DataViz!

Tips, Tools, and How-tos
for Visualizing Your Data

#14NTCdataviz

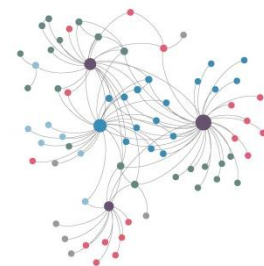@annkemery   @meansandrew   @j_morariu

Tools

All-Around Great Visualization

- **Excel** is a great tool for creating a wide variety of charts and graphs, and with a little customization, they can be beautiful! Tutorials: youtube.com/annkemery
  Dataviz Challenges: annkemery.com/tag/dataviz-challenge
- **Tableau & Tableau Public** tableausoftware.com web-based visualization. Tableau Public is free, but all the data you upload is publicly available—be careful with participant names and other personal information
- **ManyEyes** www-958.ibm.com/software/analytics/manyeyes free, web-based chart/graph tool
- **R** is a free, open source tool for data management, analysis, and visualizations (including static and interactive charts as well as dashboards). Full R resource list available at annkemery.com/wp-content/uploads/2013/10/handout1.pdf
- **d3** d3js.org is a JavaScript library for manipulating documents based on data (a great option for coders)

Social Network Maps

To learn more about social network analysis, check out Johanna Morariu's post: aea365.org/blog/?p=5689

- **NodeXL** nodexl.codeplex.com a free plug-in for Excel to collect and map network data. Get started with Johanna Morariu's 4-step tutorial: annkemery.com/morariu
- **Gephi** gephi.org is also a network map tool, and it can work with NodeXL to allow for further customization of network map visualizations

Mapping

- Editable Maps: presentationmagazine.com/editable-maps
- **CartoDB** cartodb.com mapping and analysis of geospatial data
- **GoogleFusionTables** tables.googlelabs.com for data management and visualization in the cloud
- **Color Brewer 2.0** colorbrewer2.org color advice for cartography

Word Clouds

- **Tagxedo** tagxedo.com and **Wordle** wordle.net are two free, web-based word cloud tools

Infographics

- **Infogram** infogr.am free, web-based infographic tool

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Color

- **Color Hex** colorhexa.com color information and color schemes
- **Color Oracle** colororacle.org color blindness simulator.
- **Color Palette Generator** degraeve.com/color-palette/ based off images
- **Design-Seeds** design-seeds.com Browse designer-quality color palettes
- **Instant Eyedropper** instant-eyedropper.com drag the eyedropper over colors to identify RGB codes, HEX codes, and more

Image Editors

- **Flickr Creative Commons** flickr.com/creativecommons free photos
- **GIMP** gimp.org Open Source image editor

Blog Posts

- "Data Visualization Techniques for Those Who Can't Draw" on Beth's Blog. Beth Kanter shares suggestions for getting started with dataviz. Blog post available at bit.ly/13SiQtx, and supplemental resources available at scoop.it/t/viz.

Podcasts

- Dataviz Extravaganza featuring Johanna Morariu and Ann Emery: Part 1 available at bit.ly/100zJCh, and Part 2 available at bit.ly/13SiraG.

Webinar Recordings

- "Information Visualization throughout the Evaluation Lifecycle" explores the visual side of evaluation, sharing approaches and examples of how to incorporate data and information visualization throughout the four stages of the evaluation life cycle: planning, data collection, analysis and reporting, and action and improvement. Webinar by Johanna Morariu and Veena Pankaj, directors of Innovation Network, Available atbit.ly/w8aHpw.

Books

- Online book: Data Journalism Handbook datajournalismhandbook.org/1.0/en/
- Designing with the Mind in Mind by Jeff Johnson
- The Principles of Design by Joshua David McClurg-Genevese
- The Visual Display of Quantitative Information by Edward Tufte