

Choose your chart by the type of data you have

	Big number ¹	Icon array ²	Pie chart	Bar/column chart	Side-by-side column chart	Slope graph ³	Back-to-back bar chart ⁴	Dot plot ⁵	Small multiples ⁶	Column chart with benchmark ⁷	Combo chart ⁸	Stacked bar/column chart	Number and icon	Histogram ⁹	Map	Scatterplot	Diagram	Line chart	Deviating bar chart	Do not visualize
Single number	X	X	X	X																
Comparison					X	X	X	X	X											
Beating a benchmark										X	X									
Survey results			X	X			X		X			X	X							
Parts of a whole			X									X		X	X					
Correlations																X	X			X
Change over time						X		X				X						X	X	

Adapted from Evergreen, S. D. H. (2017). *Effective data visualization: The right chart for the right data*.

Data Visualization – Select Resources

Books

Evergreen, S. (2017). *Effective data visualization : the right chart for the right data*. Los Angeles: SAGE.

Lupi, G., & Posavec, S. (2016). *Dear Data*. New York, NY: Princeton Architectural Press.

Tufte, E. R. (1983). *The visual display of quantitative information*. Cheshire, Conn.: Graphics Press.

Research Articles

Cleveland, W. S., & McGill, R. (1984). Graphical Perception: Theory, Experimentation, and Application to the Development of Graphical Methods. *Journal of the American Statistical Association*, 79(387), 531–554.

<http://doi.org/http://doi.org/10.1080/01621459.1984.10478080>

Rougier, N. P., Droettboom, M., Bourne, P. E., Isola, P., & Sunkavalli, S. (2014). Ten Simple Rules for Better Figures. *PLoS Computational Biology*, 10(9), e1003833.

<http://doi.org/http://doi.org/10.1371/journal.pcbi.1003833>

Blogs

WTF Visualizations. <http://viz.wtf/>

Yau, N. (n.d.). FlowingData. <http://flowingdata.com/>

Blog Posts

Emery, A. K. (2015). When Pie Charts Are Okay (Seriously). <http://annkemery.com/pie-chart-guidelines/>

Yau, N. (2015). Real Chart Rules to Follow. <https://flowingdata.com/2015/08/11/real-chart-rules-to-follow/>