### What follows from writing?

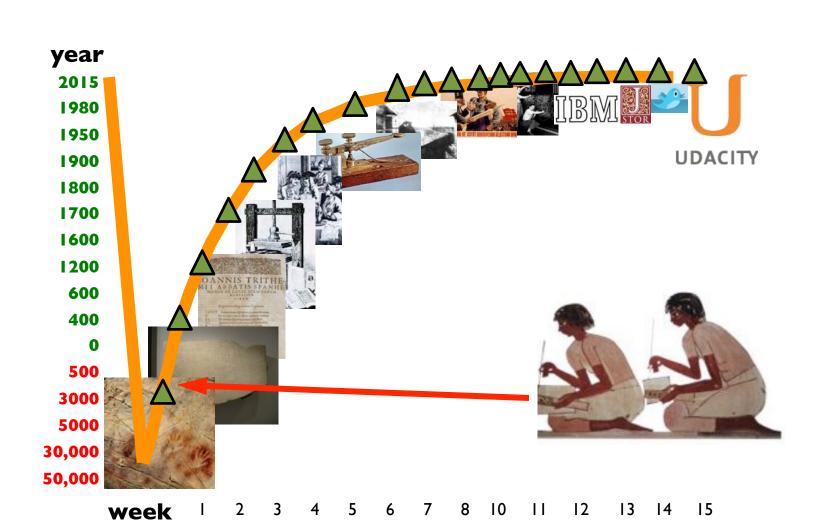




Geoff Nunberg
IS 103
History of Information
Feb 4, 2014



## The emergence of literate societies





### Itinerary, 2/4

#### Waitlist issues

(from 1/30): invention of writing: later developments

Writing & Technological Determinism

Writing and the Stages of Culture

Assignment:

George Mulcaire, Roxana Bostwick, Johny Li, Kimiya Hojjat, Emily Idell, Angelica Hernandez

What follows from writing

Alphabets vs logographic systems

Cognitive implications of literacy

Leapfrogging literacy?

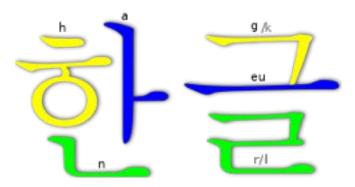




Hunmin Jeong-eum Exemplar (1446): Earliest Hangul text

# Independently invented writing systems: Korean Hangul

Writing system invented in mid-15<sup>th</sup> c. to replace hanja (Chinese-based writing system). Invention credited to King Sejong ("the Great"), who introduced it to increase mass literacy



The word 'hangeul' in hangul







#### Teachers say text msgs r ruining kidz riting skilz

Text and instant messaging are negatively affecting students' writing quality on a daily basis, as they bring their abbreviated language into the classroom. As a result of their electronic chatting, kids are making countless syntax, subject-verb agreement and spelling mistakes in writing assignments. *American Teacher* 

Will text messaging produce generations of illiterates? Could this—OMG—be the death of the English language? *Newsweek* 



The accelerated automation of word-processing makes possible a new immediacy in the creation of public, typified text. ....

Digital writing... invites the formulation of thought directly in the electric element... There is not only a new technology available in word processing but a gradually emerging sense of a new kind of community. And in such a community, psychic life will be redifined. Michael Heim, *Electric Language: A philosophical study of word-processing*, 1987





#### The Swackhamer Doctrine

Telegraph requires brevity & directness, forces users to discard the verbosity and complexity of the prevalent English style.

The telegraphic style terse, condensed, expressive, and utterly ignorant of synonyms will propel the English language toward a new standard of perfection."

"Influence of the Telegraph upon Literature," by Conrad Swackhamer, *United States Democratic Review*, 1848



## Writing and the Stages of Culture



## Writing and the Stages of Culture

"primitive" societies

"advanced/"developed" societies

"simple"/"closed"/ "complex"/"open"/ "domesticated"

Anthropology Sociology

Prehistory History

Orality Literacy

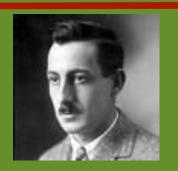
(after Jack Goody, The Domestication of the Savage Mind)



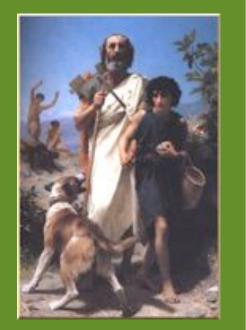
### What follows from writing?



### Modes of Cultural Transmission in Oral Societies



Milman Parry



Oral societies: pass on culture in "long chain of interlocking conversations..." (including rituals, etc.); culture stored in memory.

In [oral] culture, storage and transmission between the generations can be carried on only in individual memories. Linguistic information can be incorporated in a transmissible memory,... only as it obeys two laws of composition: it must be rhythmic and it must be mythical. Eric Havelock, *The Coming of Literate Communication to* Western Culture

Cf the complex metrical formulas of oral poetry...

Jack Goody: In oral cultures, no fixity, "dictionary meanings."

The "past" is simply a way of interpreting/explaining the present. CF Tiv (Nigeria), Gonja (Ghana).



### **Emergence of Literate Societies**



Egyptian scribe, ca. 1500 BCE

In early literate societies, literacy restricted to small priesthood or guild.

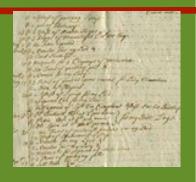
(association of literacy w/ magic)

Functions of literacy restricted to recordkeeping, administration, rituals, laws, monumental inscriptions, etc.





## Consequences of literacy: "What's in a List"



Sove Disper un Loheful Sandi 1020an Male North ATEAN COST Open Fullaror a playate John And Action 1 Extended a Sand 1 Extended a Sand 2 Fall Soul a arthology 1 ATEAN Soul a Manual Writing makes possible lists/arrays of inventories, geneologies, words, plants and animals, administrative categories, registers, etc. that make complex administration possible.

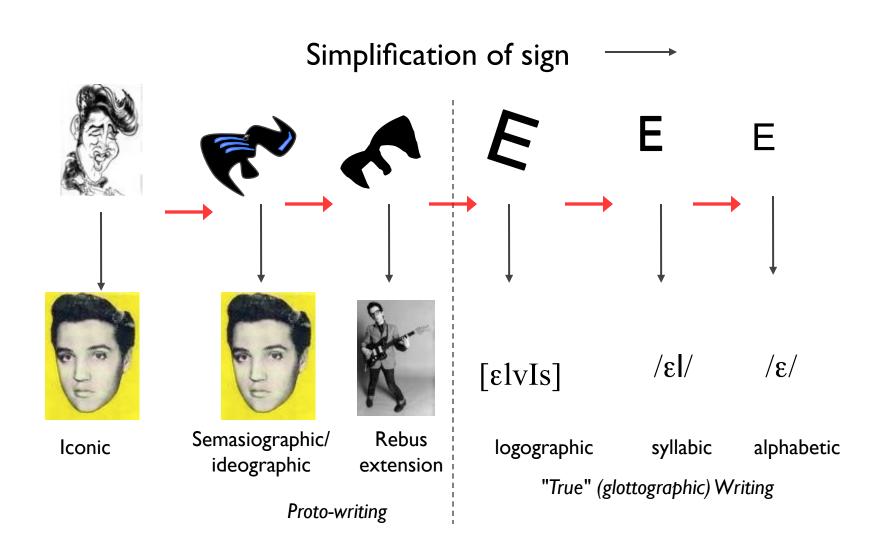
List = "locational sorting device."

Creates awareness of distinct possibilities of order. Cf varieties of lexical lists, catalogues, etc.

But cf also existence of complex lists in oral societies (Panini's grammar of Sanskrit -- 6th c. BC)



# Development of Written Symbols





## Emergence of the Alphabet in Greece

First "true" alphabetic script emerges in ca. 750 BC in Greece



"Cup of Nestor" ca. 750 BC, with earliest known Greek inscription; found near Ischia in Italy





# Changes accompanying literacy in Greece

Writing as the "technology of the intellect"

Transition from "mythical" to "logico-empirical" thought

Emergence of logic & philosophy, history, etc.

Past is no longer mutable -- multiple versions exist.

Possible to question inconsistencies, etc.

Writing detaches words from context, makes critical consideration of meanings possible. Emergence of "systems of rules for thinking"

Systematization/compartmentalization of fields of knowledge.



### "Alphabetic Societies"



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Alphabetic scripts are easier to learn, facilitate development of widespread literacy.

"This invention... could be learned by a majority of the population, thus creating the possibility of a popular literacy." Havelock

Aided by introduction of papyrus from Egypt.

Expansion of functions of literacy to other genres -- poetry, history, letters, etc.

By 5<sup>th</sup> century BC, Greece is an "alphabetic society" (Havelock)



# Does the alphabet drive societal development?



At social level: Does writing facilitate or determine cultural & cognitive changes?

E.g., Geoffreys Lloyd on development of Greek and Chinese science: role of debate in political life, testing of ideas, patronage

"The Chinese norms, were identification with a group and aspiration toward an imagined orthodoxy.... They were the mirror image of the Hellenic emphasis on a thinker's own ideas even when he belonged nominally to a group" Chinese scholars "discouraged open disputes with contemporary rivals over concepts....Compared with their Chinese counterparts, Greek intellectuals were far more often isolated from the seats of political power"

### Assignment for 2/4

#### Havelock writes:

The introduction of the Greek letters into inscription somewhere around 700 B.C. was to alter the character of human culture, placing a gulf between all alphabetic societies and their precursors. The Greeks did not just invent an alphabet, they invented literacy and the literate basis of modern thought [55] ....It is no accident that the pre-alphabetic cultures of the world were also in a large sense the pre-scientific cultures, pre-philosophical and pre-literary.[58]

Consider just one aspect or element of this broad claim. Taking into consideration both Havelock and Gough's articles, evaluate the claim from the point of view of either McLuhan or Williams.



# alphabetic vs logographic systems

## Chinese Typewriter has 72 keys and 576 characters. You press two keys at the same time, one for the top part of a character and one for the bottom. This puts eight words into printing position. You select and print the word you want by pressing one of the eight white keys.

#### Chinese Typewriter 1947



# Ultimate triumph of the alphabet?

"To become significantly learned in the Chinese writing system normally takes some twenty years. Such a script is basically time-consuming and élitist. There can be no doubt that the characters will be replaced by the Roman alphabet as soon as all the people in the People's Republic of China master the same Chinese language ('dialect'), the Mandarin now being taught everywhere. The loss to literature will be enormous, but not so enormous as a Chinese typewriter using over 40,000 characters."

Walter Ong, "Writing Restructures Consciousness," 1982











### Is Romanization Inevitable?

#### **Barriers to shift to Pinyin:**

Attachment to tradition and to characters

Loss of symbols of Chinese identity

Foregrounding of dialect differences/reshaping of national identity?

Apprehension about radical change

#### Favoring shift:

Ease of learning

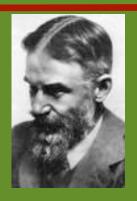
Technological advantages (data imput, texting, etc.)

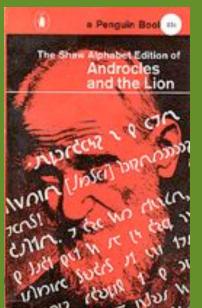
Emerging digraphia/multilingualism

Spread of Mandarin

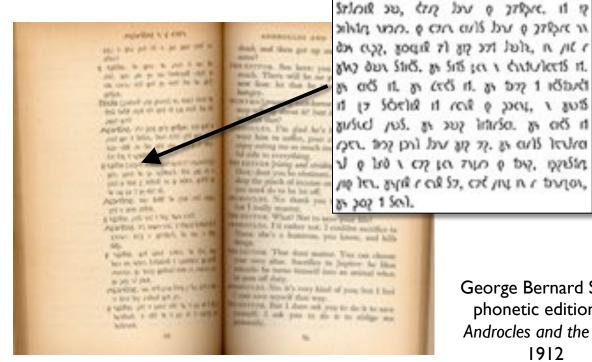


## Contrasting alphabetic and logographic systems





Virtues of "pure" or "phonetic" alphabetic writing: Ease of learning. Typographic simplicity. Ease of processing.



George Bernard Shaw, phonetic edition of Androcles and the Lion, 1912

r gribre led, r con's ou, r mentra



# Contrasting alphabetic and logographic systems

#### Virtues of (semi-)logographic systems

Doesn't privilege one dialect. Symbolic importance for linguistic community -- cf irregularity of English spelling.

"Purely" phonetic systems can lead to ambiguities; Cf French os, ô, eau, eaux, haut, hauts, au, aux, etc.

How "phonemic" is English?

```
famous: uh should: U

journey: 3 you: 00

loud: ow ____?: y___

through –oo bough -- ow
though – oh cough -- awf
thought – aw tough – uhf
?: -uhp
```

. .



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And uhp in ____
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journey: er you: oo

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```
through -oo bough -- ow
though - oh cough -- awf
thought - aw tough - uhf
And uhp in hiccough
```



# Social and Cognitive Effects of Literacy



### The Ideology of Literacy

Universal literacy seen as tool for cognitive and social development.

"The illiterate man's thought... remains concrete. He thinks in images and not in concepts... His thought rarely proceeds by induction or deduction. The result is that knowledge acquired in a given situation is hardly ever translated to a different situation to which it might be applied." — 1972 UNESCO report

"Writing maketh an exact man" -- Francis Bacon



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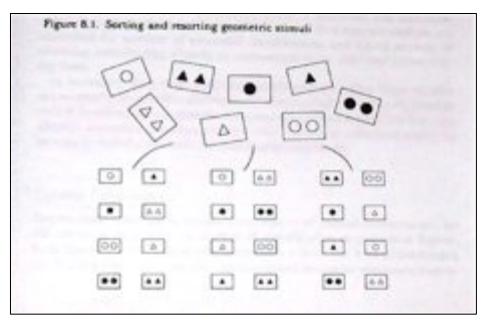
"Writing maketh an exact man" -- Francis Bacon Napoleon -- literate soldiers can march in step.



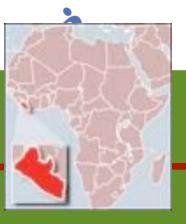


## Cognitive Consequences of Literacy

Cognitive differences between literate and illiterate people in devleoped societies. Literate speakers do better on logic problems, tests of abstract thinking (ability to recategorize objects).



But are differences due to literacy, schooling, or independent social differences?



# Cognitive Consequences of Literacy

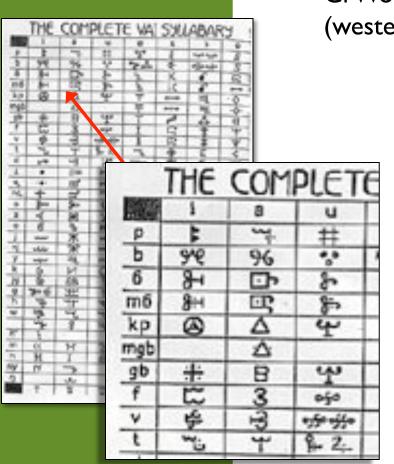


Many Vai are also literate in Arabic (Koranic schools) and English (state schools)

Vai-literate adults do no better than illiterates on most cognitive tests (resorting) unless tests were directly related to writing (rebus puzzles)

But different for English-literate Vai.

E.g. be careful in ascribing cognitive benefits to "literacy" itself.





## The Complexity of Literacy Practice





After Operation Head Start "failures": Research on "early literacy" (Shirley Brice Heath, Yetta Goodman. Etc.)

Learning the functions of literacy

Bedtime stories and other rituals of literacy: building expectations, postponing questions, "reading" in pre-literate children: "talking like a book"

Discourse structure -- topic shifts. Oral precursors in religious services

How literate parents talk to infants...

Moral: "Literacy" involves a broad range of social practices...



## **Leapfrogging literacy**











## Co-existence of writing with other forms of transmission

Cf Somali oral forms (gabay-- alliterative 21 syllable form)

But written Somali has not replaced the gabay in political discourse.







### **Leapfrogging Literacy**

New forms of transmission can obviate the transition to writing





### Readings for 2/6

Manuscript Culture: Required Readings

Plato. 1973 [c. 360 bce]. *Phaedrus & the Seventh & Eighth Letters*. W. Hamilton, trans. Harmondsworth: Penguin. *read* "Prelude," pp. 21-26; & "The Inferiority of the Written to the Spoken Word" & "Recapitulation and Conclusion" pp. 95-103.

Trithemius, Johannes. 1974 [1492]. *In Praise of Scribes*. R. Behrendt, ed. Lawrence, KA: Coronado Press. read Chapters I-III, V-VII, XIV.

**Note**: We are now going back to "primary texts," texts that discuss the changes we are interested in as they happened. As you read these texts, one almost 2500 years old, the other more than 500 years old, ask yourself whether these have anything to tell us about information in the modern world. Be prepared to discuss your reactions in class. (The Trithemius is a "parallel text" with Latin facing English. Only those fluent in Latin need read the Latin pages.)