Selective Semantic Zoom of a Document Collection Dustin Dunsmuir

Domain and Problem

- Intelligence analysts sense-making
 See relationships between people, places, etc
- Too many documents

 Format not easy to summarize

Proposed Solution

Show all or many documents at once

 Display "document contains entity" through nesting entities within a document

Use selective semantic zoom
 – Focus + context (multiple focus points)

Semantic Zoom

1) 💻 2



Report 1Rex LuthorAlderwoodEllie OlmsenNov. 45 p.m.

| 5) | Report 1 | | |
|----|---|--|--|
| | Story by: Ellie Olmsen | | |
| | Republicans in Alderwood joined De | | |
| | the city's costly new high-tech voting system | | |
| | the Nov. 4 election. | | |
| | The Republican commission scolded | | |
| | with the touch-screen machines that the city | | |
| | Mayor Rex Luthor to investigate what went | | |
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6) Report 1

Report 1

Story by: Ellie Olmsen

Republicans in Alderwood joined Democrats yesterday in criticizing the performance of the city's costly new high-tech voting system, saying that it may have disenfranchised voters in the Nov. 4 election.

The Republican commission scolded the city board of elections for minimizing problems with the touch-screen machines that the city purchased this year for \$1.5 million and asked Mayor Rex Luthor to investigate what went wrong before the machines are pressed into service again.

Alderwood's touch-screen voting machines, which resemble laptop computers without keyboards, were supposed to simplify voting and tabulating results. But in a debut that mirrored many of the problems experienced last year in areas across the country, some voters found the machines confusing, and the reporting of vote tallies was delayed almost a day.

Luthor responded that he would try to address the board's concerns. He said he has called for a public meeting of the three-member board of elections to go over the requests at 5 p.m. today.

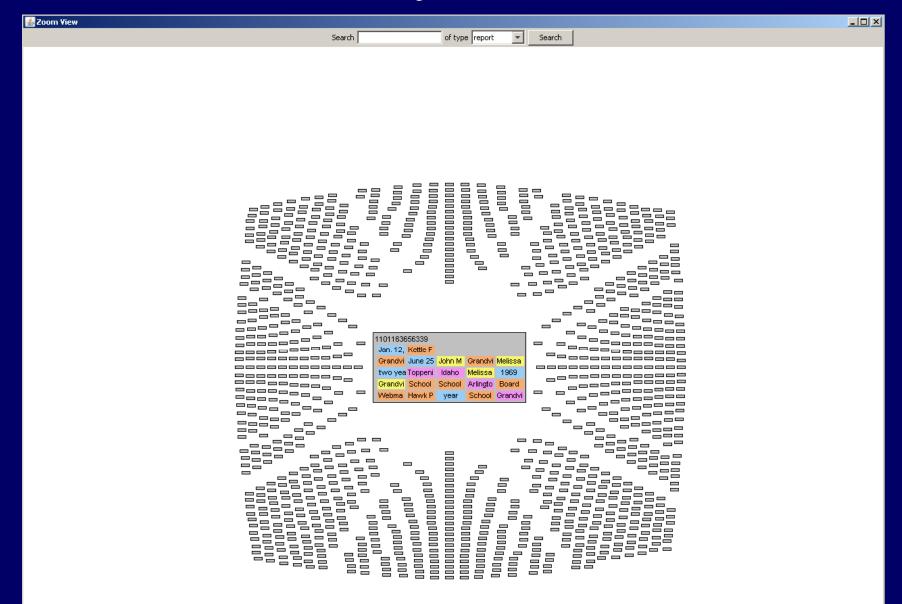
"I pledge that I will answer every question as soon as I possibly can in the proper fashion," he said.

Implementation

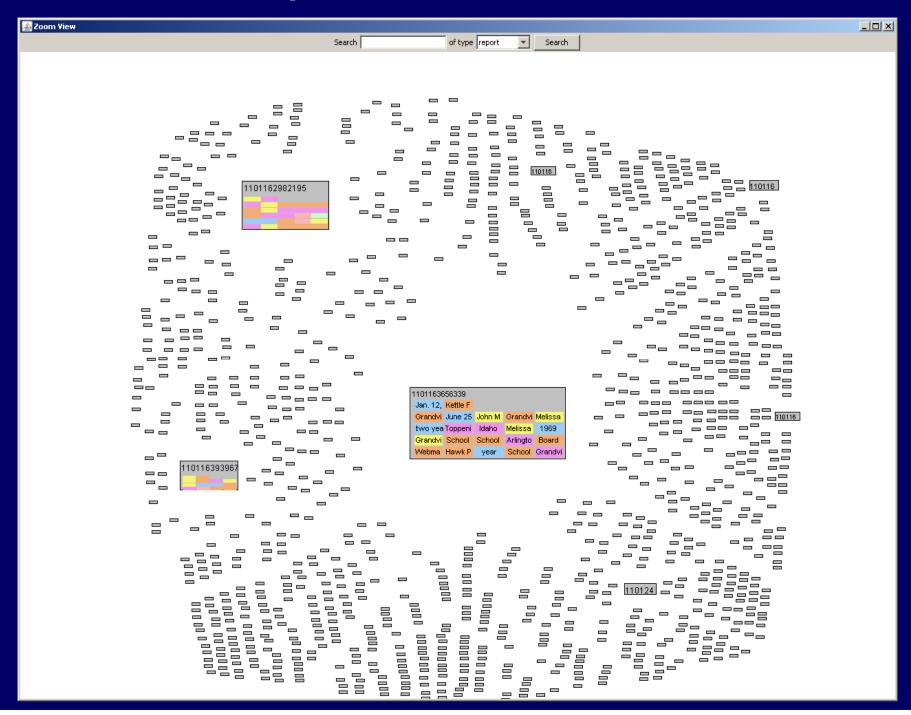
Java with ZVTM

- Most difficult problem: Movement of documents in response to zooming
 - Currently use SHriMP algorithm

Layout



Multiple Zoom Levels



Search

| Search Tamara% | of type person 💌 Search |
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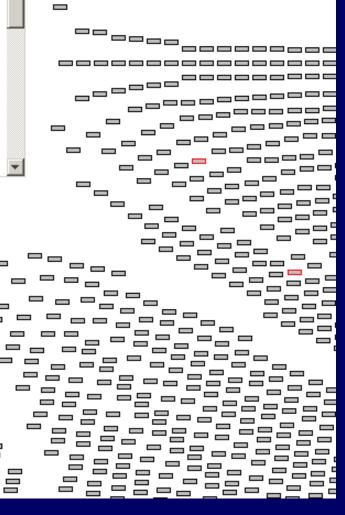
Search Results

1101162489451

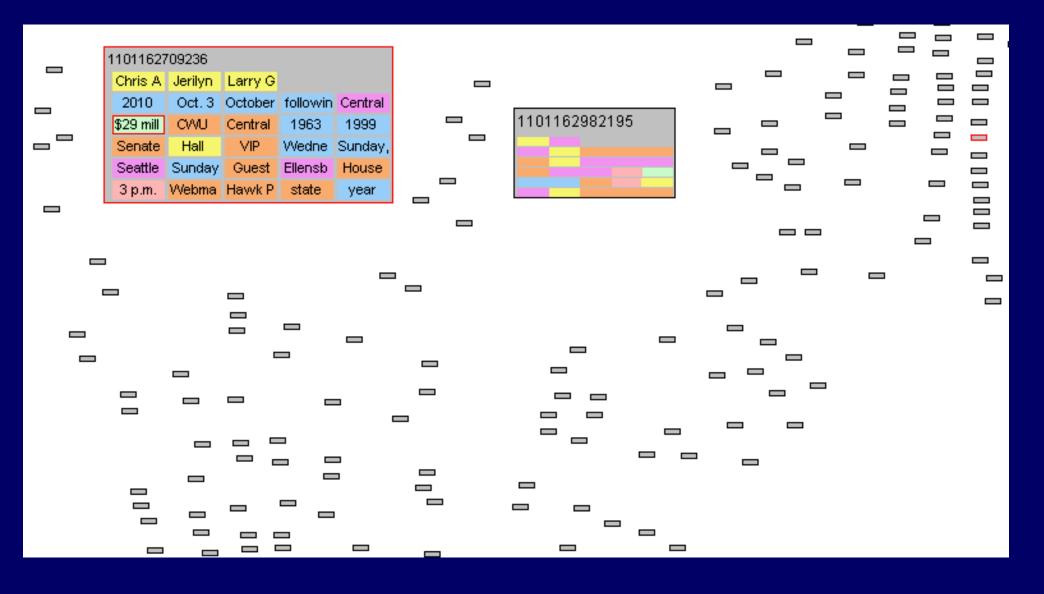
Passion for teaching earns **Steen state** accolades Story by: Jamie Smart

MABTON - One cannot listen to Tamara Steen talk and not be drawn into her web of enthusiasm. Whether she is talking about organizing candlelight poetry readings for her reluctant teenage poetry students or spending her lunch hours teaching a senior how to read. **Steen** oozes the passion she feels for her job as a Mabton High School English teacher. Her enthusiasm, as well as her novel approach to the dreaded, but necessary language arts, has earned the 22-**year** teaching veteran the **state**'s highest education honor. Late last week, Steen was named Washington's "Teacher of the Year." Steen, along with Mabton High School Principal Keith Morris and Mabton School District Superintendent Dr. Sandra Pasiero-Davis, traveled to **Seattle**, where **Steen** thought she was to be recognized along.

¹⁰⁰⁰⁰⁰⁰⁰



Brushing



To Do List

- Filtering
- Smarter layout algorithm
- Optional features:
 - Highlight through colour, position, size
 - Provide more flexible movement
 - Make spatial position meaningful