

Interactive Information Visualization

<http://www.aviz.fr/Teaching/InteractiveInfoVis2011>

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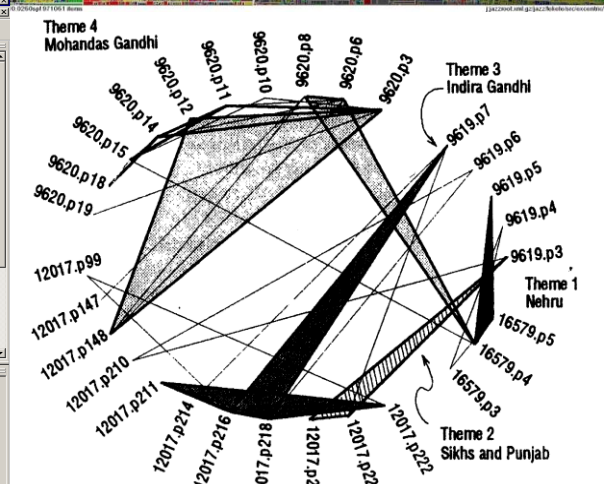
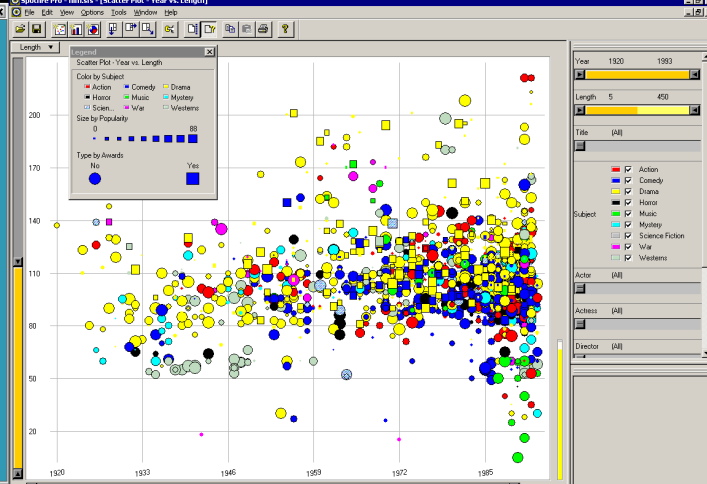
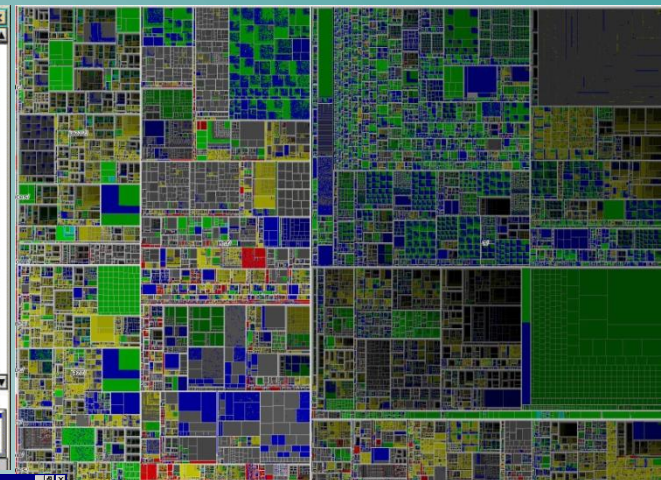
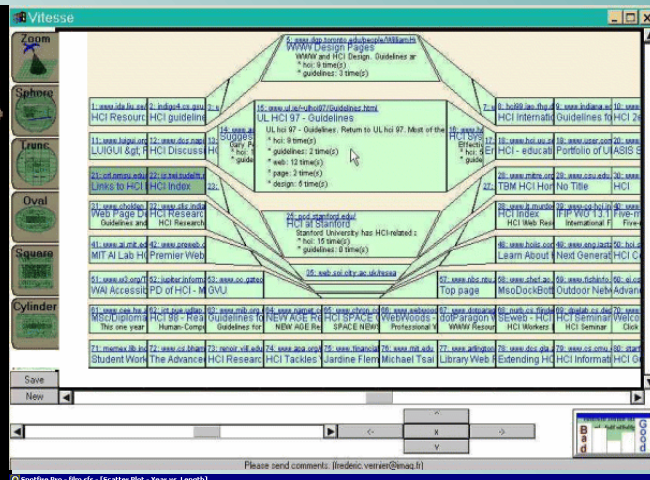
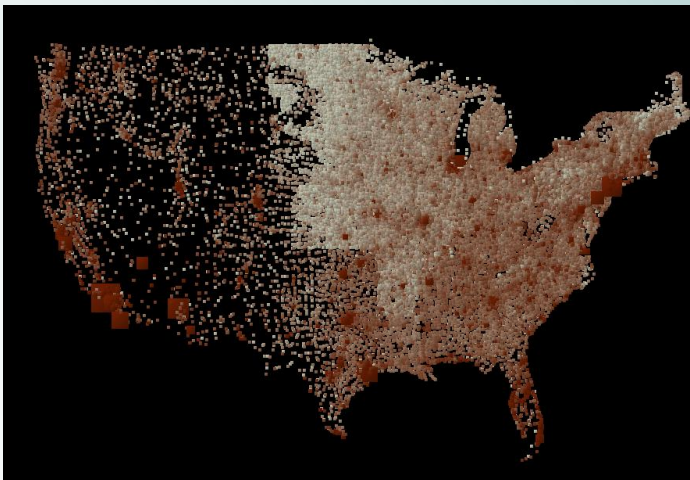
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Problem Statement

- Data is produced at a pace faster than the growth of data storage and data processing
- Managing this data is very hard, analyzing it even harder, understanding it becomes a challenge
- We must understand data to make good decisions
- This course will introduce the domain of information visualization and present the latest work
- The research domain of information visualization consists in finding visual representations to understand large abstract datasets and to provide interactions suited to analyze and navigate into these visual representations.

Examples of Visualizations



16579: Nehru, Jawaharlal
 12017: India
 9620: Gandhi, Mohandas Karamchand
 9619: Gandhi, Indira Priyadarshini
 (Links below 0.35 ignored)

Visualization



Intersection of

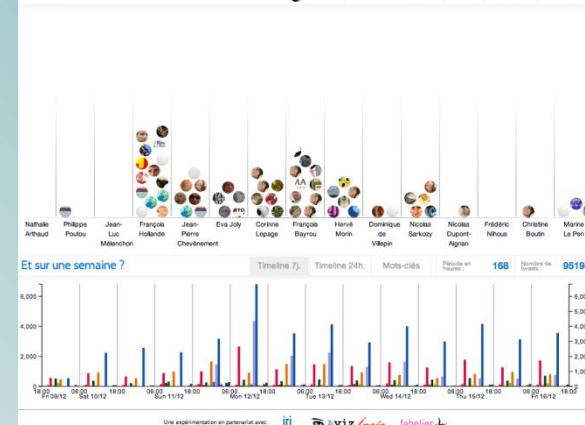
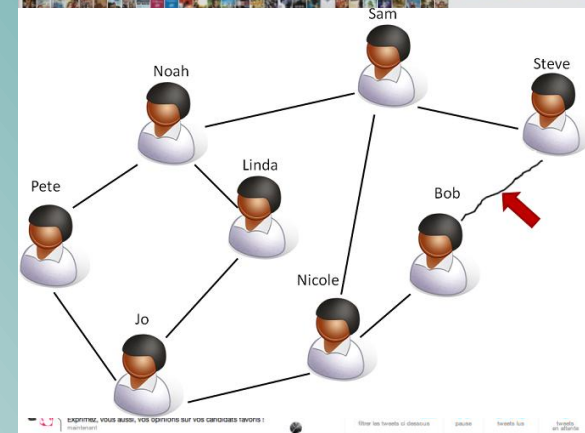
- Computer Graphics
- HCI
- Psychology
- Statistics

New Scientific Issues

- Coupling perception and deep cognition

New Societal Issues

- Open-Data, Data Journalism



Interactive Information Visualization

- *We will present concepts and techniques for visualizing and interacting on multiple kinds of data structures (tables, temporal data, network, text, etc.)*
- *We will introduce several tools to use, design or improve information visualization*

• Internships

- ***INRIA and the University will propose several internship in the domain of information visualization***
- ***Major Universities & Research Centers are conducting research in the domain***
 - *Stanford, MIT, NYU, Berkeley, UofToronto, Univ. of Konstanz, TU Eindhoven, etc.*
- ***Major companies, as well as smaller companies, are also looking for interns and engineers in the domain:***
 - Microsoft, Oracle, Google, IBM, SAP, Dassault Systèmes, etc.***