

Condensing the News: An Introduction to Data Visualization

A Skillshare Class by Nicholas Felton

A Handy List of Tools, Techniques, and Links — Organized by Lesson

Collecting Data

- Pen, Pencil, Highlighters
- Ruler
- Text Editor
- Internet (*tip: get text from online editions*)
- Spreadsheet - Apple Numbers, Excel, Google Docs
- Surveys - Google Forms

Exploring Data

- Spreadsheet - sorting, formulas, and graphing
- Word Frequency - writewords.org.uk/word_count.asp
- Database Queries - MySQL, Postgres
- Mapping - CartoDB.com

Extending Data

- Wikipedia - wikipedia.org
- GeoCoding - google.com/maps
- Article Edits - newsdiffs.org
- Content Analysis - alchemyapi.com
- Image Analysis - imagga.com
- Color Analysis - imagga.com | mkweb.bcgsc.ca/color-summarizer/?analyze

Tools for Layout

- Sketchpad, Pen, Pencil
- Adobe Illustrator
- Adobe InDesign

Tools for Visualizations

- Processing - processing.org
- D3 - d3js.org
- Adobe Illustrator
- Data Hero - datahero.com
- Tableau - tableau.com
- Raw - raw.densitydesign.org
- Filtergraph - filtergraph.com

Resources for Typography

- Hoefler - typography.com
- Commercial - commercialtype.com
- Kris Sowersby - klim.co.nz
- YouWorkForThem - youworkforthem.com
- Fontstand - fontstand.com
- [*About Face: Reviving the Rules of Typography*](#) (David Jury)

Resources for Color

- Color Brewer - colorbrewer2.org
- Tilemill tips - mapbox.com/tilemill/docs/guides/tipsfor-color/

More Resources

- Sample Processing sketches - github.com/feltron
- My favorite visualizations - feltron.tumblr.com
- Sha Hwang - pinterest.com/shashashasha

Makers

- Francesco Franchi - francescofranchi.com
- Jer Thorp - blprnt.com
- Moritz Stefaner - truth-and-beauty.net
- Ben Fry - Fathom - fathom.info
- Catalog Tree - catalogtree.net
- Pitch Interactive - pitchinteractive.com
- Carl Detorres - cdgd.com
- Stefanie Posavec - stefanieposavec.co.uk
- Kelli Anderson - kellianderson.com
- Gregor Aisch - driven-by-data.net

Additional Reading

- *Grid Systems: Principles of Organizing Type* (Kimberly Elam)
- *The Designer and the Grid* (Lucien E. Roberts and Julia Thrift)
- *The Elements of Typographic Style* (Robert Bringhurst)
- *How to Lie with Maps* (Mark Monmonier)
- *The Best American Infographics 2013* (Gareth Cook, ed.)
- *Semiology of Graphics: Diagrams, Networks, Maps* (Jacques Bertin)
- *The Visual Display of Quantitative Information* (Edward R. Tufte)
- *Learning Processing: A Beginner's Guide to Programming Images, Animation, and Interaction* (Daniel Shiffman)