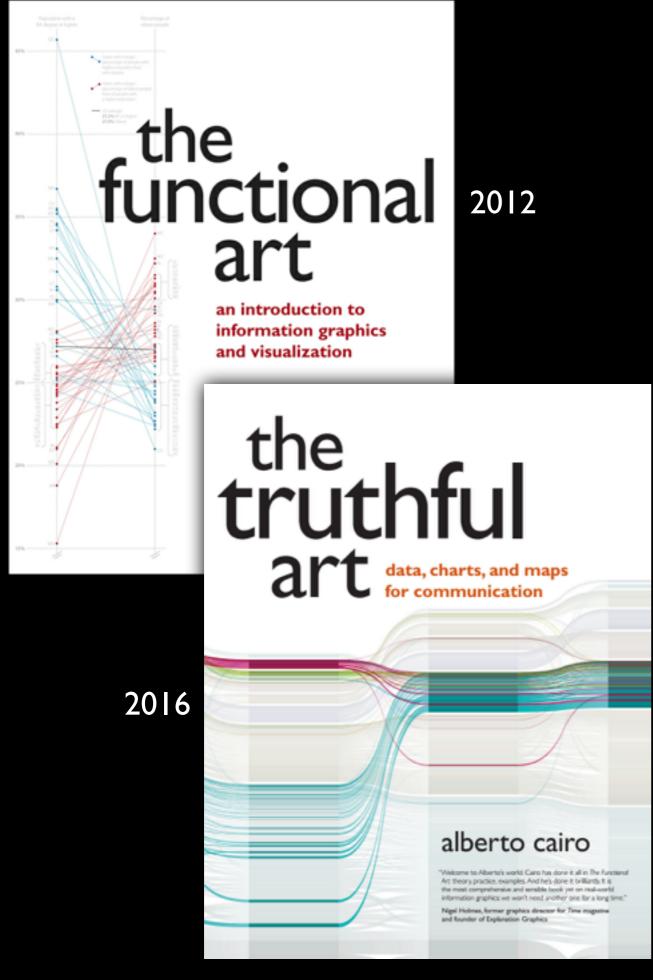
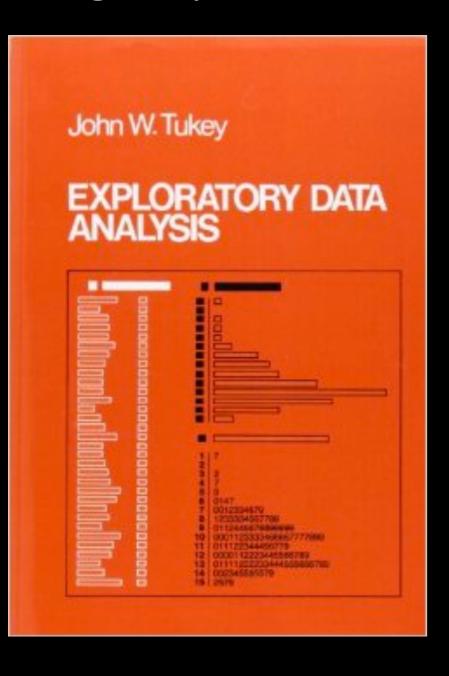
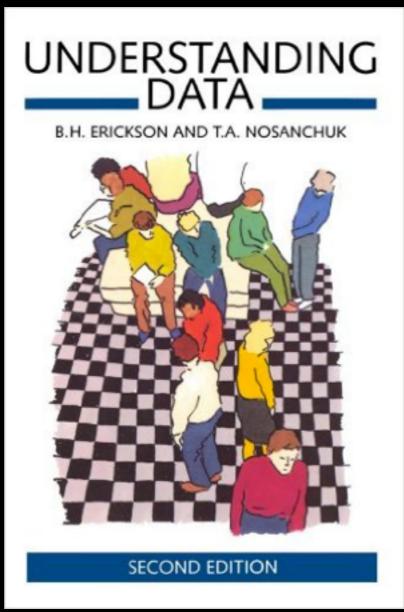
Visualization for exploration

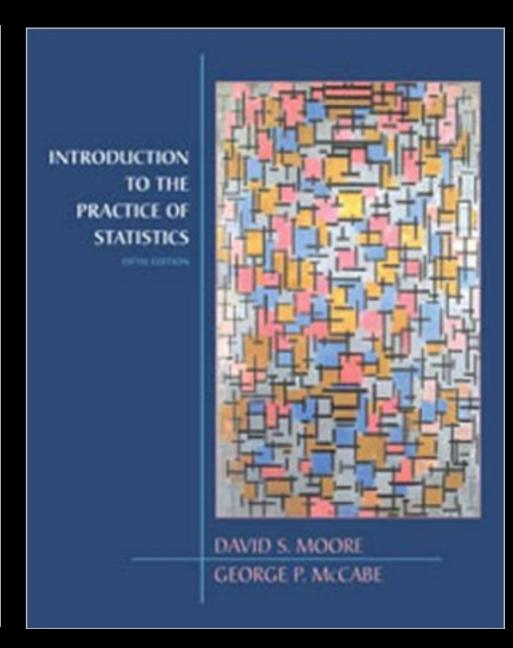


A visualization is a graphical representation designed to enable exploration, analysis, or communication

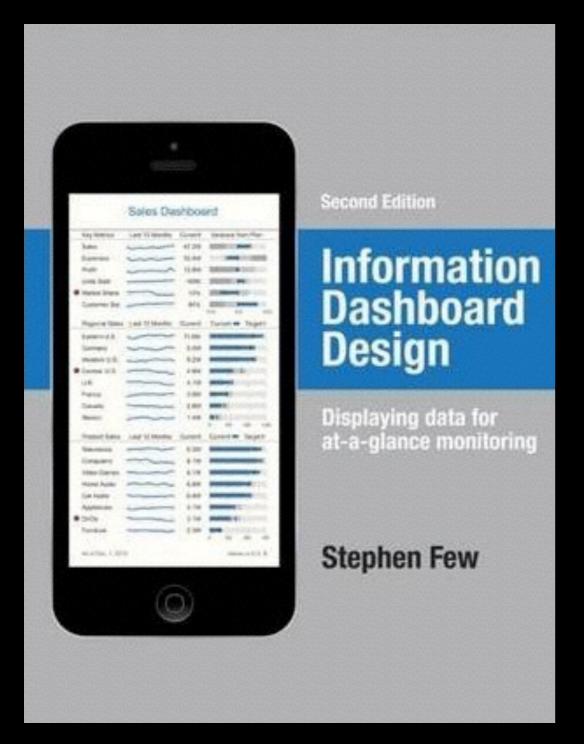
A specific branch of visualization, called data visualization, was originally created for exploration and analysis

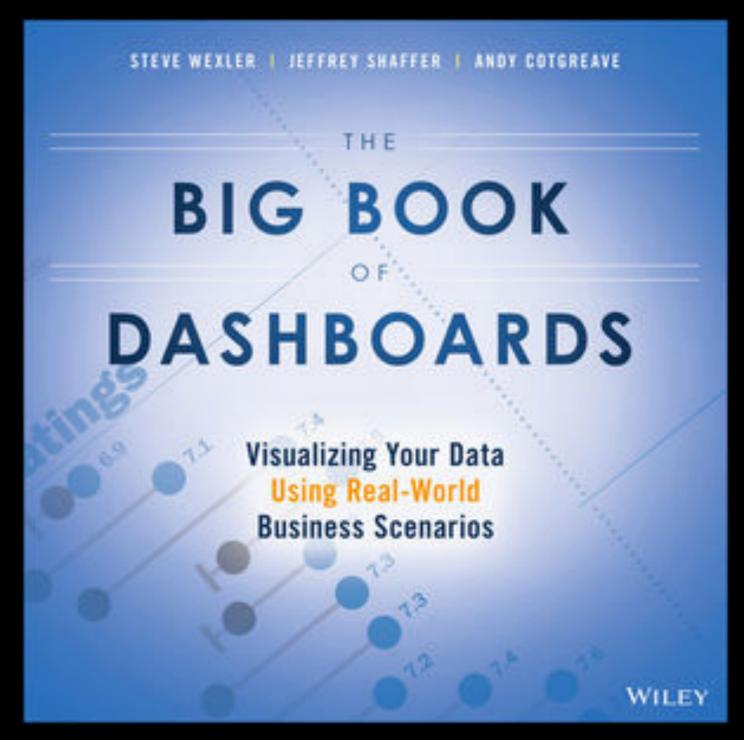




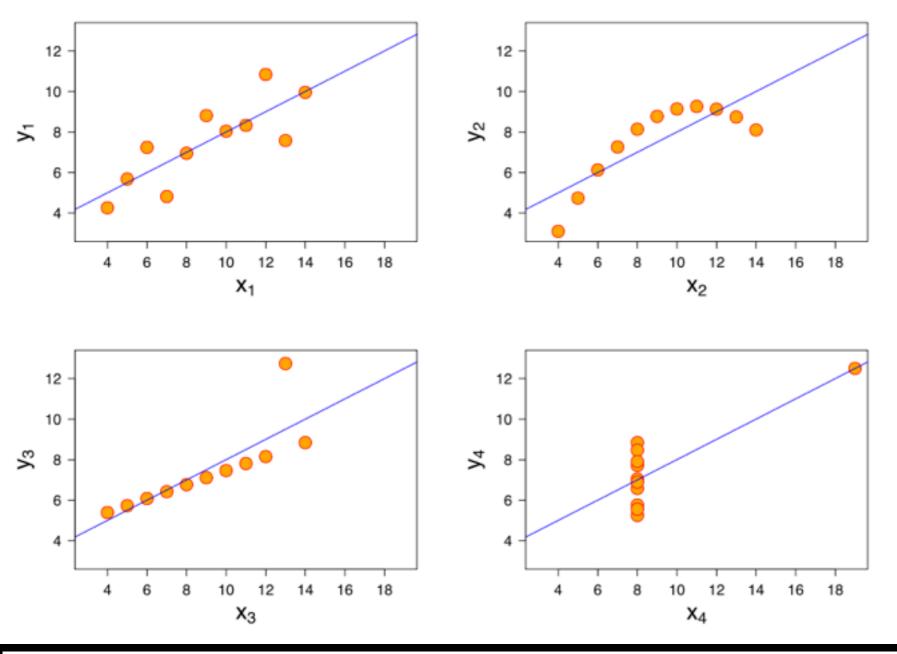


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http://www.wiley.com/WileyCDA/
WileyTitle/productCd-1119282713.html



For all four datasets:

Property	Value
Mean of x in each case	9 (exact)
Sample variance of x in each case	11 (exact)
Mean of y in each case	7.50 (to 2 decimal places)
Sample variance of y in each case	4.122 or 4.127 (to 3 decimal places)
Correlation between x and y in each case	0.816 (to 3 decimal places)
Linear regression line in each case	y = 3.00 + 0.500x (to 2 and 3 decimal places, respectively)

Francis Anscombe's Quartet
https://en.wikipedia.org/wiki/Anscombe%27s_quartet

http://robertgrantstats.co.uk/drawmydata.html

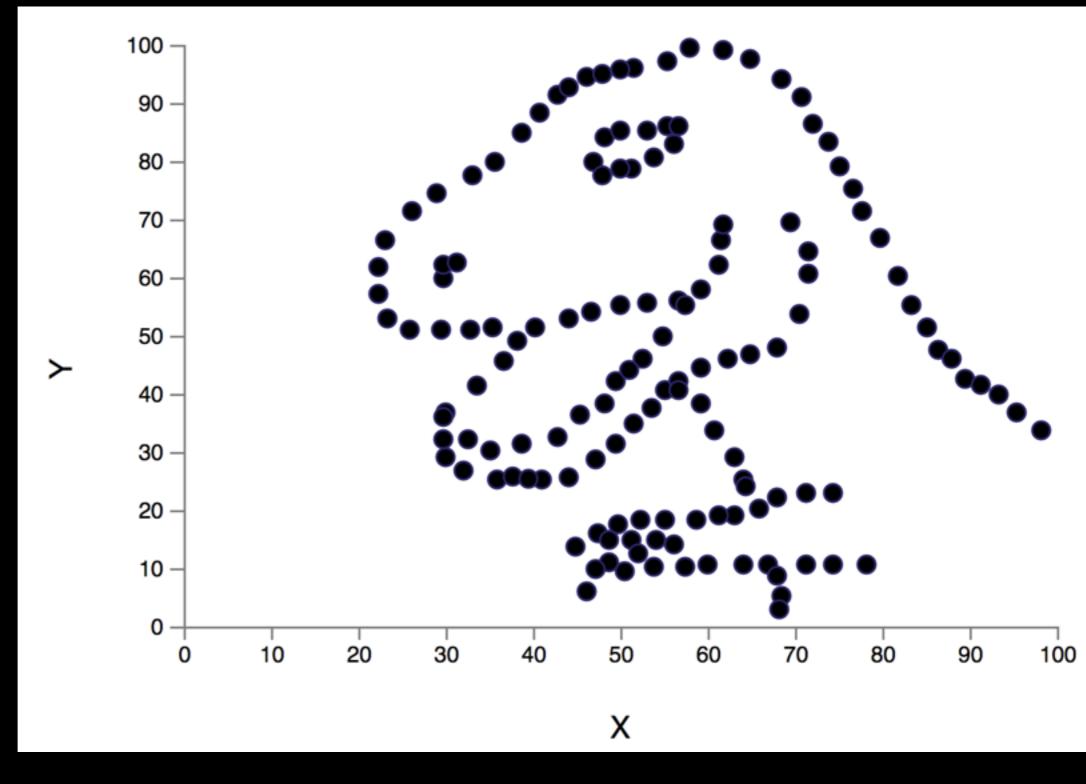
N = 142; X mean = 54.2633; X SD = 16.7651; Y mean = 47.8323; Y SD = 26.9354; Pearson correlation = -0.0645

55.3846	97.1795
51.5385	96.0256
46.1538	94.4872
42.8205	91.4103
40.7692	88.3333
38.7179	84.8718
35.641	79.8718
33.0769	77.5641
28.9744	74.4872
26.1538	71.4103
23.0769	66.4103
22.3077	61.7949
22.3077	57.1795
23.3333	52.9487
25.8974	51.0256
29.4872	51.0256
32.8205	51.0256
35.3846	51.4103
40.2564	51.4103

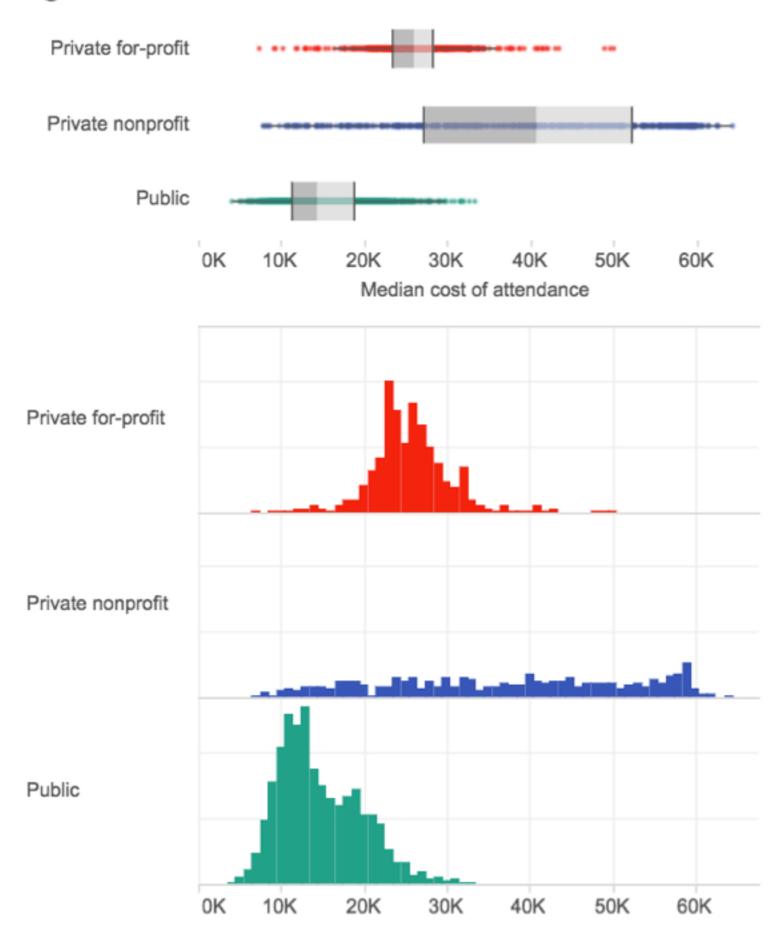
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High-level cost



Alberto Cairo • University of Miami • www.thefunctionalart.com • Twitter: @albertocairo

Box plot

