Academic Network Explorer

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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?

• …
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

* [https://facebook.github.io/react/index.html](https://facebook.github.io/react/index.html)
Thank you