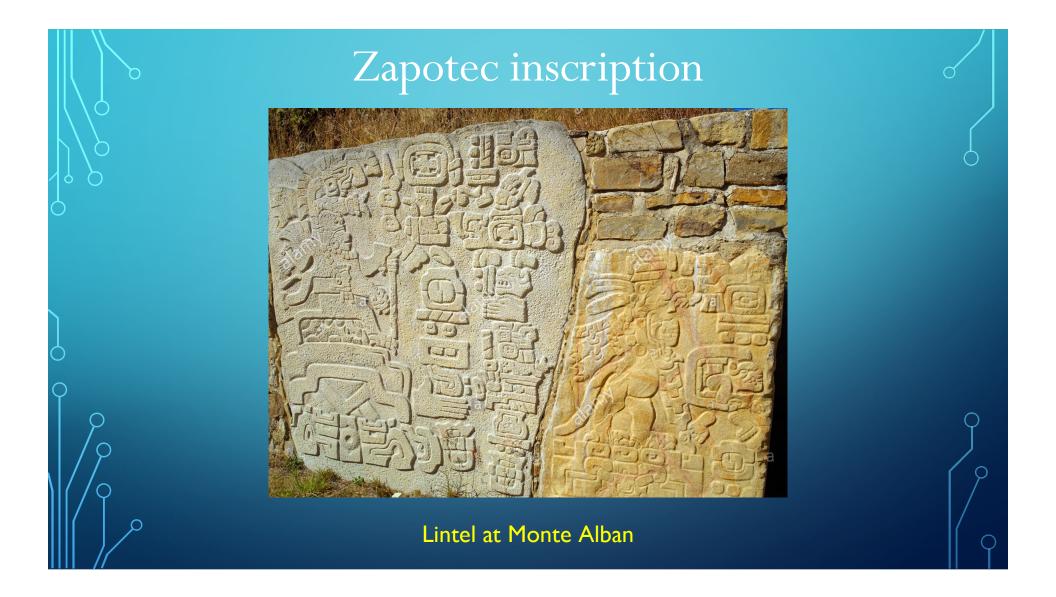
	Dates	Language (language family)
Olmec	(1250)–300 BCE (La Venta)	(Mixe-Zoque??)
Zapotec	500 все – 900 се	Zapotec (Oto-Manguean)
Teotihuacan	100 все – 550 се	several? esp. Nahuatl??
Epi-Olmec/Isthmian	142 CE, 156 CE (La Mojarra)	(Mixe-Zoque?)
Maya	before 292 – after 909 CE	Ch'olan (Mayan)
 Mixtec	1000–1600 CE	Mixtec (Oto-Manguean)
Aztec	colonial?	Nahuatl (Uto-Aztecan)

Marcus 1992, 2020; Taube 2000; M. Jensen 1992; Whittaker 1992, 2021

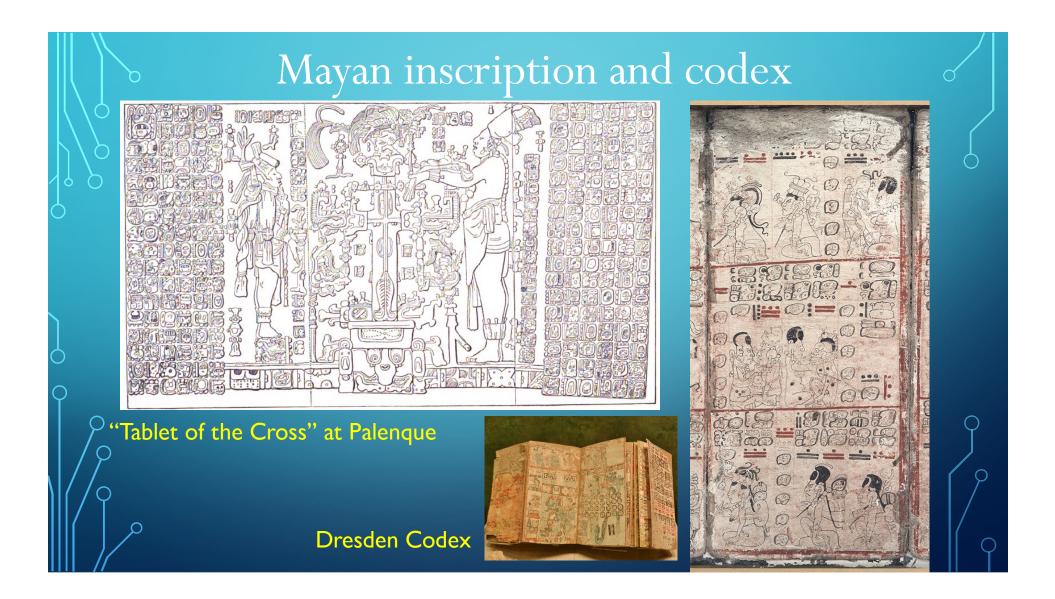




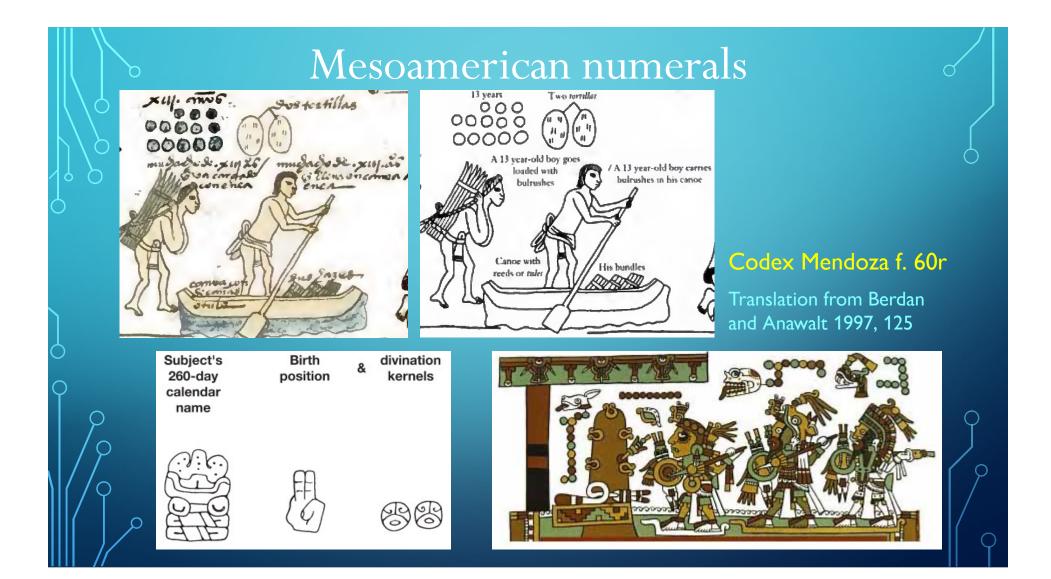




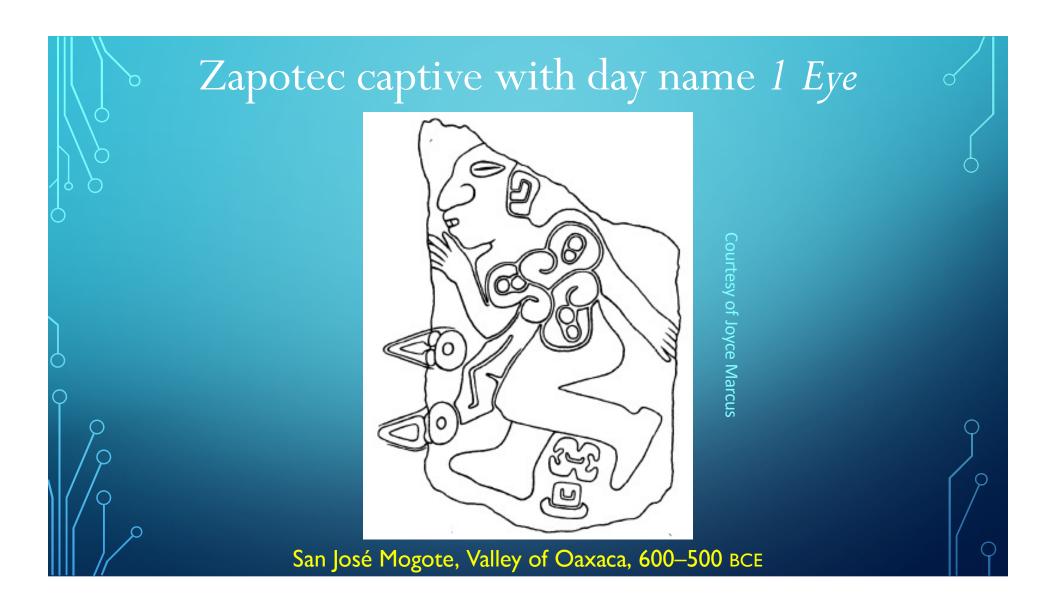




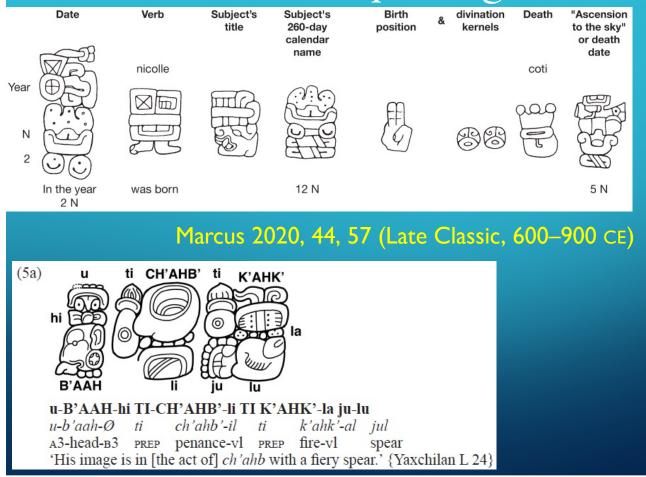


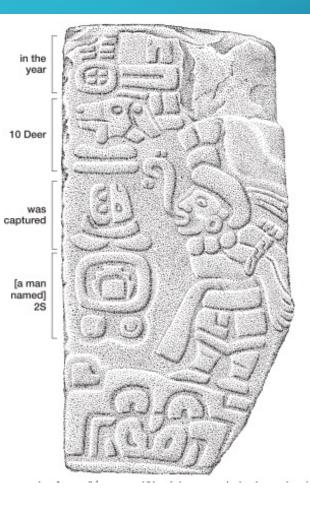






Zapotec grammar







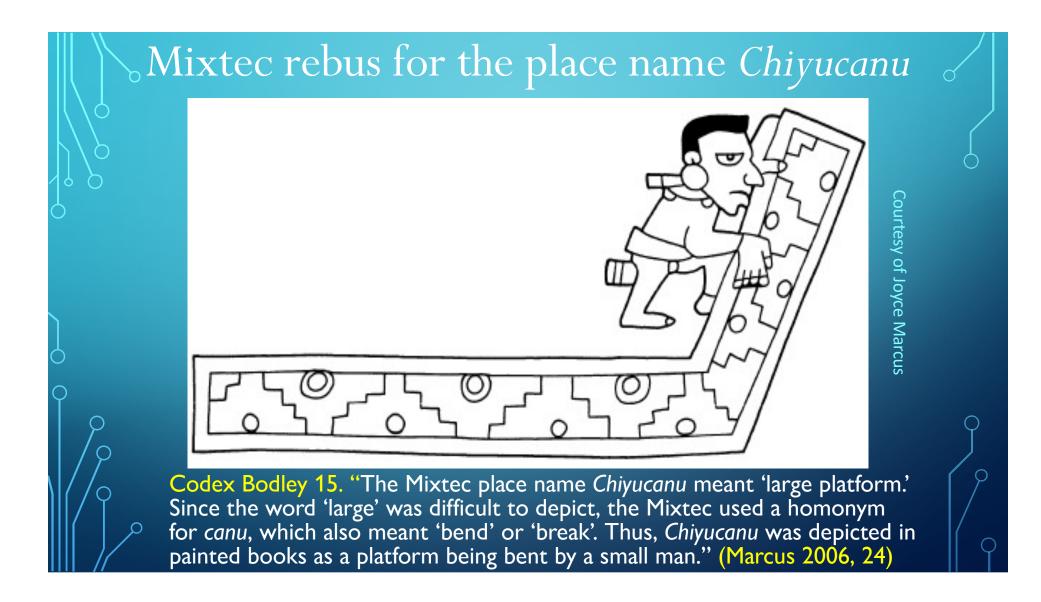
Calendar glyph comparison (days)

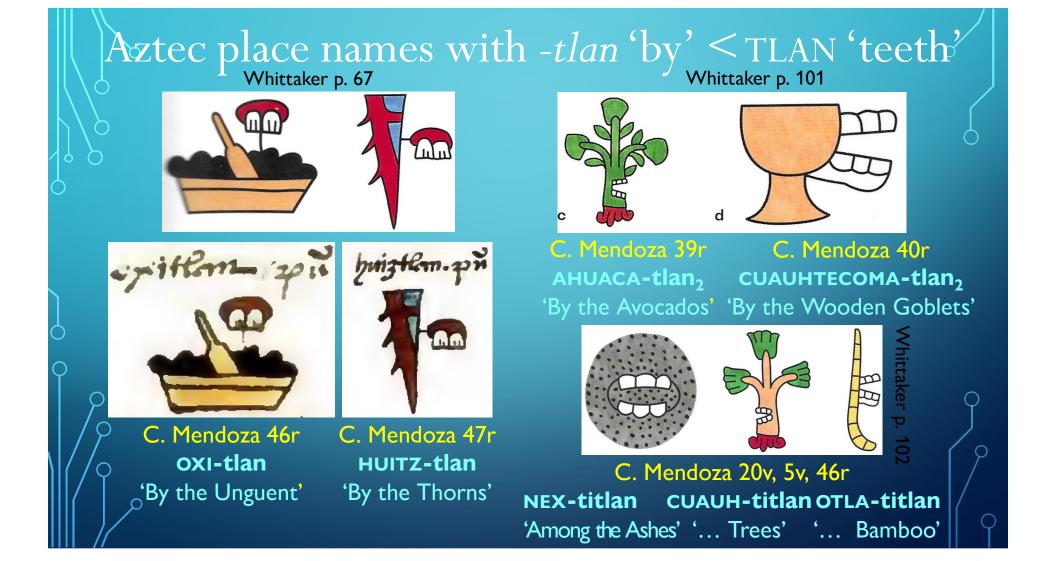
			Tzoll	kin Day 1
Ahau	Imix	Ik	Akbal	Kan
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Oc	Chuen	Eb	Ben	Ix
Ę	() C	9	0	٢

Names and Glyphs					
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Men	Cib	Caban	Etz'nab	Cauac	
	<u>Q</u>	£	Ø		

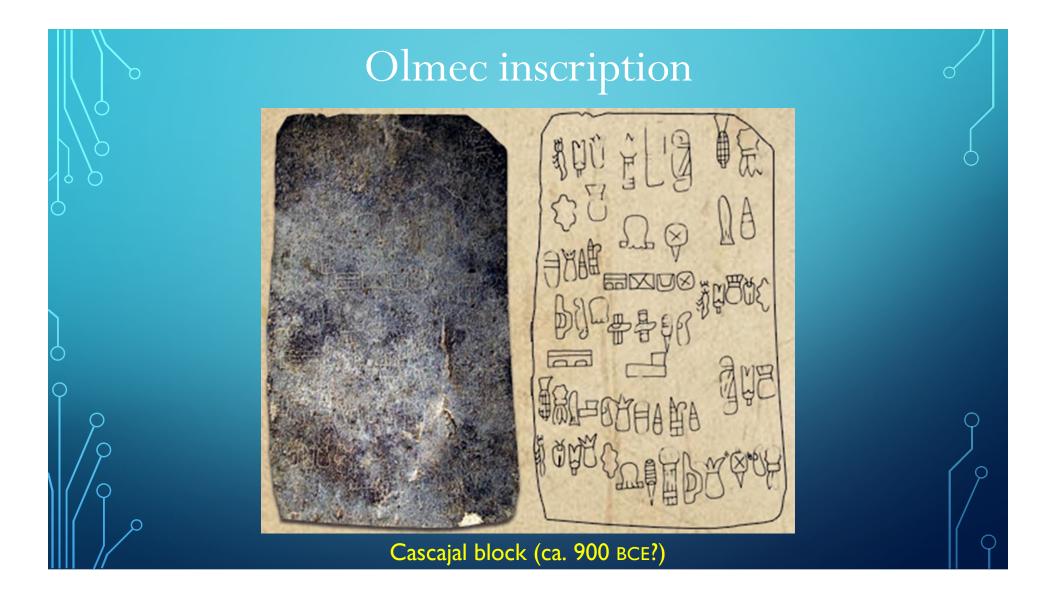
∧ Mayan (random internet page)

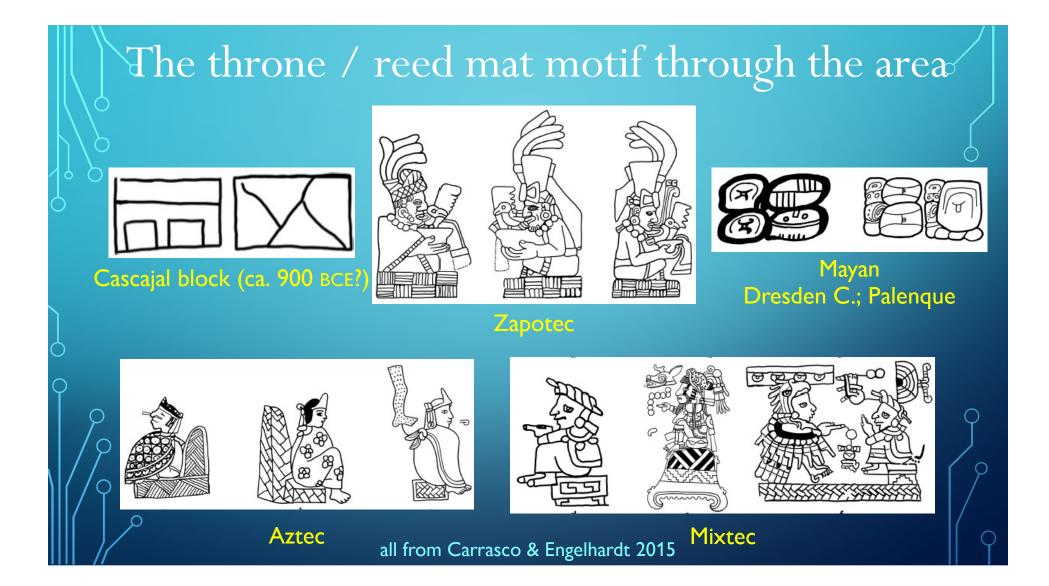
1-10	Zapotec	Mixtec	& Aztec		11-20	Zapotec	Mixtec	& Aztec
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10		RA A			20		et e	
Marcus 2020, 30								

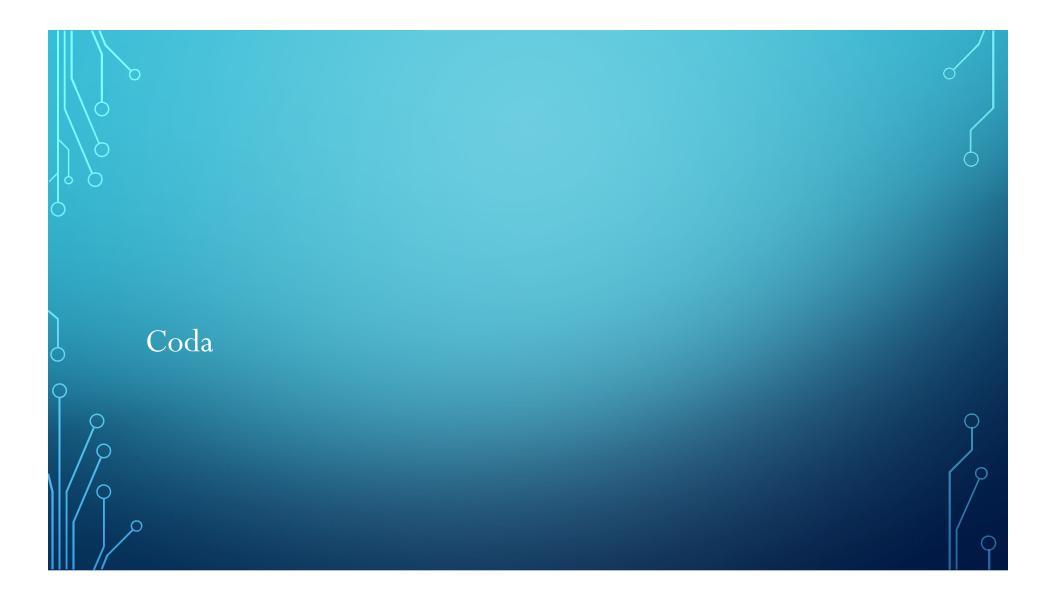






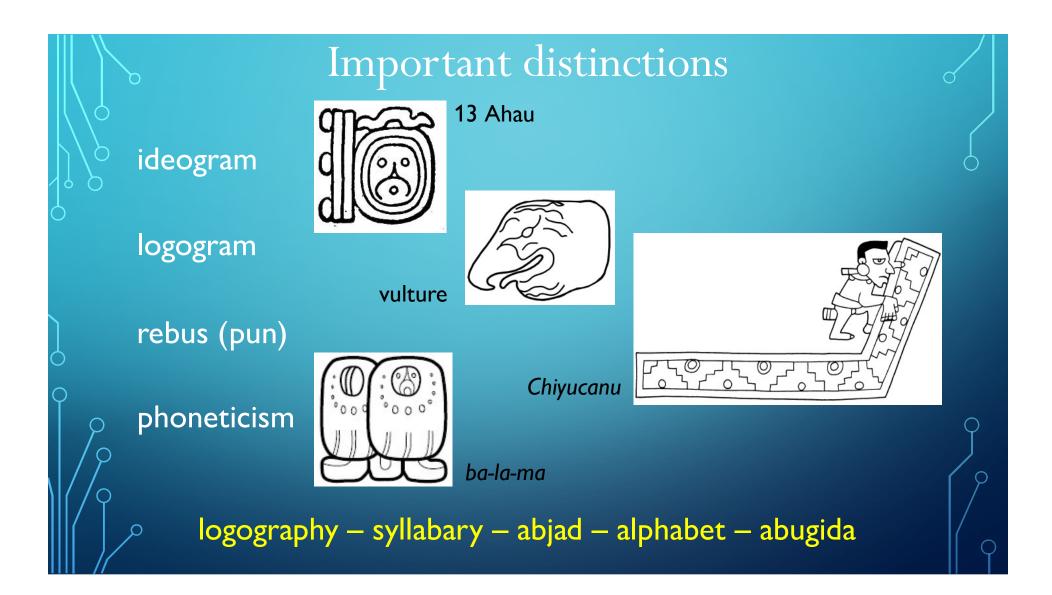






	What was writing?
Février 1948/59	« L'écriture est un procédé dont on se sert actuellement pour immobiliser,
Gelb 1952/63	pour fixer le langage articulé fugitive par son essence même. » "A system of intercommunication by means of conventional visible marks."
Cohen 1958	« une représentation visuelle et durable du langage, qui le rend
Diringer 1958	transportable et conservable » (i) Iconography, (ii) Synthetic or Ideographic, (iii) Transitional or "still better, analytic", (iv) Phonetic ("Syllabic or Alphabetic"), and (v) Alphabetic
Diringer 1962	analytic", (iv) Phonetic ("Syllabic or Alphabetic"), and (v) Alphabetic "the graphic counterpart of speech, the 'fixing' of spoken language in a
	permanent or semi-permanent form By means of it, language is made capable of transcending the ordinary conditions of time and space."
Friedrich 1966	"Der Schrift läßt sich als ein Mittel der Mitteilungen bezeichnen, mit der die
	Menschen durch ohne weiteres verständliche oder vereinbarte Zeichen räumliche und zeitliche Entfernungen überbrücken wollen."
Jensen 1969	"The essential characteristics of writing in the true sense [are] twofold,
9	namely: 1. its production by the act of drawing, painting or scratching on a durable writing-material, and 2. the purpose of communicating (to others or,
/ 9	as an aid to the memory, to the writer himself)."
/ Sampson	"script, writing-system, or orthography refer to a given set of written
1985/2015	marks together with a particular set of conventions for their use [/for using them]." AND To "write" might be defined, at a first approximation, as: to
	communicate relatively specific ideas by means of permanent, visible marks."

	What is writing?
Daniels 1988–	"A system of more or less permanent marks used to represent an utterance in such a way that it can be recovered more or less exactly without the intervention of the utterer."
DeFrancis 1989	"Full writing is a system of graphic symbols that can be used to cnvey any and all thought."
Coulmas 1989	"1 it consists of artificial graphical marks on a durable surface; 2 its purpose is to communicate something; 3 this purpose is achieved by virtue of the marks' conventional relation to language."
Coulmas 1996	"a system of recording language by means of visible or tactile marks which relate in a systematic way to units of speech, for example alphabetic vs logographic writing"
Coulmas 2003	"a system of recording language by means of visible or tactile marks"
Coulmas 2013	"The term writing system refers to an abstract type of graphic system. There are only a few such systems, distinguished by their basic operational units: word writing systems, syllabic writing systems, and phonetic writing systems. A secondary meaning of the term refers to the specific rules according to which the units of the system are interpreted in a given language. In the latter sense there are hence many writing systems, in the former only very few."
Rogers 2005 Sproat 2010	"the use of graphic marks to represent specific linguistic utterances." "Writing is a symbol system that represents language."
Meletis 2020	"Writing represents language by graphic means."



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