

Brief Bio and (PR)²: Problems & Pitches – Rants & Raves by *Joseph Cottam*

Self Introduction



Website: cs.indiana.edu/~jcottam/

Tool: cs.indiana.edu/~jcottam/stencil.xml

Bio:

Joseph Cottam received his doctorate from Indiana University in 2011. He is the designer and developer of the Stencil visualization system. His research focuses on expanding the applicability and improve the validity of visual analysis techniques by exploring and improving systems and tools for working with dynamic and static data sources. His current focus is on how combinators can inform visualization construction for expressing common idioms like coordinated multiple views and automatic guide generation.

P Joseph A. Cottam and Andrew Lumsdaine. Spatial autocorrelation-based information visualization evaluation. In *BELIV 2012: Beyond Time and Errors - Novel Evaluation Methods for Visualization*, Seattle, WA, October 2012. ACM.

Joseph A. Cottam, Andrew Lumsdaine, and Chris Weaver. Watch this: A taxonomy for dynamic data visualization. In *IEEE Conference on Visual Analytics Science and Technology (VAST)*, Seattle, WA, October 2012. IEEE.

Joseph A. Cottam, Suzanne Menzel, and Janet Greenblatt. Tutoring for retention. In *Proceedings of the 42nd ACM Technical Symposium on Computer Science Education, SIGCSE '11*, pages 213–218, New York, NY, USA, 2011. ACM.

J.A. Cottam and A. Lumsdaine. Automatic application of the data-state model in data-flow contexts. In *Information Visualisation (IV), 2010 14th International Conference*, pages 5 –10, 2010.

General Questions

1) What are your main interests in attending the workshop?

Tool design.

2) What are the tools or services you would like to share at the workshop?

Stencil.

3) Please list three features or functions of your tools or services that are most important for the users.

Composition. Abstraction. Streaming data.

4) What are the major concerns for the architect design of the tools and services?

Composition. Streaming data.

5) Are you aware of especially innovative approaches to plug-and-play feature where algorithms and plugins can be shared between different tools? If yes, please list down the approaches.

No.

6) What are the challenges in developing the tools and services?

Convincing people to try new techniques. Keeping up with all the different options.

7) Are you or your group working on any of these challenges? If yes, please explain.

No.

8) Does your development team contain volunteer developers? If yes, please explain how they are involved.

No.

9) What would you like to learn and achieve at the workshop?

See what other people are up to and learn how they achieve it. Find people that I can help with what I know/do.