ClearEye: An Visualization System for Document Revision

CPSC 533C Project Update
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Motivation
- personal experience
- doc vs. code revision

Goal
- managing multiple versions and intergrading revisions with ease

Domain and Tasks
- explorations on multiple revisions
- comparison of any two versions
- accepting or rejecting changes
- adding more changes

Data Set
- multiple versions of any document

The SeeSoft text view showing code changes according to a rainbow color scale.

Very few visualization design alternatives
Presenting document structure evolution and the amount of changes in each section at the same time.
Level of details in each view
Visualizing degree of differences in overview
Java 2D

User input

Level 1: Overview of Multiple Versions
- Parallel Coordinates
  - Inspired by IBM Research
  - Changes over time
  - Semantic mapping
  - Re-structuring
  - Degree of change
- Community View
- Author View
- Recent Change View

Level 2: Content View
- Scroll bar based navigation
- Differences are highlighted
- Manipulate the changes (time permits)

Removed an intermediate view proposed in the proposal
Phase I:
- Come up with one or more visualization designs and decide one to implement.

Phase II:
- Diff Algorithm Implementation
- Interface Design
- Interface implementation (by Mar. 22)
- Visualization implementation (by Apr. 04)

Phase III:
- Testing (by Apr. 15)

Thank you!