Visualizing DSpace

Google Summer of Code 2007
Brian Eoff

Presented by Scott Phillips for
DSpace User Group Meeting 2007
People

- Brian Eoff
  - Graduate student
  - Center for the Study of Digital Libraries
  - Research interests:
    - Information retrieval
    - Human computer interaction

- Scott Phillips (mentor)
  - Texas A&M University Libraries
Problem

- Quickly understand relationships
  - Related in time
  - Related in location

- Possible questions:
  - “When was this collection most active?”
  - “How distributed are the items?”
Approach

• Interactive timeline viewer
  • Plot important dates of items
  • Easily understand the progression of the collection

• Interactive map browser
  • Plot the location of items spatial
  • Quickly understand the collections location
Architecture

• Manakin & DSpace
• AJAX and JQuery javascript libraries
• Client side processing of DRI documents
• Restful interface to repository metadata (VOSS)

• MIT Simile timeline (http://simile.mit.edu/timeline/)
• Google Map API (http://www.google.com/apis/maps/)
Solution
Solution
Photographs of the Mexican Revolution

Submit a new item to this collection

Recent Submissions
Results

• Experience gained by Brian:
  • DSpace, Manakin, Cocoon, XSL, Javascript
  • Open Source Development

• Proved the Virtual Object Store extensions to Manakin worked

• Simple visualizations improve the user experience
Current Status

- Works with the Manakin-VOSS branch
- DSpace 1.4.2

- Incompatible with Manakin / DSpace 1.5
  - Browsing sub-system overhaul
  - Brian would like to continue updating the project, time permitting.
Questions?