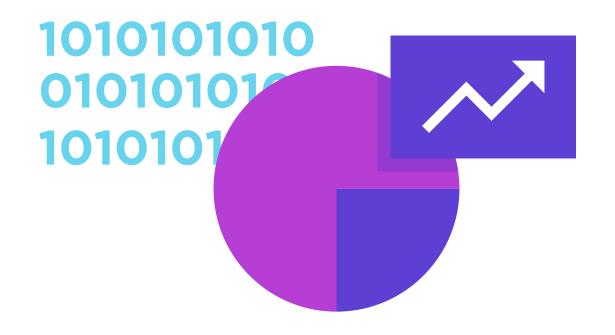
HOW TO

VISUALIZE DATA LIKE A PRO



A Powerpoint Presentation design by 24Slides From www.24slides.com/blog

WHAT IS DATA VISUALIZATION?



DATA VISUALIZATION INVOLVES INTERPRETING DATA SIMPLE, EASY TO UNDERSTAND INFORMATION USING VISUALS

WHY DATA VISUALIZATION IS IMPORTANT?



VISUAL DATA HELPS US TO THINK AND COMMUNICATE

GOLDEN RULES

OF CREATING A DATA VISUALIZATION POWERPOINT PRESENTATION



A PICTURE TELLS A STORY BETTER THAN A THOUSAND WORDS COULD



BY VISUALIZING YOUR DATA, YOU CAN COMMUNICATE YOUR STORY MORE EFFECTIVELY

4 KEY QUESTIONS FOR SUCCESSFUL DATA VISUALIZATION



WHAT IS THE STORY
YOUR DATA IS TRYING TO TELL?



WHAT TYPE OF DATA
DO YOU WANT TO EXPLAIN?



WHAT CHART TYPE WILL DISPLAY YOUR DATA IN THE SIMPLEST AND MOST EFFICIENT WAY?



WHO IS YOUR AUDIENCE?

WHAT IS YOUR STORY?

All data tells a story. Data visualization makes the story easy to understand



Are sales up or down? Is the birthrate on the increase?

Are expenses under control?



WHAT TYPE OF DATA DO YOU WANT TO EXPLAIN?

Quantitative data deals with numbers and things you can measure objectively. This can be:



POPULATION STATISTICS



SALES & EARNINGS

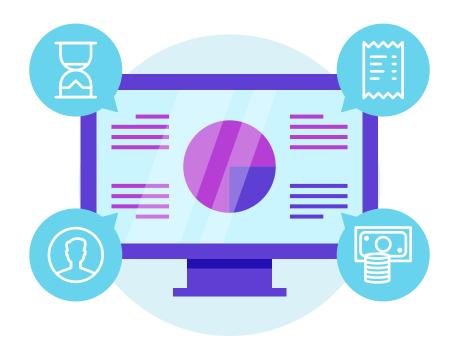


BUDGET FIGURES



EXPENSES FTC.

DATA TYPES



Nearly every organization has quantitative information to collect, dissect, understand and present Data visualization allows you to present this data in a simple visual way so that it makes sense at a glance Quantitative data is ideal for visualization. It summarizes the data's essential characteristics allowing to disregard exceptions



WHO IS YOUR AUDIENCE?



Are you presenting to a board of directors, healthcare professionals, prospective investors?



KNOW YOUR AUDIENCE



Your audience should influence how you visualize your data.

Understanding how your audience best digests data will influence which chart types you will use

KNOW YOUR AUDIENCE



Get to the point.

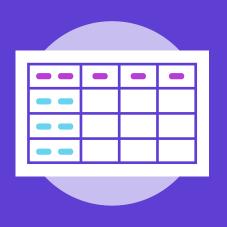
As much as storytelling is an art, knowing what your audience need to know from the numbers is critical. Choose the simplest and clearest chart type which allows you to get straight to the point

CHOOSE THE VISUAL AID THAT WILL SPEAK DIRECTLY TO YOUR AUDIENCE

WHAT CHART TYPE WILL DISPLAY YOUR DATA EFFICIENTLY?

Each chart type is suited to telling a different story.

Common chart types include:







- PIE CHARTS
- BAR GRAPHS

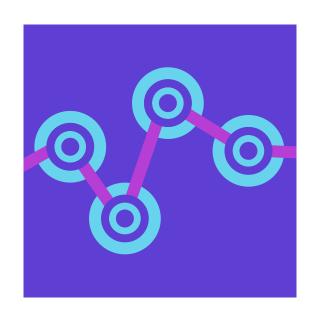
- LINE GRAPHS
- SCATTER GRAPHS
- BUBBLE GRAPHS
- O HEAT MAPS

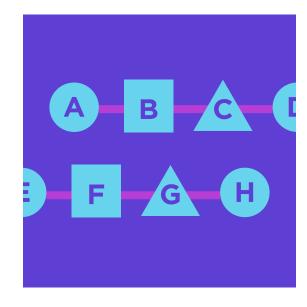
WHY VISUALIZE WITH GRAPHS

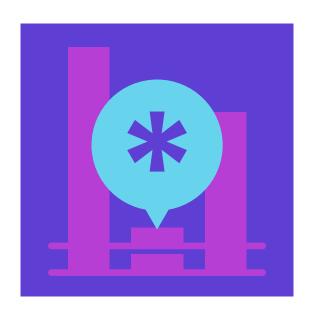


GRAPHS ALLOW YOU TO GET STRAIGHT TO THE POINT A SIMPLE GRAPH CAN TELL A STORY OF A THOUSAND WORD

GRAPHS ALLOW YOU TO SHOW





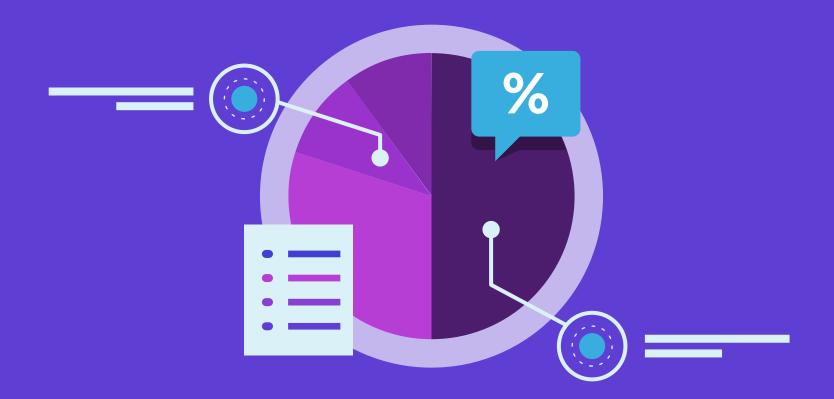


TRENDS

PATTERNS

EXCEPTIONS

DATA VISUALIZATION USING PIE CHARTS

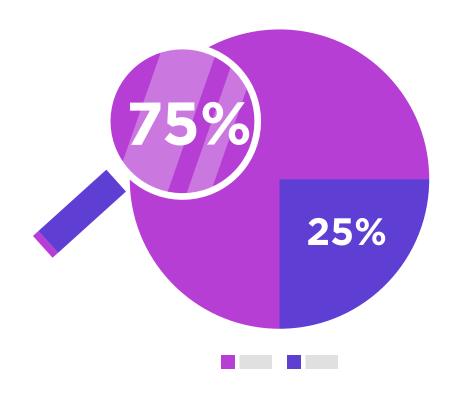


Perfect for displaying proportions and percentages in a part-to-whole relationship



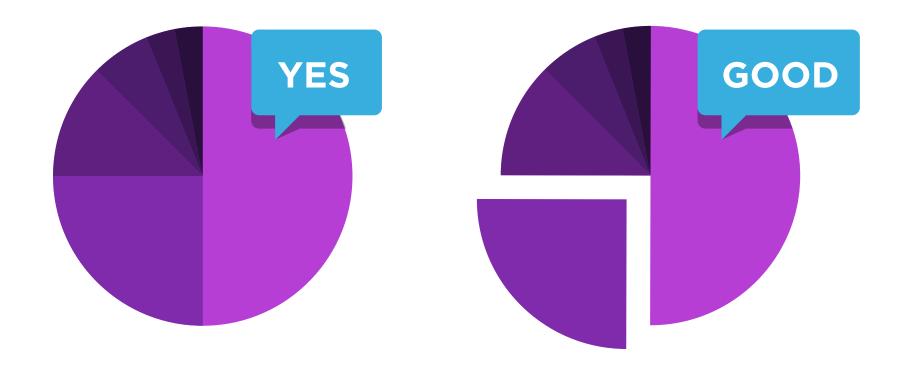
Less is more: limit the number of categories to 5 or less

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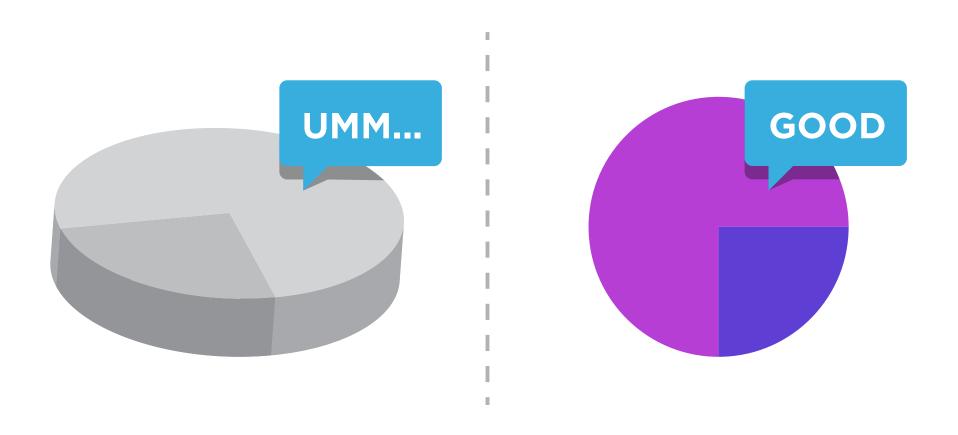
Clearly label percentages to avoid misinterpretation of the segment sizes





Order slices so that they are quickly understood

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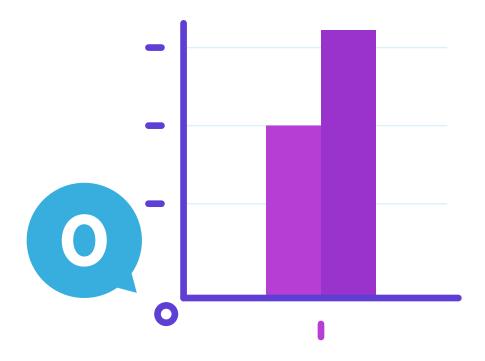
Avoid the use of 3D pie charts, they make the data more difficult to understand

BAR GRAPH



Use a bar graph to show groups comparison. They can be either horizontal or vertical

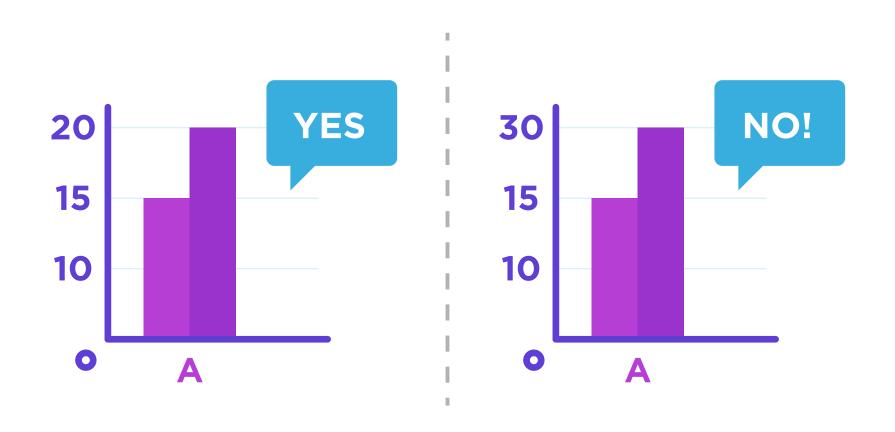
BAR GRAPH TIPS



Always start value axis at zero



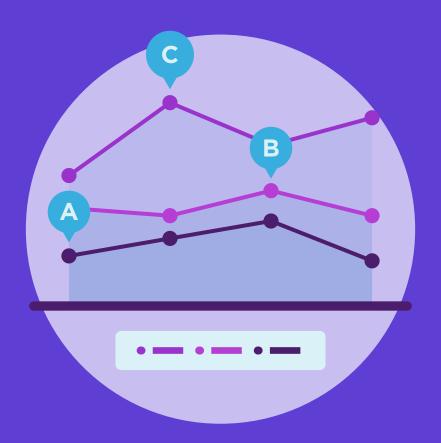
BAR GRAPH TIPS



Use a consistent scale

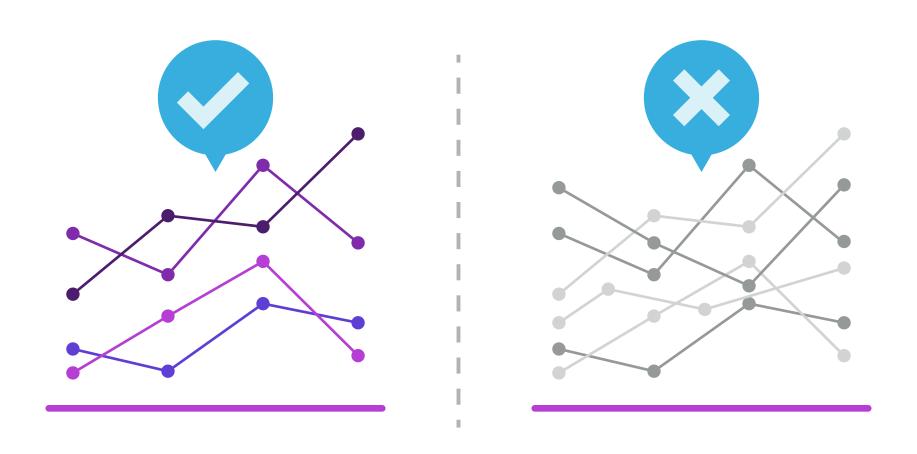


LINE GRAPH

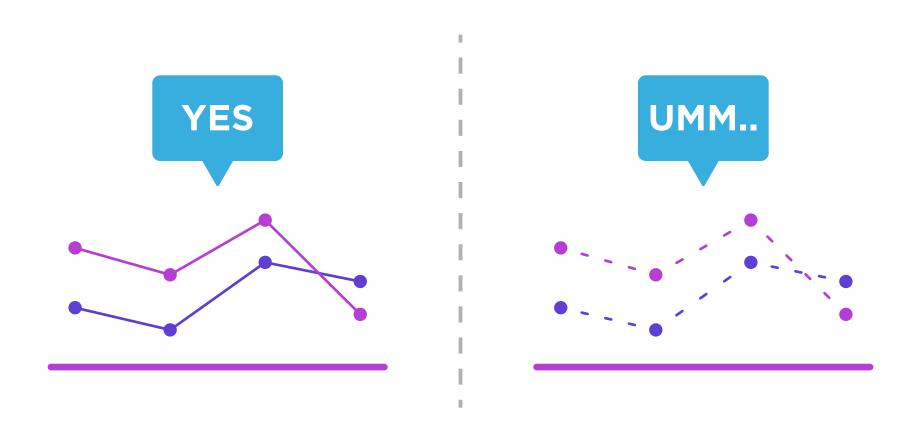


A line graph uses a line to show time-series relationships of continuous data. They are great for showing trends and changes over time

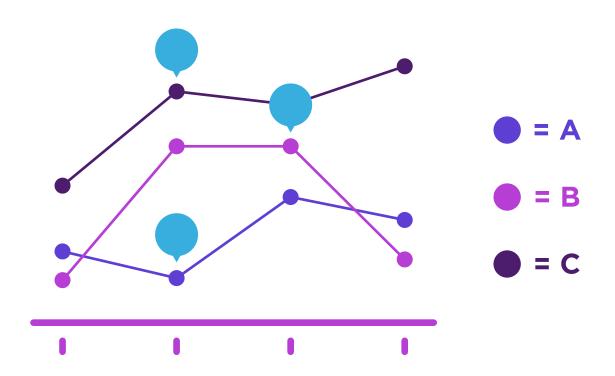
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Use a maximum of 4 lines when comparing

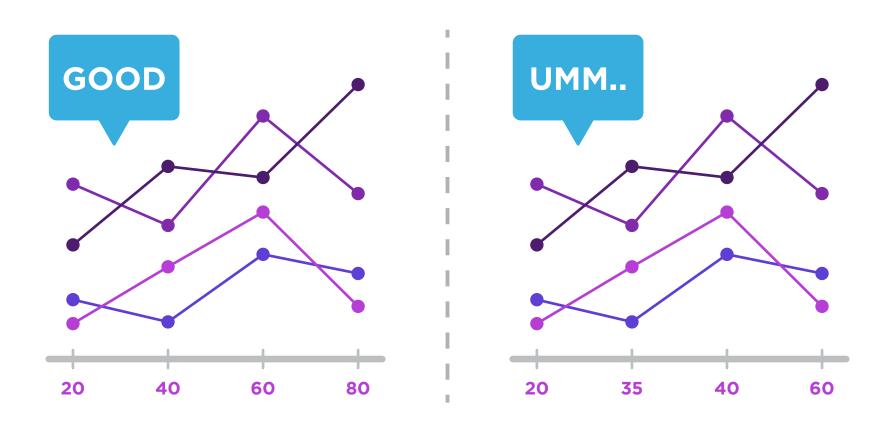


Use solid lines and not dotted lines



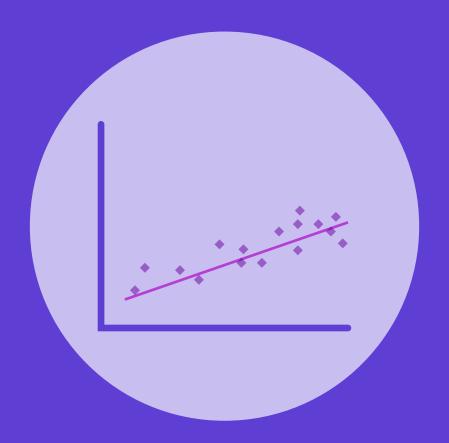
Label each line separately





Use a correct scale for the graph

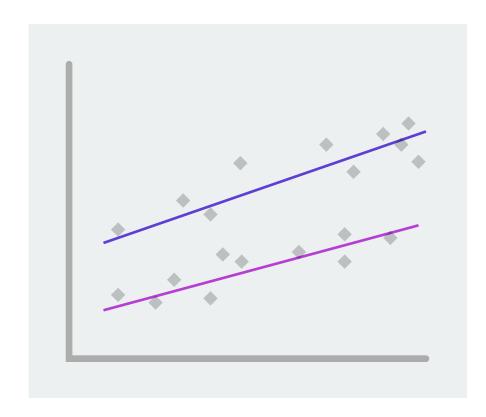
SCATTER GRAPH



Scatter graphs can be used to show the relationship between two variables. Perfect to use for large data sets such as population or epidemiology studies.

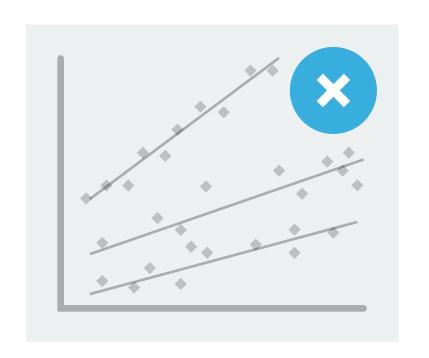
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SCATTER GRAPH TIPS



Use lines to show trends & relationships.

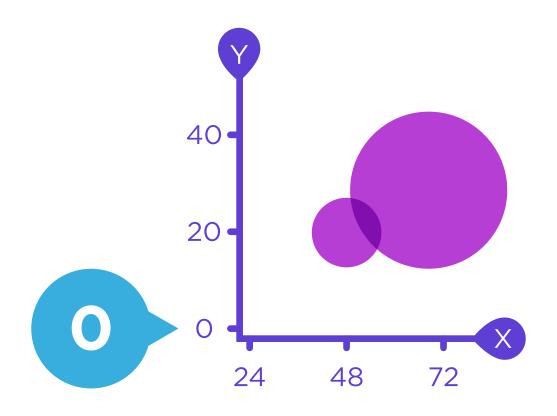
SCATTER GRAPH TIPS





Use as few lines as possible

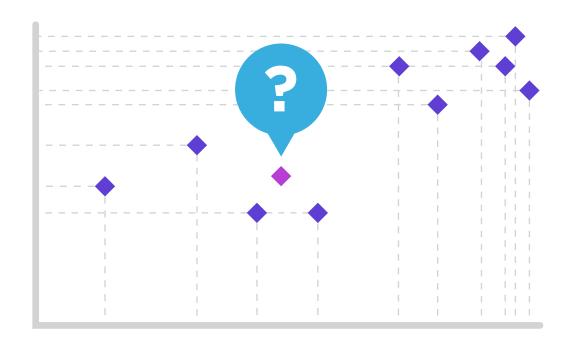
SCATTER GRAPH TIPS



Always start with the Y-axis at O.



SCATTER GRAPH TIPS



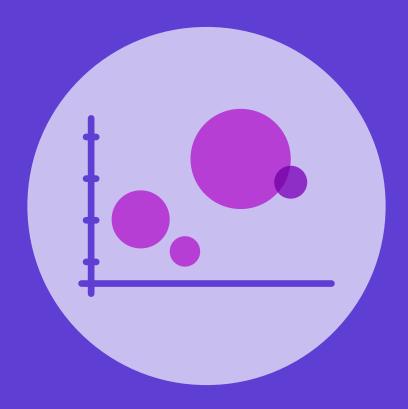
WARNING:

Be wary of creating a non-existent cause-effect relationship



BUBBLE GRAPH

Bubble graphs can be used to show 2, 3 or 4 variables on the same graph.



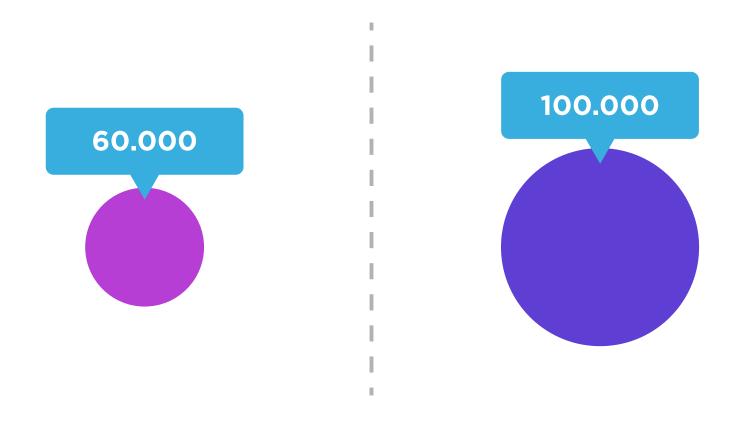
By using different size or colour of bubbles, a bubble graph can show relationships between data in a very clear manner.

BUBBLE GRAPH TIPS



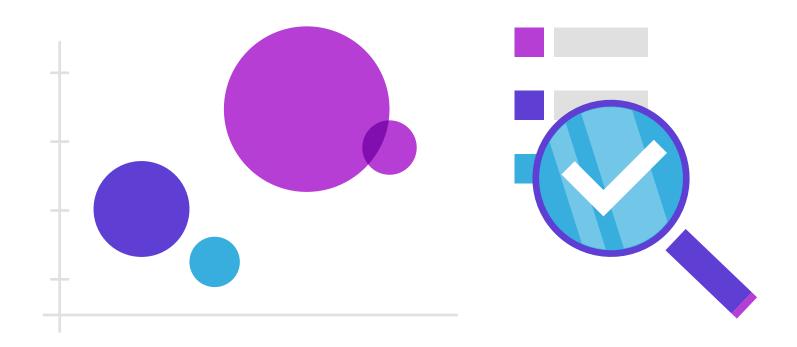
Use simple shapes. Circles work best.

BUBBLE GRAPH TIPS



Size bubbles appropriately.

BUBBLE GRAPH TIPS



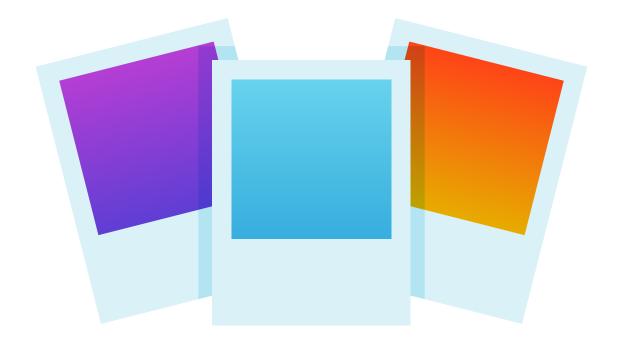
Use clear and visible labels.

HEAT MAP



Heat maps are great for showing geographical or complex data. By using different shades of color, comparisons can be clearly shown

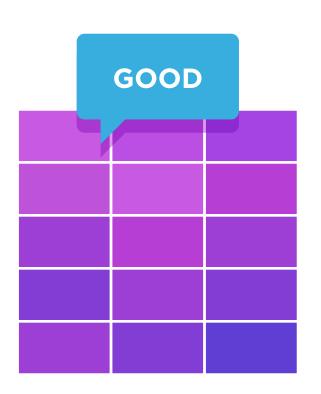
HEAT MAP TIPS

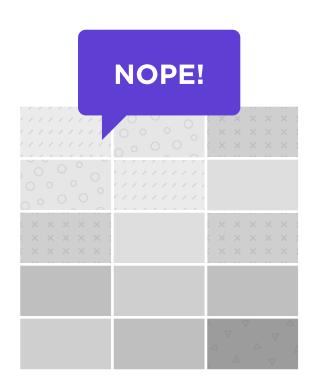


Use simple color gradients



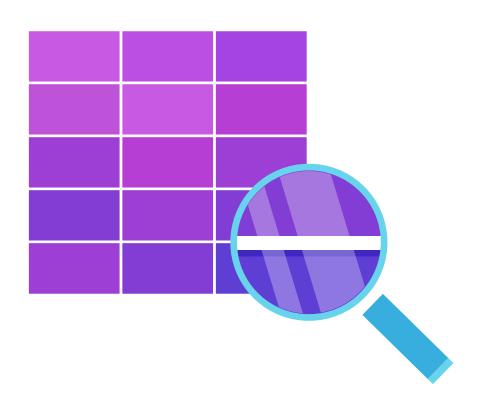
HEAT MAP TIPS





Keep patterns to a minimal

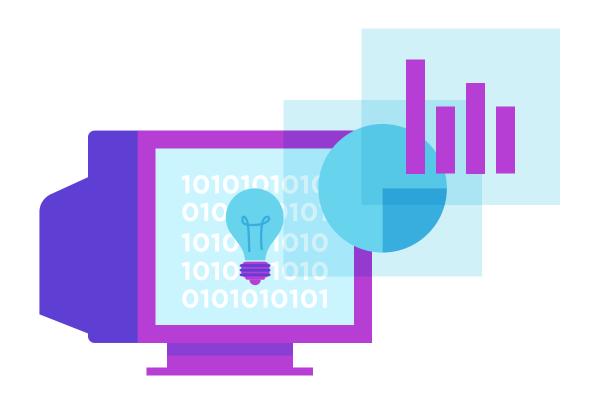
HEAT MAP TIPS



USE CLEAR MAP BOUNDARIES

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WHAT YOU HAVE LEARNT



YOU SHOULD KNOW MORE ABOUT DATA VISUALIZATION BY NOW

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4 KEYS TO DATA VISUALIZATION



TELL A STORY



EXPLAIN DATA SIMPLY



CHOOSE THE RIGHT VISUAL (CHART TYPE) FOR EFFECTIVE COMMUNICATION



SPEAK TO YOUR AUDIENCE



VISUALIZE DATA TO TELL A BETTER STORY FOR YOUR AUDIENCE

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