

Selective Semantic Zoom of a Document Collection

Dustin Dunsmuir

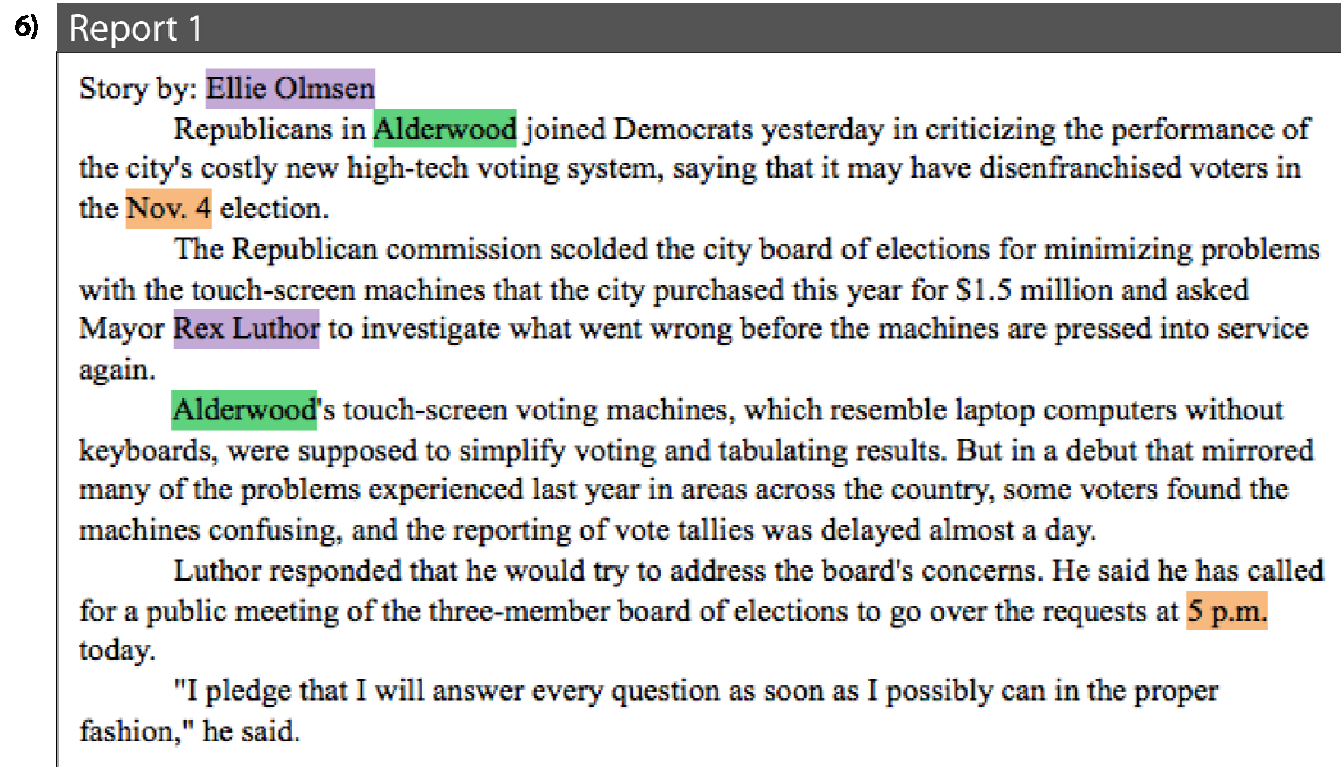
Domain and Problem

- 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)

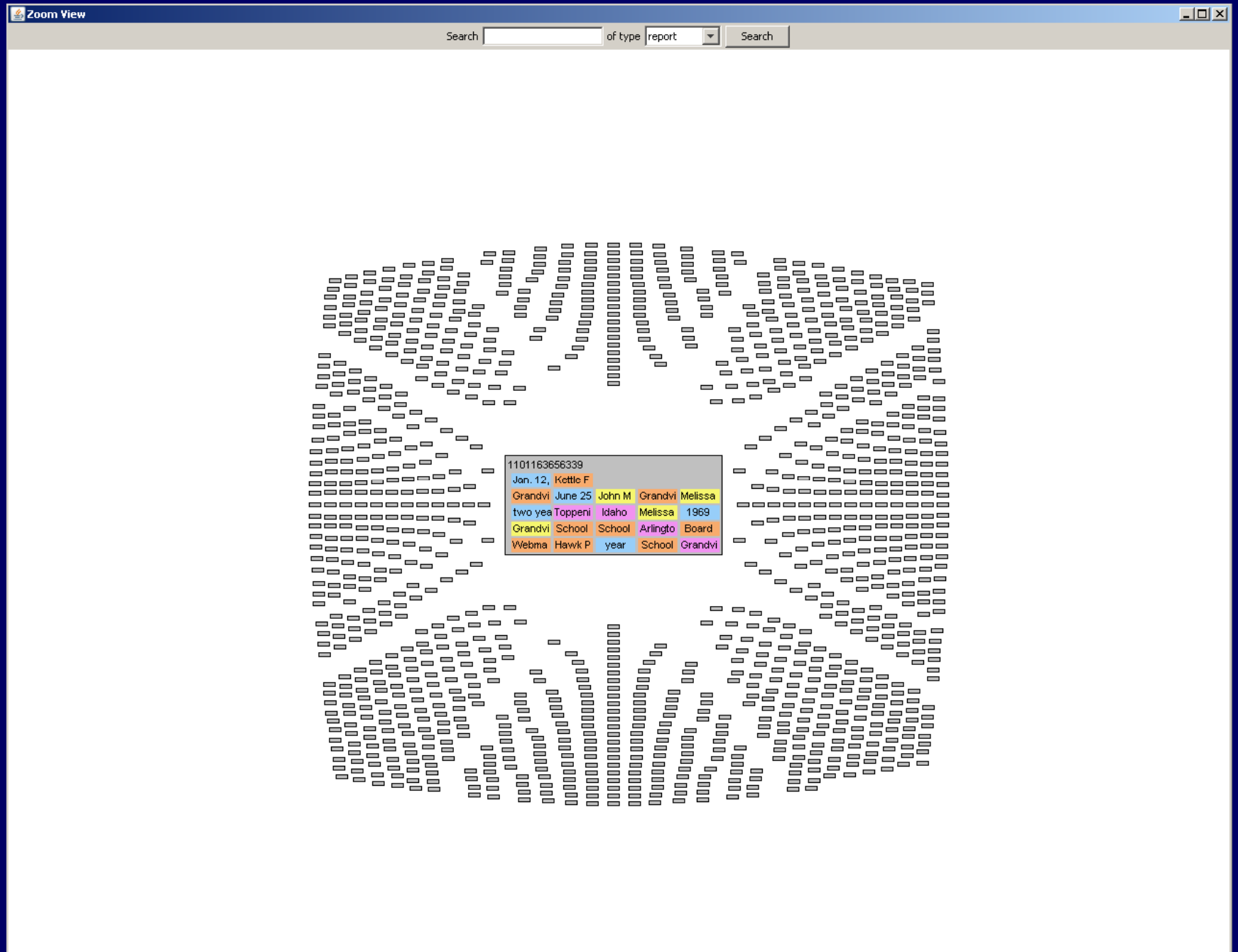
Semantic Zoom



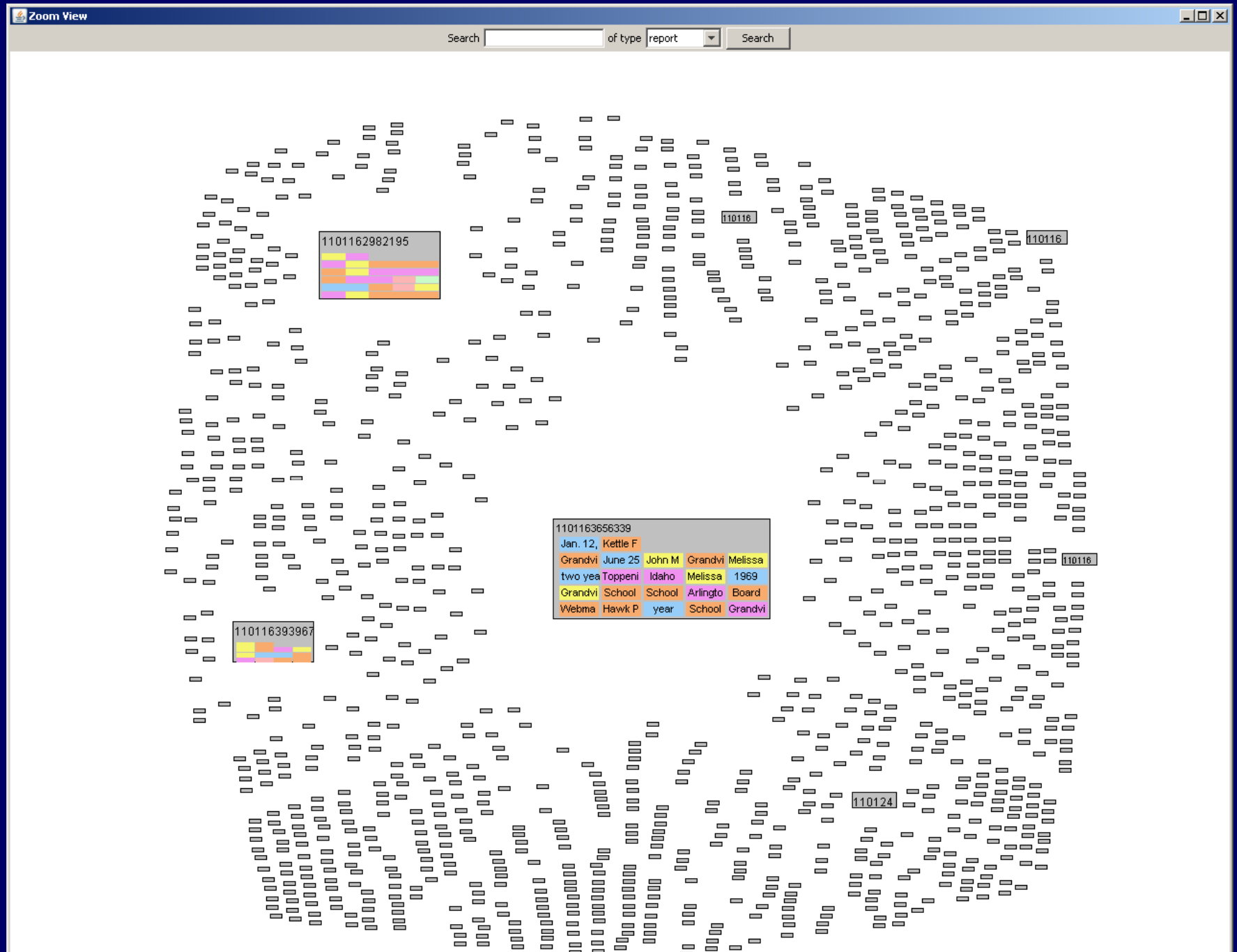
Implementation

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

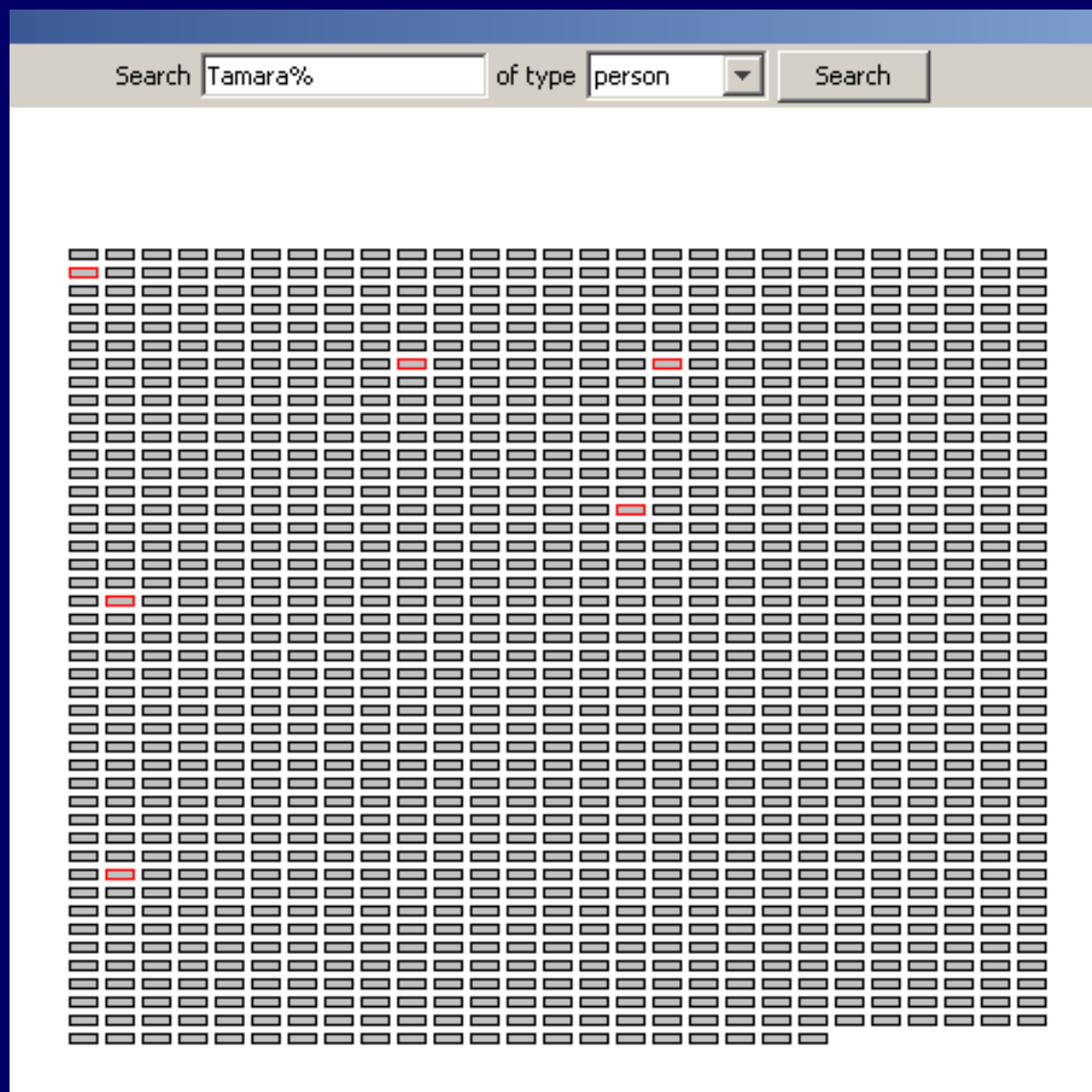
Layout



Multiple Zoom Levels



Search



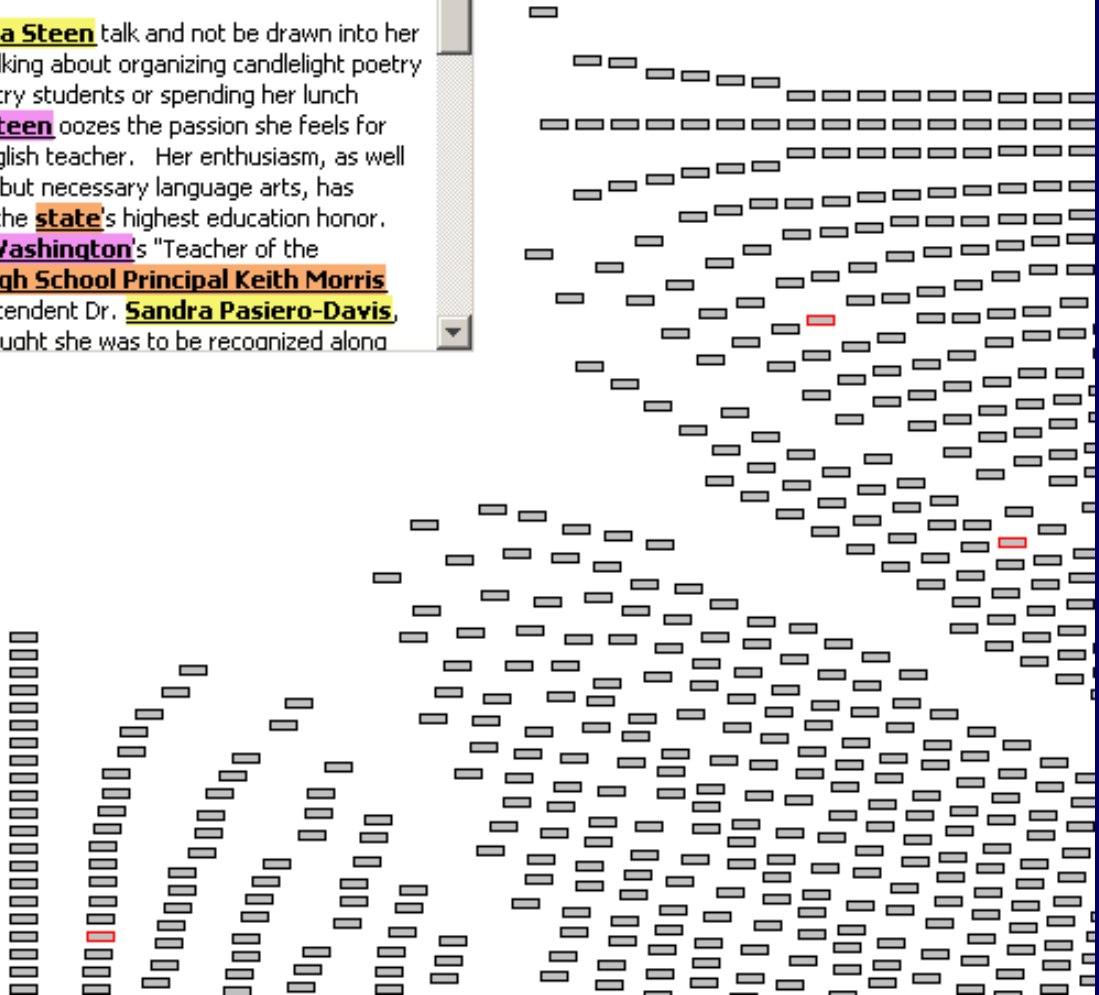
Search Results

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



Brushing

1101162709236

Chris A	Jerilyn	Larry G		
2010	Oct. 3	October	followin	Central
\$29 mill	CWU	Central	1963	1999
Senate	Hall	VIP	Wedne	Sunday,
Seattle	Sunday	Guest	Ellensb	House
3 p.m.	Webma	Hawk P	state	year

1101162982195

To Do List

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