

## Indus (Sindhu-Saraswati) Valley Civilization Language and Literature

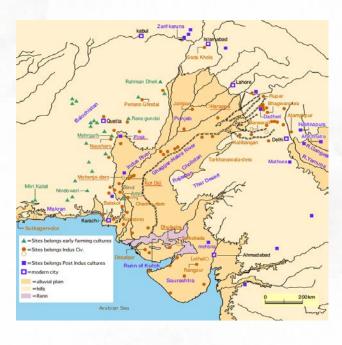
### Speech, Expression and Language

- Speech, Expression and Language are natural to humans
- It is claimed to be hard wired into their brains
- It is said that it is as old as consciousness
- Script is a system or protocol of symbols and signs that is used to communicate
- Human activity reported in Punjab close to 2.5 million years(Outlook India, March 28,2016)
- Indus signs signify a script (Hunter, Possehl, Parpola, Mahadevan, Rao, Yadav, Joglekar etc.)
- Many languages may have been written in this script just as Brahmi and Cuneiform have been used to write many languages.



### Area of Indus Valley Civilization

More than 1 million kilometers





## Sources of Script: Seals and Tablets





## 417 common signs and symbols (Mahadevan: The Indus Script)





### Signs and Symbols





### Sign and Symbols





### Signs and Symbols





### Decipherment

Comparative Method
Internal Analysis or Reconstruction
100 claims of Decipherment



### Comparative Method

 This method compares scripts of similar nature with each other to decipher a particular scripts based on similar phonetic valuations. Known scripts and languages are compared with unknown.



## Internal Analysis and Reconstruction

- This method analyzes the internal patterns of frequency of signs and then uses the possible phonetic valuations in languages found in the region. Computer analysis of Indus script has shown intermediate entropy, characteristic of language.(Rajesh Rao)
- Rebus and Acrology have been used to decipher the script. Rebus is a thing that stands for a sound. Acrology is a thing whose first sound is used as the first letter. For instance fish symbol in Tamil is Meen so it is taken to be M or Ma.



### Decipherment Claims

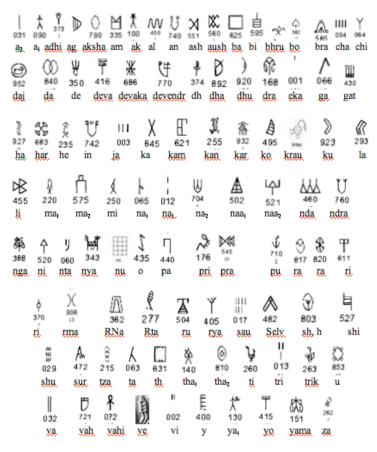
- It is an Indo Aryan Language
- It is Dravidian or proto Dravidian Language
- It is not a language but seals depict signs and symbols
- It is a script for many languages spoken in the area at the time.



### Indo Aryan or Sanskrit (Hunter)

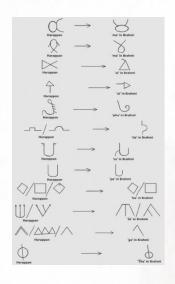
### SOME INDUS SIGNS

(after Sinha, et al.,)





### Brahmi Script and Indus Script





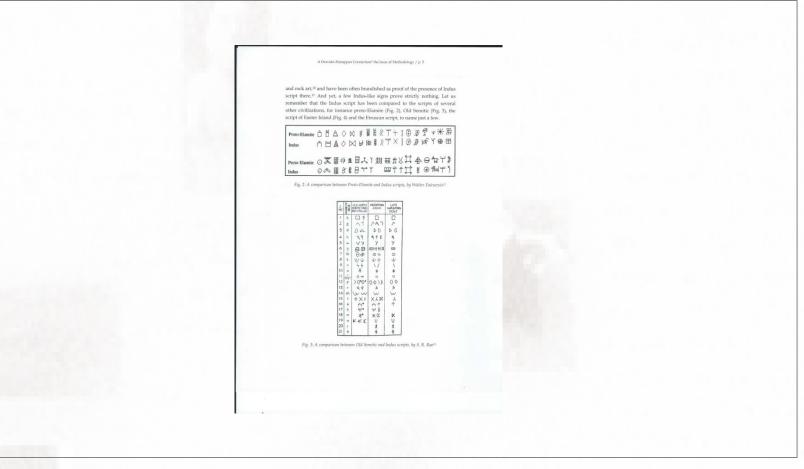
### Sanskrit Decipherment (Jey Kumar Ramasami, Sci News Feb. 21, 2014)



INDUS	DEVNAGRI	ROMAN
$\uparrow$	क	KA
0	ग	GA
$\bowtie$	ıs	DA
U	अ	НА
个	भ	вна
X	स and Literat	SA

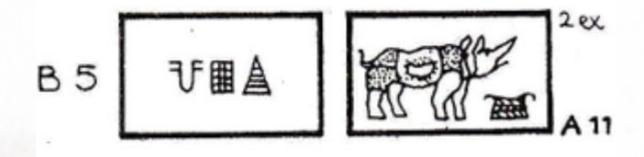


## Elamite and Indus Script (Walter Fairservis)





### Sanskrit Acrology (Jey Kumar Ramasami SCI News, Feb. 21, 2014)





### Sanskrit

	Symbols / Indus logo	A	田	J
First Step	Identification of object	Cone	Chessboard	Head gear decoration of a Kavari
Second Step	Sanskrit name	Musika means cone as well as cone shaped crucible	Sari	Kavari
Third Step	First syllable of the word is taken	Mu	Sa	Ka
Fourth Step	Corrected sound	Mu	Si	Ka



## Dravidian or Proto Dravidian Claims

• This claim is based on analyzing the writing on the seals as Rebus or pictograms. Each sign standing for the first letter of a Tamil word. Knorzov, Porpola and Mahadevan amongst others make this claim.



## Egyptian and Indus Script (Mahadevan)

Egyptian Sign No.	Indus Sign Sign		Broad Interpretation
0.1	261,	5090	house
0.6	267	8106	fortified house
0.49	<b>284</b>	2522	city, town
The evidence sections of compared the as pottery gethat "eighty Chalcolithic the Harapp times." Lal' genetic link graffiti four	the of pottery graffiti the Indus people the signs of the Industraffiti in chalcolith r-nine percent of '	supports the th to South India. Is Script with the ic and megalithic the megalithic sound) conversely e embols continue that there does of the Indus Scriphall mention on	ri from Tamilnadu eory of migration of B.B. Lal (1960) has e symbols occurring c cultures. He found hymbols go back to gighty-five percent of down to megalithic seem to be a deep pt and the Indus-like ly a few of the more
Inscribed N	Neolithic Axe from	Sembiyan-Kan	diyur
pecked on i	it was discovered a	ccidentally at Se	Indus-like symbols mbiyan-Kandiyur in e symbols on the axe



## Dravidian Claims (Mahadevan)

### Gender-Number Paradigm in the Indus Texts

The identification of the three grammatical suffixes discussed above has led to a major breakthrough, the formulation of the gendernumber paradigm in the Indus Texts. The paradigm is the basic framework of the grammar of the Indus language. Discovering the paradigm in the Indus texts is bound to lead to rapid advances by identifying names and titles which form the bulk of the Indus texts, especially on the seals.

SIGN	Pictorial value	Phonetic value in Dravidian	Grammatical category
U	jar	-(a)nru	Masculine (human) singular suffix
4	arrow	-(а)три	Non-masculine singular suffix
11	four stroke modifier	-(a)r	Epicene (human male and/or female) plural suffix

Paradigm of Gender-Number Suffixes in the Indus Texts

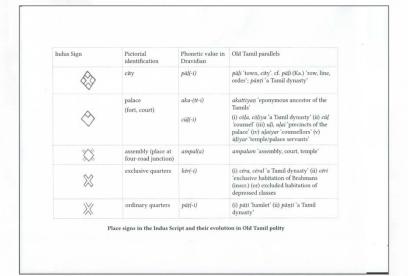
Identification of Lexical Words in the Indus Texts: Some examples

### Place Signs in the Indus Script

The Indus city was meticulously planned with grid-like streets oriented towards the four cardinal directions and a fortified citadel on a high artificial terrace. It seems likely that the major concepts around which the Indus city was organised would also figure prominently in the inscriptions of the period. It is thus probable that important places and institutions like the city, citadel, palace,



### Dravidian Claims





### Dravidian Claims



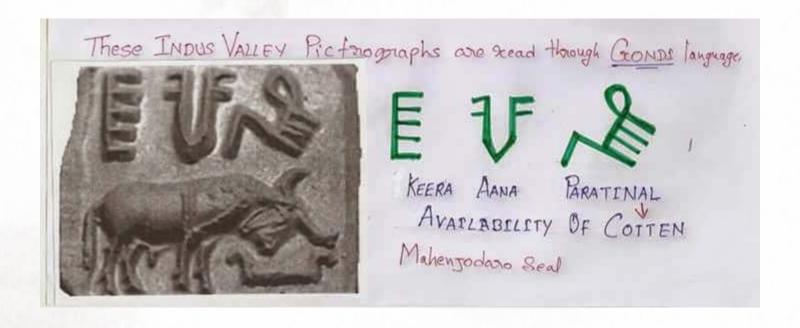


# Semblance with Tamil and Kannada (Current Science Vol.103, No.3, 10 August 2012)





### Indus Seal and Gondi Language





### Dholvira Signboard: Siva Temple?

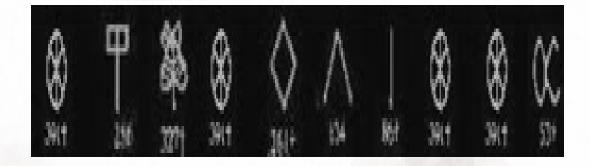
Sign list	Deciphered reading
®T單®◊∧I®®>>	mad-dvaidha-räga-vedhäśvai-sahsra-dhä (right-to-left)
0704€'1€	yogirāyaduḥ śrī-rāmaḥ

Table 6.10: Historical seals of special interest



### Dholvira Signboard Santali

Dhokra Kamar : Metal Workshop ?





### Indus Seals Do Not Depict A Script

 Seals depict signs and symbols used in religious or commercial transactions. It is also claimed that the writing is just numerals. Farmer, Sproat and Witzel, Subrayappa, Shengde are some of the people who make this claim.



### Seals Depict Unknown Symbols

- Symbols on the seals can not be accepted as evidence of writing.
- Indus Civilization was not a literate civilization. Proponents of this view give examples of other civilizations which did not develop writing.
- That Indus Civilization was literate is an assumption not proven by evidence



### One Script Many Languages

• There were probably many languages spoken in the 1 million square kilometers as they are today. Some of the suggested languages are Indo Aryan languages, Dradivian, Mundari, Tibetan, Language X etc. Script may be the same but the languages were different just as Cuneiform was used for many languages in Mesopatamia and Brahmi was used for many languages in India



### Literature of Indus

Narrative or Story Music and Dance Rituals

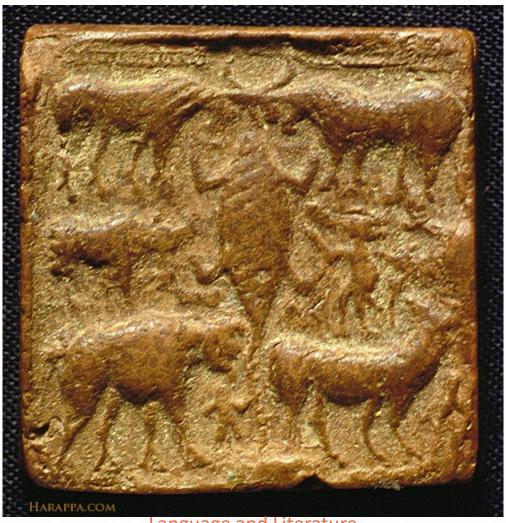
Manuals of City Plannning, Water Mangamement, Weights etc.
Bills of Sales

## Literature of Indus :Narrative Seals





### Narrative Seals





Language and Literature

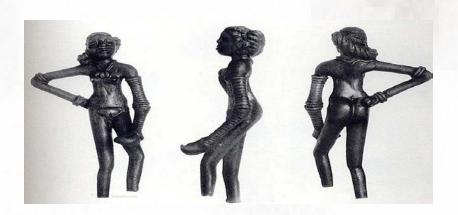
### Narrative Seal and Tablet





# Music, dance and singing

Mortimer Wheeler reported finding musical instruments such as drums and seven holed flute in his excavations at Mohen Jo Daro

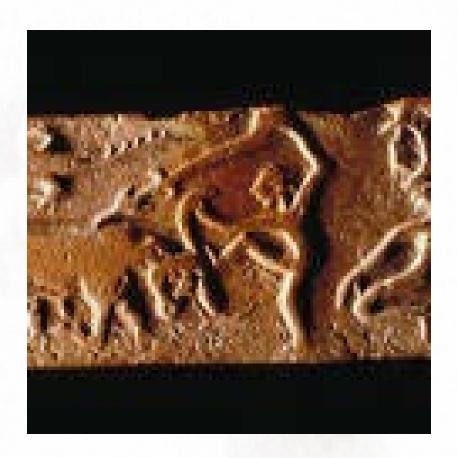




### Rituals



### Rituals





### Manuals and bills

We can deduce from developed city planning, trade, water management and standardization of weights and measurements that such literature must have come into being.

Bills of Sales for transactions must have also arisen

### Further Directions for Research

- What was the Relationship between Indus and Vedic Literature?
- Rig Veda has substratum of Para Munda and other languages, What is their relationship?
- Was Indus Valley Civilization Vedic? as claimed by several scholars?
- What is the relationship between Indus languages, tribal languages and other languages spoken today in the Indian Sub Continent?

