

Academic Network Explorer

Zipeng Liu Dec 15 2015 For CPSC 547 Information Visualization

Scholarly Data

Millions of papers, authors
Citations
Co-authorships

Tasks I (Typical User)

- Who wrote this paper? When and where was it published?...
- Who are influential in this topic? And trending?
- Who works with this guy usually?
- What is he working on recently?

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Information (attributes, ambient objects) around a central object

Task II (Visualization)

- Locate an object (target known)
- Explore ambient objects of it
 - Present distributions of attributes



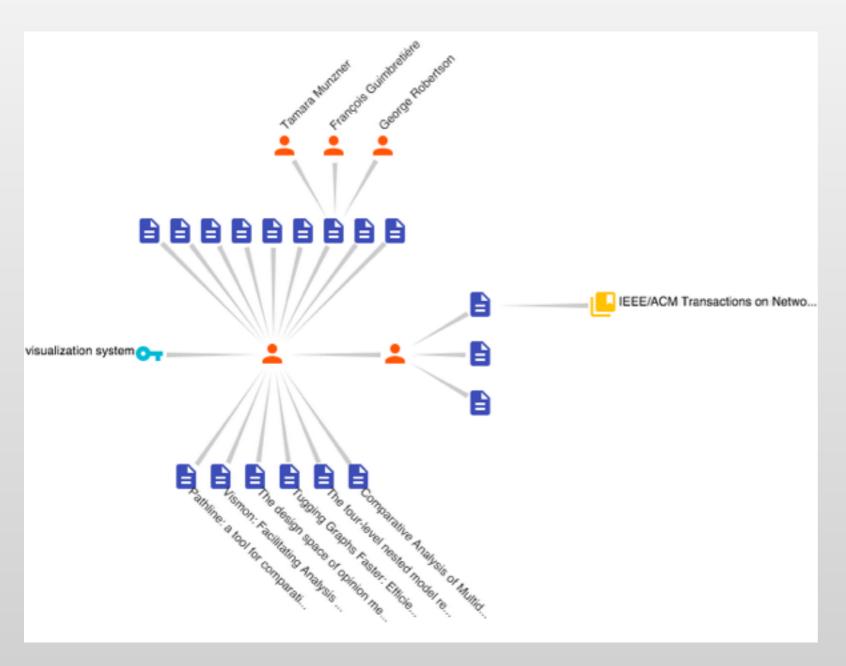


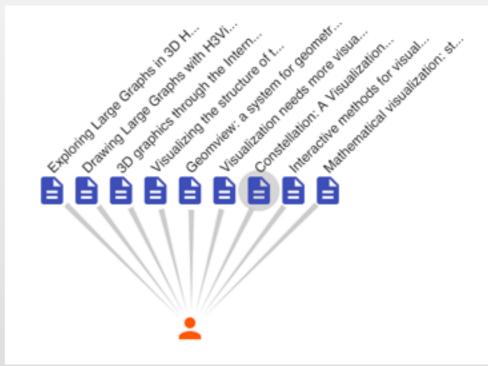






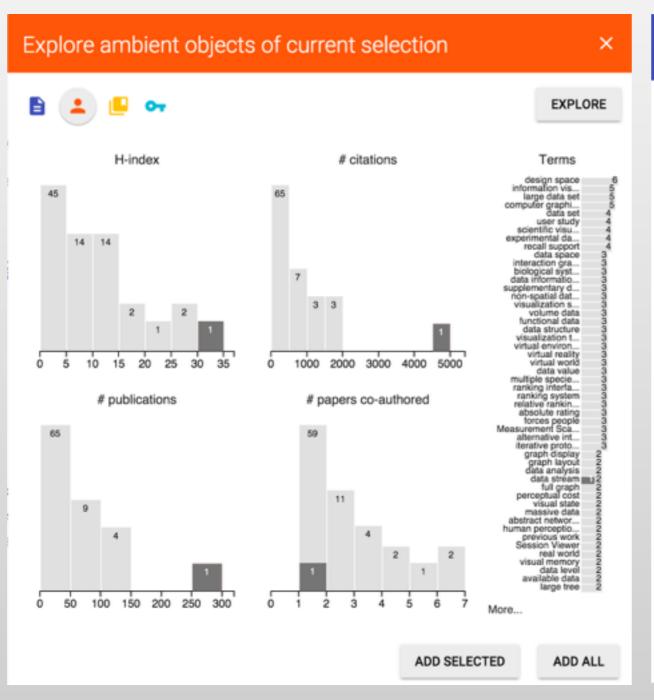
"Rectangular" Graph Layout

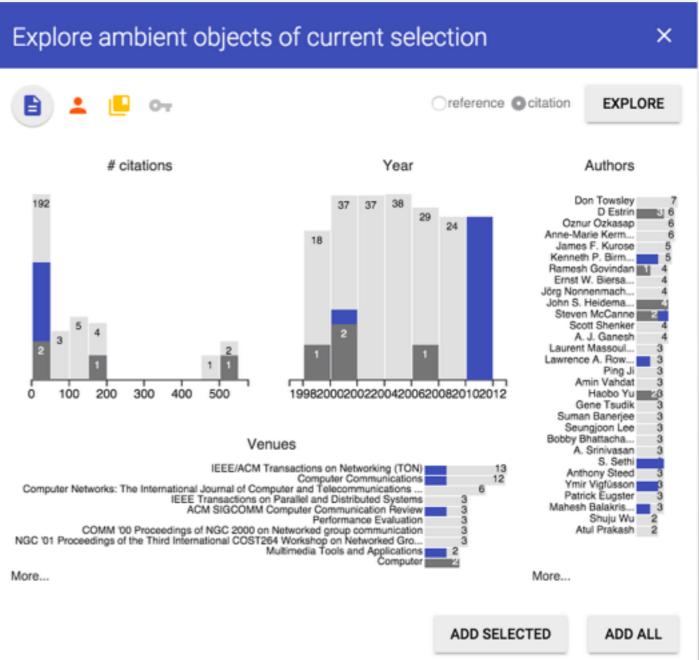




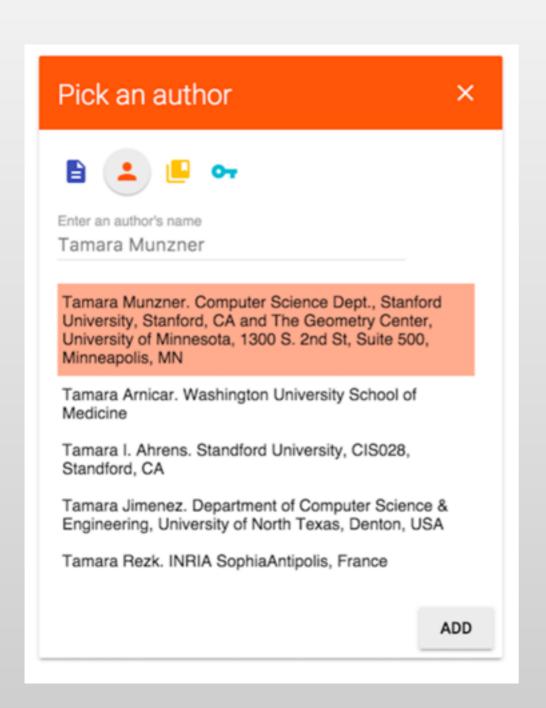
Also, "smart" labeling!

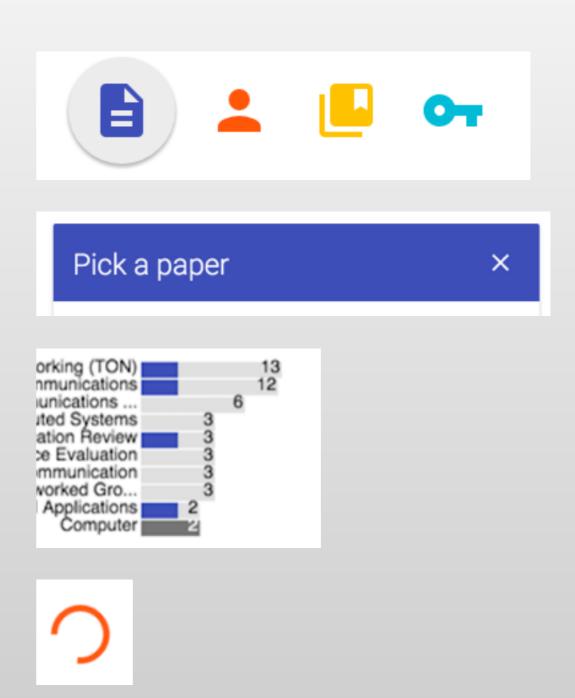
Ambient Objects





Material Design & Consistent Colors





Limitations

- No grand big pictures
- Exploration model: seed known, ...
- Scalability: histogram, layout
- Stay up for another night?



Conclusion

- Local network exploration from center to surroundings
- Learned a lot about thinking in the declarative (React*) way



Thank you

ADD SELECTED

ADD ALL