**Visualization Resources**

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**Introduction**

This document is a collection of resources related to the design and development of visualization applications. This is particularly targeted to developers working in web and mobile solutions.

TODO – get this into a regular GitHub page.

**Latest**

Data Visualization with Javascript

<http://sathomas.me/jsdataviz/index.html>

vis.js - a dynamic, browser based visualization library.

<http://visjs.org/>

Sigma.js - a JavaScript library dedicated to network graph drawing

<http://sigmajs.org/>

Shiny - Easy web applications in R

<http://www.rstudio.com/shiny/>

Bokeh – Python interactive visualization library for large datasets

<http://bokeh.pydata.org/>

Hannah Fairfield – New York Times

<http://www.nytimes.com/interactive/2013/04/16/science/disease-overlap-in-elderly.html?_r=0>  
<http://topics.nytimes.com/top/reference/timestopics/people/f/hannah_fairfield/>

Big list of D3 examples

<http://christopheviau.com/d3list/>

Bret Victor

[http://worrydream.com/#](http://worrydream.com/)

Plot.ly

<https://plot.ly/plot>

jChartFX

[http://www.jchartfx.com](http://www.jchartfx.com/)

A Practical Introduction to Data Science

<http://blog.zipfianacademy.com/post/46864003608/a-practical-intro-to-data-science>

Vega -

<http://trifacta.github.com/vega/>

NVD3 - re-usable charts and chart components for d3.js without taking away the power that d3.js

<http://nvd3.org/>

Cubism.js

A D3 plugin for visualizing time series.

<http://square.github.com/cubism/>

Chart.js – easy client-side charts using canvas

<http://www.chartjs.org/>

<https://docs.google.com/a/corre.me/spreadsheet/ccc?key=0AqMEGBUNwXeHdHpQNlVuY29SUE5BSXVtS3JueGlNYVE#gid=0>

<http://biovisualize.github.com/d3visualization/>

jQuery Piety

<http://benpickles.github.com/peity/>

jQuery Sparklines

<http://omnipotent.net/jquery.sparkline/#s-about>

phpGrid

<http://phpgrid.com/>

phpChart

<http://phpchart.net/>

Flotr2

<http://humblesoftware.com/flotr2/>

Envision.js

<http://www.humblesoftware.com/envision>

Fnordmetric – real-time dashboards

<http://fnordmetric.io/>

Jim Vallandingham

<http://vallandingham.me/vis/>

HN - Tools for Data Visualization

<http://news.ycombinator.com/item?id=5054888>

I've been experimenting with the R/D3 setup as well and so far I really like it. Another thing that's great is that for any sort of traditional data visualization R has you covered, leaving D3 for what it's best at: custom and/or interactive visualization. Interestingly enough almost all my coding has been in the browser since I've been using Tributary [http://tributary.io/] for D3 prototyping and RStudio Server for R (which is amazing if you haven't tried it). Although I haven't used it yet, it's worth mentioning Shiny from the RStudio team http://www.rstudio.com/shiny/ which makes it pretty painless (so I hear) to create interactive R visualizations.

Tributary - experimental environment for rapidly prototyping visualization code.

<http://tributary.io/>

A Carefully Selected List of Recommended Tools

<http://selection.datavisualization.ch/>

News and knowledge resource for data visualization and infographics.

<http://datavisualization.ch/>

**Sites & Resources**

Information Dashboard Design

<http://www.amazon.com/Information-Dashboard-Design-Effective-Communication/dp/0596100167>

Learn Visualization

<http://vincebuffalo.org/2012/11/08/learn-visualization.html>

Ben Fry (book: Visualizing Data)

<http://benfry.com/>

<http://benfry.com/projects/>

Fathom Information Design (Ben Fry consultancy)

<http://fathom.info/>

Visuializing Data

<http://www.visualisingdata.com/>

Data Visualization: Modern Approaches

<http://www.smashingmagazine.com/2007/08/02/data-visualization-modern-approaches/>

Truth and Beauty - Moritz Stefaner

<http://well-formed-data.net/archives/687/truth-and-beauty>

Martin Krzywinski

<http://mkweb.bcgsc.ca/>

Flowing Data

<http://flowingdata.com/>

Well Formed Data

<http://well-formed-data.net/>

Graph Visualization in Javascript (discussion)

<http://stackoverflow.com/questions/7034/graph-visualization-code-in-javascript>

http://arborjs.org/

http://circos.ca/

http://code.google.com/p/flot/

http://www.graphdracula.net/

http://thejit.org/demos/

http://www.jqplot.com/

http://www.graphviz.org/Gallery.php

http://js-graph-it.sourceforge.net/

http://jsplumb.org/jquery/demo.html

**Tools**

D3.js

<http://d3js.org/>

WebGL Globe

<http://www.chromeexperiments.com/globe>

Graphite

Highly scalable real-time graphing

<http://graphite.wikidot.com/start>

Giraffe – a dashboard for Graphite

<http://kenhub.github.com/giraffe/#dashboard=Demo&timeFrame=1w>

Raphael.js

<http://raphaeljs.com/>

Tasseo

A real-time dashboard for Graphite

<https://github.com/obfuscurity/tasseo>

Crossfilter

<http://square.github.com/crossfilter/>

Rickshaw

JavaScript toolkit for creating interactive time series graphs

<http://shutterstock.github.com/rickshaw/>

Dygraphs

JavaScript library that produces interactive, zoomable charts of time series. It is designed to display dense data sets and enable users to explore and interpret them.

<http://dygraphs.com/>

D3

<http://mbostock.github.com/d3/>

xCharts

<http://tenxer.github.com/xcharts/>

<http://news.ycombinator.com/item?id=4880820>

Smile

Web widget for visualizing temporal data

<http://www.simile-widgets.org/timeline/>

Processing

<http://processing.org/>

Google Visualization API

<http://code.google.com/apis/chart/interactive/docs/gallery/annotatedtimeline.html>

Google Charts

<http://code.google.com/apis/chart/>

pChart – PHP

<http://pchart.sourceforge.net/>

20 Fresh JavaScript Data Visualization Libraries

<http://sixrevisions.com/javascript/20-fresh-javascript-data-visualization-libraries/>

Protovis

<http://mbostock.github.com/protovis/ex/>

Paper.js

<http://paper.js>

Morris.js

<http://oesmith.github.com/morris.js/>

Live Stats.js

<http://frasergraham.github.com/live_stats.js/>

Pandas – Python data analysis library

<http://pandas.pydata.org/index.html>

FF Chartwell – typeface for creating simple graphs

<https://www.fontfont.com/how-to-use-ff-chartwell>

ggplot2

<http://ggplot2.org/>

**Tutorials**

D3

Make Data Visualizations with D3.js

<http://www.dashingd3js.com/>

Creating Animations and Transitions With D3

<http://blog.visual.ly/creating-animations-and-transitions-with-d3-js/>

D3 Preso (use right arrow to progress)

<http://vogievetsky.github.com/IntroD3/#1>

D3 for Beginners

Part I - <http://www.youtube.com/watch?v=TT11gTQAbcU>

Part II - <http://www.youtube.com/watch?v=RXhucjpsNqA>

D3 Tutorials

<http://alignedleft.com/tutorials/d3/>

D3, Conceptually

<http://code.hazzens.com/d3tut/lesson_1.html>

Panning in D3

<http://computationallyendowed.com/blog/2013/01/21/bounded-panning-in-d3.html>

Other

Making Complex Data Simple Through Design

<http://www.duettoresearch.com/blog/making-complex-data-simple-through-design/>

**Examples**

Google Consumer Survey

<http://www.google.com/insights/consumersurveys/view?survey=bzmnn6ltiujd6&question=1&filter=gen%3AFemale%2C%2Cage%3A25-34&rw=1&grouping=inc>

Here is Today

<http://hereistoday.com/>

StatMilk

<http://statmilk.com/>

Impact of Major on Career Path

<http://web.williams.edu/Mathematics/devadoss/careerpath.html>

Wolfram|Alpha Personal Analytics for Facebook

<http://blog.stephenwolfram.com/2012/08/wolframalpha-personal-analytics-for-facebook/>

U.S. Small Business Friendliness

<http://www.thumbtack.com/survey#states>

Trulia SF Home Prices

<http://trends.truliablog.com/vis/pricerange-sf/>

Mapping with D3

<http://eyeseast.github.com/visible-data/2012/12/14/mapping-with-d3/>

Crossfilter

<http://square.github.com/crossfilter/>

State of the Internet

<http://www.onlineschools.org/state-of-the-internet/soti.html>

GE Data Visualization

<http://visualization.geblogs.com/>

<http://visualization.geblogs.com/visualization/kitchen/>

Feltron Annual Report

<http://feltron.com/>

<http://feltron.com/ar07_01.html>

Productivity Future Vision

<http://www.youtube.com/watch?v=a6cNdhOKwi0&hd=1>

<http://www.youtube.com/user/officevideos#p/u/1/t5X2PxtvMsU>

Univ. of Indiana – lives and careers of arts majors (Flash)

<http://snaap.indiana.edu/snaapshot/>

Animated Bezier Curves

<http://www.jasondavies.com/animated-bezier/>

Visualizing Device Utilization

<http://dtrace.org/blogs/brendan/2011/12/18/visualizing-device-utilization/>

A visual explanation of Fisher–Yates shuffle

<http://bost.ocks.org/mike/shuffle/>

Over 1000 D3.js Examples and Demos

<http://techslides.com/over-1000-d3-js-examples-and-demos/>

Atlas of Cyberspace

<http://www.kitchin.org/atlas/contents.html>