Data Visualization for Developers

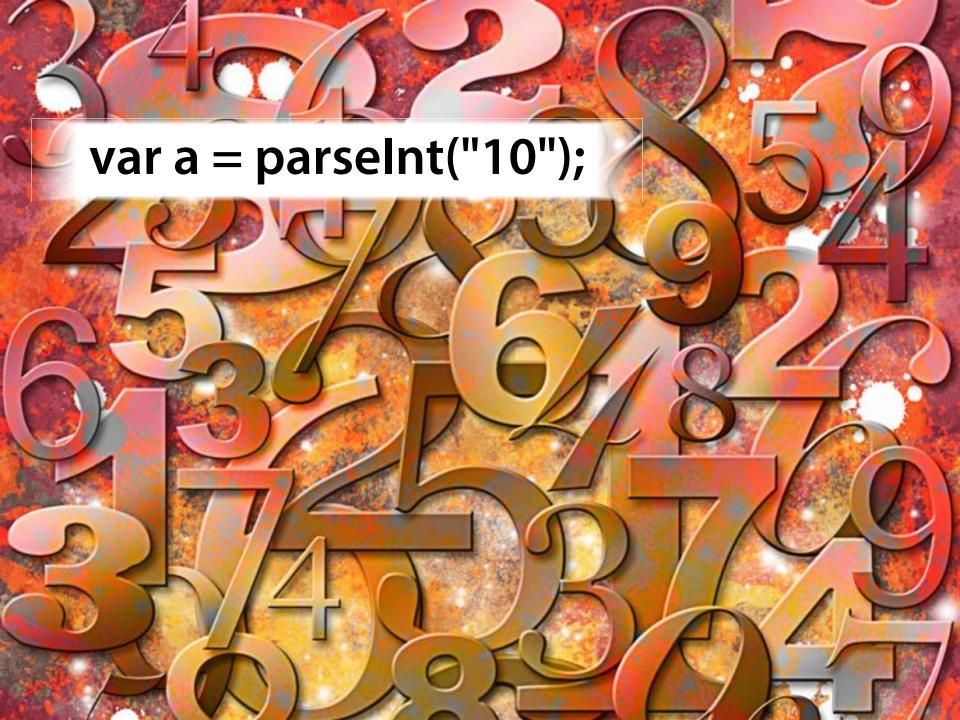
Introduction

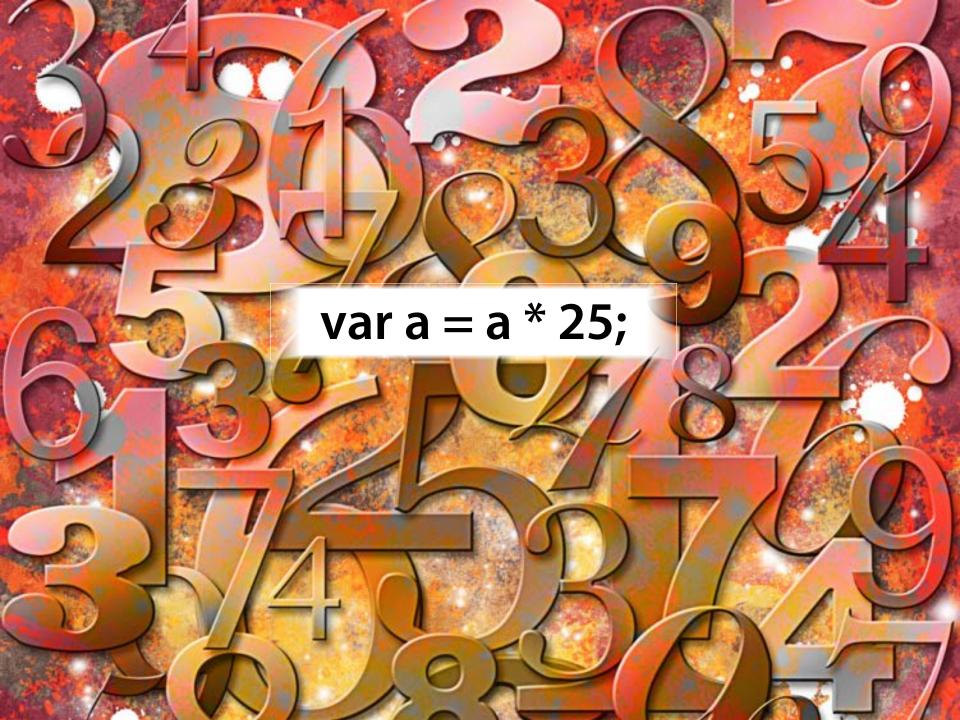
Dan Appleman danappleman.com @danappleman

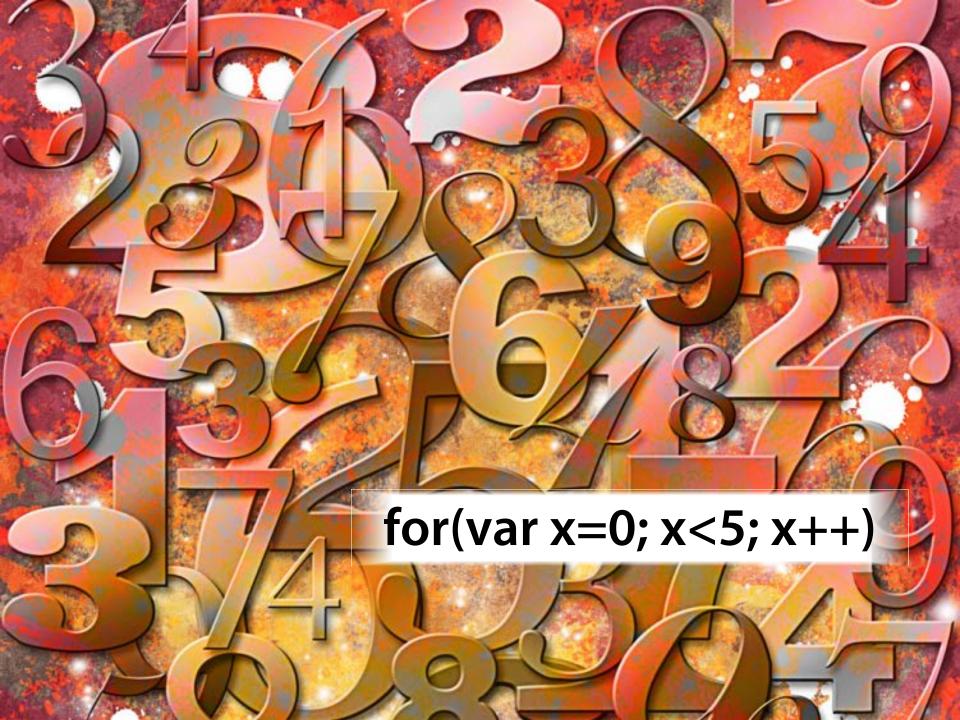


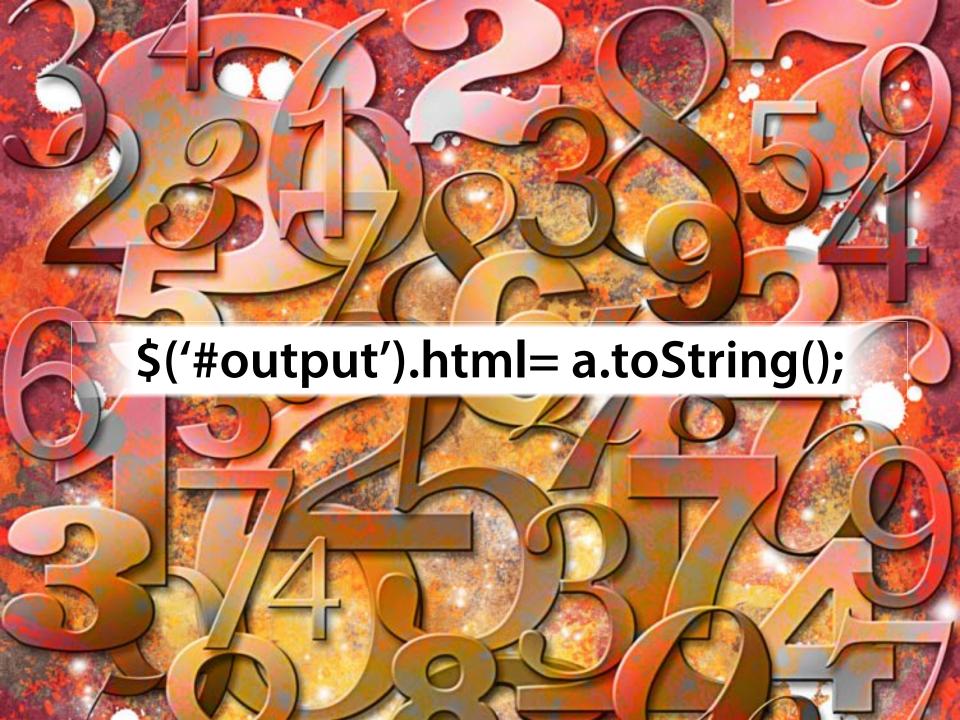








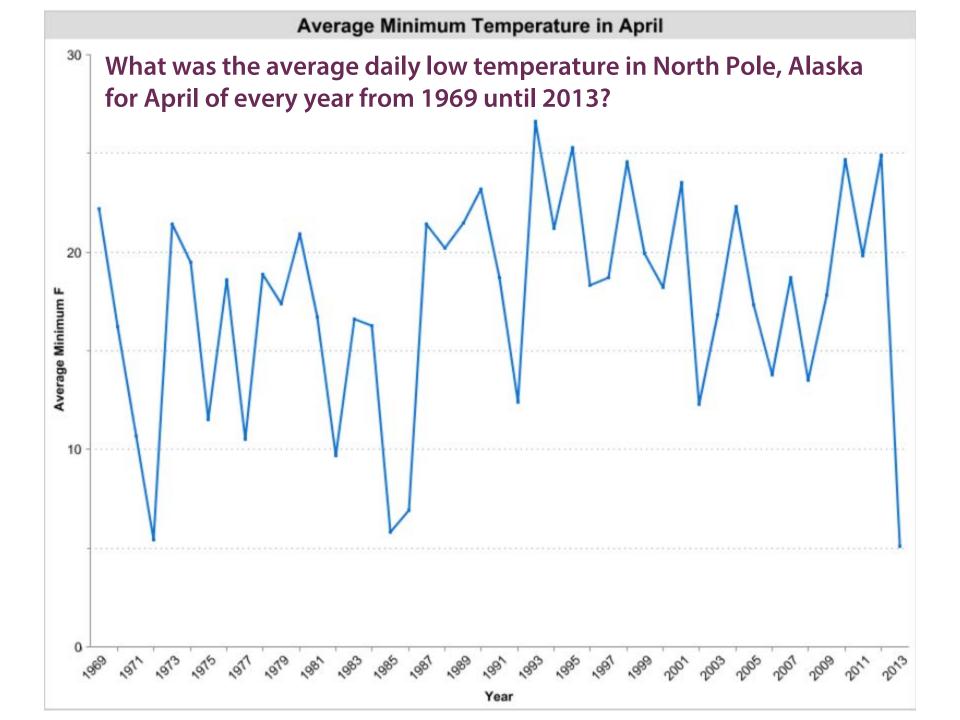




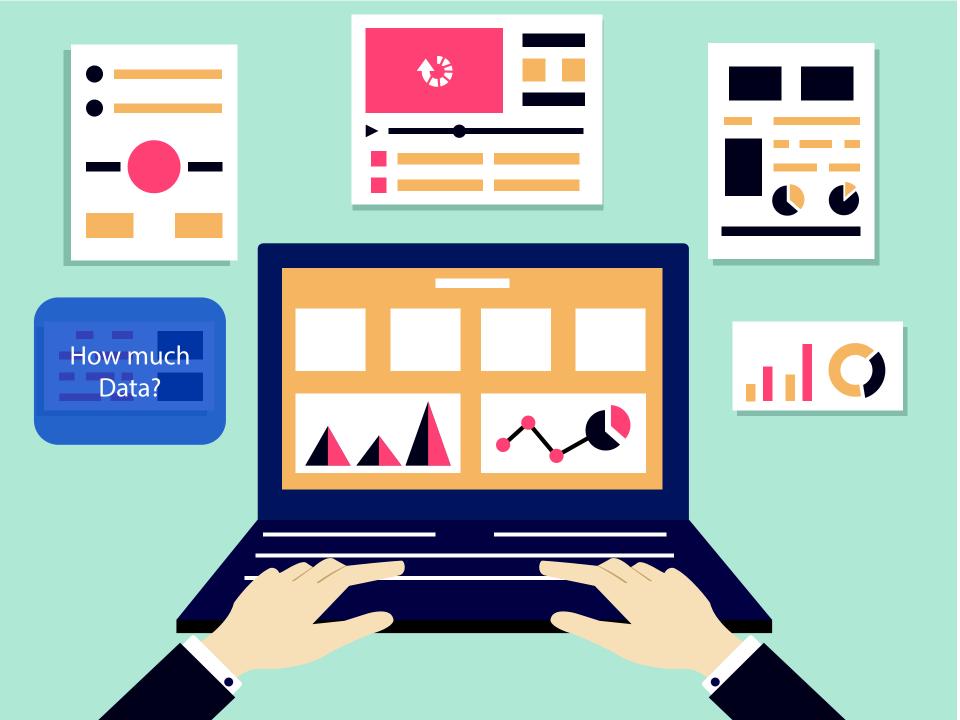
Month Starting †	Minimum F	Maximum F	Average F
1/1/1969	-37.80	-23.40	-29.40
2/1/1969	-22.40	5.60	-8.40
3/1/1969	-4.50	26.20	10.80
4/1/1969	22.20	48.80	35.50
5/1/1969	32.70	60.60	46.70
6/1/1969	43.40	78.50	61.00
7/1/1969	46.00	68.30	57.20
8/1/1969	34.50	60.20	47.40
9/1/1969	30.60	46.90	38.80
10/1/1969	18.40	43.80	31.10
11/1/1969	-14.70	6.80	-4.20
12/1/1969	-9.80	13.50	1.90
1/1/1970	-28.10	-7.50	-17.80
2/1/1970	-5.80	19.10	6.70
3/1/1970	6.00	33.80	19.90
4/1/1970	16.20	41.20	28.70
5/1/1970	33.20	62.70	48.00
6/1/1970	41.80	67.50	54.70
7/1/1970	46.50	72.30	59.40
8/1/1970	42.00	64.70	53.40
9/1/1970	30.60	46.90	38.80
10/1/1970	8.70	24.60	16.60
11/1/1970	-4.20	16.90	6.40
12/1/1970	-24.90	-4.10	-14.50
1/1/1971	-45.30	-24.30	-34.80
2/1/1971	-19.20	5.40	-6.90
3/1/1971	-17.80	9.50	-4.20
4/1/1971	10.70	37.10	23.80
5/1/1971	31.10	57.10	44.10
6/1/1971	43.70	75.40	59.70
7/1/1971	45.40	72.50	59.20
8/1/1971	42.90	65.40	54.40
9/1/1971	33.40	52 90	43.30

What was the average daily low temperature in North Pole, Alaska for October, 1970?

8.7 F (-12.9 C)

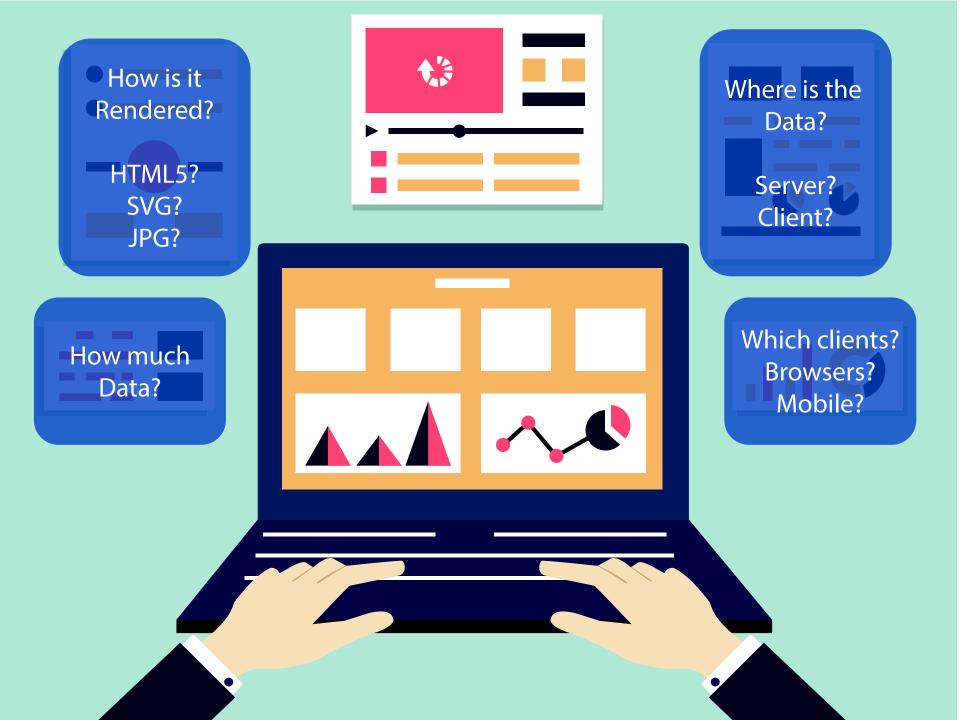






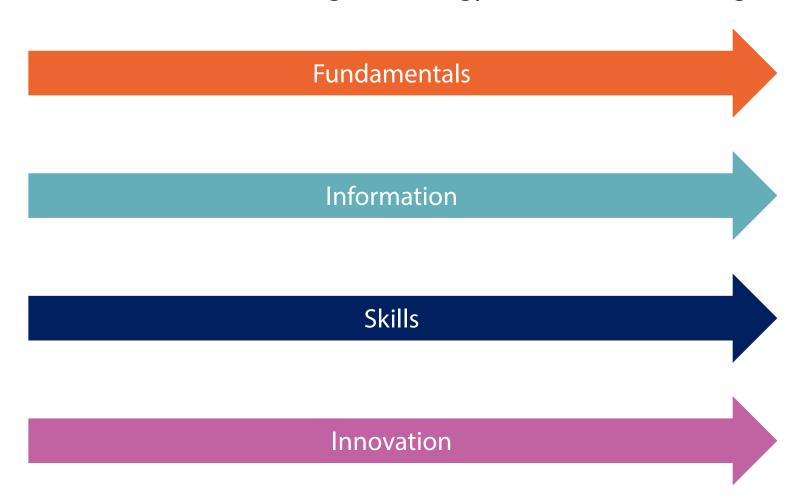






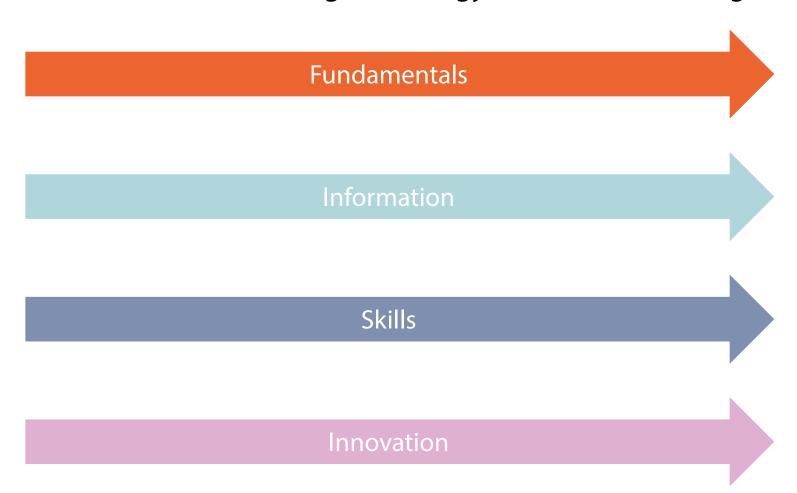
Learning Paths

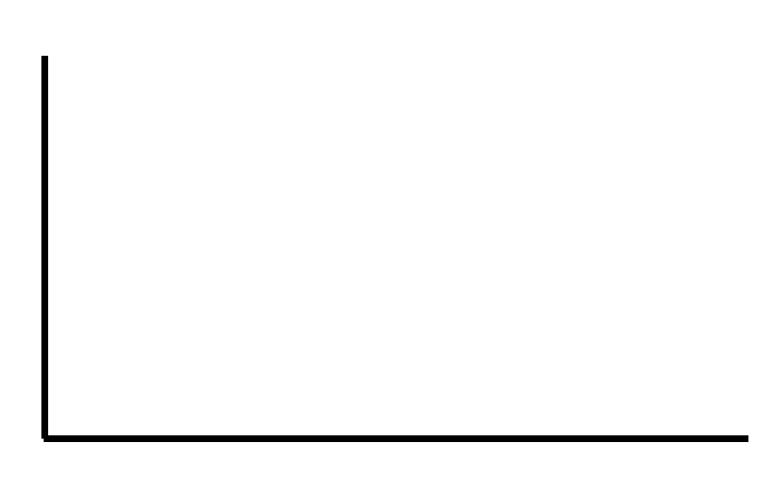
From the course "Learning Technology in the Information Age"



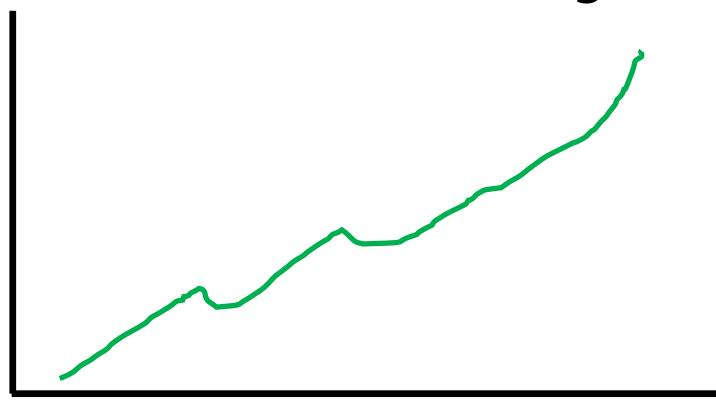
Learning Paths

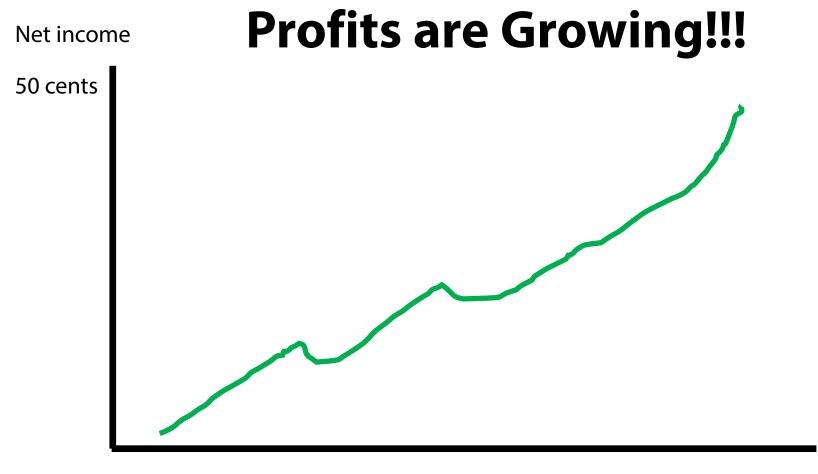
From the course "Learning Technology in the Information Age"





Profits are Growing!!!





Years

Uh.. Spoke too soon...

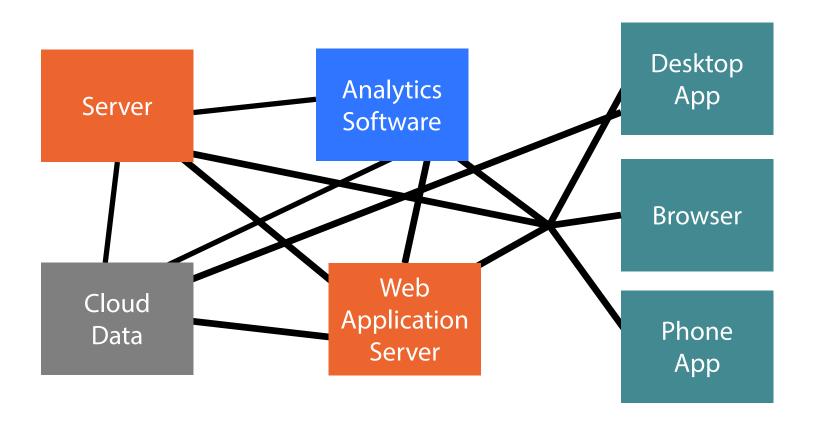
5

Server

Analytics Software Desktop App

Cloud Data Web Application Server Browser

Phone App

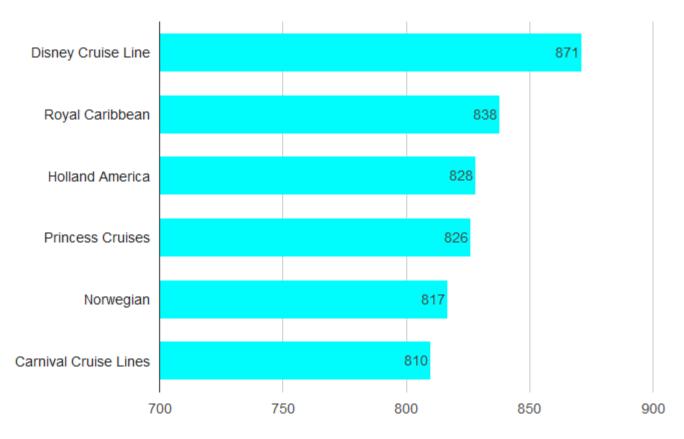


Visualization is not just Excel anymore...

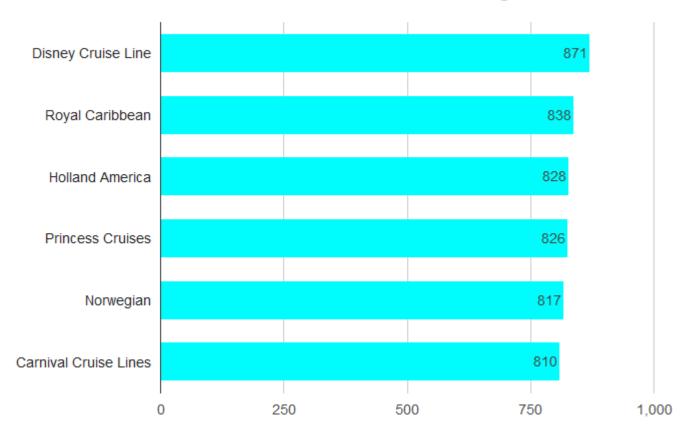


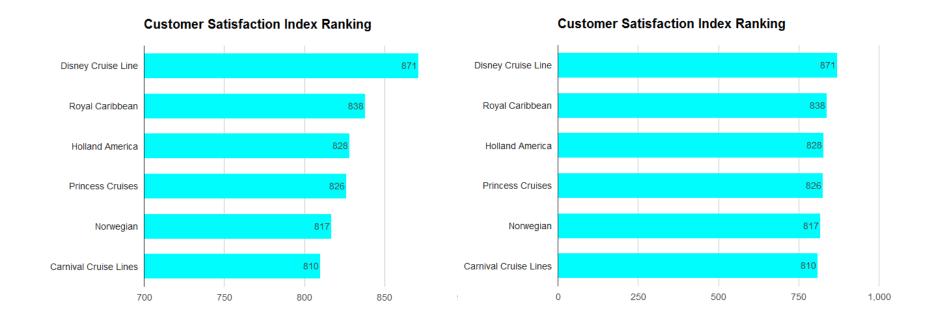


Customer Satisfaction Index Ranking

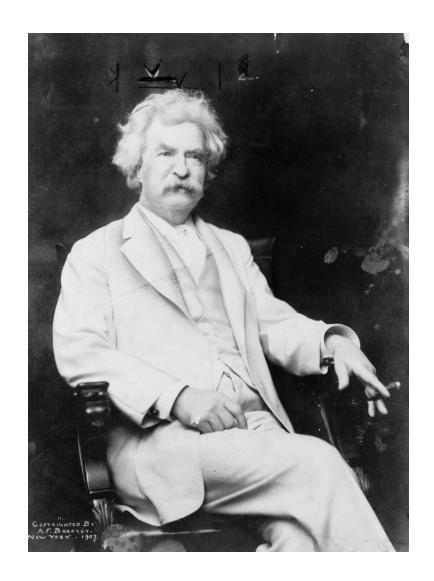


Customer Satisfaction Index Ranking





Which is true?



"There are three kinds of lies: lies, damned lies, and statistics"

> Popularized by Mark Twain, in "Chapters from My Autobiography" who attributed it to Benjamin Disraeli. Actual origin is unclear.



2013 Cruise Line Satisfaction Report

J.D. Power Reports:

Although Overall Satisfaction with Cruise Lines Is High, Nearly 20 Percent of Passengers Experience A Problem on Their Cruise

To read the original press release:

http://www.jdpower.com/content/press-release/BNsKy1W/2013-cruise-line-satisfaction-report.htm

The Three Roles of Data Visualization

