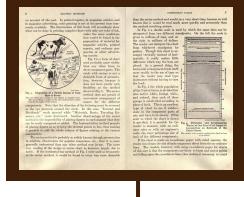
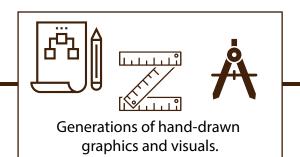
A Brief History of Data Visualization

(and the role of libraries and librarians)



1914

Graphic Methods for Presenting Facts by Willard C. Brinton



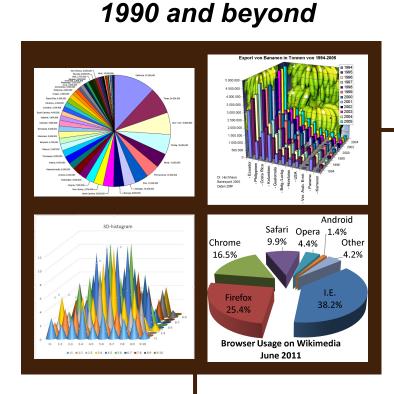


The personal computer arrives.

The principles for a grammar of graphic presentation are so simple that a remarkably small number of rules would be sufficient

Willard C. Brinton

to give a universal language.



1987

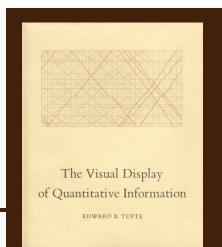
Microsoft Excel: Spreadsheet software for everyone.

The explosion of "CHARTJUNK."

Having the means to create graphs with a computer doesn't guarantee that we'll do it effectively any more than having word processing software makes us great writers.

Stephen Few

1983, 1990, 1997...



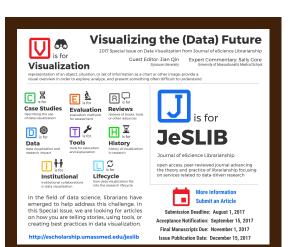
Rapid expansion of data generating, data analysis, data sequencing, and data visualizing tools. Access, management, and preservation of data becomes a key concern and disciplines emerge to address these different aspects related to data including libraries and librarians.

It is not how much empty space there is, but rather how it is used. It is not how much information there is, but rather how effectively it is arranged.

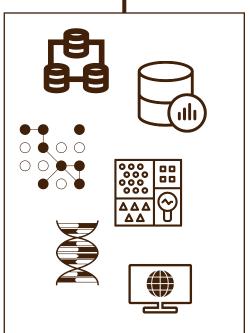
Edward Tufte

1977

2017 A special issue of the Journal of eScience Librarianship is published, highlighting the future of librarians, librarianship, and data visualization.



2000 'til today



1997

Application-Controlled Demand Paging for Out-of-Core Visualization by Michael Cox & David Ellsworth



We call this the problem of big data.

This is an extended version of a paper that appeared in Proceedings of Vasalization '97, Phoenix AZ, October 1997.