Automatic Web Visualization

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Overview

• Objective
• Comparative analysis
• Demonstration
• Milestones
Objective

- Easy visualization
- Automated visualization
  - Provide tools to show data easily
- Automatic visualization
  - Make decisions about how to show data
- In a web environment
  - Flexible and portable
Comparative Analysis

• Automated visualization
  • Tableau
  • ManyEyes
  • Excel

• Automatic visualization
  • Autovis
  • APT

• Neither
  • Photoshop
Demo
Milestones

• 11/18: Show quantitative data
• 11/21: Multiple variable types
  • Stephanie: backend
  • Kevin: user interface
• 11/24: Show variety of visualization types
  • Split work among visualization types
• 12/01: Automatically choose visualization type
  • Combined effort
• 12/02: Present
Sources

• Mackinlay's APT
  • http://cs171.org/2008/papers/mackinlay86.pdf
• AutoVis
  • http://ivi.sagepub.com/content/9/1/47.full.pdf+html
• ManyEyes
  • http://hint.fm/papers/viegasinfovis07.pdf