





THE FUTURE PREDICTIONS OF THE FUTURE **QUALITY OF THE PREDICTIONS QUALITY OF THE INFORMATION QUALITY OF THE DATA ANALYSIS**





BIGDATA

















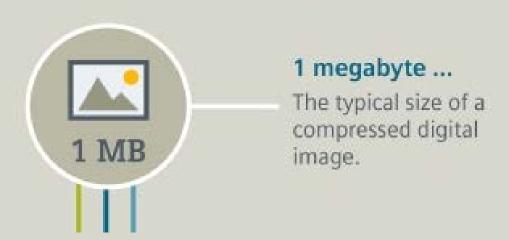




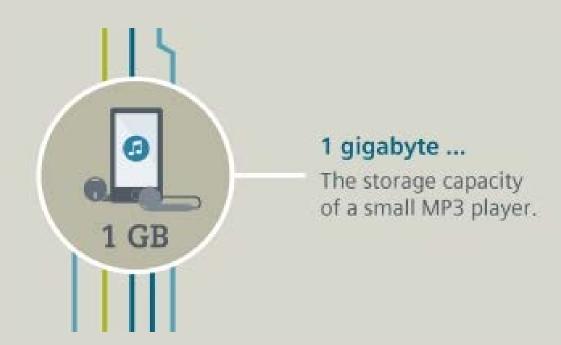


Big Data – How Big Is Big?

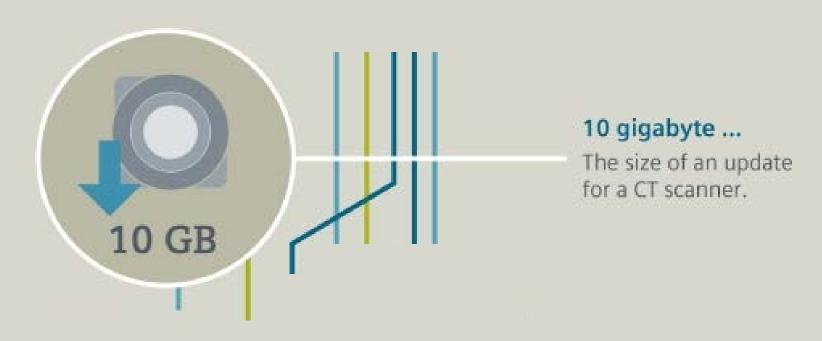








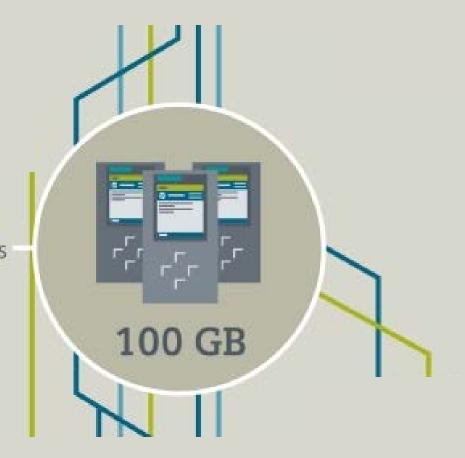




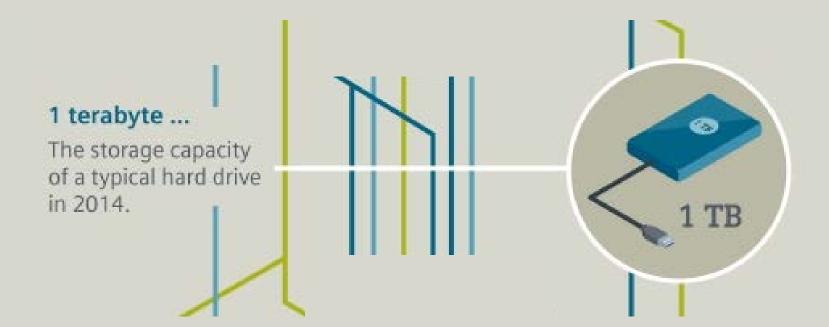


100 gigabyte ...

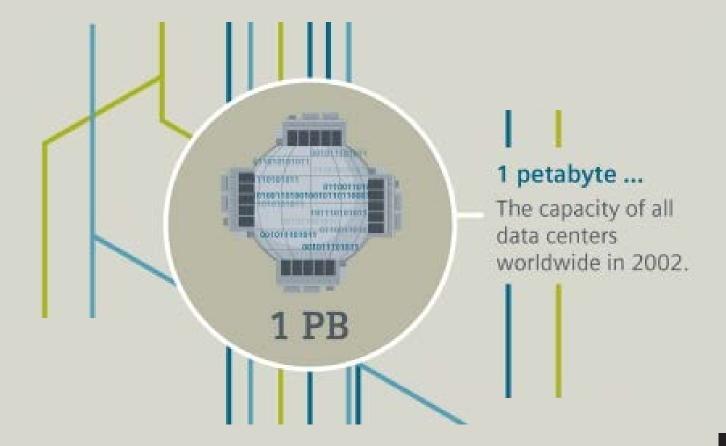
The amount of data that the 600 Siemens control systems installed in CERN's particle accelerator produce per day.



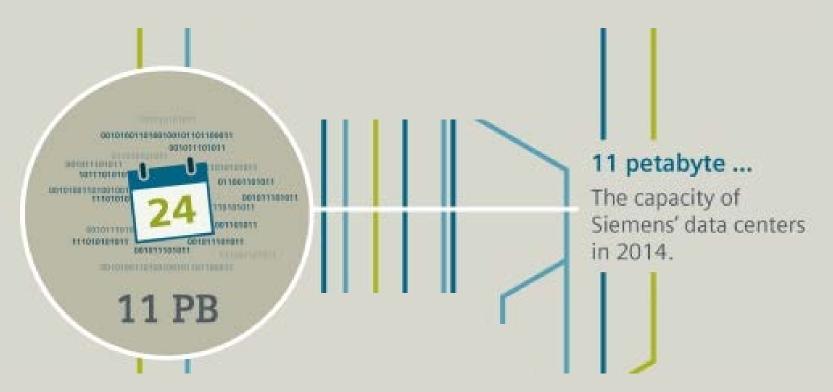




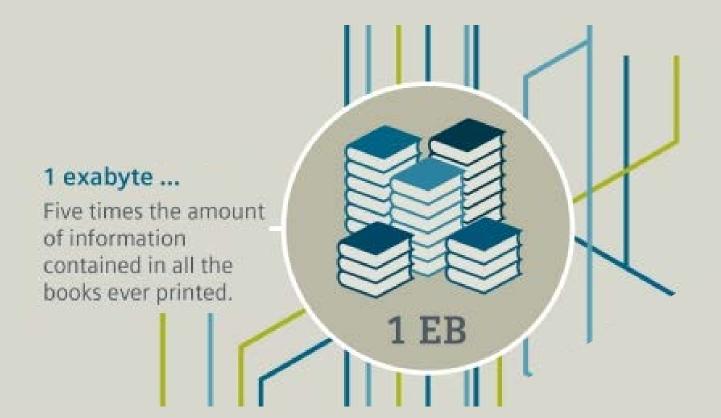








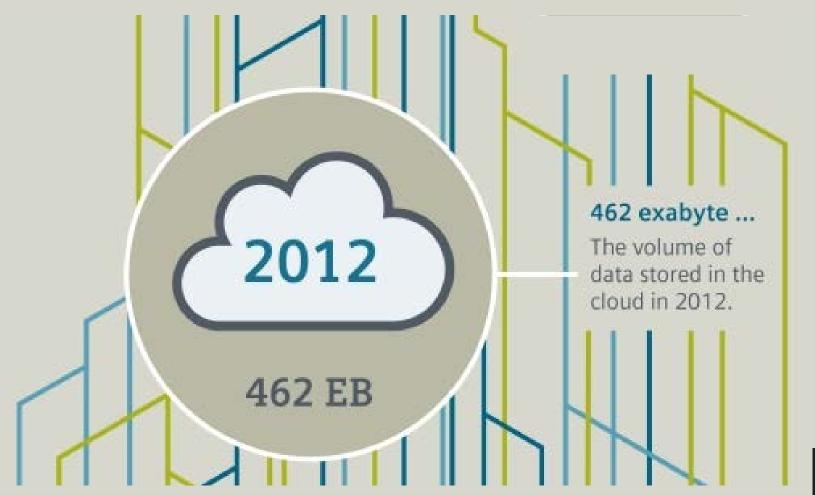








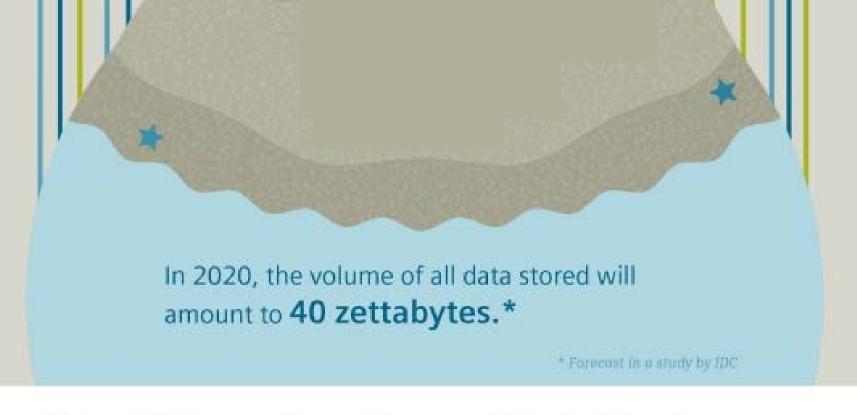












How can we make practical use of these data volumes?



Maybe that's a better question for you :-)

How can we make practical use of these data volumes?



The future came yesterday







"The Americans have need of the telephone, but we do not. We have plenty of messenger boys." — William Preece, British Post Office.











1889: "Fooling around with alternating current (AC) is just a waste of time. Nobody will use it, ever." — Thomas Edison











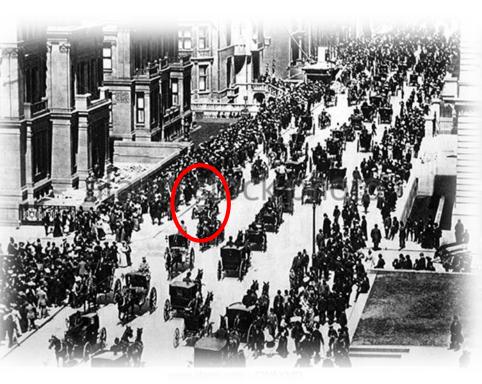


"The horse is here to stay but the automobile is only a novelty – a fad." — President of the Michigan Savings Bank advising Henry Ford's lawyer, Horace Rackham, not to invest in the Ford Motor Company.







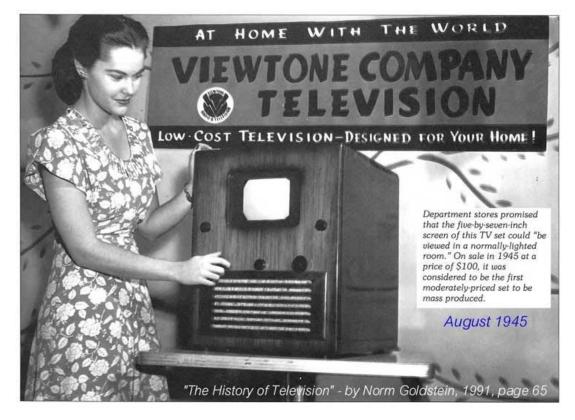




Easter, 1900 Easter, 1913



"Television won't be able to hold on to any market it captures after the first six months. People will soon get tired of staring at a plywood box every night." — Darryl Zanuck, 20th Century Fox.

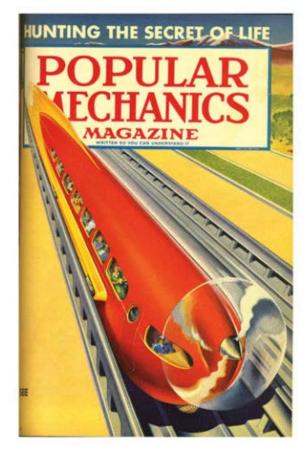












Vacuum Tube Powered Trains
"There is no fundamental reason," says Doctor
Langmuir, "why we could not travel at a speed of 2000 to 5000 miles an hour in a vacuum tube. The Pacific coast might be only an hour away from the Atlantic."











HOW THE HYPERLOOP WORKS

Elon Musk said that if the Concorde, a railgun and an air-hockey table had a three-way, the hyperloop would be the love child. Here's a look inside Hyperloop Tech's high-speed cargo pod.

COMPRESSOR Mounting a giant compressor fan on the front of the capsule is what makes the hyperloop possible, transferring huge volumes of air away from the nose. Without it, the pod would be pushing all the air in front of it, like a syringe, or you'd have to spend big bucks on a bigger tube. Respect the Kantrowitz limit—the top speed allowable given a tube-to-pod-area ratio.

VACUUM TUBE Capsules will travel in a near-vacuum to reduce drag significantly. Valves and pumps will keep internal air pressure at about 100 Pascals, or one-thousandth the air pressure at sea level. A little nitrogen may be injected into the tube as a desiccant.

PAYLOAD Hyperloop Tech's cargo capsule will be about 70 feet long, big enough to hold a standard 40-foot intermodal container. The capsule of lunch-tray-size sleds. Landing gear may need to be deployed as it comes to a stop.

PAYLOAD Hyperloop Tech's cargo capsule will be about 70 feet long, big enough to hold a standard 40-foot intermodal container. The capsule should weigh about 68,000 pounds and could theoretically accelerate from zero to 750mph in less than a minute.

HYPERLOOP SAIRSO

PROPULSION The Hyperloop capsule speeds along a "magnetic river" propelled by linear induction motors spaced along the tube or installed as a continuous strip. Linear induction, used on maglev trains and the Toei Ōedo Line in Tokyo's subway, has no moving parts and low maintenance costs.





Housekeeping of the future When the housewife of 2000 cleans house she simply turns the hose on everything. Why not? Furniture (upholstery included), rugs, draperies, unscratchable floors—all are made of synthetic fabric or waterproof plastic. After the water has run down a drain in the middle of the floor (later concealed by a rug of synthetic fiber) she turns on a blast of hot air and dries everything.













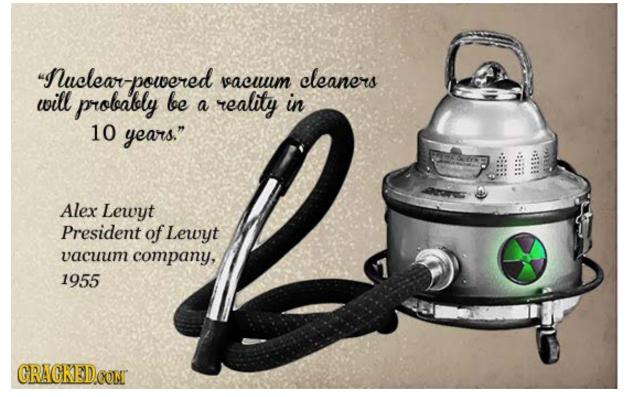


























Flying Fan Vehicle

The "flying fan" vehicles of the future will be easier to fly than helicopters, and should cost a lot less. A rough guess is that in about 10 years you'll be able to buy a four-place fan for the price of a good car.



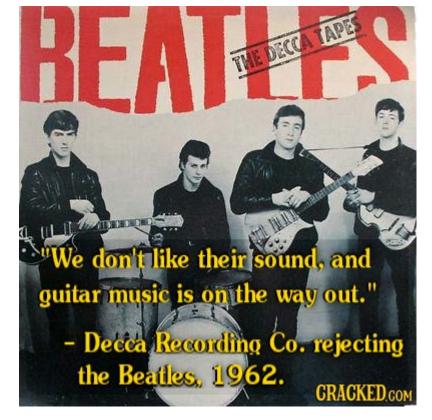






1962:

Decca Records rejected the Beatles, saying "guitar groups are on the way out" and "The Beatles have no future in show business,"

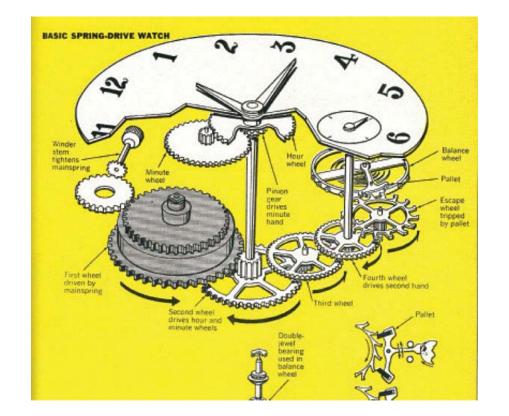
























"Nicholas Negroponte, director of the MIT Media Lab, predicts that we'll soon buy books and newspapers straight over the Internet. Uh, sure.

So how come my local mall does more business in an afternoon than the entire Internet handles in a month?"

Clifford Stoll (1995, in Newsweek)



1998





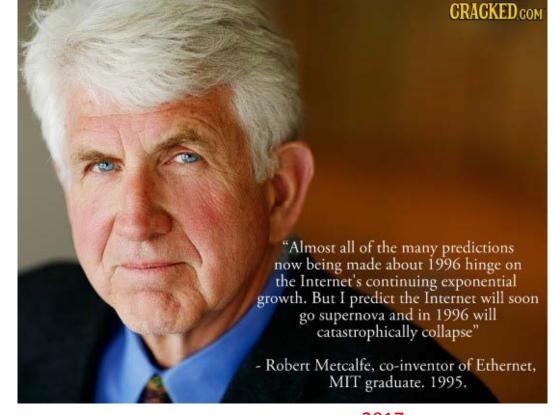






He also predicted that wireless networking would die out in the mid 1990s.:

After the wireless mobile bubble bursts this year, we will get back to stringing fibers ... bathrooms are still predominantly plumbed. For more or less the same reason, computers will stay wired.



1996

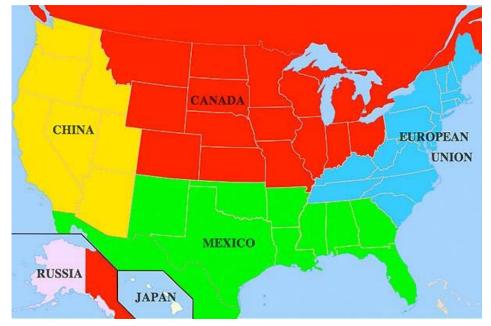












1998:2010 collapse of the United States

Russian political writer Igor Panarin claimed that the U.S. was on the verge of civil war, which would result in wealthier states. withholding tax revenue from the federal government and seceding from the union. After the resulting collapse of the nation, it would be split into six parts and divided up by the newly dominant world powers. "There's a 55 to 45 percent chance right now that disintegration will occur," he said.





2007:

"There's no chance that the iPhone is going to get any significant market share."

— Steve Ballmer, Microsoft CEO.



43.5% **2016**





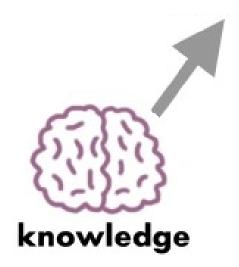


The future came yesterday

...and we partially predicted only 2 out of 15 outcomes









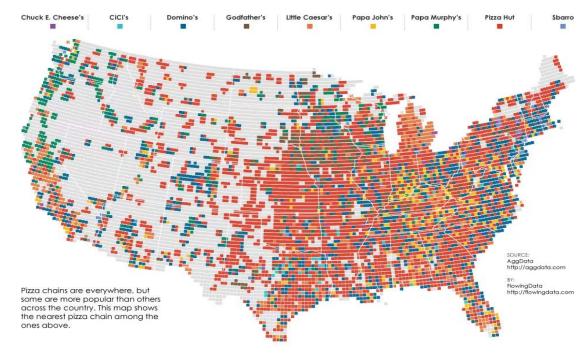








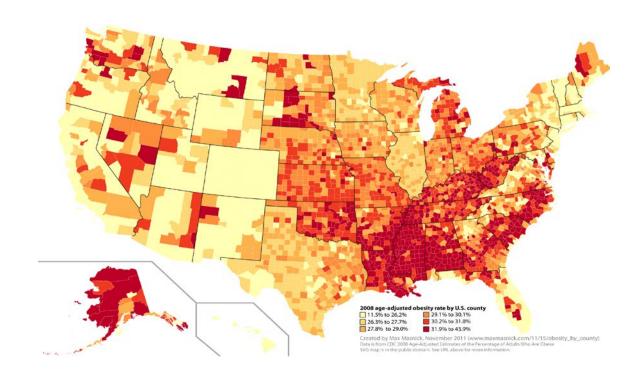
Pizza Place Geography





Age Adjusted Obesity Rates

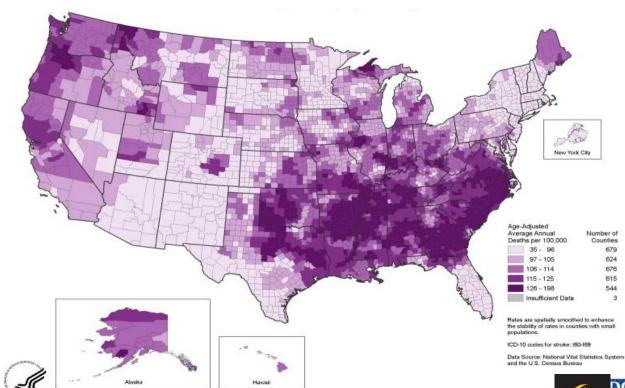






Stroke Death Rates, Ages 35+

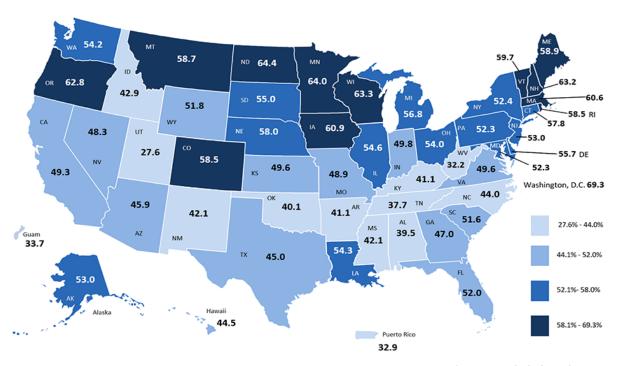






Weighted Estimates of Alcohol Use Among Women Aged 18-44 Years



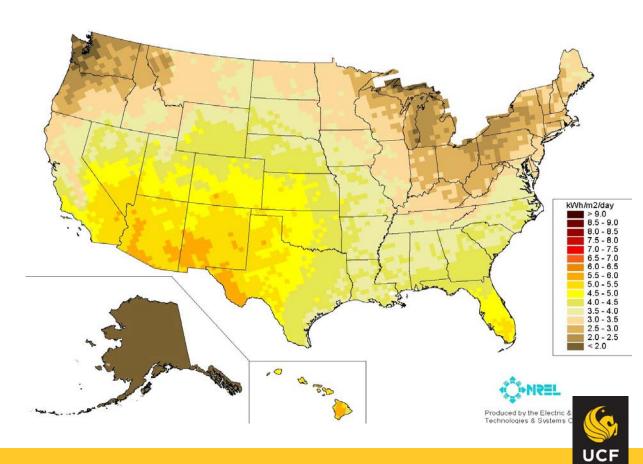


*One or more drinks during the last 30 days



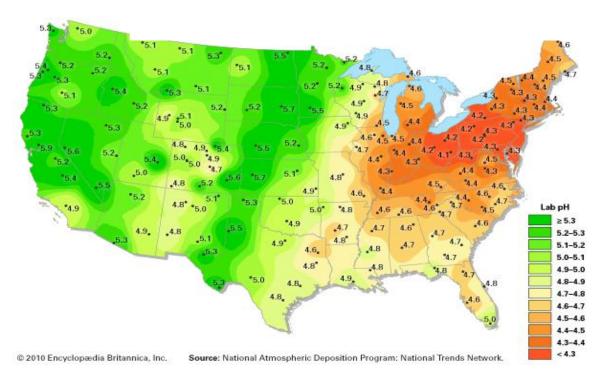
PV Solar Radiation





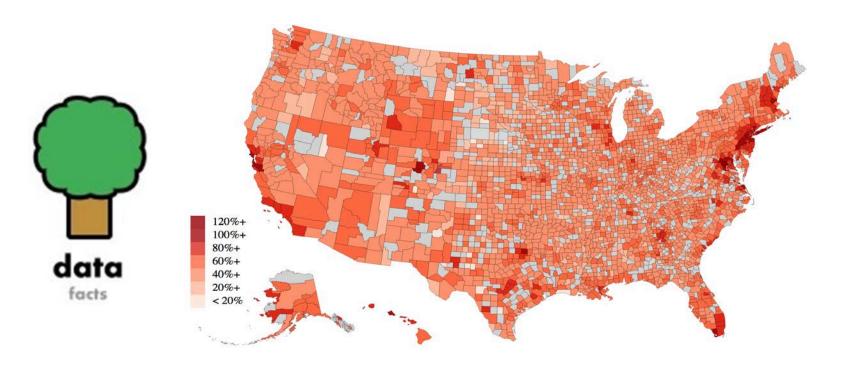
Annual pH of Precipitation







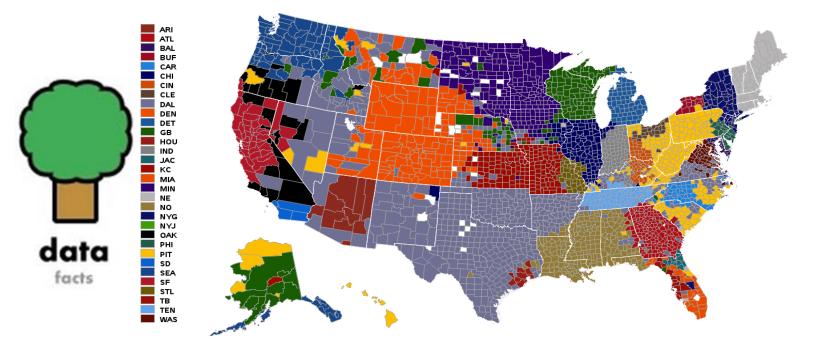
2 Bedroom Rent as Gross Income (%)







NFL Fans (based on Facebook)



Based on Facebook data, January 2013





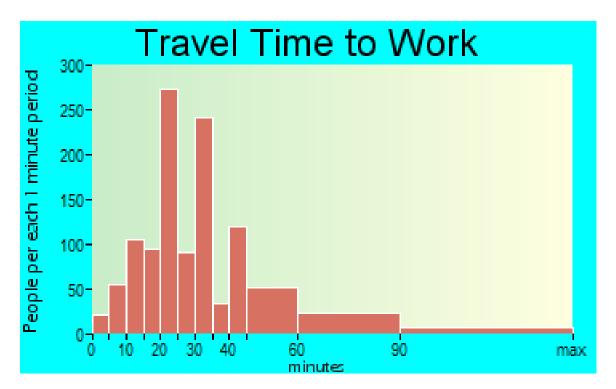






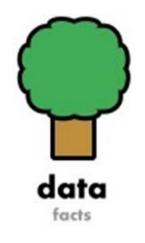


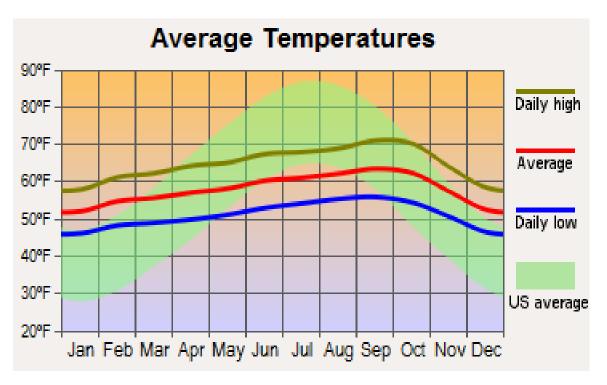






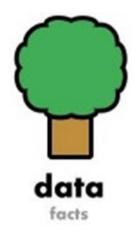


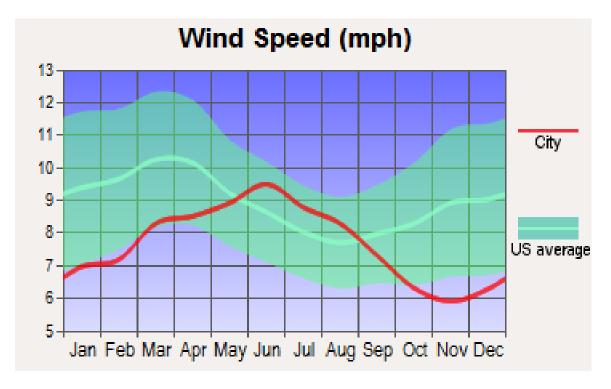






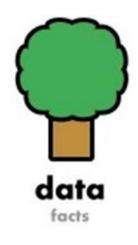


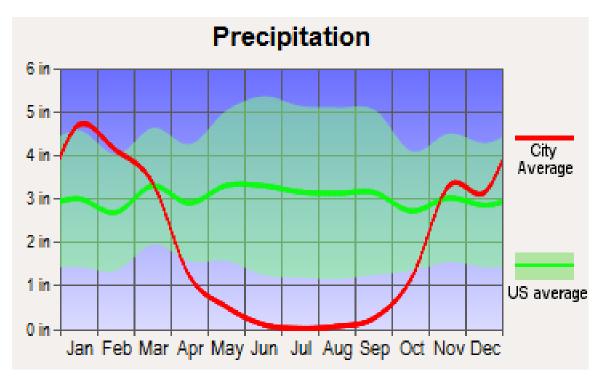






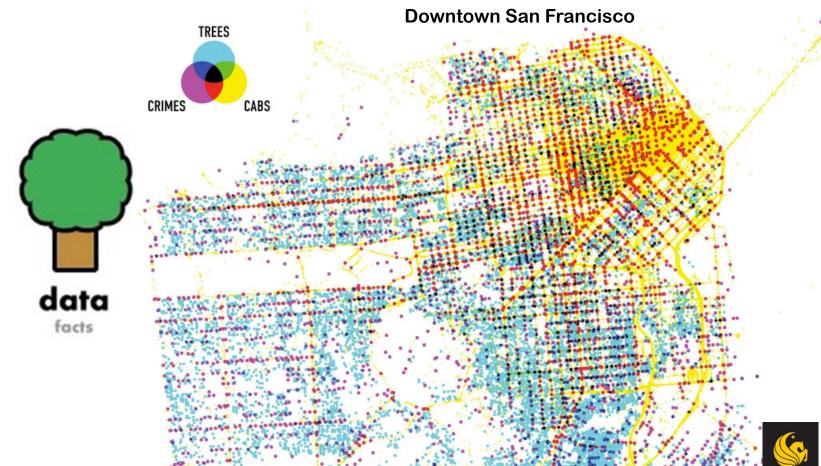








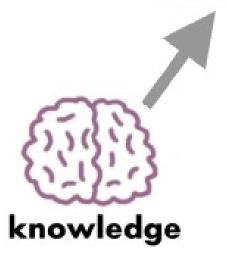














The future came yesterday

Some future predictions were good, Some future predictions were not.

In the past, we made predictions by guessing, Now we can leverage data analytics.

Tomorrow is coming (again), What do you predict will happen?

Anthony Renda



