

Business Analytics

Graphs

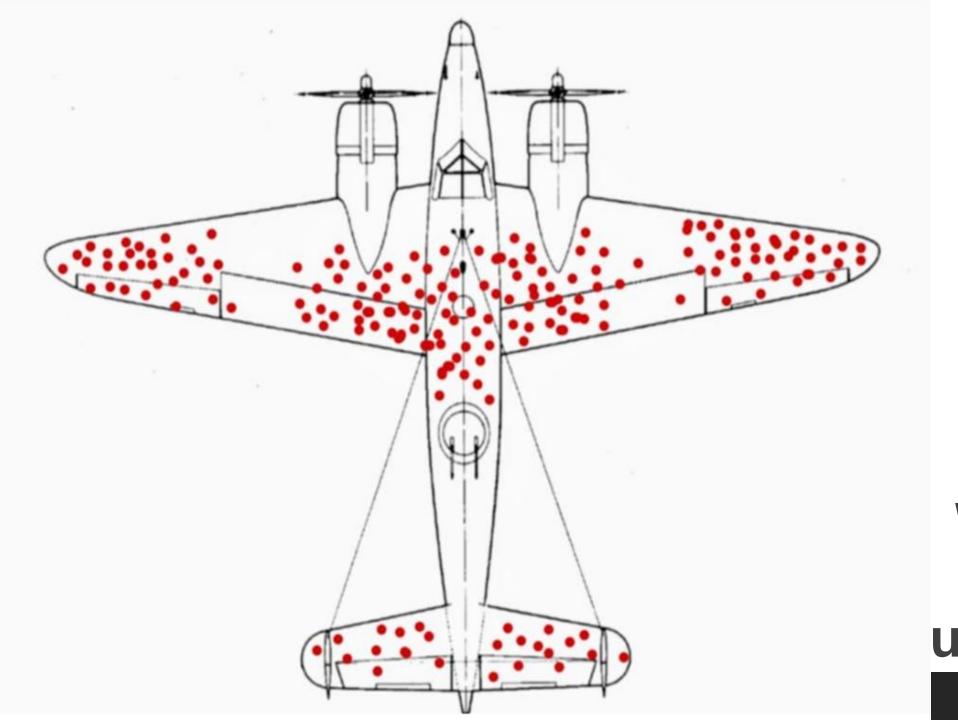




Διαγράμματα και Επικοινωνία Δεδομένων

- Είδη Διαγραμμάτων
- Παραπλανητικά Διαγράμματα

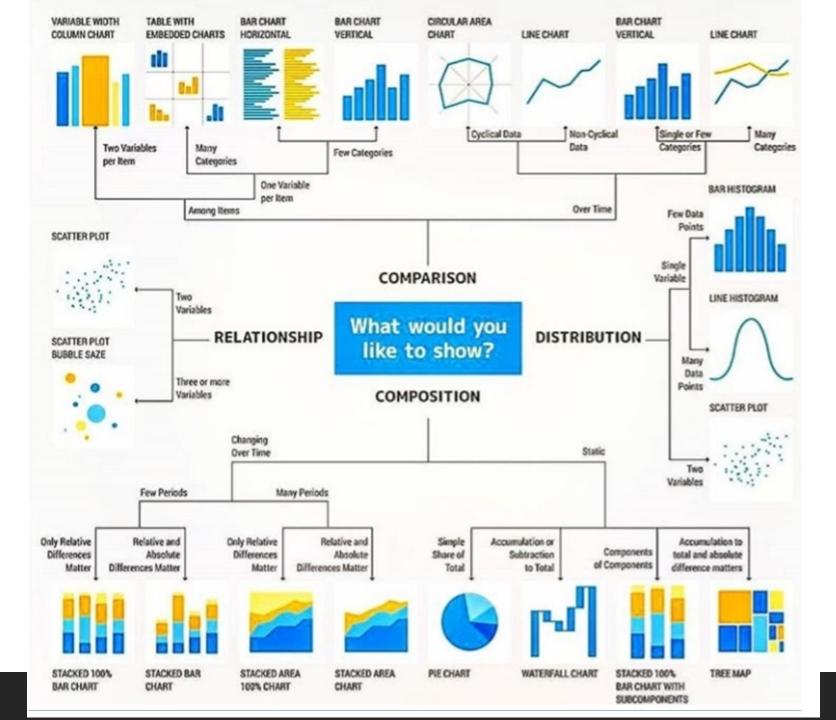




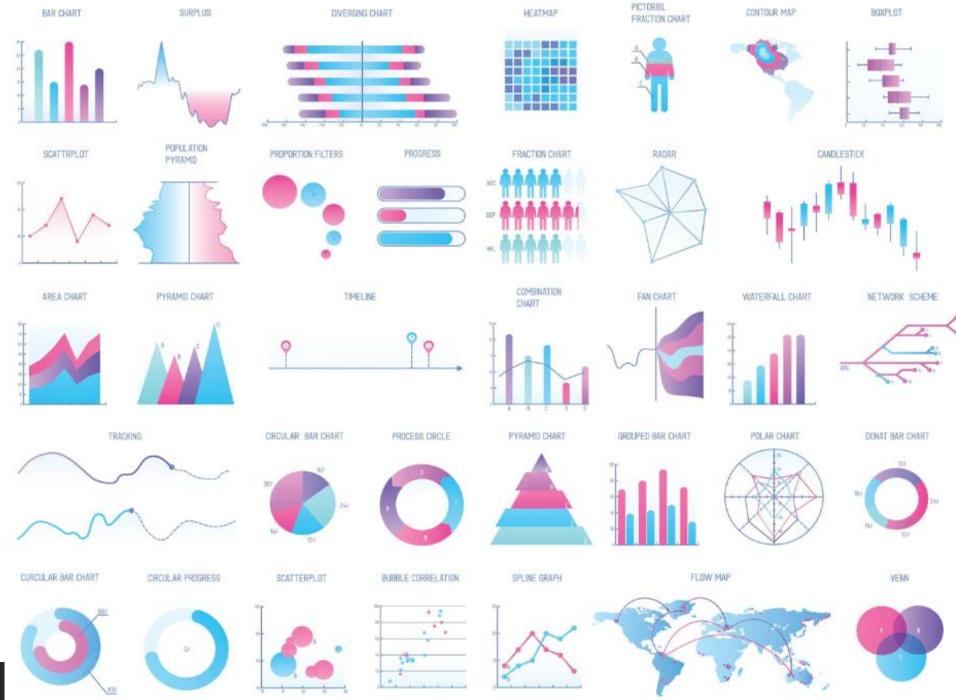
WW-II analysis on planes that had been shot up and came back.

What places should be up-armoured?







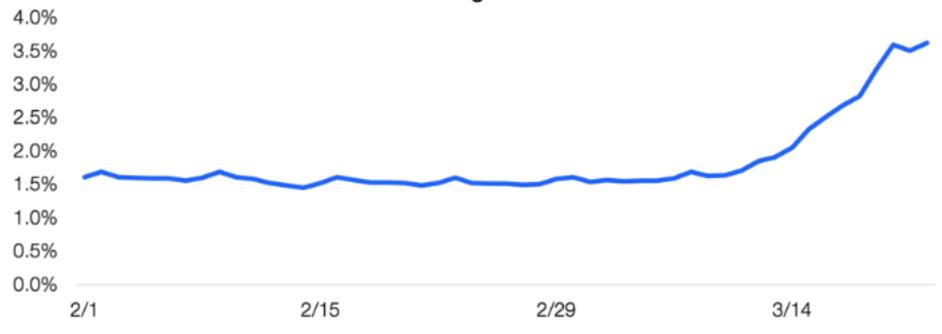




Line Chart

Interest in remote work surges as social distancing takes hold

Searches for remote work keywords as a share of all job searches in US, data through March 22



Source: Indeed



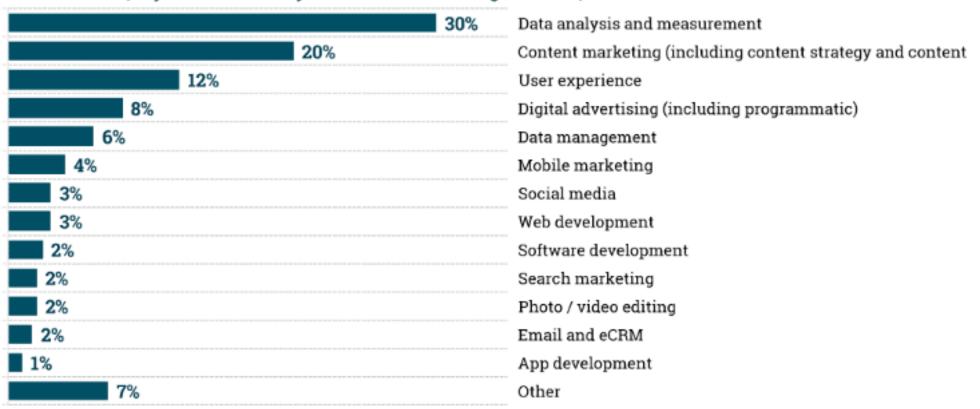


Bar Chart

Most Important Future Skill for Marketers



"In the future, if you could stake your career on learning one skill, what would it be?"



Published on MarketingCharts.com in February 2019 | Data Source: Econsultancy

Based on responses from 458 marketers who were surveyed online

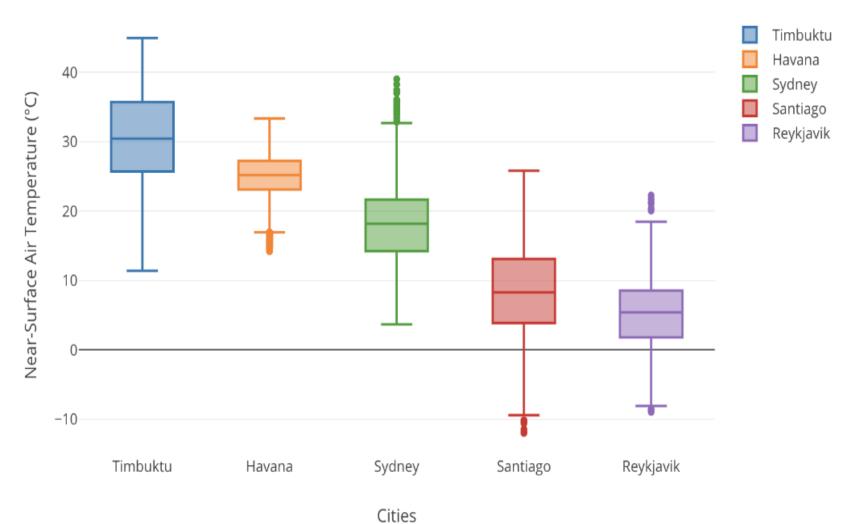


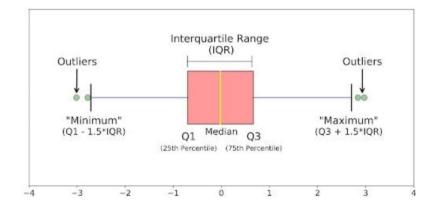
Bar Chart





Boxplot

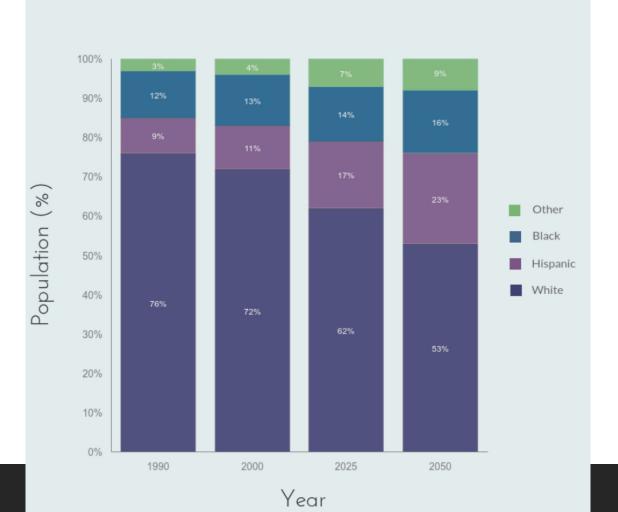






Stacked Bar Graphs



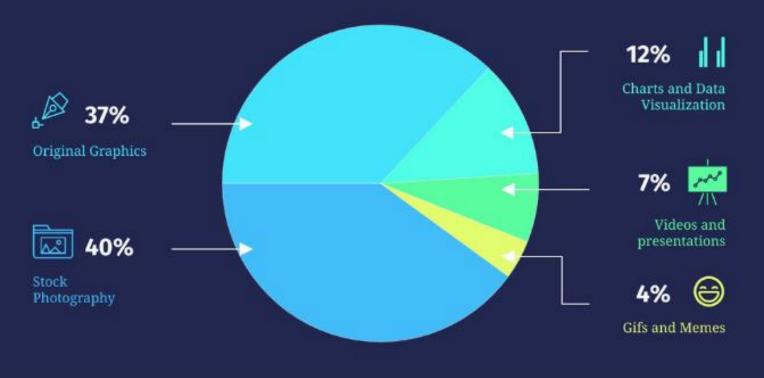


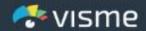


Pie Chart

Most frequently used visuals

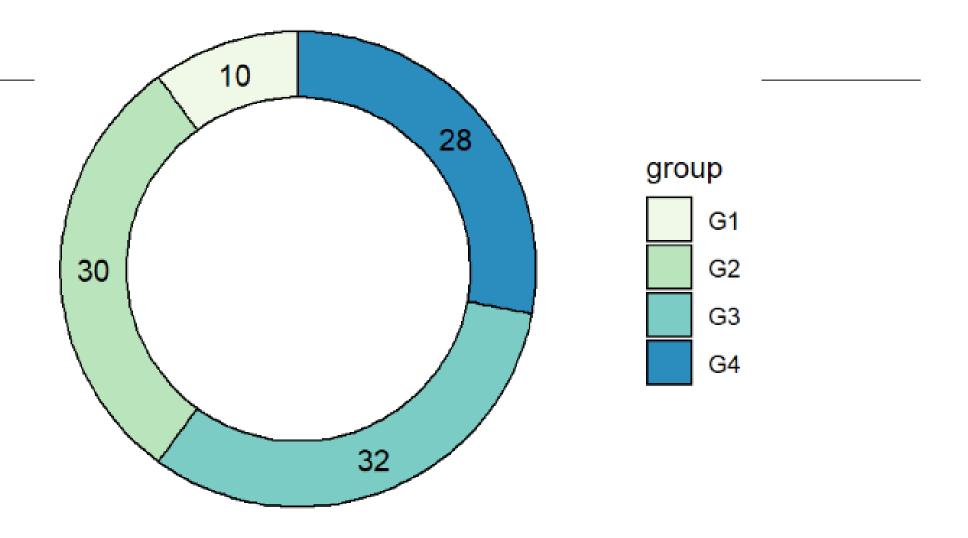
By Marketers In Their Content







Donut Chart





Spider Chart

SURVEY
SPRINT REVIEW

Customer Satisfaction

Customer A

Customer B

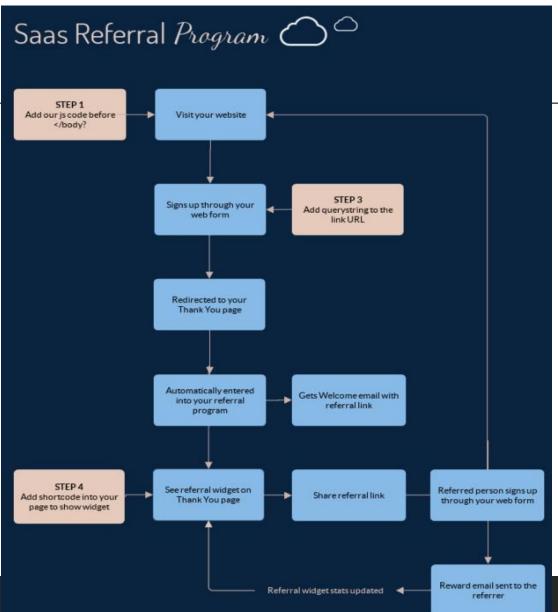
Customer C

Customer D





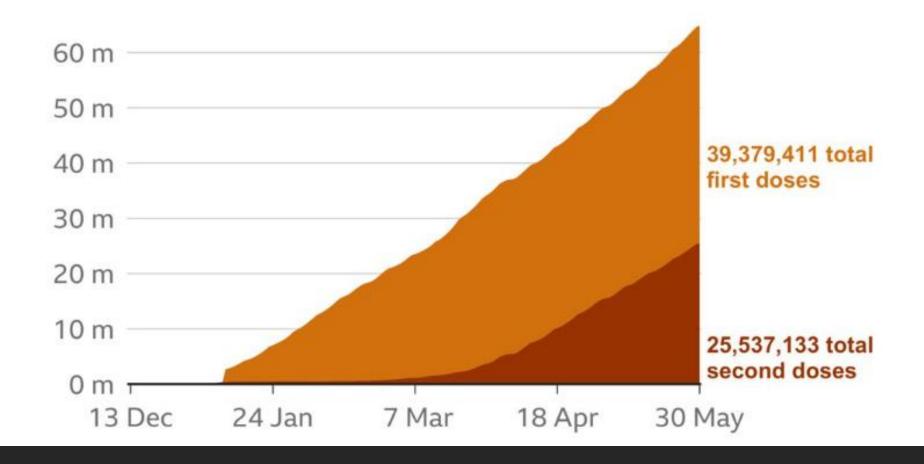
Flow Chart





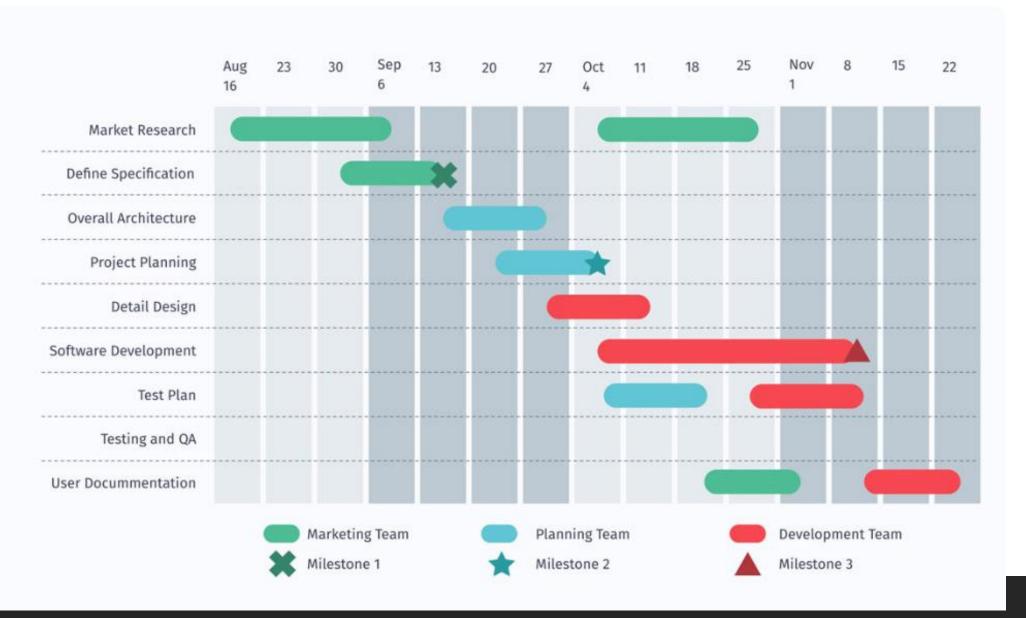
Area graph

More than 64m vaccine doses received across the UK, to 30 May





Gantt Chart





Waterfall Chart

PRODUCT PERFORMANCE SALES REVENUE GROWTH





Hierarchy Diagram

Organizational Chart

NEW PROJECT

HARDWARE

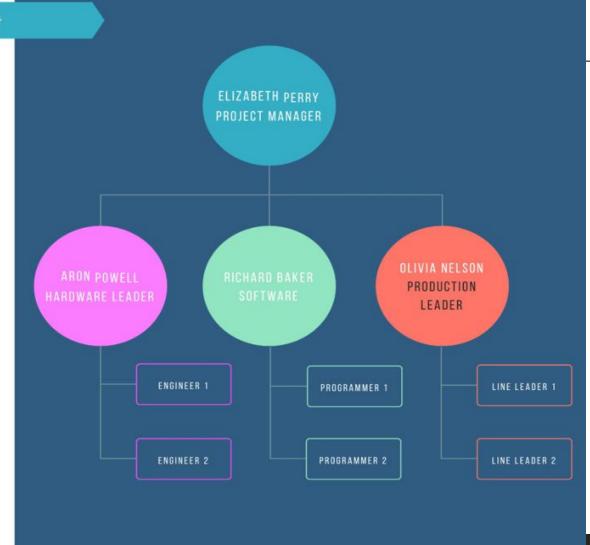
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SOFTWARE

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin laoreet quam sapien, id lobortis enim laoreet at. Nullam eleifend ligula sed condimentum lobortis.

PRODUCTION

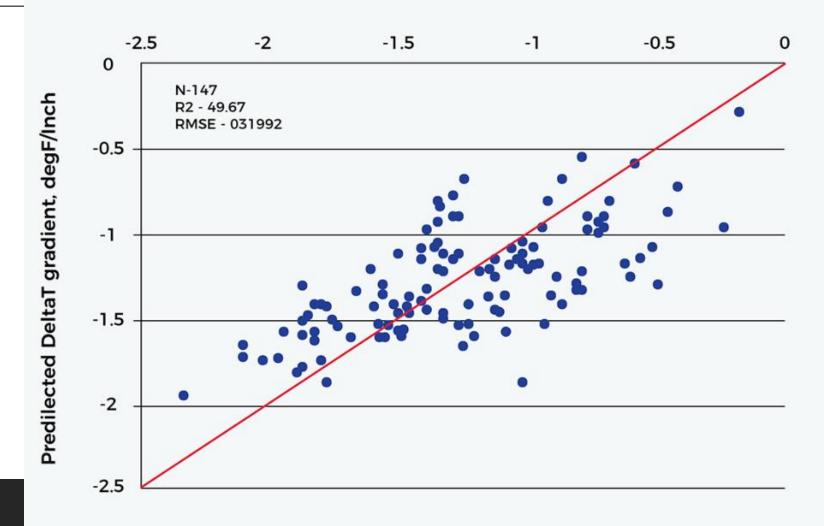
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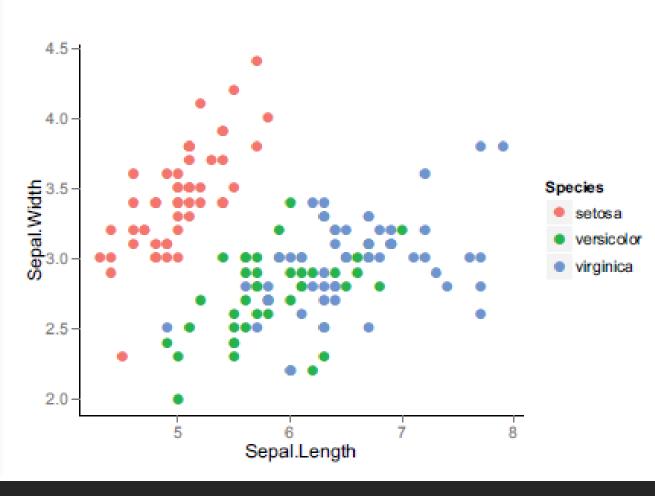
Scatter Plot

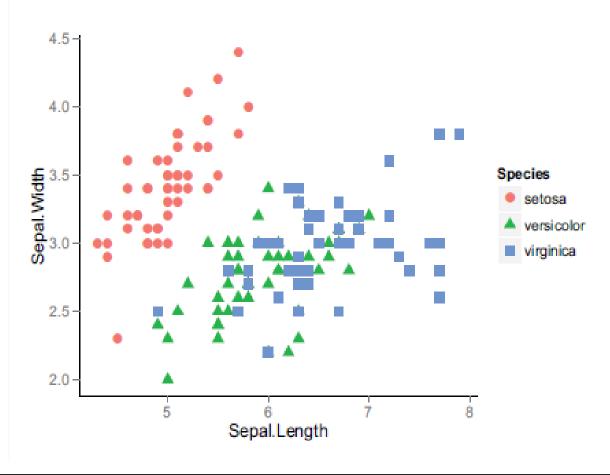
Delta gradient estimated by matching MEPDG and field performance, deg F/Inch





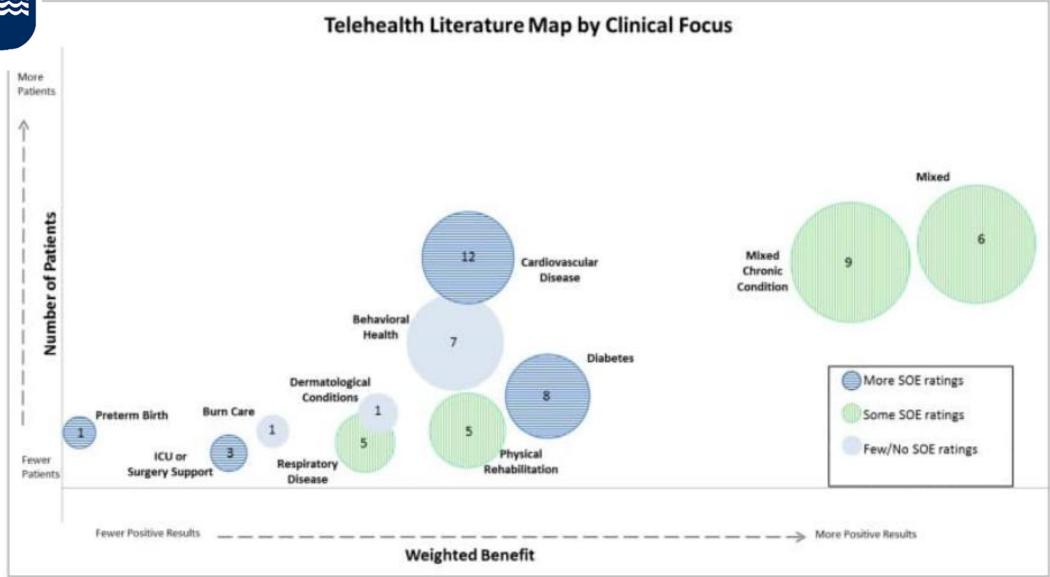
Scatter Plot







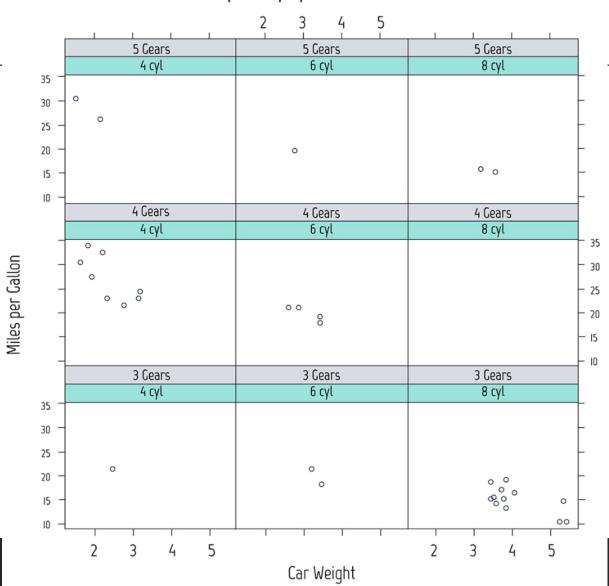
Bubble Chart





Trellis Plot

Scatterplots by Cylinders and Gears





Tree Diagrams

The Royal Family of Windsor





Philip Mountbatten Duke of Edinburgh

- * Birth
- ∞ Marriage A Divorce
- + Death



Charles Prince of Wales *1948



Anne Princess Royal *1950



Andrew Duke of York *1960



Edward Earl of Wessex *1964



Diana Spencer Princess of Wales *1961 71997



Camilla Parker Duchess of Cornwall *1947



Mark Phillips *1948



Timothy Laurence *1955



Sarah Ferguson Duchess of York *1959



Sophie Rhys-Jones Countess of Wessex *1965



William Duke of Cambridge *1982



Prince Henry (Harry) of Wales *1984



Peter Phillips



*1981



Princess Beatrice of York *1988



Princess Eugenie of York *1990



Lady Louise *2003



James Viscount Severn *2007

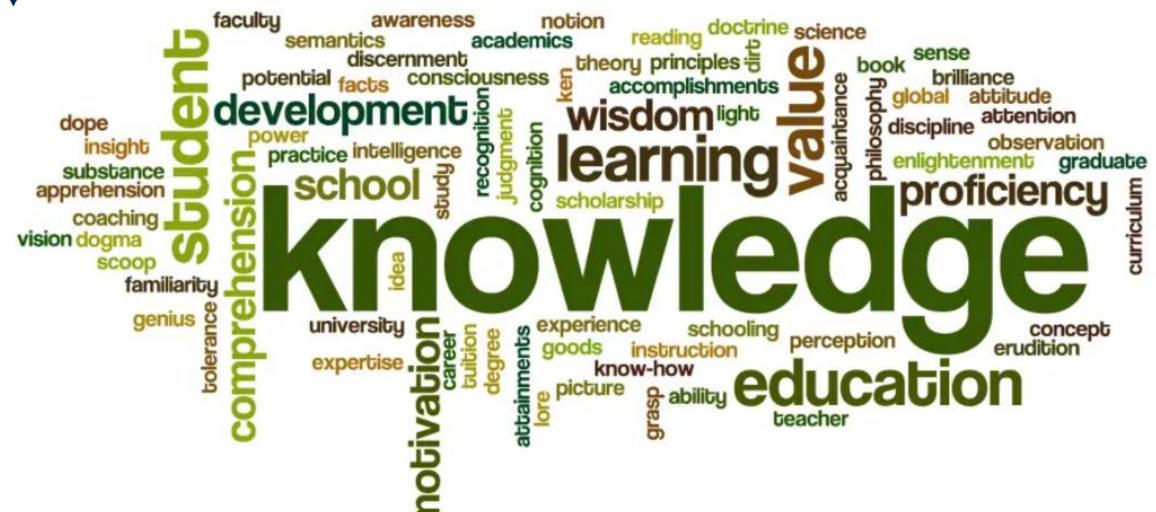


Venn Diagram





Wordcloud



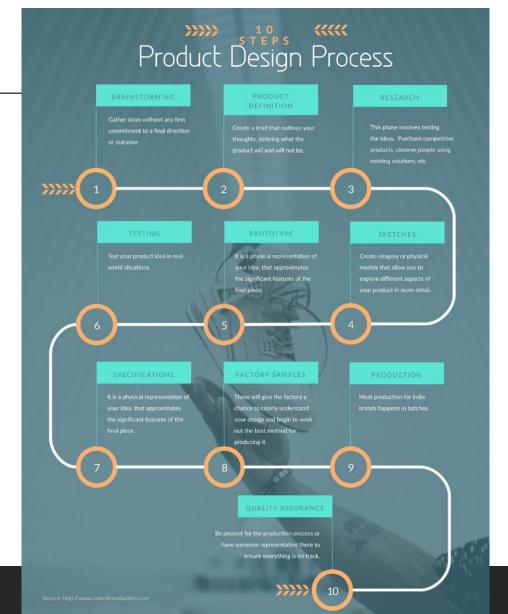


Infographics



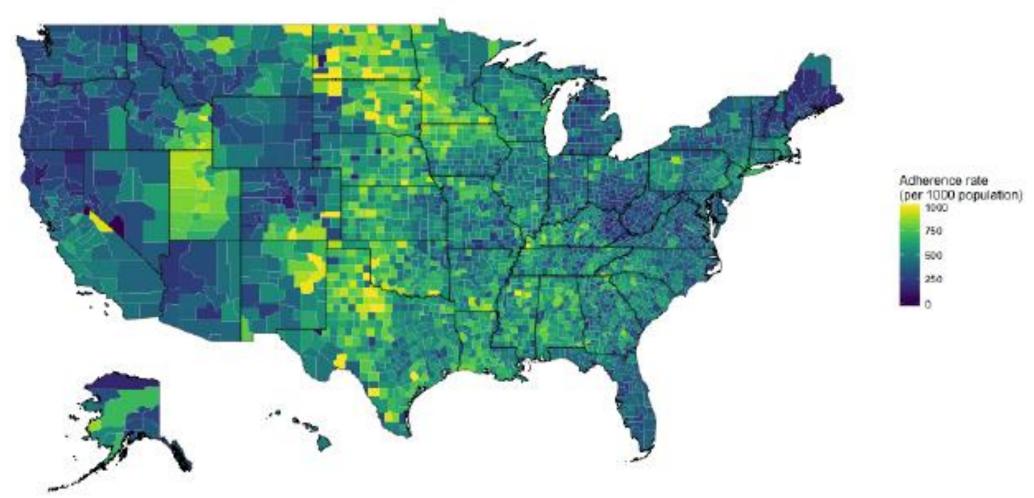
epa.gov/watersense

SEPA





Map





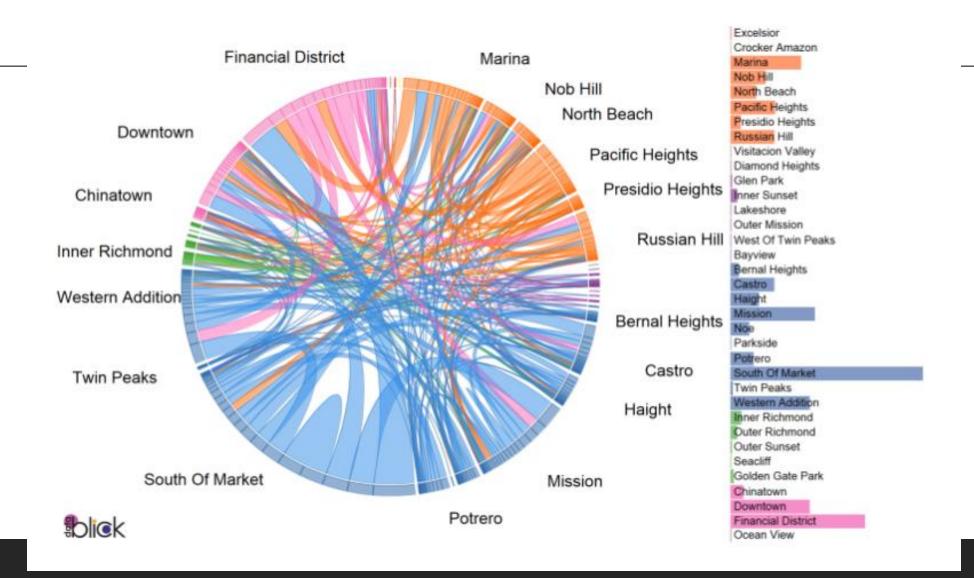
Heatmap

Sales per Region and Sub-Category

	Central	East	South	West
Accessories	\$4,439	\$6,054	\$5,595	\$8,926
Appliances	\$3,659	\$5,779	\$2,120	\$3,755
Art	\$822	\$1,290	\$566	\$3,380
Binders	\$15,871	\$6,347	\$8,307	\$12,963
Bookcases	\$1,834	\$10,863	\$794	\$6,545
Chairs	\$20,754	\$22,008	\$13,072	\$21,407
Copiers	\$3,270	\$4,100	\$480	\$3,000
Envelopes	\$1,599	\$1,348	\$252	\$658
Fasteners	\$122	\$97	\$166	\$277
Furnishings	\$2,536	\$3,757	\$3,161	\$4,372
Labels	\$1,048	\$516	\$401	\$876
Machines	\$16,292	\$14,636	\$27,595	\$3,500
Paper	\$2,347	\$3,917	\$3,185	\$5,386
Phones	\$9,926	\$20,689	\$17,249	\$29,527
Storage	\$11,093	\$16,207	\$6,715	\$16,313
Supplies	\$440	\$468	\$4,247	\$9,238
Tables	\$7,785	\$10,604	\$9,941	\$17,758



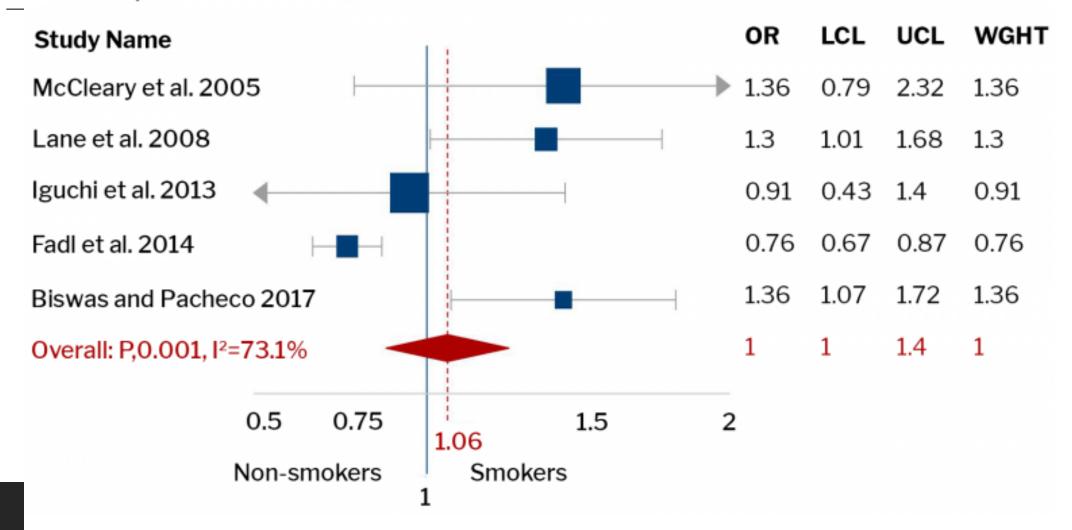
Chord Plot





Forest Plot

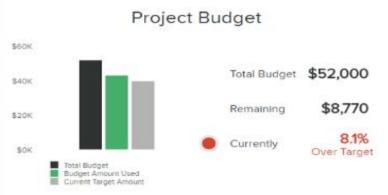
Development of atrial fibrillation



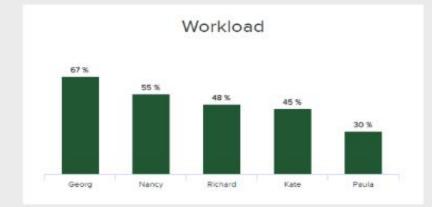


Dashboard











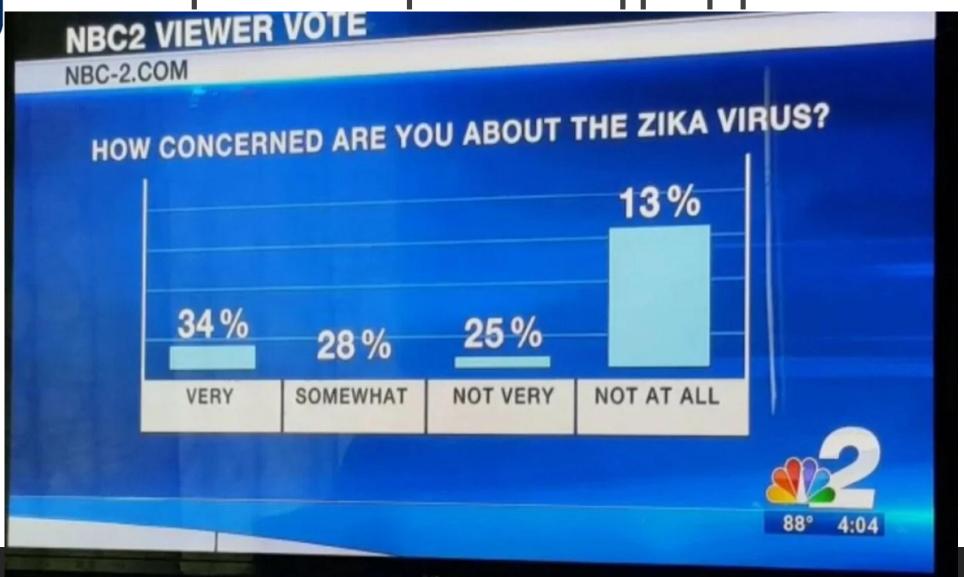


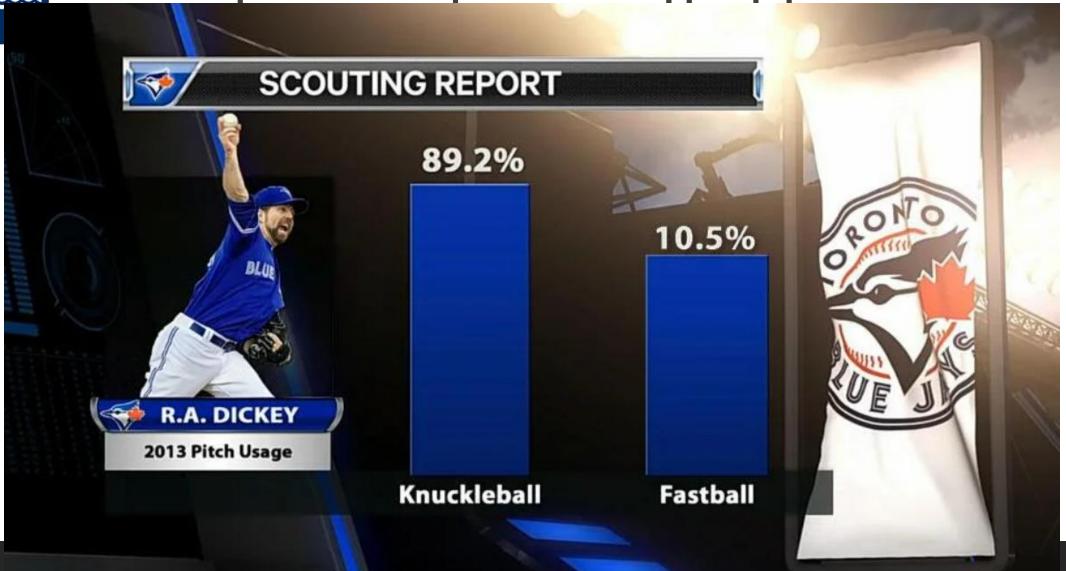
Dashboard



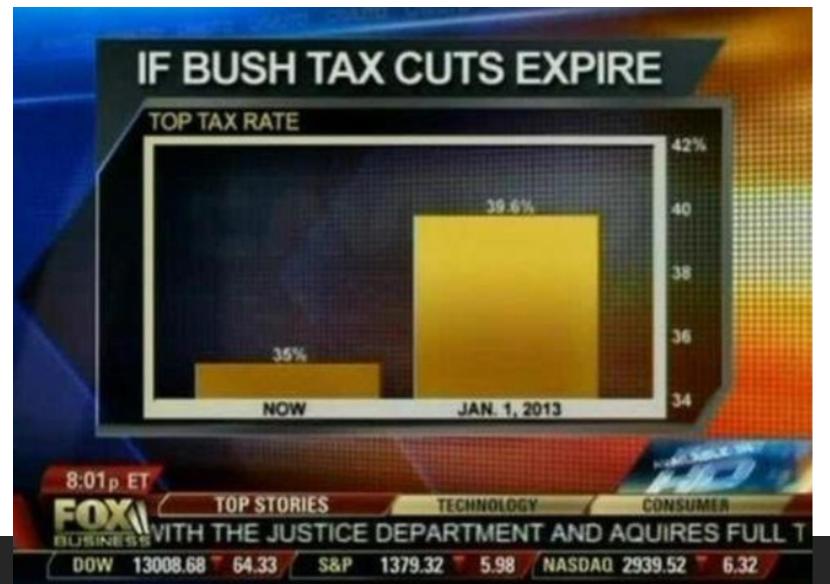




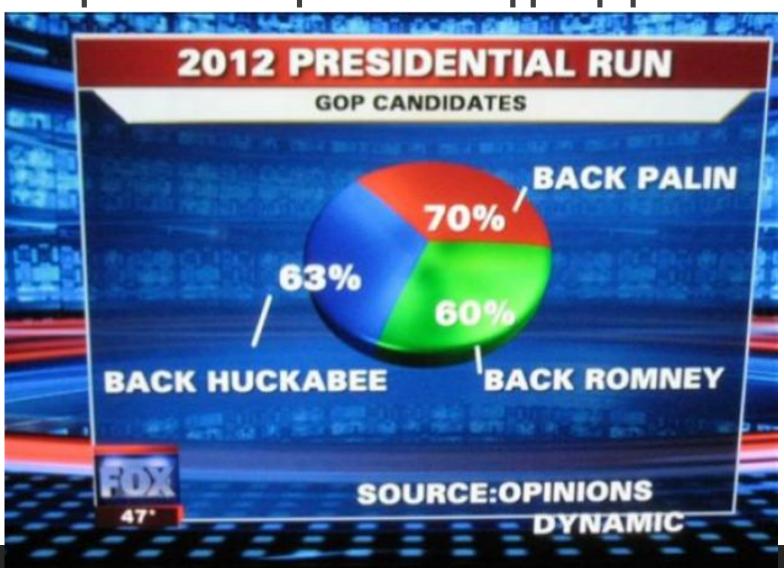








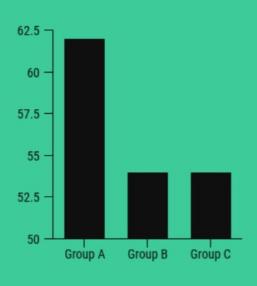


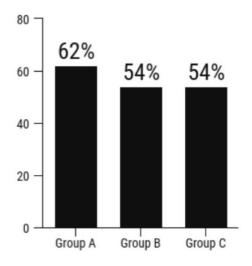




OMITTING THE BASELINE

In most cases, the baseline for a graph is 0. But writers can skew how data is perceived by making the baseline a different number. This is known as a "truncated graph".





MISLEADING

- Starting the vertical axis at 50 makes a small difference between groups
- Group A looks much larger than Groups B and C



ACCURATE 🙂

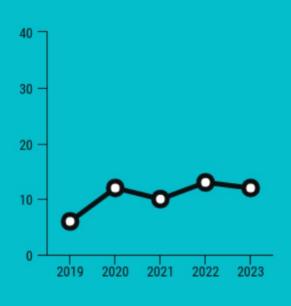


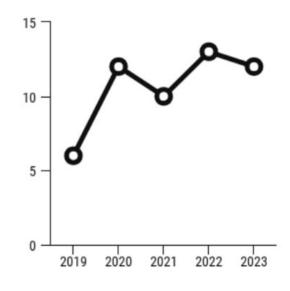
- · Starting the vertical axis at 0 offers a more accurate depiction of the data
- · The difference between the groups does not seem as dramatic



MANIPULATING THE Y-AXIS

Expanding or compressing the scale on a graph can make changes in data seem more or less significant than they actually are.





MISLEADING

• The scale is disproportionate to the data, making the change over time seem small



ACCURATE 🙂

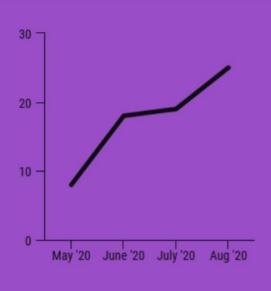


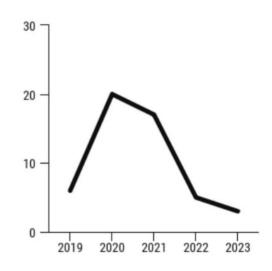
• The scale is proportionate to the data, showing a greater change over time



CHERRY PICKING DATA

Writers may only include certain data points on their graphs to reinforce their narratives. This can create a false impression of the data.





MISLEADING

• Only a few months out of the year are graphed, depicting an upward trends



ACCURATE 🙂



- · A much wider date range is graphed, revealing an overall downward trend
- · This graphs shows the bigger picture

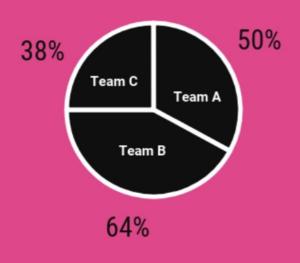


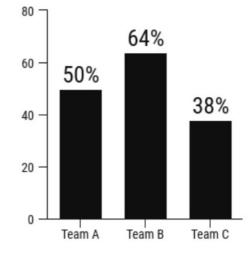
4>

USING THE WRONG GRAPH

The type of graph you use should depend on the type of data you want to visualize.

Using the wrong type of graph can skew the data. Writers will sometimes use
the wrong type of graph on purpose.





MISLEADING

- Pie charts are used to compare parts of a whole, not the difference between groups
- A different type of graph should be used to compare the three teams



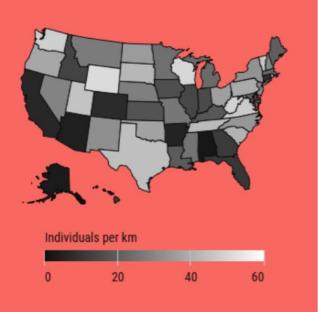
ACCURATE (:)

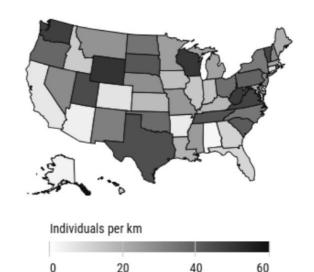
- Bar graphs are better for showing the differences between groups
- This chart is a better visualization of the data



GOING AGAINST CONVENTIONS

Over time, we have developed standards for how data is visualized. Flipping those conventions can make a graph confusing or misleading to readers.





MISLEADING

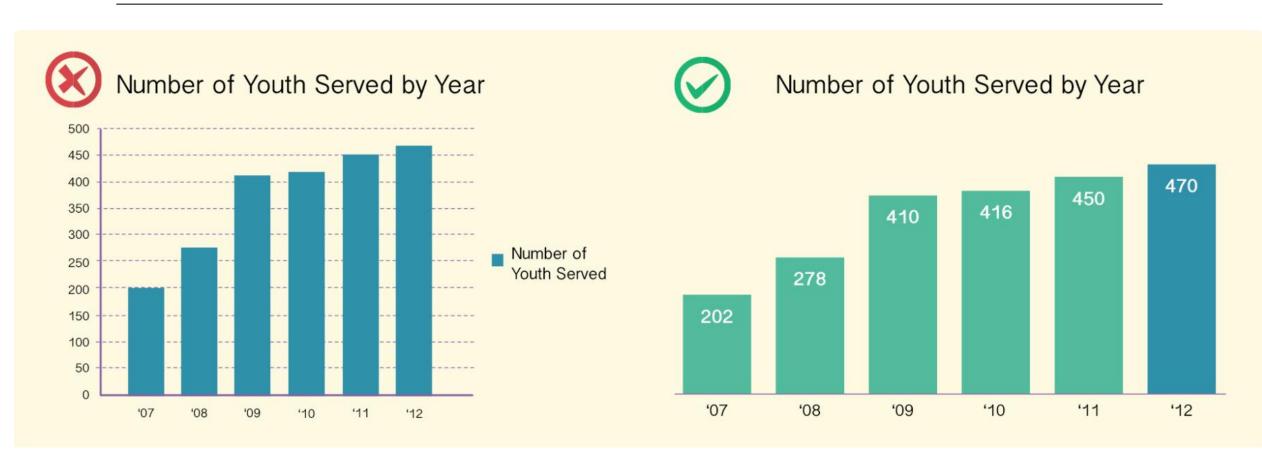
- Normally, darker shades are associated with density on a map but here, dark has been used to depict lower population density
- This graph can confuse and mislead readers, who expect dark to represent a higher population density

ACCURATE (:)

- This map follows the convention of using lighter shades for lighter density and darker shades for higher density
- Readers will intuitively know how to interpret the data

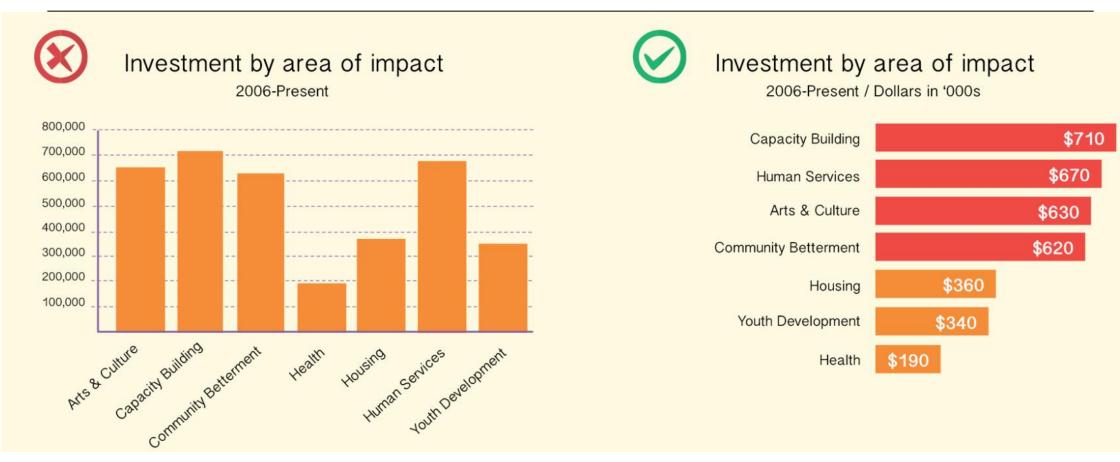


Readability





Readability



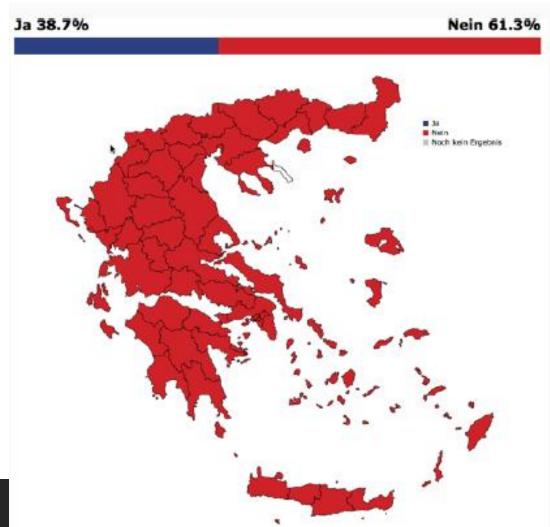


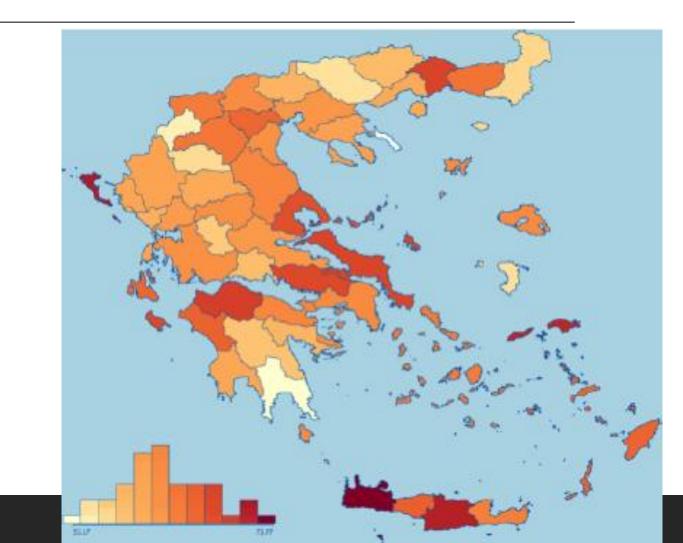
Color





Color

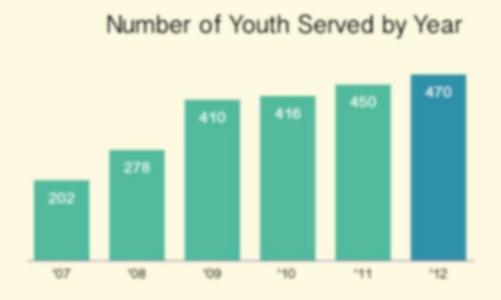






Finishing Touches

SQUINT TEST



Number of Youth Served by Year

