the future of data and design ...
... in visualization research

@mattbrehmer
May 19 2015
what is **visualization research**?

technique-driven $\leftrightarrow$ problem-driven
what is visualization research?

**technique-driven** <-> **problem-driven**
technique-driven

developing techniques & algorithms

example: visualizing large document collections

what is visualization research?

technique-driven <-> problem-driven
problem-driven

external collaborations

real data, real use cases

example:
energy portfolios analysis

Matches, mismatches & methods: Multiple-view workflows for energy portfolio analysis. Brehmer, Ng, Tate, & Munzner. (in review)
current trends & the future of visualization research
lowering the bar
Lyra by Arvind Satyanarayan & Jeff Heer (2014)
idl.cs.washington.edu/projects/lyra
see also Jeff’s talk at openvisconf.com
**TimeLineCurator** by Johanna Fulda, Matt Brehmer, & Tamara Munzner (2015)
cs.ubc.ca/group/infovis/software/TimeLineCurator
visualization beyond the desktop
visualization beyond the desktop

Also see: “Death of the Desktop Workshop” at IEEE VIS 2014: beyond.wallviz.dk

“On Broadway” (2015)
Goddemeyer et al
on-broadway.nyc

Jansen et al (CHI ’12)
aviz.fr/trc
visualization literacy & data journalism
visualization literacy & data journalism

The New York Times
The Upshot
Vox
ProPublica
FiveThirtyEight
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