

Scales and Methods of Engagement

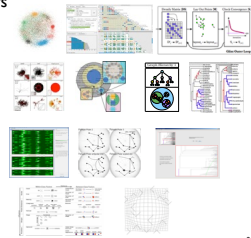
Tamara Munzner
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VA Tool Users and Universities Panel, CANVAS 2014 Workshop
 1 August 2014, Vancouver

<http://www.cs.ubc.ca/~tmm/talks.html#canvas14>

Mentoring individuals

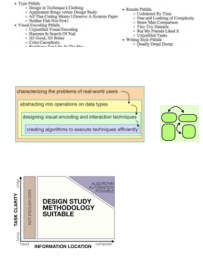
- grad students and postdocs in my group
 - prepare HQP for professor, high-level industry/lab jobs
 - produce research papers
 - techniques, systems
 - dimensionality reduction
 - graph drawing
 - focus+context
- evaluation
- models/taxonomies



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Researcher guidance: "meta" / how to papers

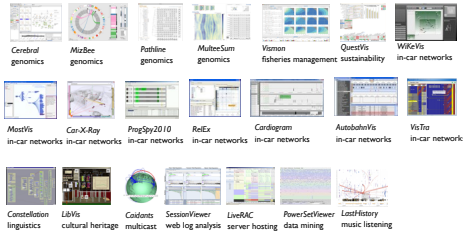
- papers process and pitfalls
- nested model for vis design and validation
 - revisited: blocks and guidelines
- design study methodology



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Design study methodology

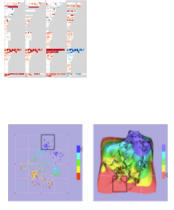
- lessons learned from 21 total (12 here), across many domains
- problem-driven work: what to do, what to avoid



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Practitioner guidance: "stop it" / how not to papers

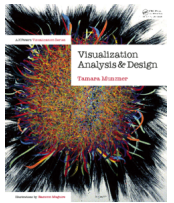
- guidance on scatterplot, dimensionality reduction choices
 - avoid 3D scatterplots for DR data
- 2D points vs 3D landscapes
 - avoid 3D landscapes
- empirical studies



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Growing the field: synthesis textbook

- analysis and design framework
 - teaching my own grad class
 - resource for others
 - support teaching by wider set
 - accelerate growth of field
 - 1998: very few courses
 - 2002: several
 - 2014: dozens
 - 2020: hundreds? thousands?...



Visualization Analysis and Design.
 Munzner. AK Peters Visualization Series,
 Taylor and Francis / CRC Press, to appear Oct 2014.

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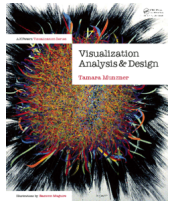
Past and Future

- scales of engagement
 - individuals
 - students in my course
 - research community
 - practitioner community
 - students worldwide
- methods of engagement with industry
 - direct collaboration with individuals at companies
 - Agilent, AT&T, Google, small startups
- my past: very research/academic centric
- my future: other/broader channels?...

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More Information

- these slides
<http://www.cs.ubc.ca/~tmm/talks.html#canvas14>
- papers, videos, software, talks, courses, mini-courses
<http://www.cs.ubc.ca/group/infovis>
<http://www.cs.ubc.ca/~tmm>
- book (to appear Oct 2014)
<http://www.cs.ubc.ca/~tmm/vadbook>



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