

## Resource Guide to Accompany A Picture's Worth a Thousand Numbers

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Improving Data, Improving Outcomes  
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### The goals of the session are to explore:

1. The “why’s, what’s, and how’s” of visualizing data;
2. Ways that some states are displaying data;
3. No-cost, low-cost, and higher-end resources for data visualization; and
4. If there is interest in establishing a community of practice around data visualization.

**PLEASE NOTE:** Be cautious about opening any links provided by others, including those in this document, unless you are using dependable virus scanning software for your browser and computer.

### Examples of Data Visualization Shared During the Session

- State proportional funnel charts <http://leadership-2013.events.tadnet.org/uploads/1801/download>
- The Entire History of the World in One Chart  
[http://www.slate.com/blogs/the\\_vault/2013/08/12/the\\_1931\\_histomap\\_the\\_entire\\_history\\_of\\_the\\_world\\_distilled\\_into\\_a\\_single.html](http://www.slate.com/blogs/the_vault/2013/08/12/the_1931_histomap_the_entire_history_of_the_world_distilled_into_a_single.html)
- Colorado SchoolView Growth Model <http://www.schoolview.org/ColoradoGrowthModel.asp>
- Infographic: A Story of Preschool Services in Colorado <http://www.cde.state.co.us/cpp/datavisualization1.htm>
- Map of Substance Use Disorder Treatment Providers, Denver Metro Area - Data.colorado.gov  
<https://data.colorado.gov/Human-Services/Substance-Use-Disorder-Treatment-Providers-Denver-/k488-8sj7>
- Pattern checking: <http://birth23.org/files/DV/DVCOSFScoresDiffs.pdf>
- Paper Reports <http://www.birth23.org/aboutb23/annualdata/>
- Interactive charts <http://www.birth23.org/aboutb23/enrollment/dataviz/>
- Data.gov: <http://www.data.gov/>
- MSDE Public Website of State Performance Plan Results: <http://mdideareport.org>
- Early Intervention Colorado Program Performance Profiles:  
<http://www.eicolorado.org/index.cfm?fuseaction=stats.main>
- Desired Results *access* project Web page: <http://draccess.org/>

## Sample Free or Low-Cost Applications Related to Data Visualization

Visual.ly: <http://visual.ly/>

Turn Your Website's Google Analytics Report into an Infographic: <http://blog.visual.ly/turn-your-websites-google-analytics-report-into-an-infographic/>

Bubbl.us: <https://bubbl.us>

Infogr.am: <http://infogr.am/>

Easelly beta: <http://www.easel.ly/>

Chartle.net: <http://www.chartle.net/>

Gliffy: <http://www.gliffy.com/>

Pie Chart Tricks: <http://pubs.logicalexpressions.com/pub0009/LPMArticle.asp?ID=471>

Tag Galaxy: <http://taggalaxy.de/>

Tagxedo: <http://www.tagxedo.com/>

SmartDraw: <http://www.smartdraw.com/>

Target map: <http://www.targetmap.com>

Juice labs Chart Chooser: <http://labs.juiceanalytics.com/chartchooser/index.html>

Chart Suggestions: [http://www.extremerepresentation.com/uploads/images/choosing\\_a\\_good\\_chart.jpg](http://www.extremerepresentation.com/uploads/images/choosing_a_good_chart.jpg)

About the Deprecation of Gadgets in Google Spreadsheets: <https://support.google.com/drive/answer/2791335>

Google Drive <https://drive.google.com/>

Google Public Data Explorer: <http://www.google.com/publicdata/home>

Open Data Kit (ODK): <http://opendatakit.org/>

Tableau: <http://www.tableausoftware.com>

Many Eyes: [http://www-958.ibm.com/software/data/cognos/manyeyes/page/create\\_visualization.html](http://www-958.ibm.com/software/data/cognos/manyeyes/page/create_visualization.html)

NODEXL: <http://nodexl.codeplex.com/>

Daytum: <http://daytum.com/>

Spotzi: <http://www.spotzi.com/>

Oomfo: <http://oomfo.com/>

Cacoo: <http://cacoo.com/>

Simple Diagrams: <http://www.simplediagrams.com/home>

Creately: <http://creatly.com/>

Gliffy: <http://www.gliffy.com/prodcomparison.shtml>

Presenter: <http://www.ewcpresenter.com>

Venngage: <https://venngage.com/>

My.origramy: <http://my.origramy.com/index.html?startmeup=1>

Lucidchart: <https://www.lucidchart.com/>

Duarte: <https://www.duarteshop.com/diagrams.html>

Make Your Own Infographic: <http://www.wildapricot.com/blogs/newsblog/2010/05/25/make-your-own-infographic#>

PowerPoint: Create an Infographic: <http://iconlogic.blogs.com/weblog/2012/09/powerpoint-create-an-infographic.html>

Vizalzer: <http://vizalzer.co/index/>

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

Animoto: <http://animoto.com/>

Prezi: <http://prezi.com/>

Batch.geo: <http://batchgeo.com/>

Spicy Nodes: <http://www.spicynodes.org/>

ChartsBin: <http://chartsbin.com/>

Google Fusion Tables: <https://developers.google.com/fusiontables/>

Hohli: <http://hohli.com/>

Piktochart: <http://piktochart.com/>

Protovis: <http://mbostock.github.io/protovis/>

Statsilk: <http://www.statsilk.com/>

VIDI: <http://www.dataviz.org/>

#### Even More: Lists from others of Free or Low-Cost Applications that can be Useful for Data Visualization

- American Evaluation **Association** Data Visualization & **Reporting TIG DVR Websites and Tools:** <http://comm.eval.org/DataVisualizationandReporting/TIGResources/Websitescombined/>
- American Evaluation Association Data Visualization & Reporting TIG: <http://comm.eval.org/datavisualizationandreporting/DataVisualizationandReporting/Home/>
- Five Graph Databases: [http://www.readwriteweb.com/cloud/2011/04/5-graph-databases-to-consider.php?utm\\_source=feedburner&utm\\_medium=feed&utm\\_campaign=Feed%3A+readwriteweb+%28ReadWriteWeb%29](http://www.readwriteweb.com/cloud/2011/04/5-graph-databases-to-consider.php?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+readwriteweb+%28ReadWriteWeb%29)
- Visualize Everything: 32 Free Tools To Create Different Diagrams: <http://www.1stwebdesigner.com/freebies/free-online-tools-create-diagrams/>
- 10 Awesome Free Tools To Make Infographics: <http://www.makeuseof.com/tag/awesome-free-tools-infographics/>
- Top 10 Sites for Creating a Chart or Graph: <http://www.techlearning.com/Default.aspx?tabid=67&EntryId=3794>
- 5 Unbeatable Types of Infographic + Free Tools to Create Them: <http://www.searchenginejournal.com/5-unbeatable-types-of-infographic-free-tools-to-create-them/>
- 5 Amazing Tools to Create Your Own Infographics: <http://techchai.com/2010/12/03/685/>

- 5 Tools For Creating Your Own Infographics: [http://readwrite.com/2013/06/10/5-tools-for-creating-your-own-infographics?utm\\_source=feedburner&utm\\_medium=feed&utm\\_campaign=Feed:+readwriteweb+%28ReadWriteWeb%29&utm\\_content=Google+Reader#awesm=~ogjaWUKuLjQuLD](http://readwrite.com/2013/06/10/5-tools-for-creating-your-own-infographics?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed:+readwriteweb+%28ReadWriteWeb%29&utm_content=Google+Reader#awesm=~ogjaWUKuLjQuLD)
- Seven Tools for Creating Data Visualizations: [http://www.freetech4teachers.com/2012/01/seven-tools-for-creating-data.html#.UiTV8D\\_y18F](http://www.freetech4teachers.com/2012/01/seven-tools-for-creating-data.html#.UiTV8D_y18F)
- A List Of Mind mapping, Flow Chart Tools, & Graphic Organizers: <http://larryferlazzo.edublogs.org/2009/02/09/not-the-best-but-a-list-of-mindmapping-flow-chart-tools-graphic-organizers/>
- The Best Resources For Creating Infographics: <http://larryferlazzo.edublogs.org/2011/01/11/the-best-resources-for-creating-infographics/>
- The Best Sites That Show Statistics By Reducing The World & The U.S. To 100 People: <http://larryferlazzo.edublogs.org/2010/04/27/the-best-sites-that-show-statistics-by-reducing-the-world-the-u-s-to-100-people/>
- Free online tools for visualization and infographics: <http://www.slideshare.net/kgude/free-visual-tools-snd-2012-cleveland-presentation>
- The top 20 data visualisation tools: <http://www.netmagazine.com/features/top-20-data-visualisation-tools>
- The 20 best tools for data visualization: <http://www.creativeblog.com/design-tools/data-visualization-712402>
- Data Visualization: 20+ Useful Tools and Resources: <http://www.hongkiat.com/blog/data-visualization-tools-resources/>

### Some General Information on Data Visualization

- Data-Information-Knowledge-Wisdom <http://www.systems-thinking.org/dikw/dikw.htm>
- Data Visualization Zoo <http://queue.acm.org/detail.cfm?id=1805128>
- The 8-and-a-half Habits of Effective Infographic Designers <http://epicgraphic.com/category/the-principles-of-data-visualisation/>
- David McCandless: The beauty of data visualization: [http://www.ted.com/talks/david\\_mccandless\\_the\\_beauty\\_of\\_data\\_visualization.html](http://www.ted.com/talks/david_mccandless_the_beauty_of_data_visualization.html)
- Hans Rosling: The best stats you've ever seen: [http://www.ted.com/talks/hans\\_rosling\\_shows\\_the\\_best\\_stats\\_you\\_ve\\_ever\\_seen.html](http://www.ted.com/talks/hans_rosling_shows_the_best_stats_you_ve_ever_seen.html)
- Vimeo Data Visualization Channel: <http://vimeo.com/channels/datavisualization>
- Information is Beautiful: <http://www.informationisbeautiful.net/>
- Edward Tufte: <http://www.edwardtufte.com/tufte/index>
- Wow vs. Ah-ha: Artists and Practitioners in Data Visualization: <http://smartdatacollective.com/juiceanalytics/37881/wow-vs-ah-ha-artists-and-practitioners-data-visualization>
- The Anatomy Of An Infographic: 5 Steps To Create A Powerful Visual: <http://spyrestudios.com/the-anatomy-of-an-infographic-5-steps-to-create-a-powerful-visual/>
- How Much Data Is That?: <http://www.jameshuggins.com/h/tek1/how-big.htm>

- 10 Data Visualization Lessons: <http://www.youtube.com/watch?v=gPra1TtuDlo>
- Quantitative information poorly designed for communication, and proposed solutions to improve them: <http://www.perceptualedge.com/examples.php>

### EXTRA FUN! Interesting Examples of Data Visualization

<http://mozy.com/infographics/the-past-present-and-future-of-data-storage/>

<http://flowingdata.com/>

<http://epicgraphic.com>

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

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

<http://chartporn.org/>

[http://www.100people.org/statistics\\_detailed\\_statistics.php](http://www.100people.org/statistics_detailed_statistics.php)

<http://www.toby-ng.com/graphic-design/the-world-of-100/>

<http://www.binsworld.com/100/eng/main.html>

<http://m.theatlanticwire.com/technology/2011/07/few-rules-making-homemade-infographics/39918/>

<http://blog.visual.ly/12-great-visualizations-that-made-history/>

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

<http://www.youtube.com/watch?v=LrxalYXXBfi>

<http://www.youtube.com/watch?v=V87I10yMIb4&feature=youtu.be>

<http://www.chronozoom.com/#/t55>

<http://villevivante.ch/>

<http://www.coolinfographics.com/blog/2012/4/2/jer-thorp-make-data-more-human.html>

<http://youtu.be/-q6aA5qdCzU>

<http://larryferlazzo.edublogs.org/2012/06/10/a-collection-of-new-interactive-infographics/>

<http://www.elibrosen.com/civilwar/>

<http://datacenter.kidscount.org/databook/2012/DataWheel.aspx>

<http://www.youtube.com/watch?v=02LzKH19-uo>

<http://www.wimp.com/morphingmap/>

<http://junkcharts.typepad.com>