

Jacques Bertin

Daniel Salomon

Data Visualization



Biography

Born in Maisons-Laffitte, Yvelines, France, in 1918.

Studied geography and cartography at the Sorbonne.

Recognized cartographer and language theorist.

Monumental writer, published several works.

Won two acknowledgment awards.

Died in Paris, Ile-de-France, France, in May 2010.

Accomplishments

1954 - Founded and became director of the Cartographic Laboratory of the École Pratique des Hautes Études (EPHE).

1967 - Began as a professor at the Sorbonne and also published *Semiologie Graphic*.

1972 - Became head of research at the Centre National de la Recherche Scientifique (Part of the EPHE).

Accomplishments

1974 - Became director of education, and director of the Geographical Laboratory of the École des Hautes Études en Sciences Sociales (part of the EPHE).

1993 - Received the *Mercator-Medaille der Deutschen Gesellschaft für Kartographie*.

1999 - Received the *Carl Mannerfelt Gold Medal* from the International Cartographic Association.

Publications

1967 - ***Sémiologie Graphique. Les diagrammes, les réseaux, les cartes.*** With Marc Barbut [et al.]. Paris : Gauthier-Villars. (Translation 1983. *Semiology of Graphics* by William J. Berg.)

Semiology of Graphics.

1969 - ***Etude et réalisation d'un dispositif de goniométrie et d'observation de formes d'onde, en large bande.***

Study and realization of a device of goniometry and observation of waveforms, in broadband.

1976 - ***Experimental and Theoretical Aspects of Induced Polarization.*** 2 vol. With J. Loes. Berlin : Gebruder. Borntraeger.

1977 - ***La graphique et le traitement graphique de l'information.*** Paris : Flammarion, 1977.

Graphics and graphic information-processing.

Publications

1992 - ***Harper atlas of world history***. With Pierre Vidal-Naquet. N.Y. : Harper Collins.

1997 - ***Atlas historique universel. Panorama de l'histoire du monde***. With J. Devisse, D. Lavallée and J. Népote. Genève.

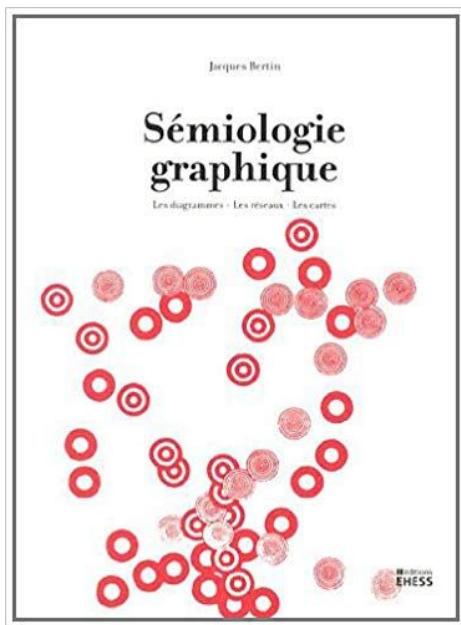
2006 - ***Nuovo atlante storico Zanichelli***. Sotto la direzione di Pierre Vidal-Naquet; direzione della cartografia.

Universal historical atlas. Panorama of world history.

New historical atlas Zanichelli.

Major Works

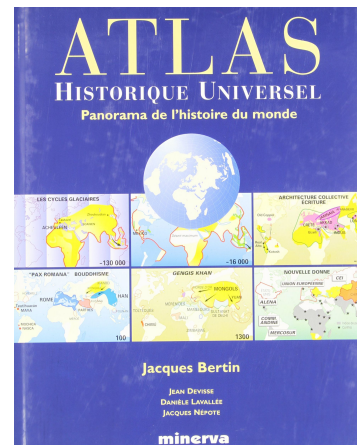
Sémiologie Graphique



*La graphique et le traitement
graphique de l'information*



*Atlas historique universel.
Panorama de l'histoire du monde*



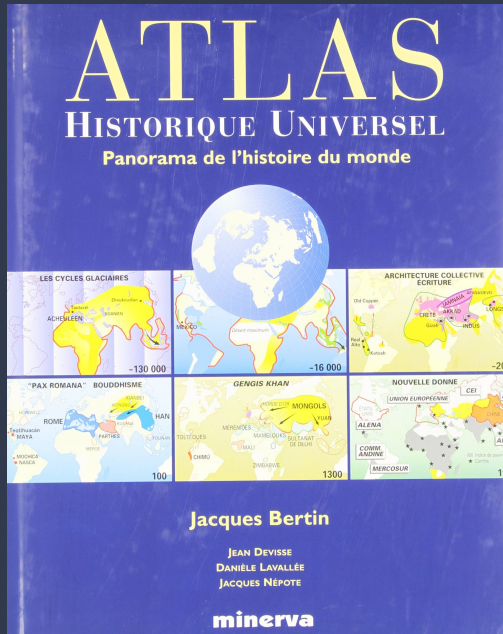
Graphics and graphic information-processing



Published in 1977.

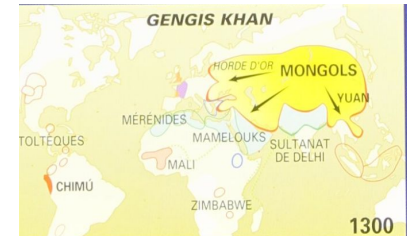
Data should be rearranged to reveal patterns.

Universal historical atlas. Panorama of world history

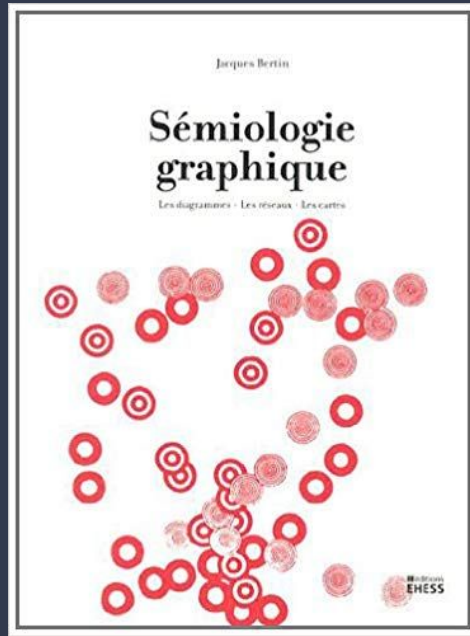


Published in 1997.

Periods presented by planispheres, observe in parallel the presence of humanity by continents.



Semiology of Graphics

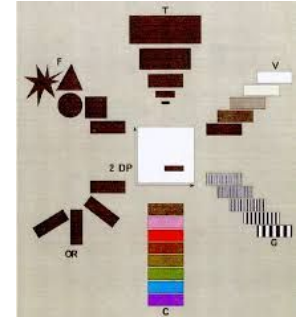


Published in 1967.

The Structure of a Graphic.

Constructing Graphics.

Reading Stages.

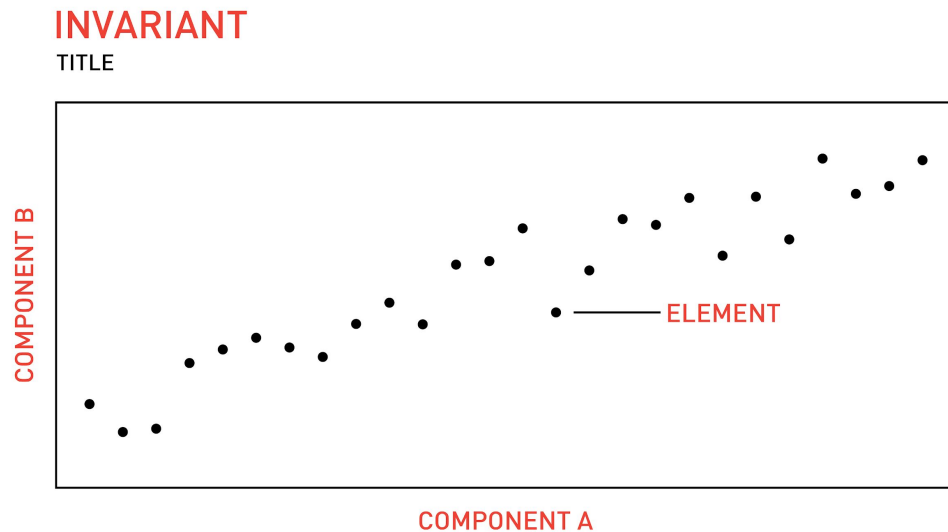


The Structure of a Graphic

Invariant is the title or topic.

Components are the categories or divisions.

Elements are the plotted data.



Constructing Graphics

Size

Variations in length, area, or volume.

SIZE



Shape

Variations in appearance or form.

SHAPE



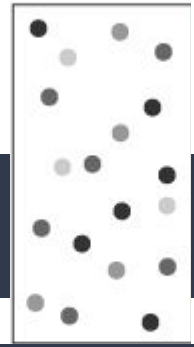
Color

Variations in color hue and saturation.

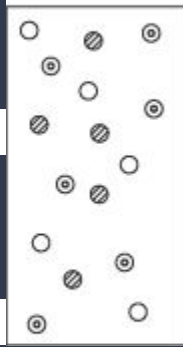
HUE



VALUE



TEXTURE



ORIENTATION



Value

Variations in color brightness.

Texture

Variation in the coarseness of the element.

Orientation

Variations of direction or angle of rotation.

Reading Stages

External: Title and labels.

Internal: Represented data.

Relationships: Understand the complete information of the graphic.

Bibliography

- [https://icaci.org/jacques-bertin-1918-2010/#targetText=Jacques%20Bertin%20was%20born%20in,EPHE\)%20and%20became%20its%20director&targetText=Jacques%20Bertin%20worked%20on%20the,maps%20and%20their%20design%20improvements.](https://icaci.org/jacques-bertin-1918-2010/#targetText=Jacques%20Bertin%20was%20born%20in,EPHE)%20and%20became%20its%20director&targetText=Jacques%20Bertin%20worked%20on%20the,maps%20and%20their%20design%20improvements.)
- <https://peoplepill.com/people/jacques-bertin/>
- http://www.aag.org/cs/membership/tributes_memorials/af/bertin_jacques
- <https://www.tandfonline.com/doi/abs/10.1179/000870411X13038059668604?src=recsys&journalCode=ycaj20>
- <https://biblio.ugent.be/publication/2033530/file/6766701.pdf>
- <https://visionscarto.net/la-semiologie-graphique-a-50-ans>
- https://www.esri.com/news/releases/10_4qtr/bertin.html
- <https://hal.inria.fr/hal-01786606v2/document>
- https://www.scienceshumaines.com/atlas-historique-universel-panorama-de-l-histoire-du-monde_fr_9894.html
- <https://medium.com/@karlsluis/before-tufte-there-was-bertin-63af71ceaa62>

Thank you

A dark blue diagonal gradient bar that starts from the bottom left corner and extends towards the top right corner, covering the lower half of the slide.