Data Viz with ++++ + a b | e a





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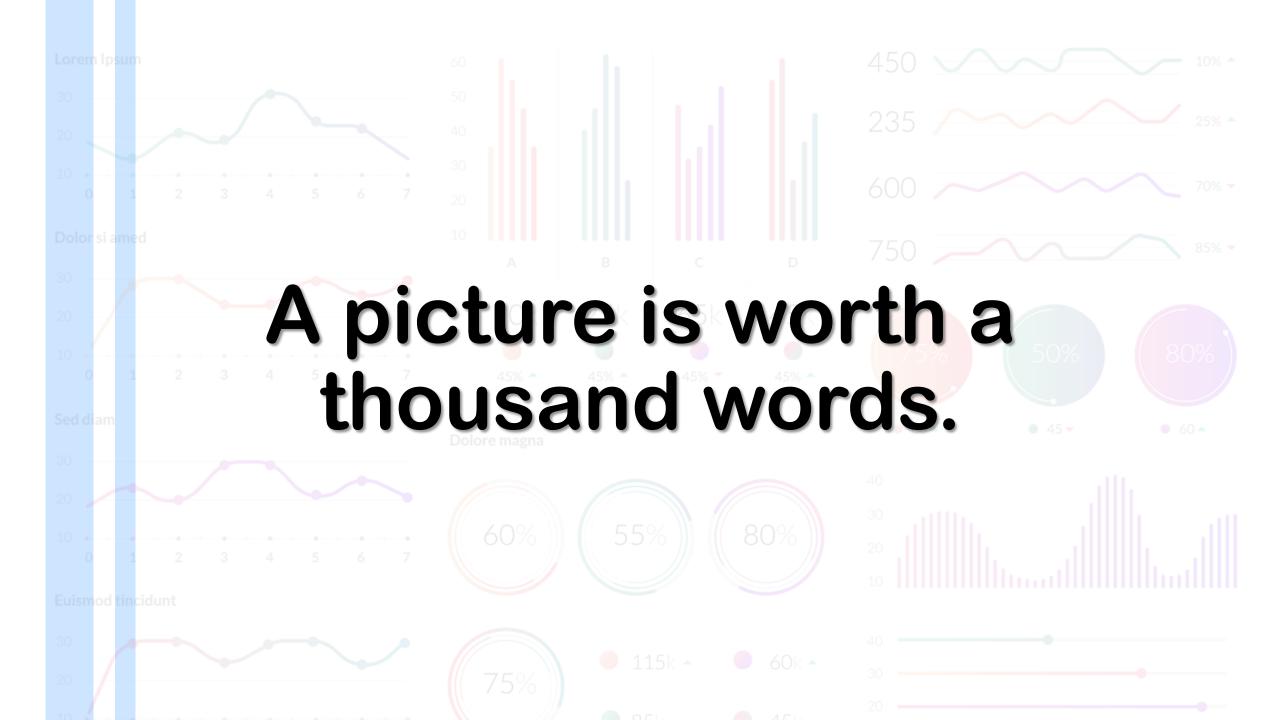
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What is Data Visualization??

The use of various visual aids on data to

describe, represent, contrast, discover patterns, draw attention, stimulate interest, focus on, ...



Find Stories in Our Data

7 20 600



We can **imagine** various stuffs when looking at a data.

This gives us insights!

Euismod tincidunt

Tell Stories using Our Data 23



Knowing data helps us select intended perceptions to convey our messages.

Understanding Data Types











Lorem Ipsum

Missing Values

Dolor si amed

30

10

30

10

Euismod tincidunt

20

Non-zero value



null



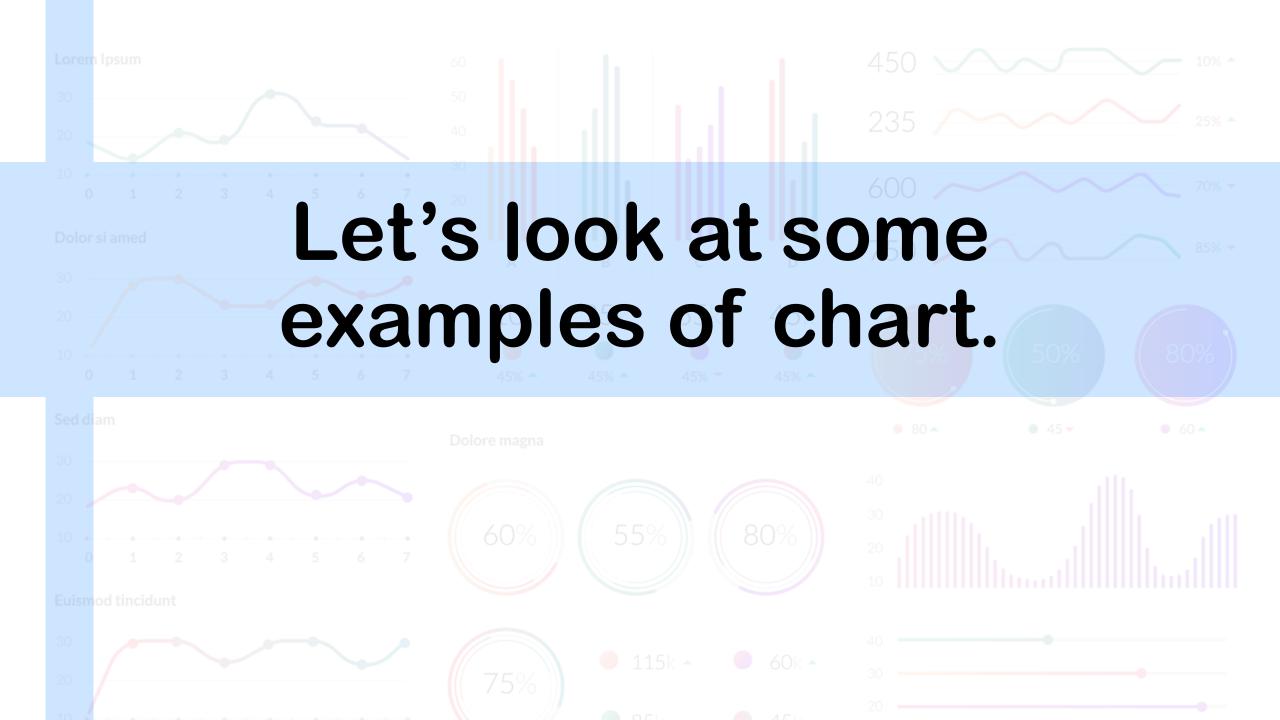
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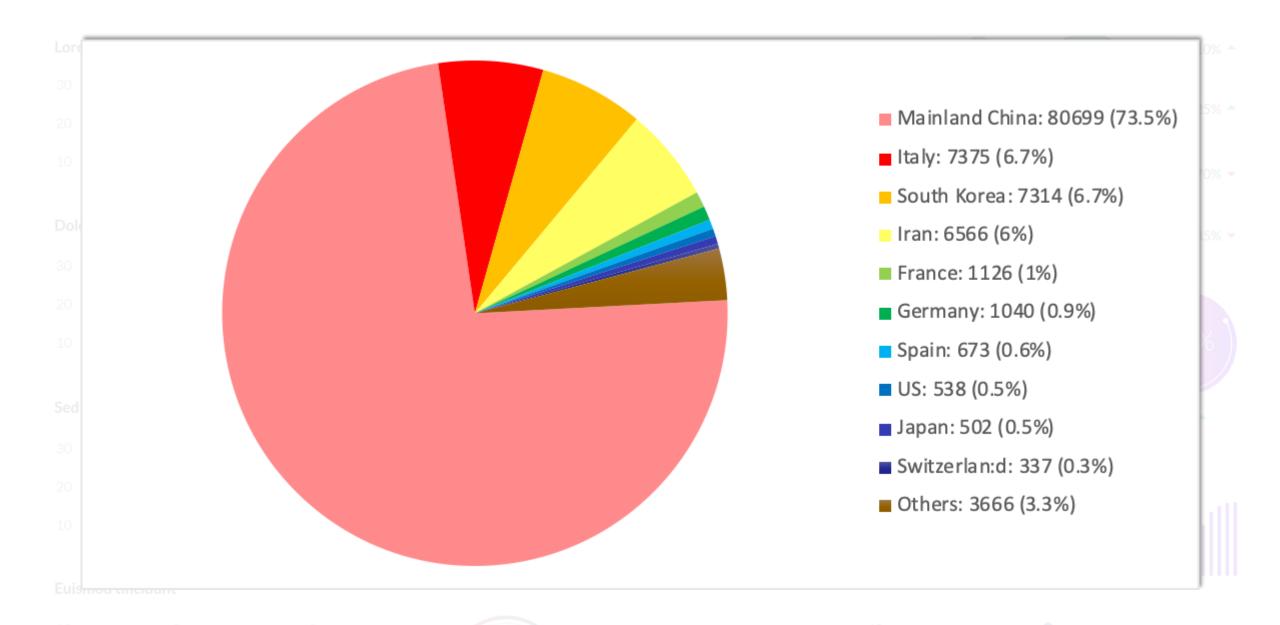


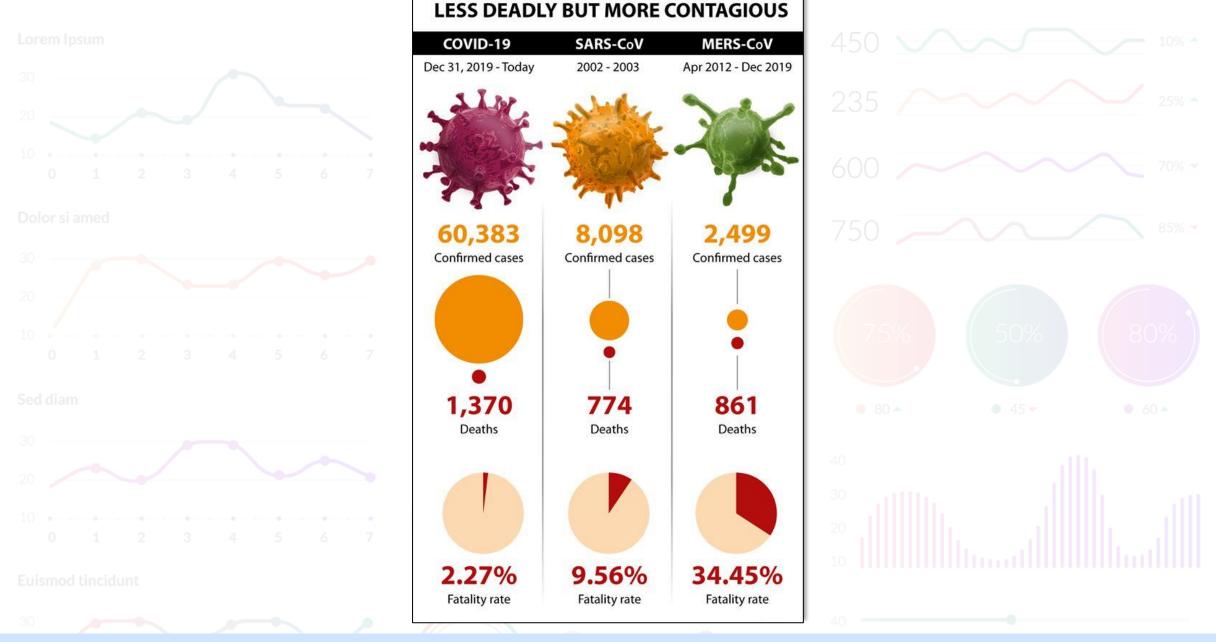
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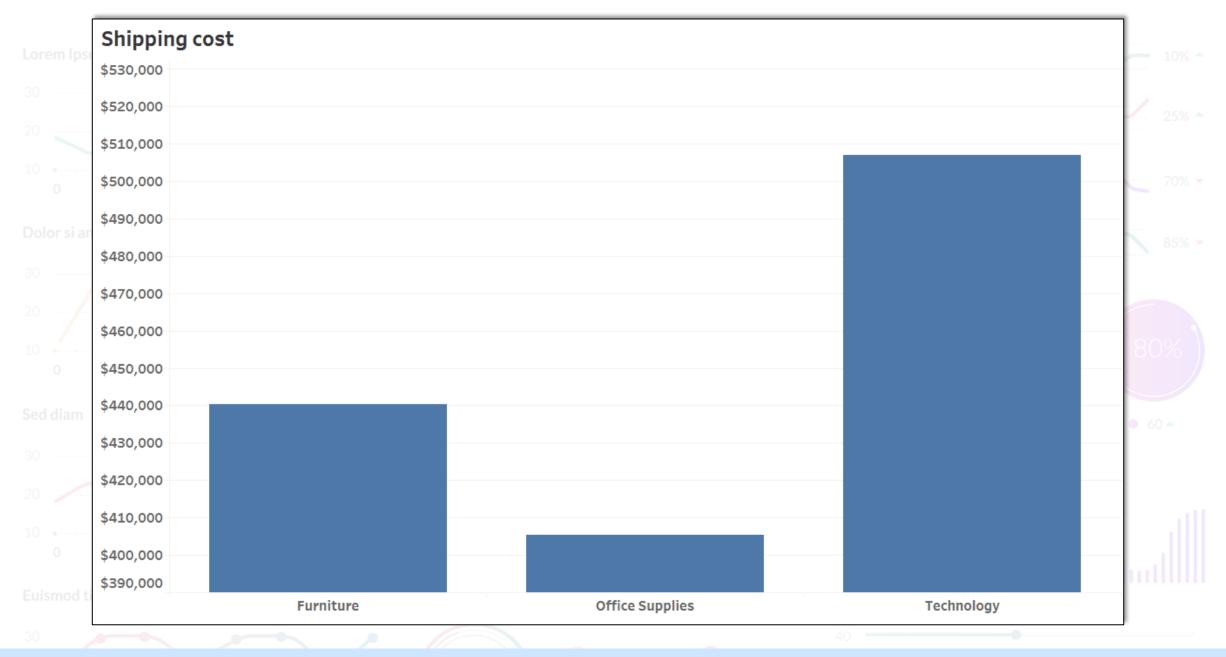
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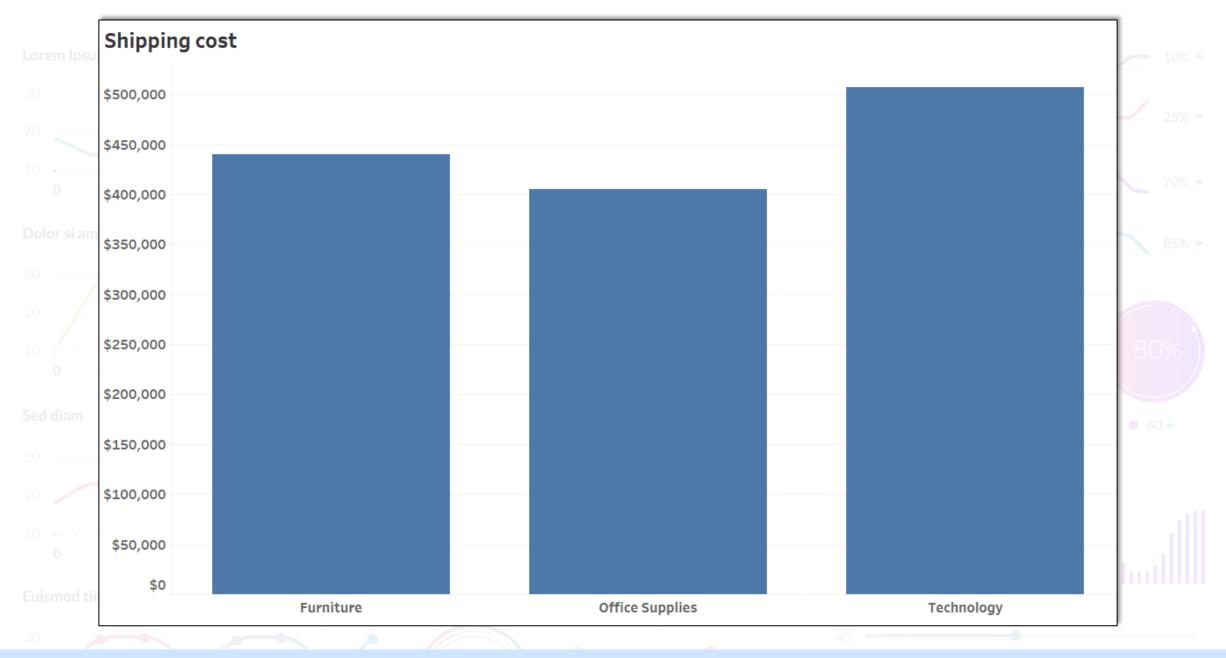


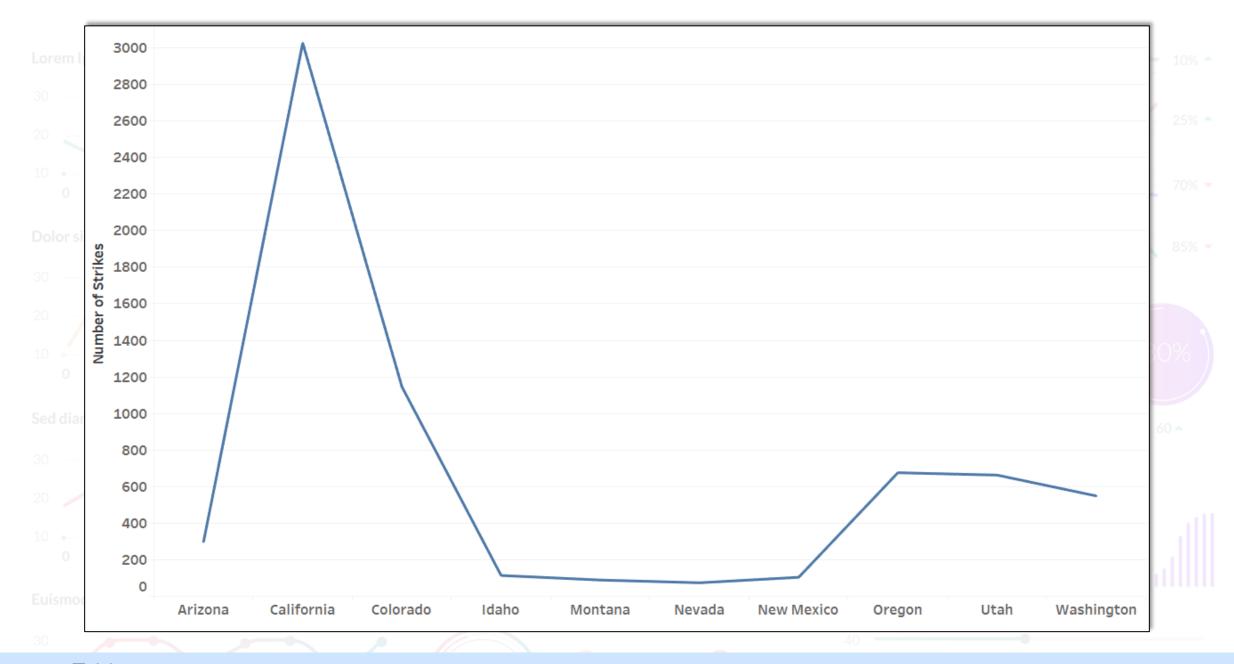


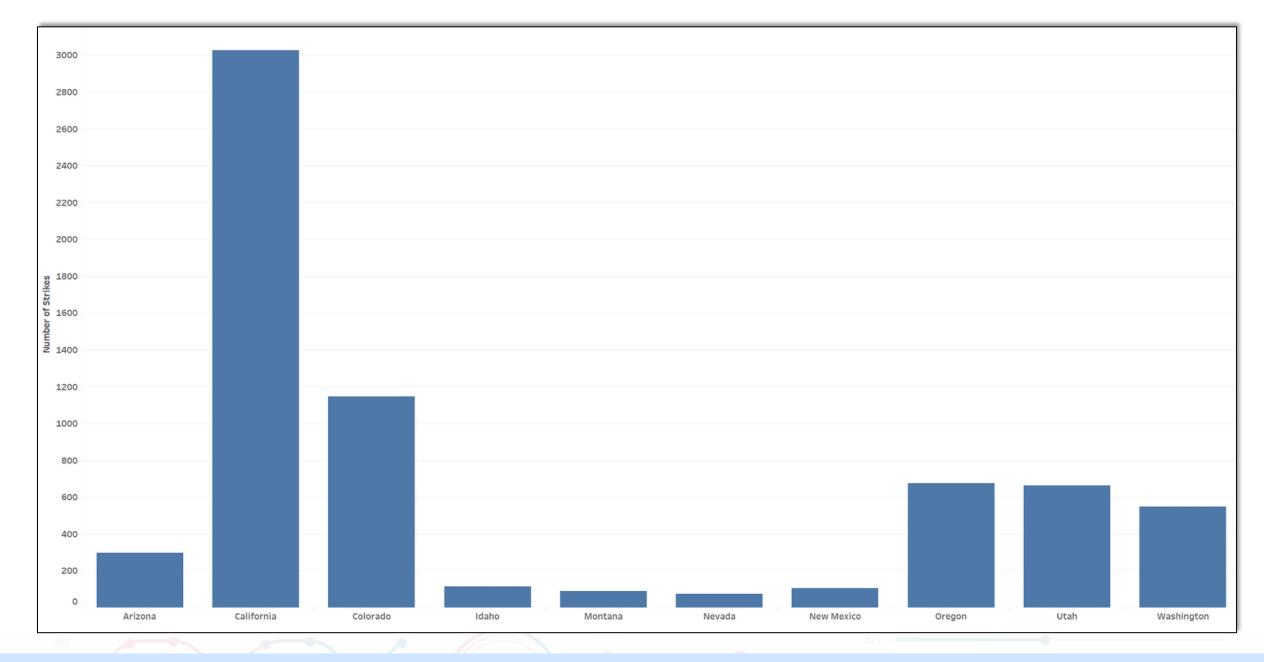


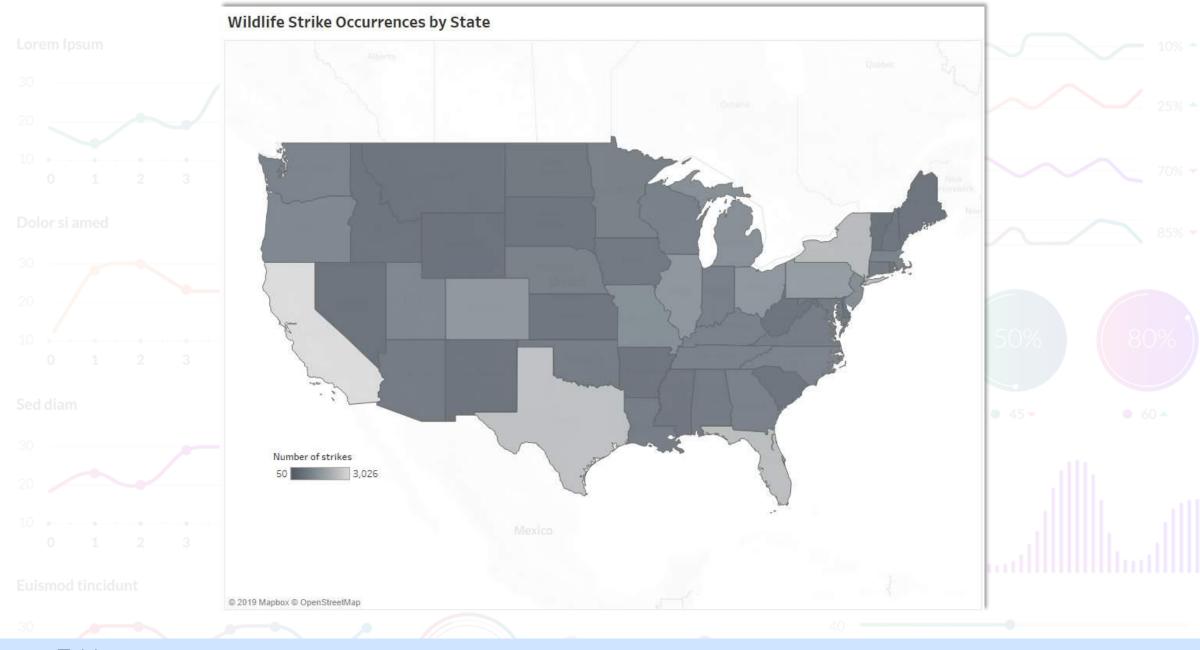
Source: WHO and Johns Hopkins University

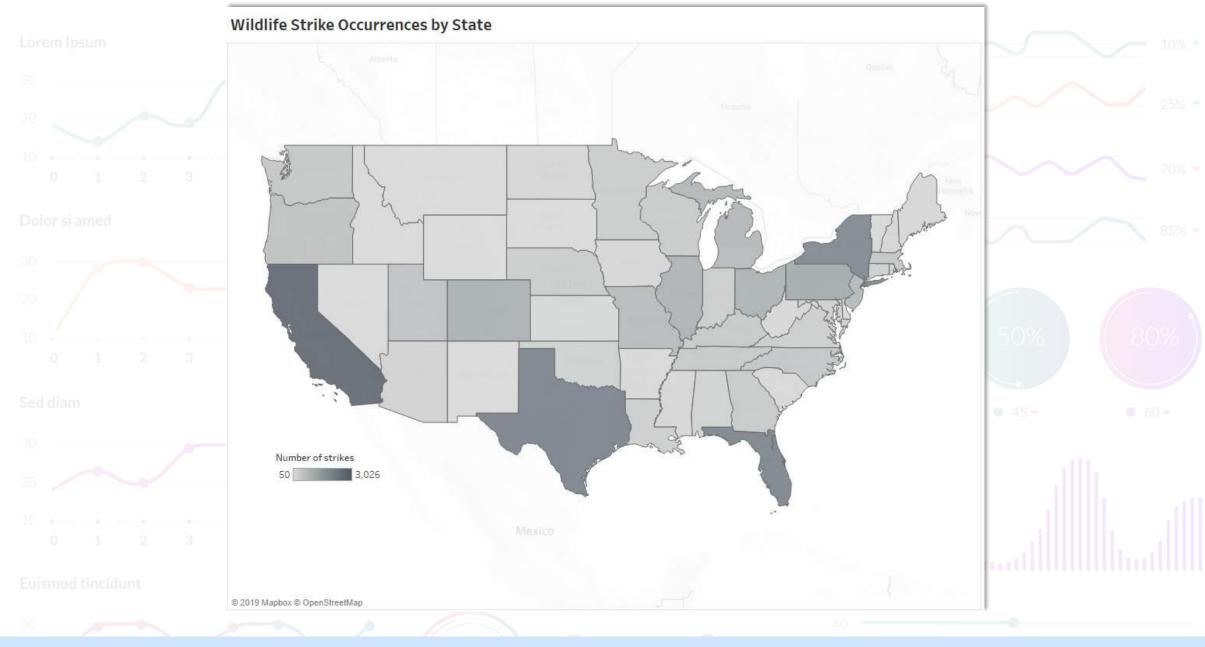










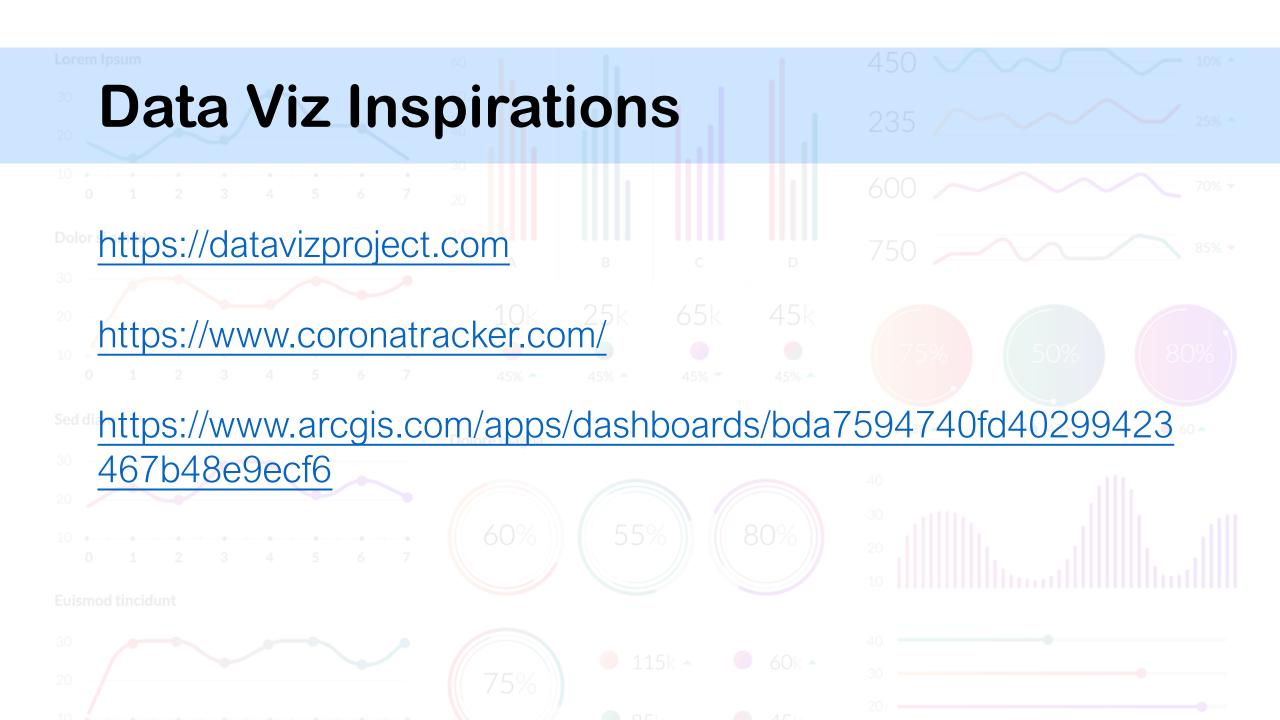


Common Viz Issues

- Inappropriate choice of chart type
- → Too much information
- → Poor choice of visuals (color, patterns, lines, ...)
- Inconsistent visuals and scales
- → Inaccurate quantitative representation

Data Viz Tips

- Be **curious**. Think. Develop our **senses** to spot weird patterns or trends.
- Focus on our audience. Different audiences may interpret differently.
- Ensure clarity, precision, efficiency



Last Question

How many dimensions can we represent in a single chart?

x-axis, y-axis, secondary y-axis, colour, size/area, shape/pattern, ... (anymore?)

Tools

- → Tableau Desktop for Students (2 years free license): https://www.tableau.com/academic/students
- → Tableau Online: https://sso.online.tableau.com/public/idp/SSO
- → Tableau Public: https://public.tableau.com/en-us/s/

Resources

- → Tableau e-learning (after signing up Tableau for Students): https://elearning.tableau.com/
- Tableau free training: https://www.tableau.com/learn/training/20211