

Grapholinguistics in the 21st Century 2022 Conference - Paris, 8-10 June

Emblematic techniques as textual strategies in non-linear and linear scripts

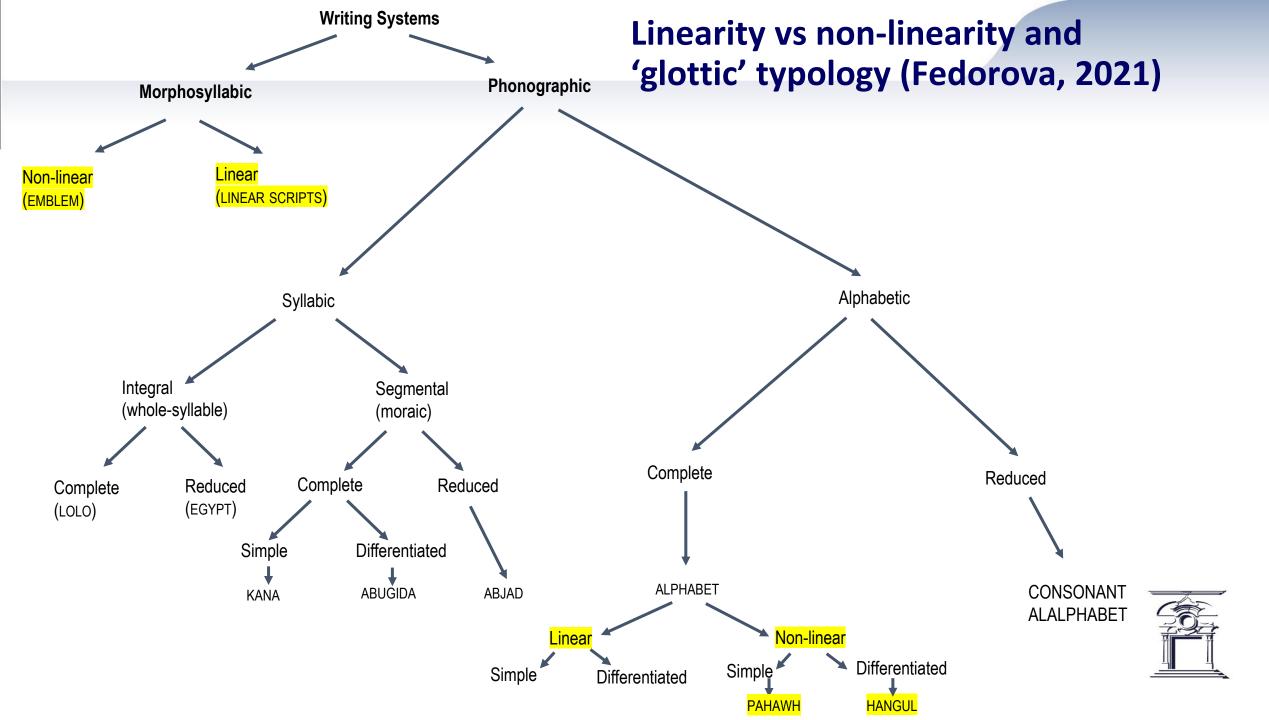
Antonio Perri antonio.perri@docenti.unisob.na.it

Department of Human Sciences, University Suor Orsola Benincasa, Naples

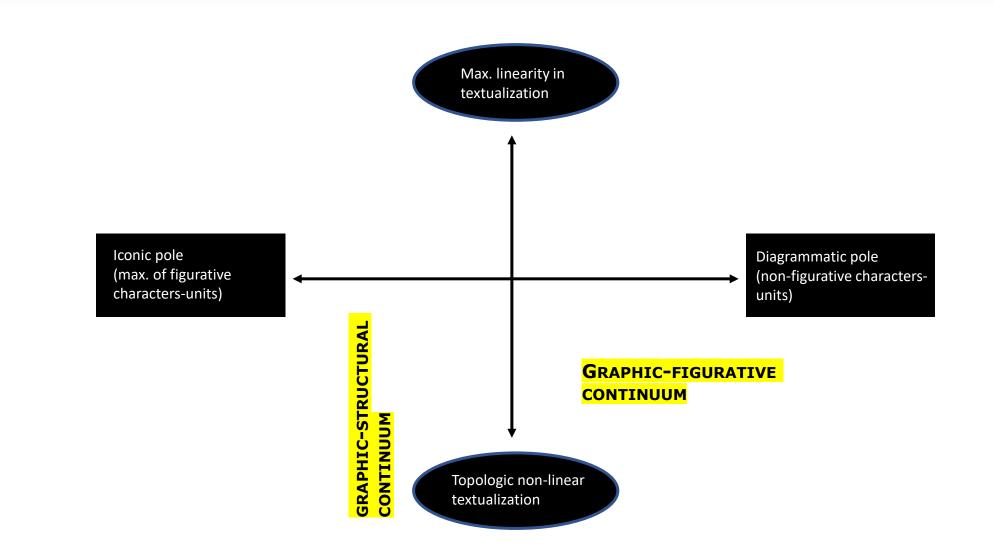
Liudmila Fedorova <u>lfvoux@yandex.ru</u>

Institute of Linguistics, Russian State University for the Humanities, Moscow



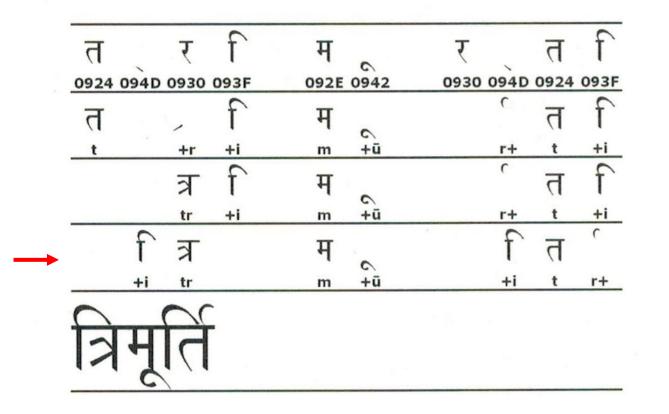


Linearity vs non-linearity in structural (non-glottic) continuum



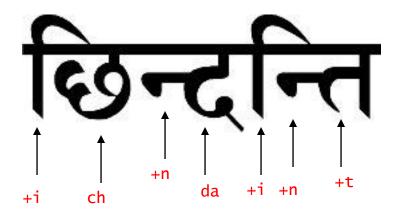


Non-linearity in writing units, entaxis, and Unicode's display engine



Display engine of Unicode allowing correct visualization of the Hindi written word *trimurti* 'trinity'.

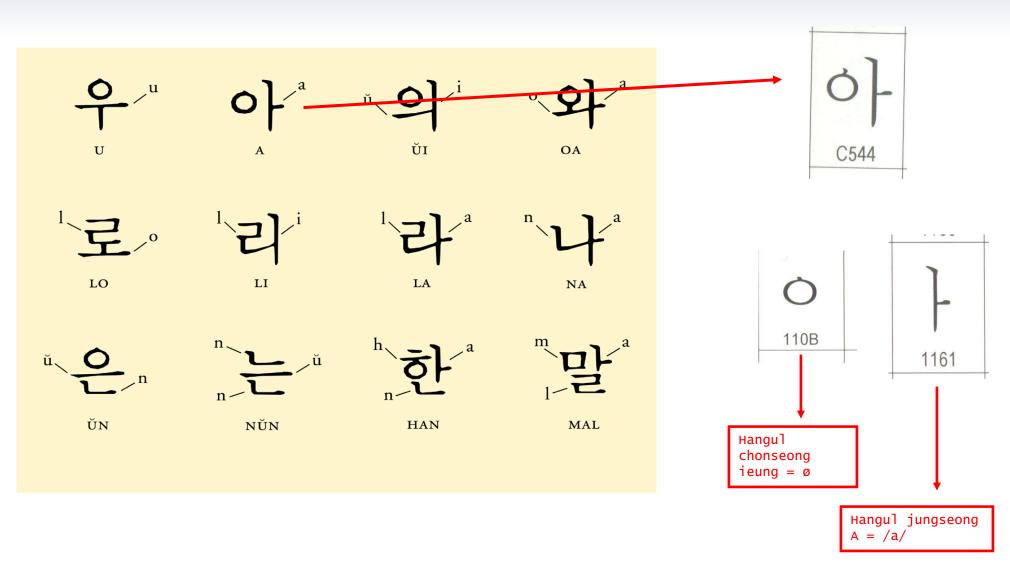
The occurrence of the diacritical *049D* allows the formation of consonantal nexus such as and <rt>. The last stage *re-organizes* glyphs according to graphic rules of the cursive Devanagari writing.



Linear assemblage of characters to write the Sanskrit verb *chindanti*, 'they can cut into pieces', as e.g. in नैनं छिन्दन्ति शस्त्राणि नैनं दहति पावक, *nainam chindanti* sastrāņi nainam dahati pāvakaḥ, 'the Soul has the properties that weapon can not pierce it, fire can not burn it'.

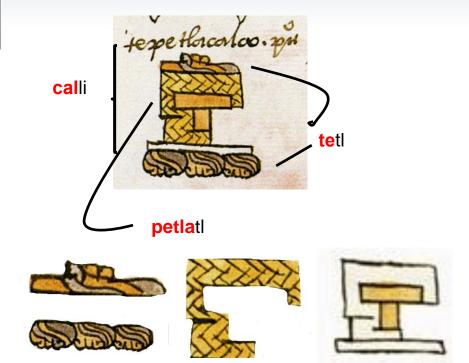


Non-linearity in writing units, *entaxis* and Unicode's 'multiplication' of glyphs



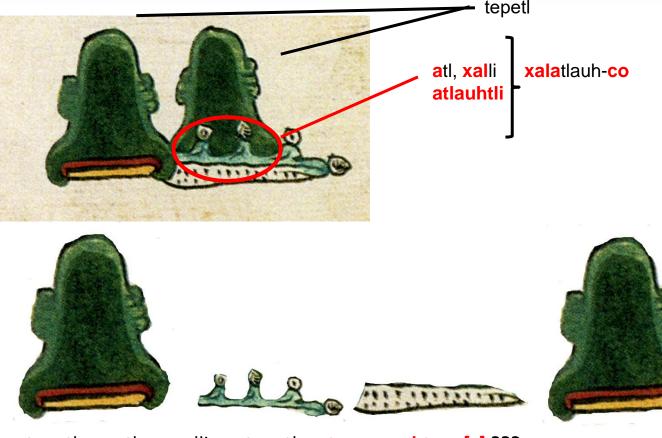


Non-linearity in writing units, and entaxis: emblems in Aztec writing



<tetl> - <petlatl> - <calli> > te[te]-petla-cal-[co] (doubled)

Petlacalco 'In the stone woven wicker cage' **Morpemic structure**: [te-tl + (petla-tl + cal-li)]+co **Graphic structure**: graphic compound of *petlacalli* 'cage, i.e. chest' incorporated between *tetl* 'stone' (above and beneath), *petlacalli* as a syncretic image of *calli* ('house') and *petlatl* 'woven mat' and *-co* (locative suffix).



<tepetl> - <atl> - <xalli> - <tepetl> > tepe-a-xal-tepe[c] ??? Xalatlauhco – 'In the sandy canyon' Morphemic structure: [xal-li + atlauh-tli]+co Graphic structure: two hills (tepetl) represent the canyon (atlauhtli) between them, atl 'water' gives a phonetic complement for the a-, xalli 'sand' is beneath.



Linguistic emblems in Aztec script



a) TENOCH – name of a leader, graphic compound of *nochtli* 'cactus' upon *tetl* 'stone'; graphic ligature to a head

b) COYUCAC – tribe name, free juxtaposition of a head of *coyotl* 'coyote' and *cactli* 'sandal'

c) MATATLAN (Codex Mendoza) – name of place 'Among nets', free juxtaposition of *matatl* 'net' and *tlantli* 'teeth', homonym for -*tlan* 'among' – phonetic rebus

d) MATATLAN (Historia Tolteca Chichimeca) - a syncretic image of a hill (*tepetl*), a symbol of a city not read, in a net – *matatl*; graphic fusion

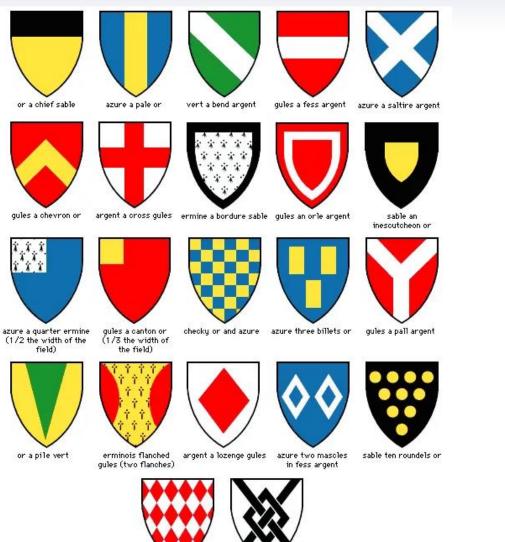
e) YACAPITZTLAN – 'A place where there are many sharp objects' (possibly sharp stones or thorns). Graphic fusion of a hill with a 'nose' yacatl and a 'bag' petzotl; -tlan without graphic representation

f) AHUACATLAN – 'Where there is a lot of avocado trees'; 'teeth' *tlantli* are incorporated into a tree (for *ahaucatl*)

g) CUAUHUACAN - 'The place of possessors of eagles', an eagle *cuāuh-tli* with a tree *cuahu-itl* as a phonetic reduplication; possessive suffix *-huâ-* without graphic representation, and the same for *-can*; graphic ligature to the 'symbol' (linguistically expressing a metaphor) of *conquered city*.



Non-linearity in "writing" units: European heraldic emblems



argent a fret sable

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and gules

In coats of arms, units are always *discrete* and never *linear*, since they are combined into a global reading using a space which does not impose any preferential order.

Georges Mounin

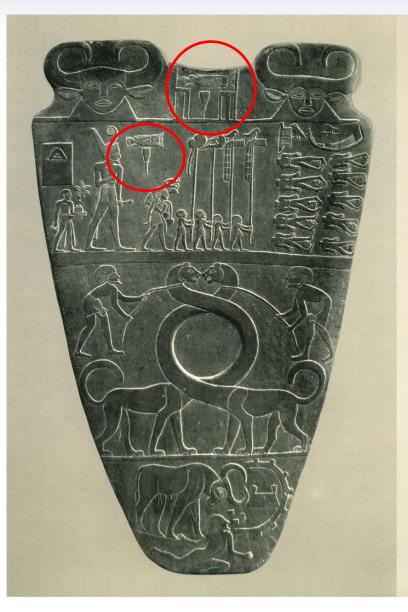
Non-linguistic graphic emblems



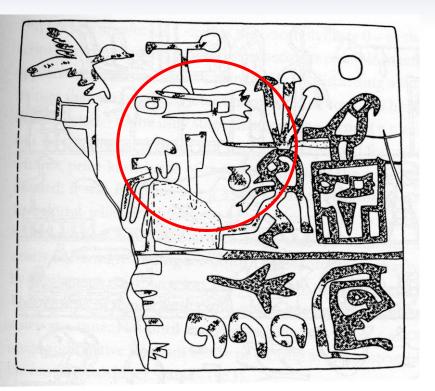
Linguistic content in an Italian heraldic emblem of *Bracci*'s family (the <arm> holding the flower is *braccio* in Italian).



Emblematic iconic space in pre-dynastic Egyptian hieroglyphs



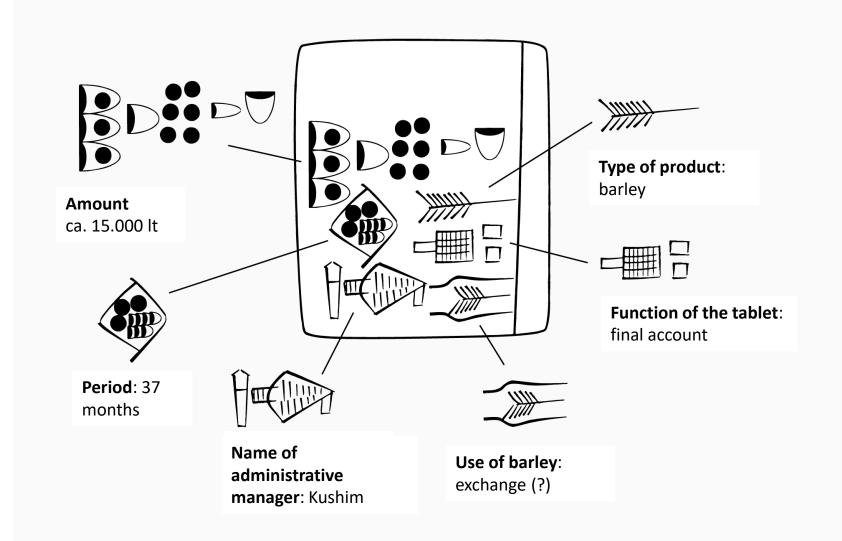




The name of Egyptian first king of unified Egypt *Nr-mr* (commonly vocalized as NAR-MER) is written in circled spaces.



Emblematic and diagrammatic (partially non-iconic) space: Uruk tablet





Emblematic and diagrammatic (partially non-iconic) space: Micenean Linear B tablet

total amount

of rowers/people

Vertical column,

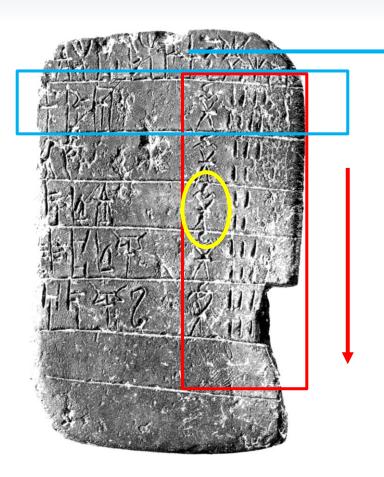
from top to bottom:

embarked

on

the

sheep



Horizontal line, from left to right: specific qualifications of rowers, and numerical amount of single persons [logographically written] in the sheep.

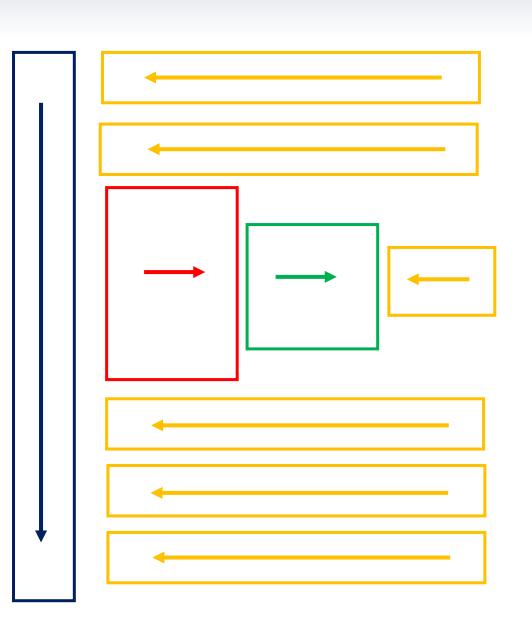
In Mycaenean writing, writing act is to be seen as a communicative process in which the choice of material surface, the diagrammatic arrangement of written signs (alignment, ordering by columns, extrapolation and highligting of significant items, change in size of characters...) play a role even more important than accurate transcription of speech.

Massimiliano Marazzi



Emblematic-*synsemic* space in Aztec writing of *Codex Mendoza*: (half a page of) historical report



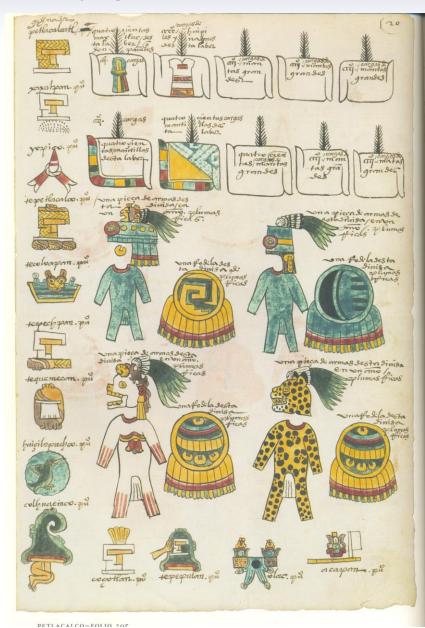


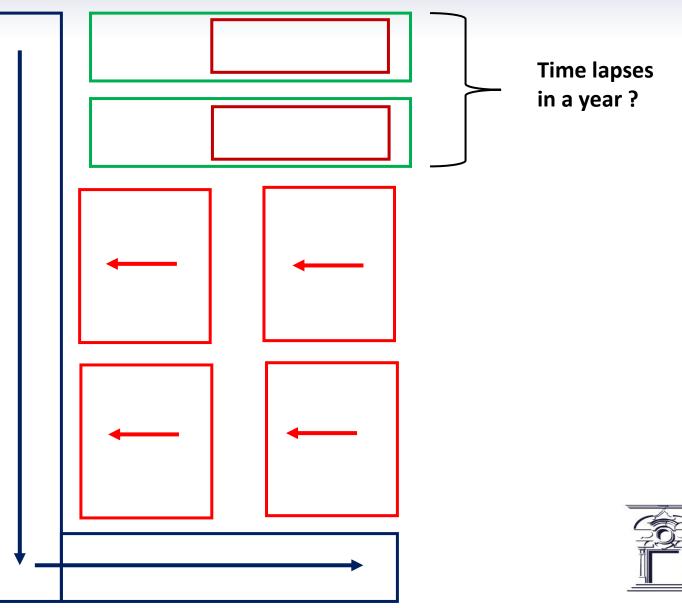




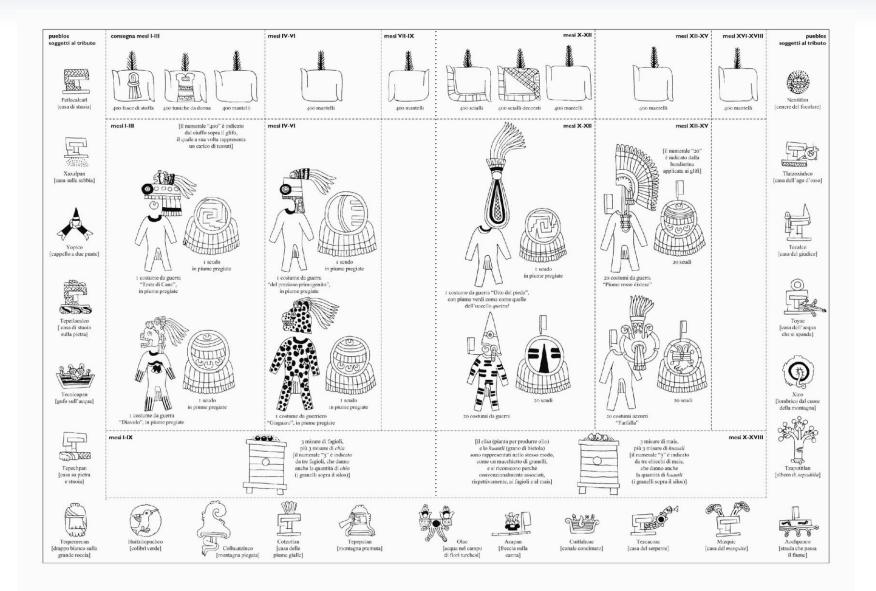


Emblematic-*synsemic* space in Aztec writing of *Codex Mendoza*: (half a page of) tribute account



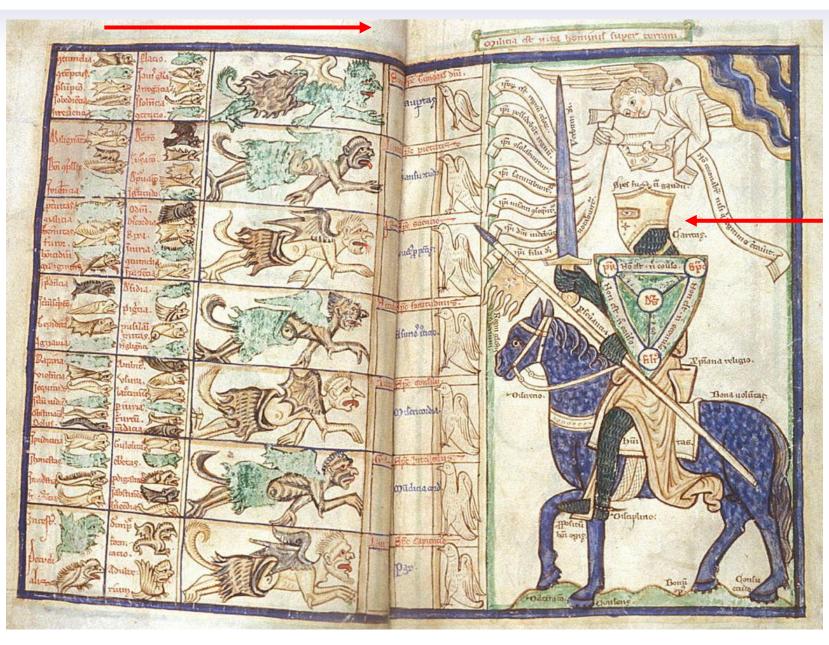


Emblematic-synsemic space in Aztec writing of *Codex Mendoza***: hypothesis of double-page's 'original' framed space**





Emblematic non-linear space of multidimensional structuring images in Europe: *Guilelmus Peraldus: Summa de virtutibus et vitiis*



Guilielmus Peraldus, Summa vitiorum et virtutum [half of XIII c.] Militia est vita hominis super terram

Every *locus* of the picture is inscribed. In order to understand what we see, we must not only read inscription but draw our attention to the *place* in which has been situated; we have to slowly retrace, step after step, the compositive plot [...]

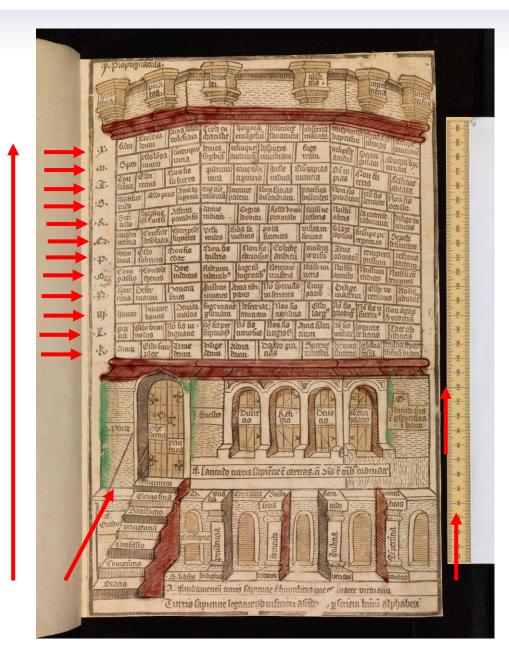
Lina Bolzoni

[Better], it is the representation of the structure, the cognitive field expressed by the text.

Francesco Antinucci



Emblematic non-linear space of multidimensional structuring images in Europe: the *Turris sapientiae*



Johannes Metensis, *Turris sapientiae*, woodcut with Latin inscriptions [Germany, c. 1475] *Turris sapiencie legatur ab inferiori asce*[n]de[ndo] p[er] seriem *l[itte]raru[m] alphabeti.*

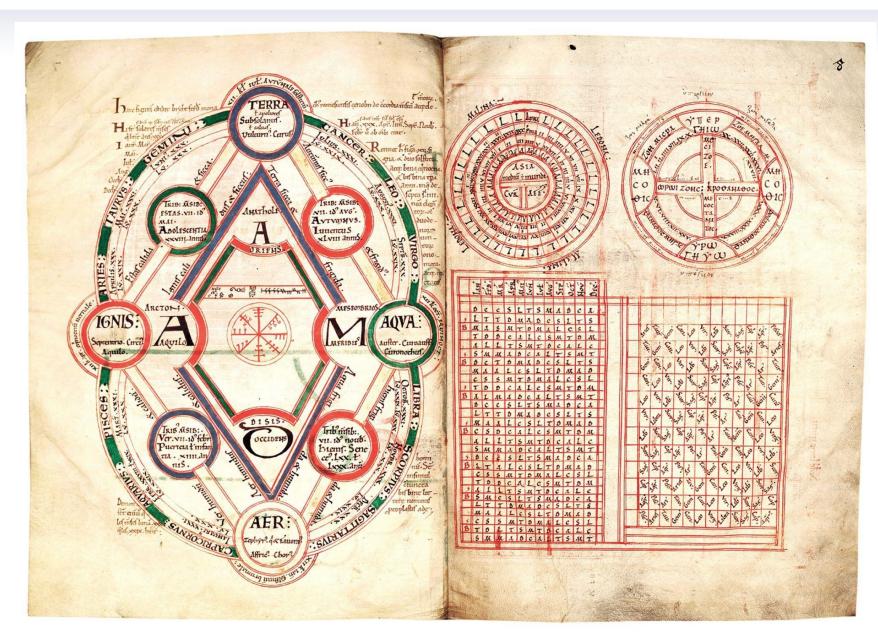
Elements of the building analogically express, through their mutual locations and relations, the relationships in the field of knowledge [*Wisdom*, i.e. the true knowledge inspired by God].

The 'physical' form of the tower as it is represented *makes we see* what is the relation between concepts linguistically [i.e. alphabetically] expressed in the text [with non linear framed space]: it is radically different from linear order, where this relation should be mentally inferred and pieced together. *Turris* is significantly named *Speculum theologiae*, i.e. 'mirror', visual representation of theology.

Francesco Antinucci



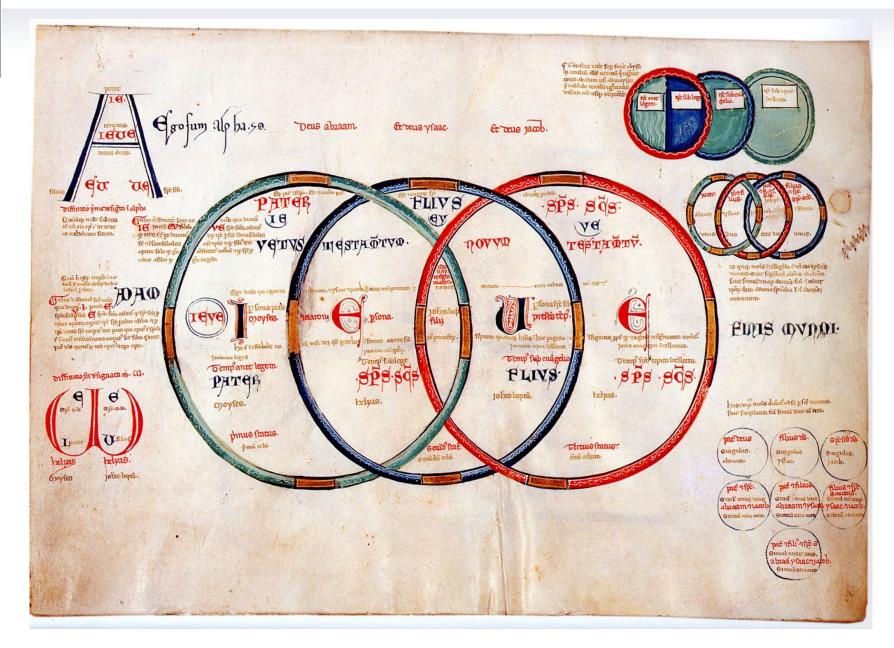
Emblematic non-linear space of multidimensional structuring images in Europe: the *Byrthferth diagram*



The diagram (drawn ca. in 1110) is a scheme representing the harmonic relations between spatial and temporal elements (climates, seasons, winds, months, zodiac etc.) [Perondi 2012]



Emblematic non-linear space of multidimensional structuring images in Europe: Gioacchino da Fiore's *Liber figurarum*



Trinitary circles (beginning XIV c.) The analogically framed space illustrates the relationships and correspondences between the Three Persons of Trinity, and between trinitarian Persons with others elements such as Alpha-Omega tetragram, human history, biblical *figurae* [Perondi 2012]



Contemporary examples of emblematic non-linear space: visual poetry

The fermented grapejuice among the reproductive parts of seed-plants O! I'm conscious of my state of being isolated from others! Ah! Body attendant revolving keeping & shining about 238,840 miles by on reflecting the light the (mean) Earth aloof radiated by the sun into my mouth I take 8 while expressing the hope for thy success. swallow the liquid

Stephen Themerson, English translation of a Chinese poem by Li Bo (VIII century A.D.), with the use of *internal vertical justification* (1949).



Emblematic non-linear (and public) space: visual poetry



Loin du pigeonnier

Et vous savez pourquoi Pourquoi la chère couleuvre se love de la mer jusqu'a l'espoir attendrissant de l'Est

Malourène 75 Canteraine

Hexa èdres bar belés mais un secret collines bleu en sentinelle

dans la Forêt ou nous chantons O gerbes des 305 en déroute

Guillaume Apollinaire



Photo by Anoesjka Minnaard.

Graphic means to emblematically express in writing technical musical terms

CRESCENDO_BACHTRACK planissimo piano mezzo piano mezzo forte FORTE FORTISSIMO Exploitation of the same cresCENDO iconic-emblematic strategy in DIMINuendo visual poetry (Gloria, Ladislav Novak, 1964) SForzando ritar d a n d O c c e l e rando a stac · ca · to leeegaaatooo Volce V

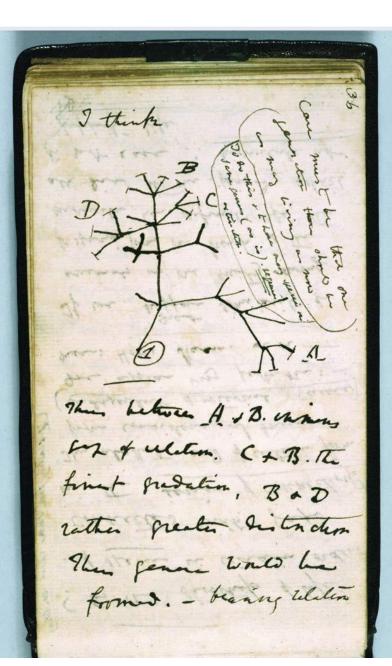
fermataaaaaaaaa

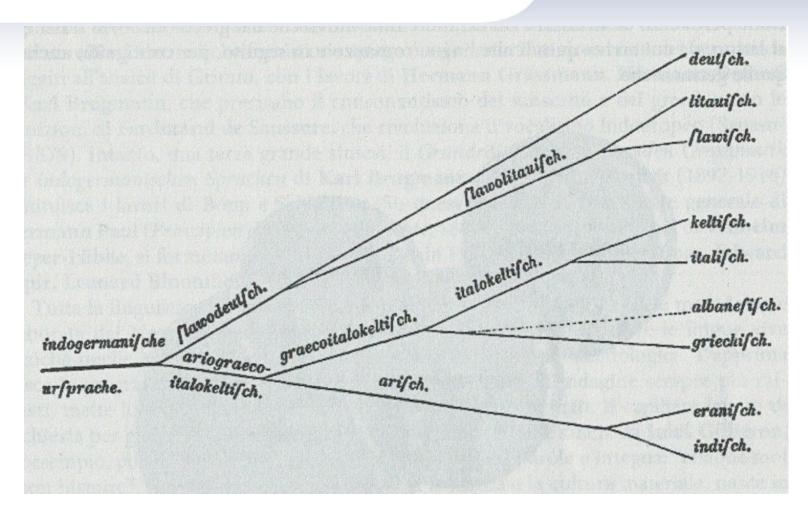
GL RIA

Ladislav Novák, Gloria, 1964



Examples of emblematic non-linear space: scientific diagrams

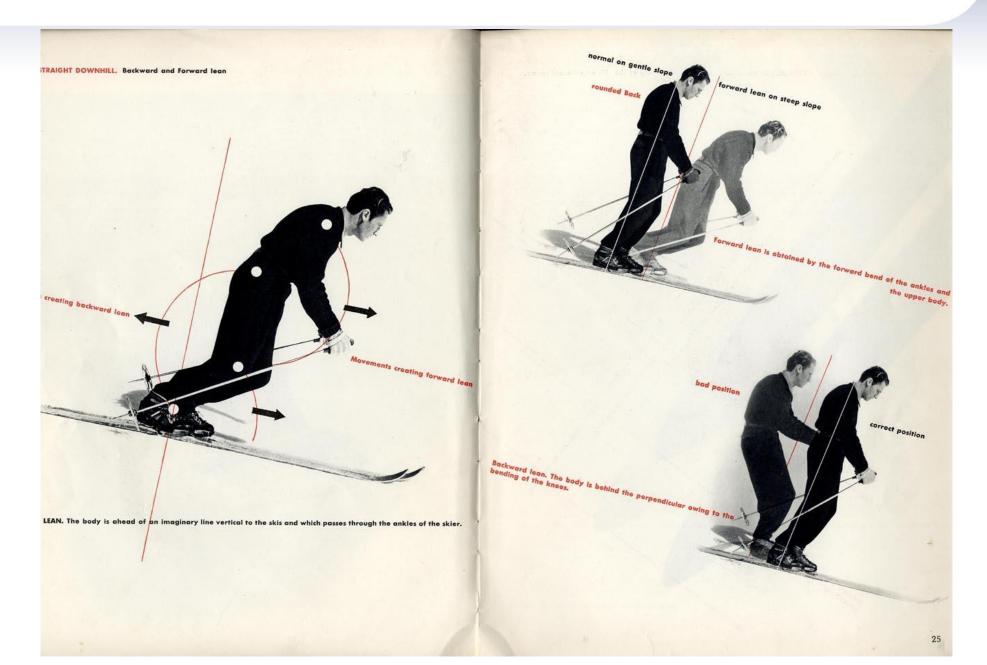




Darwin sketch of the *tree of life* (1837), Schleicher's *Stammbaum* of Indoeuropean languages (1861 [1853])



Contemporary examples of emblematic non-linear space: infographics





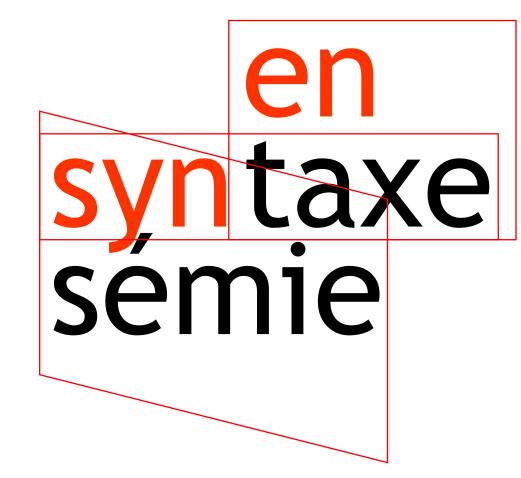
Conclusions

- Linearity, in any writing system, is a semiotic prerequisite in order to assure actual matching between visual-graphic expressions or units and (sequential, 'linear' in Saussurean terms) bits of speech;
- However, while a sequential ordering of reading is to be always assumed, many systems of graphic (and coded) scripts exploit the (at least) bidimensional visual space both *a*) to form/construe written characters or units (by joining minimal traits in non-linear paths: *entaxis*); and *b*) mostly to articulate written texts combining those units in *non-linear layouts* (significantly framing the textual space in view of a correct and complete reading: *synsemia*).
- While linear paths in writing emerge with non-figurative images and, more systematically, with (a more or less) complete glottic phoneticism, the story of writing repeatedly testifies the use of multi-linear structuring patterns.
- This is clearly explained by the semiotic nature of any *objectual space* inscribed, since "the text always functions as a sign in ways which are not exhaustively described by giving a merely 'linguistic' account of what the text say, of the linguistic [written] forms used, and of their [glottic] meanings as contrasted with other forms available in the [spoken or written] language" (Roy Harris).



References

- Antinucci, F. 2011, Parola e immagine. Storia di due tecnologie. Rome-Bari, Laterza.
- Berdan, F. F., 1992a, "Glyphic Conventions of the Codex Mendoza.", in Berdan, F. F., Anawalt, P. R., eds., *The Codex Mendoza*, vol. 1, Berkeley and Los Angele s, University of California Press, pp. 93–102.
- Berdan, F. F. 1992b, "The Place-Names, Personal Names, and Title Glyphs of the Codex Mendoza: Translations and Comments", in Berdan, F., AnawaltP. R., e ds., *The Codex Mendoza*, cit. vol. 1, pp. 163-239.
- Berlin, H., 1958, *El glifo "emblema" en las inscripciones maya*, "Journal de la Société del Américanistes", n.s., vol. XLVII, p. 111-119.
- Bolzoni, L., 2002, *La rete delle immagini*. Turin, Einaudi.
- Boone, E. H., 1998, Pictorial Documents and Visual Thinking in Postconquest Mexico, in E. H. Boone, T. Cummins (eds.), Native Traditions in Postconquest World, Washington, Dumbarton Oaks, pp. 149-199.
- Boone, E. H., 2000, *Stories in Red and Black*, Austin, University of Texas Press.
- Elkins, J., 1999, *The Domain of Images*, Ithaca, Cornell University Press.
- Elkins, J., 2003, Four way of measuring the distance between alchemy and contemporary art, "HYLE International Journal in Philosophy and Chemistry" 9 (1), pp. 105-118.
- Fedorova, L., 2009, "The Emblematic Script of the Aztec Codices as a Particular Semiotic Type of Writing System", in Written Language & Literacy, 12.2, pp. 258-274.
- Fedorova, L., 2012, The development of structural characteristics of Brahmi script in derivative writing systems, "Written Language & Literacy". 2012 Vol. 15: 1. P. 1–25.
- Fedorova, L. 2021, "On the Typology of Writing Systems", in Y. Haralambous, ed., Grapholinguistics in the 21st Century 2020. Proceedings. Brest, Fluxus Editions, pp. 805-824.
- Harris, R., 1986, *The Origin of Writing*. London, Duckworth (new augmented Italian edition 1998).
- Harris, R., 2000, *Rethinking Writing*. London: The Athlone Press.
- Mounin, G., 1970, Introduction à la sémiologie, Paris, Ed. de Minuit, pp. 109-115.
- Perondi, L, 2012, Sinsemie. Scrittura nello spazio. Viterbo, Stampa Alternativa & Graffiti.
- Perri, A., 2005, "Pintar sonidos. Hacia una explicación semiótica del 'fonetismo' como rasgo intrínseco de la escritura azteca-náhuatl", in Quaderni di Thule. Rivista italiana di studi americanistica. Atti del XXV Convegno Internazionale di Americanistica, vol. 2. Perugia, C. St. Americanistici "Circolo Amerindiano", pp. 83-94.
- Perri, A., 2014, Why writing is not (only) transcribing? Writing codes in contact: steps towards multigraphic literacy practices, in "Testo e Senso" on line n.
 15, www.testoesenso.it
- Rogers, H,, 2005, Writing systems: A linguistic approach. Malden, Blackwell Publishing.
- Vaillant, P., 1999, Sémiotique des langages d'icônes, Paris, Honoré Champion.



Thanks for u r

attention

