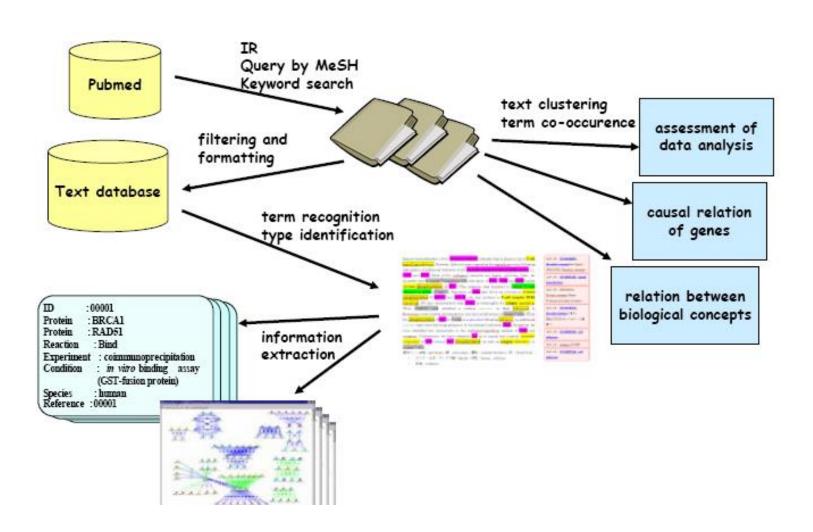
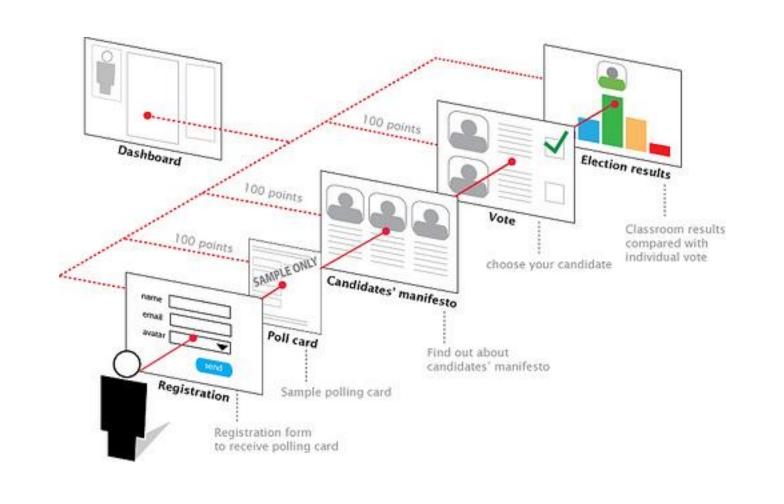
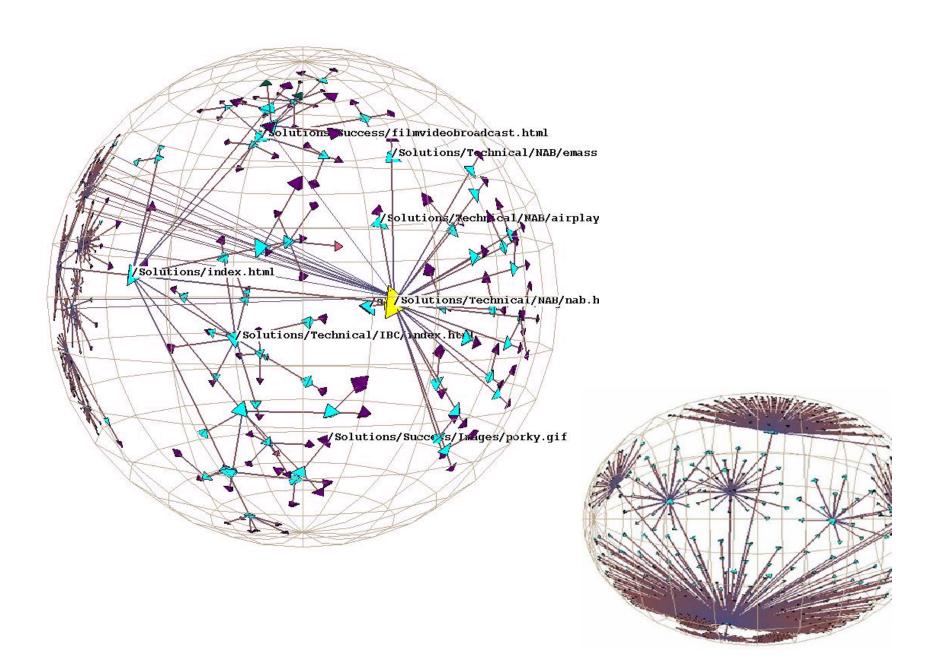
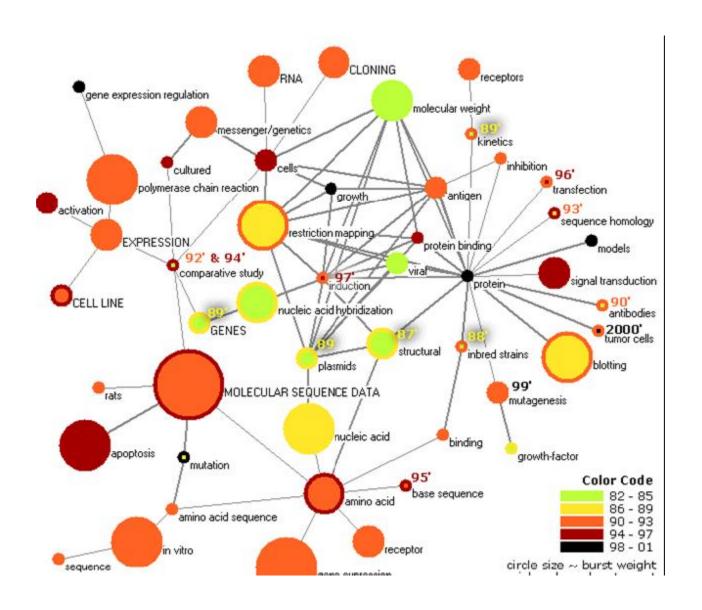
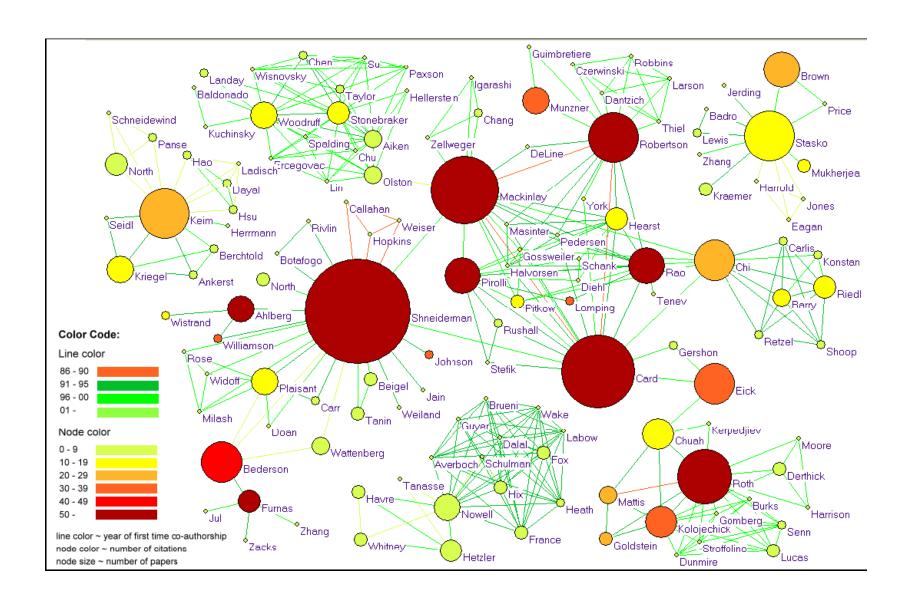
Text Mining vs Text Visualization

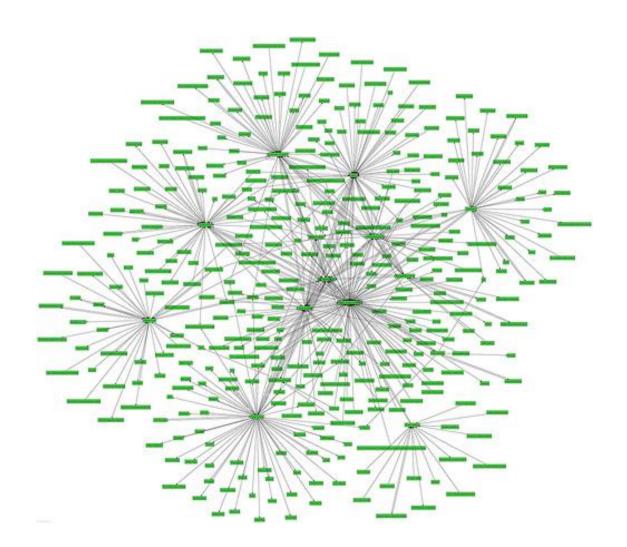






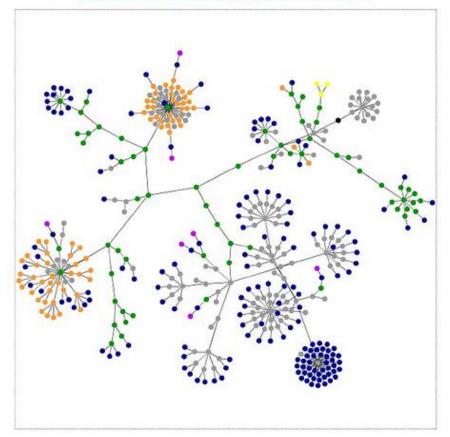






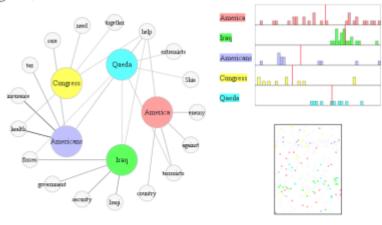
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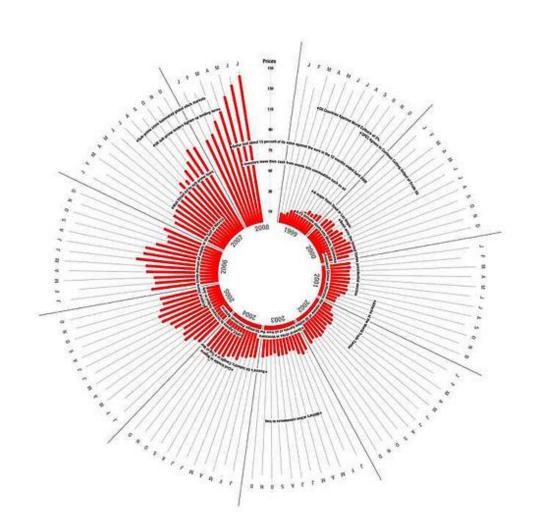
State of the Union Address, 2007

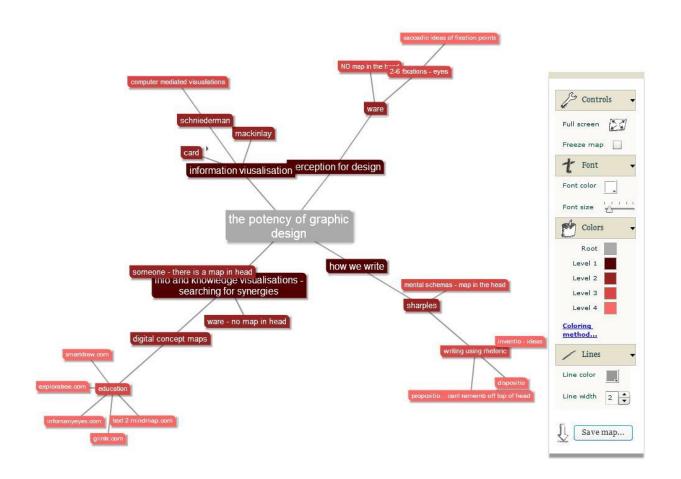
Click on question muck to load a new file.

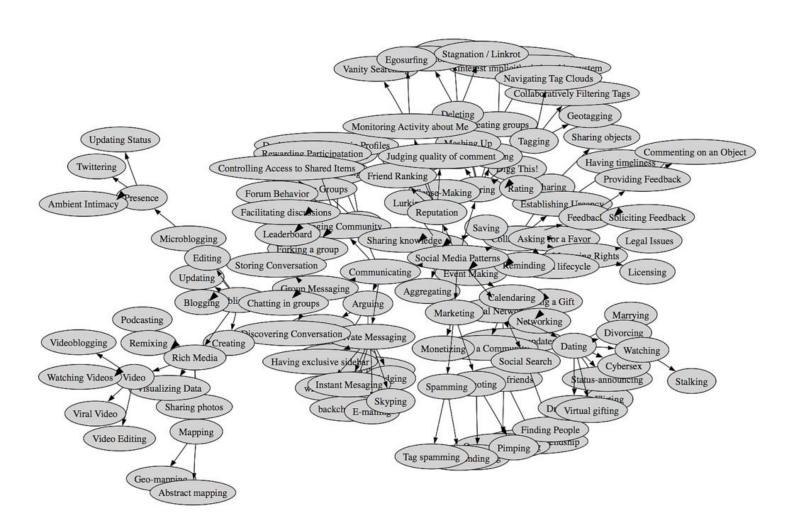


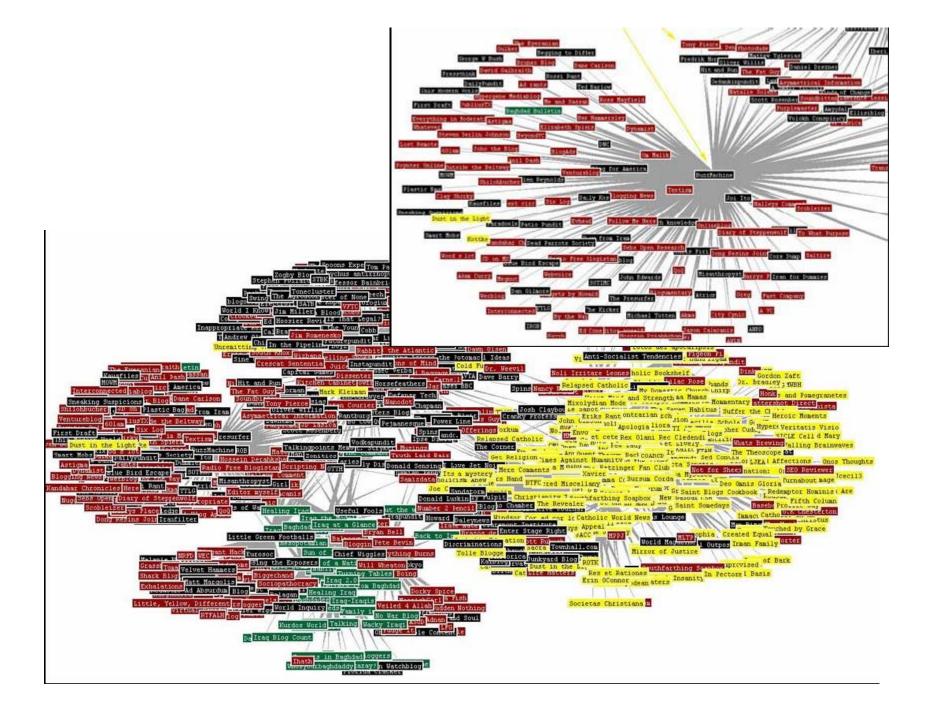
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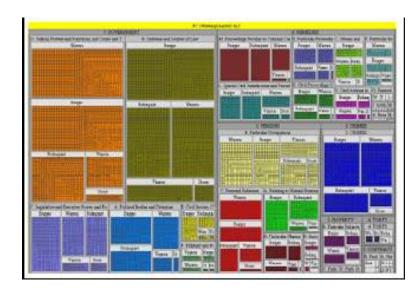
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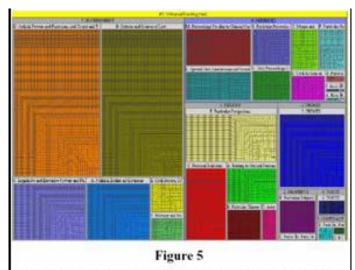
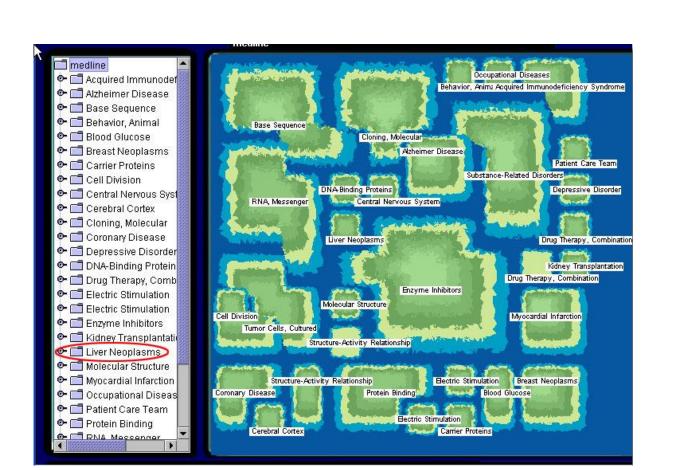
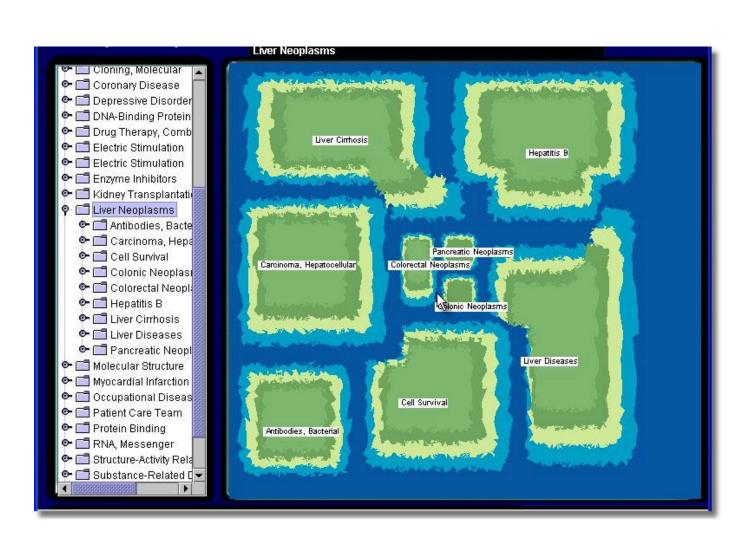
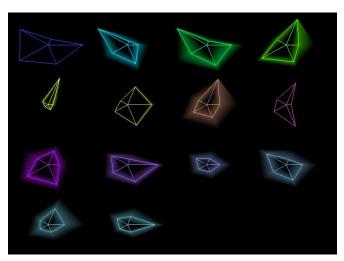


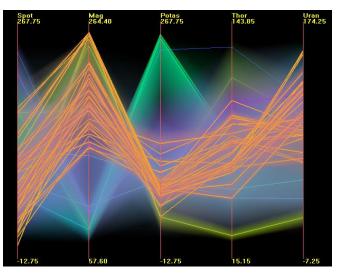
Figure 5 is a portrayal of all topics grouped by West Category and Sub-Category over the entire length of the

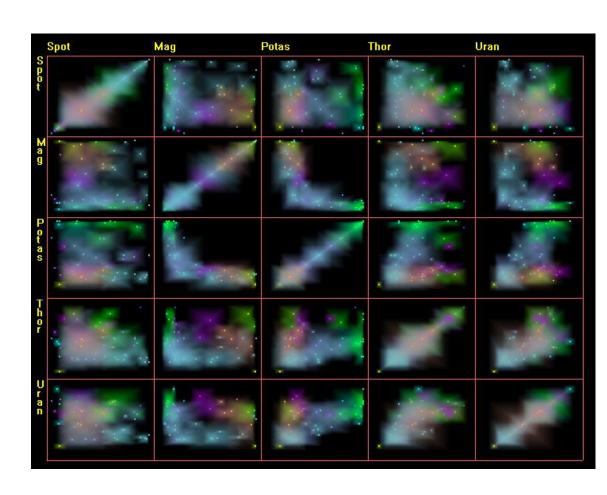




Examples of Data Clustering







How knowledge is described in biological texts?

A text = background + main (protein + chemical + gene + function + reaction + cell/tissue + species + other terms)

- Knowledge of proteins and protein interactions can be extracted from texts.
- Other knowledge is required to understand the texts?
- protein -> interaction -> function!

Mining \rightarrow Visualization

Terms of Functions

cell growth, cell proliferation, reproduction, fission,,, growth hormone stimulus, growth hormone response,,, gene expression, cell cycle, chromatin remodeling,,,

What is Function?

- Cell level function
 - Cell growth and maintenance
 - Gene regulation
 - Transport
 - Cell differentiation
 - Stress response
- Body level function
 - ▶ Immune system
 - Endocrine system
 - Sensory system
 - Metabolism
 - Development
 - Disease/Cancer

Pathway vs TV

