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





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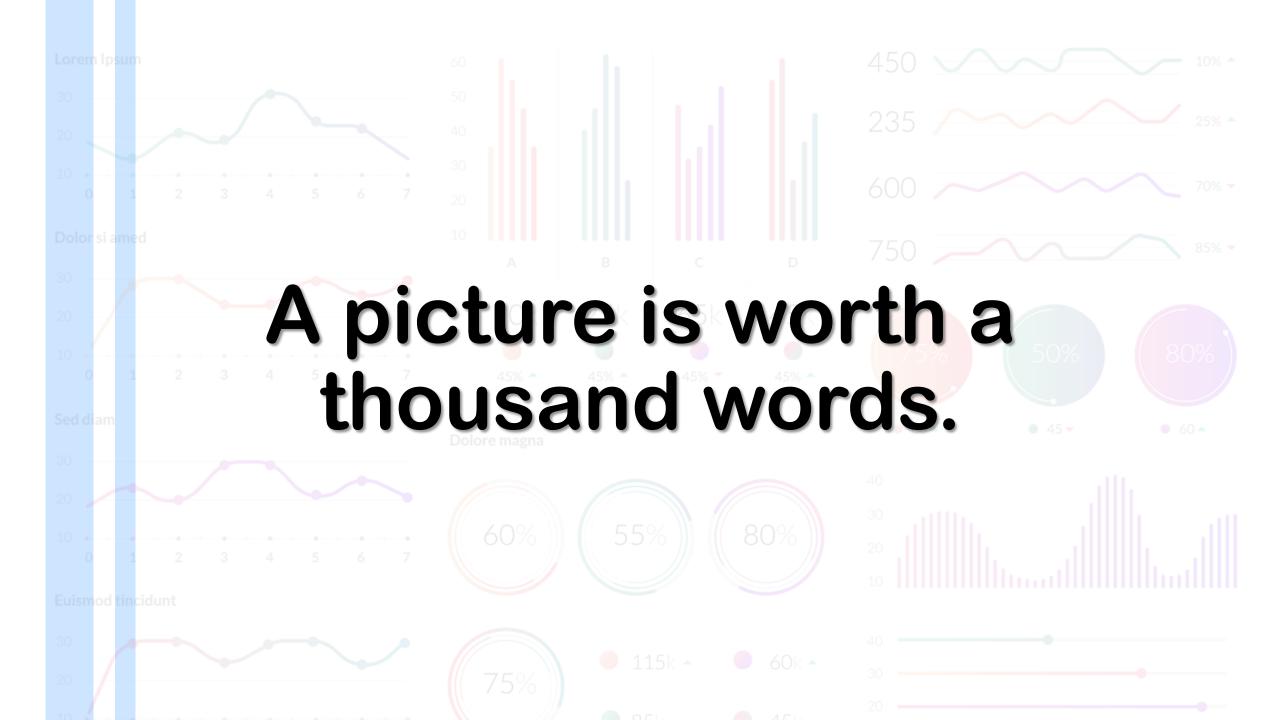
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What is Data Visualization??

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 10 A B C D 750



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

This gives us insights!

Euismod tincidunt

Tell Stories using Our Data 2



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



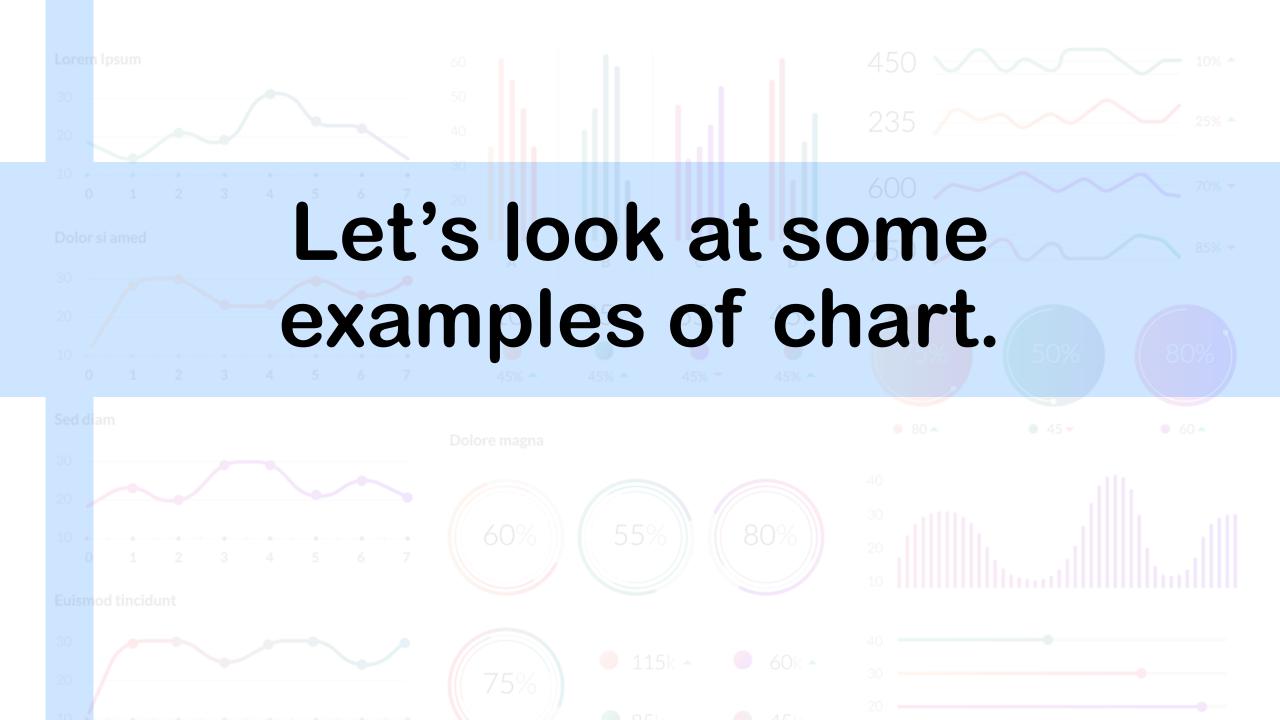
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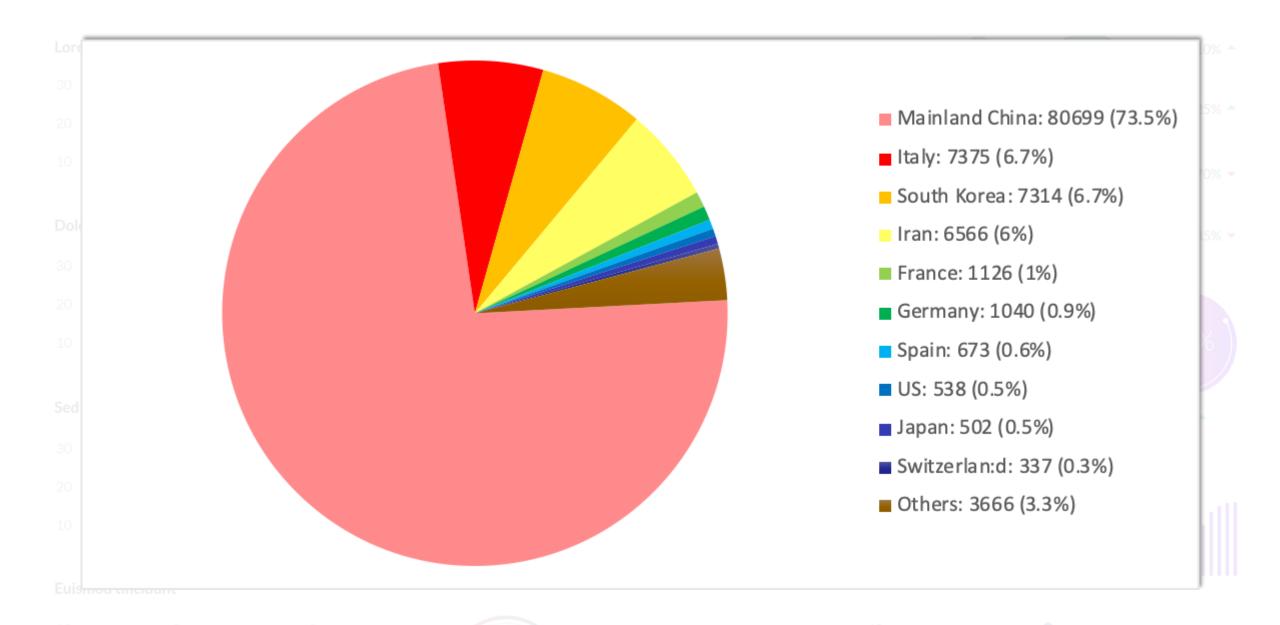


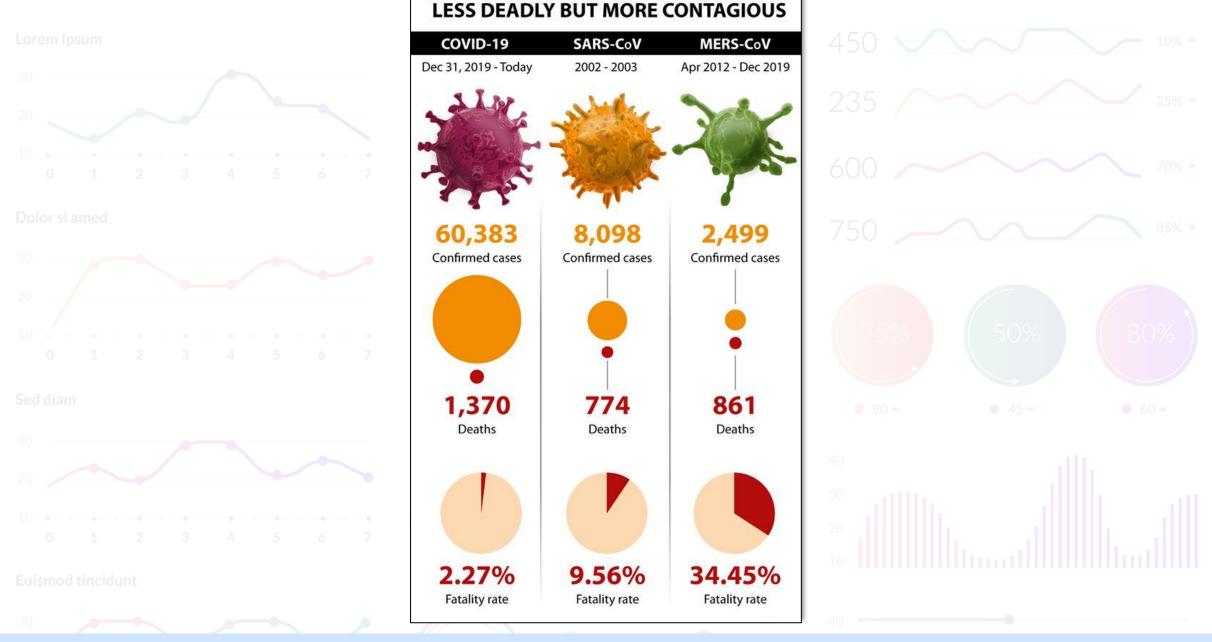
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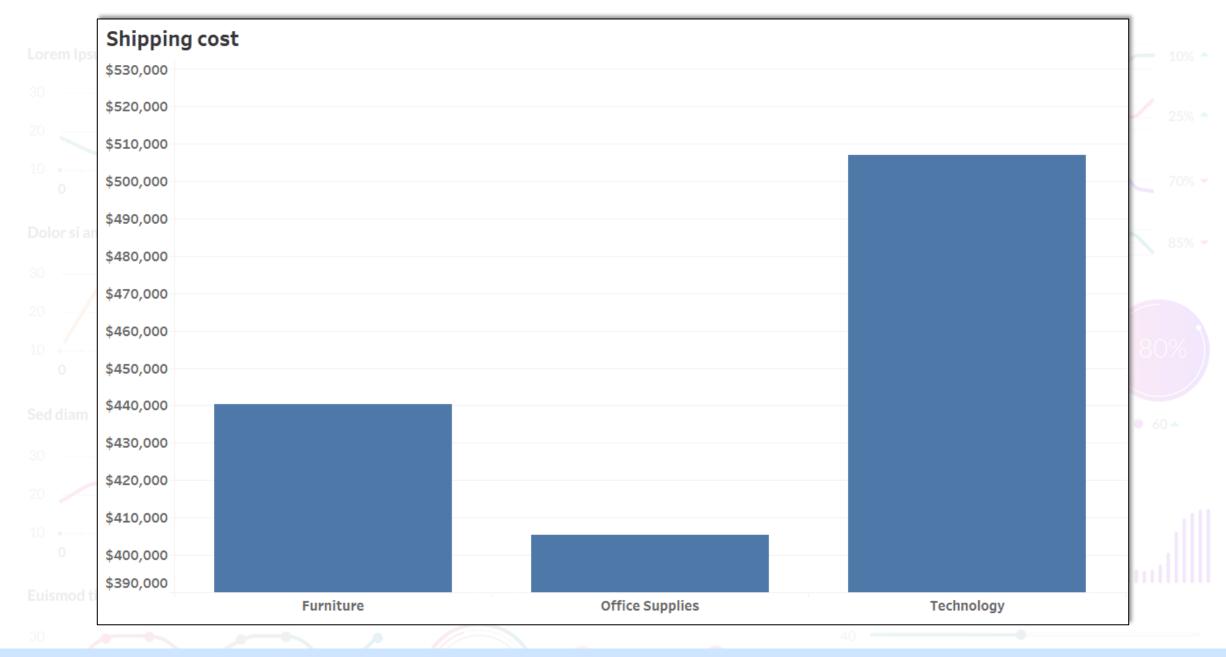
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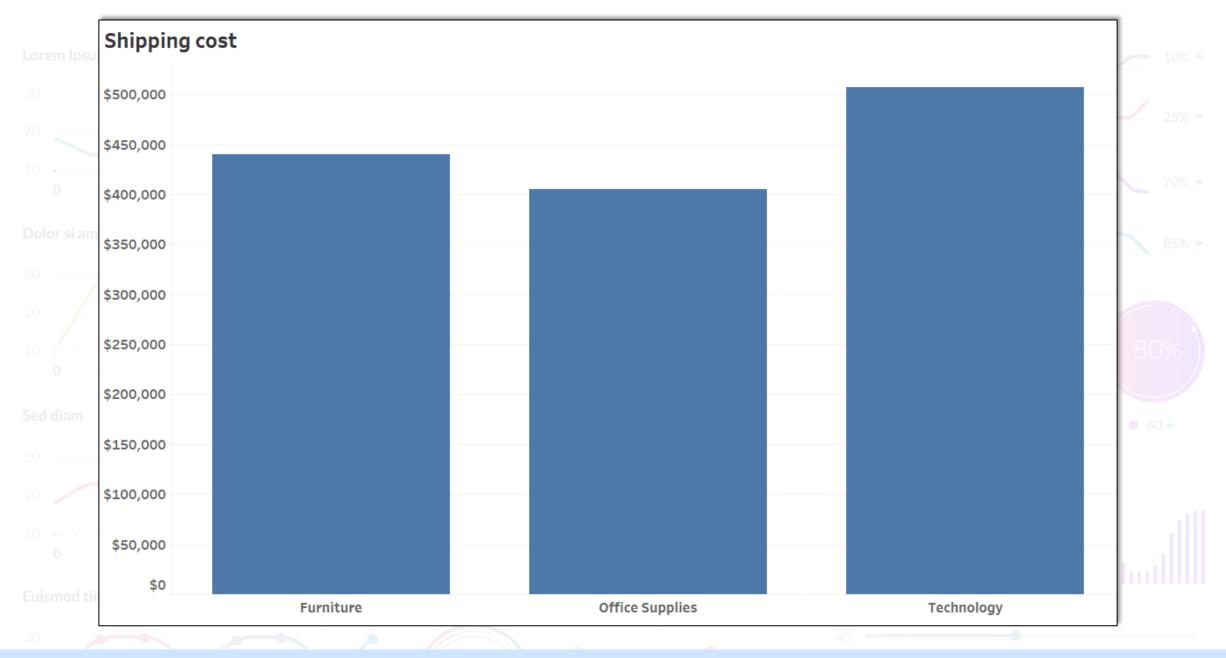


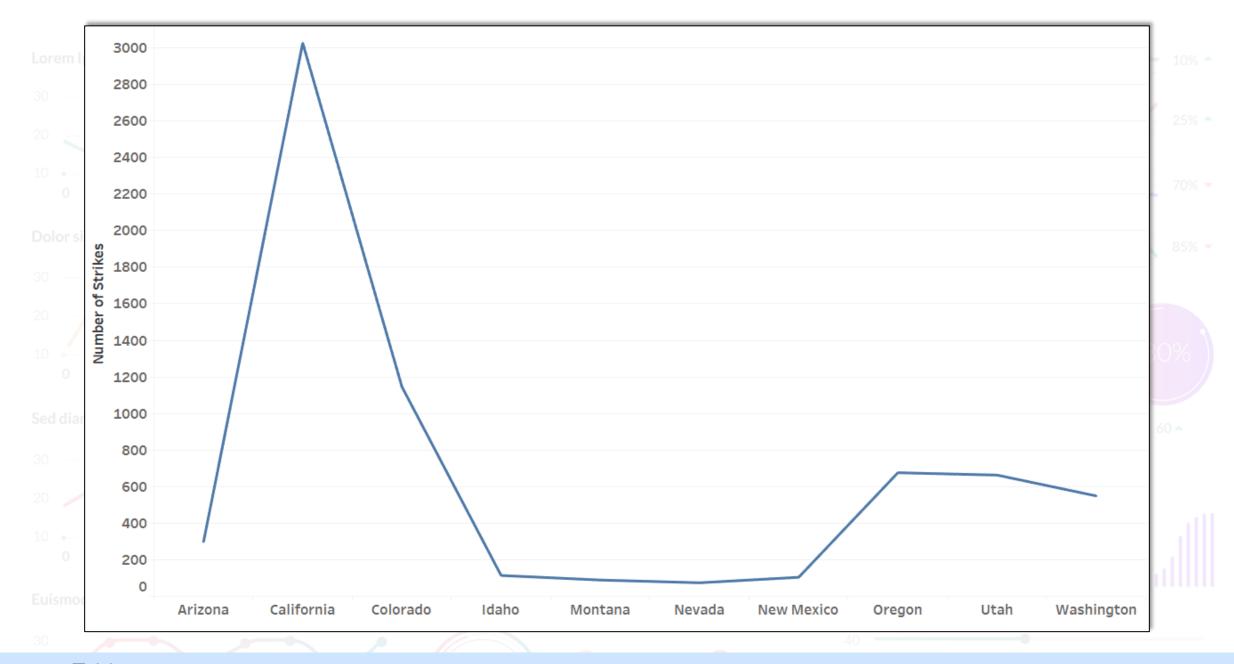


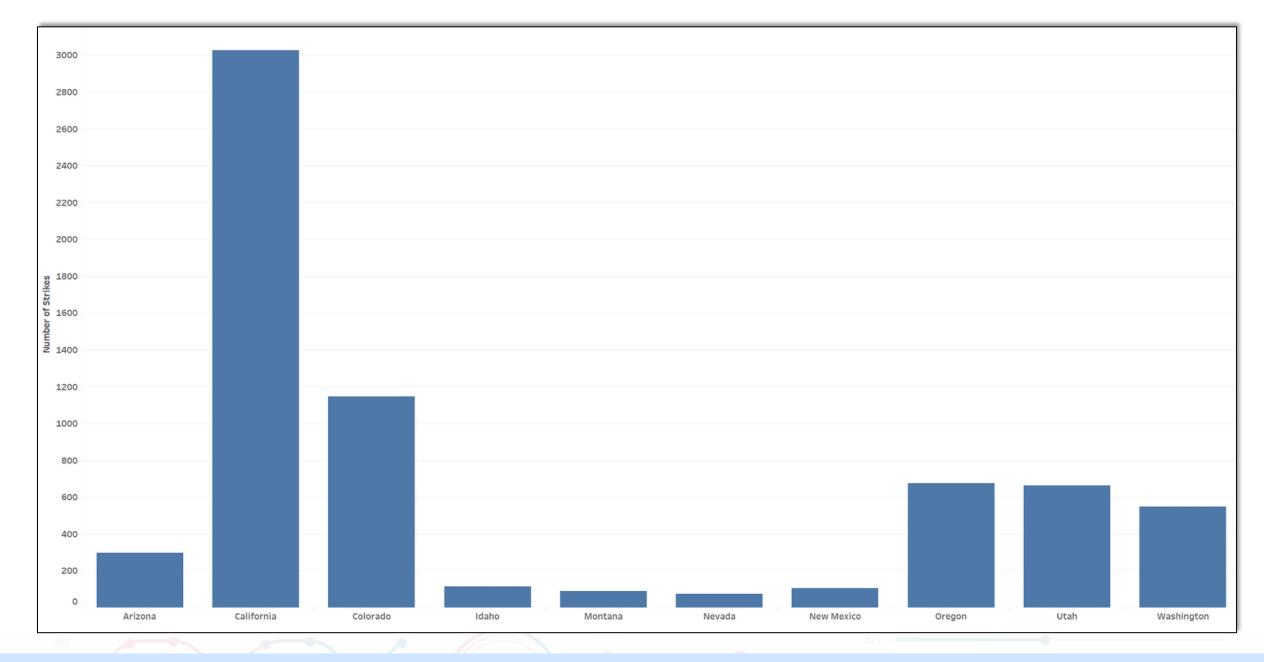


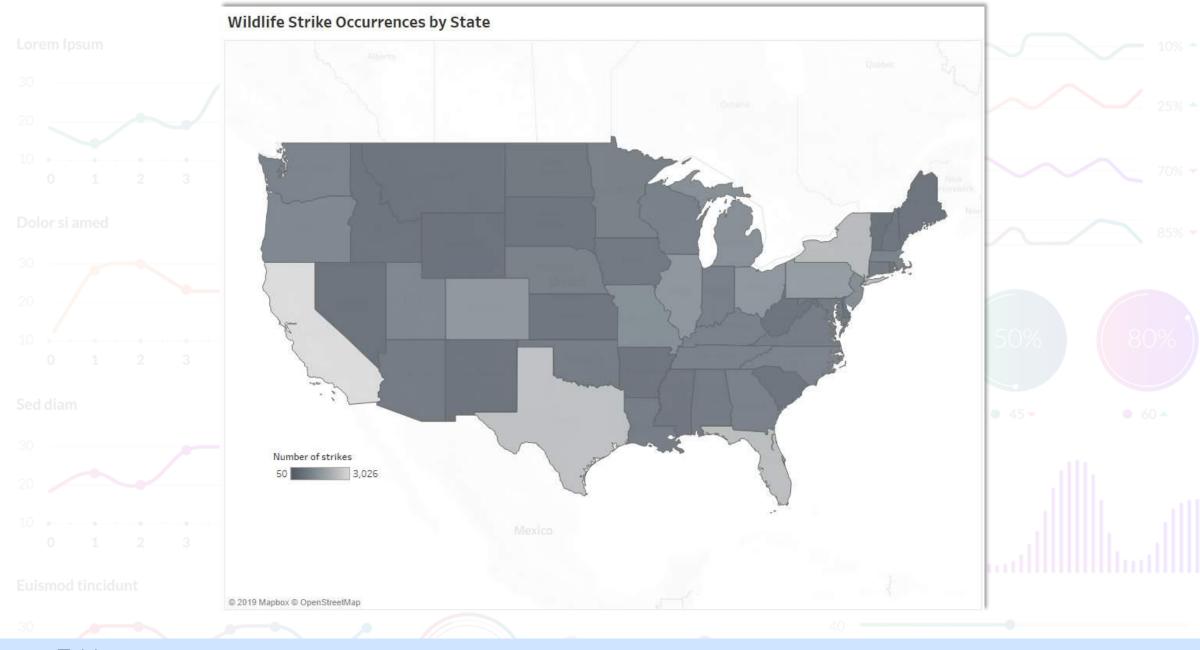
Source: WHO and Johns Hopkins University

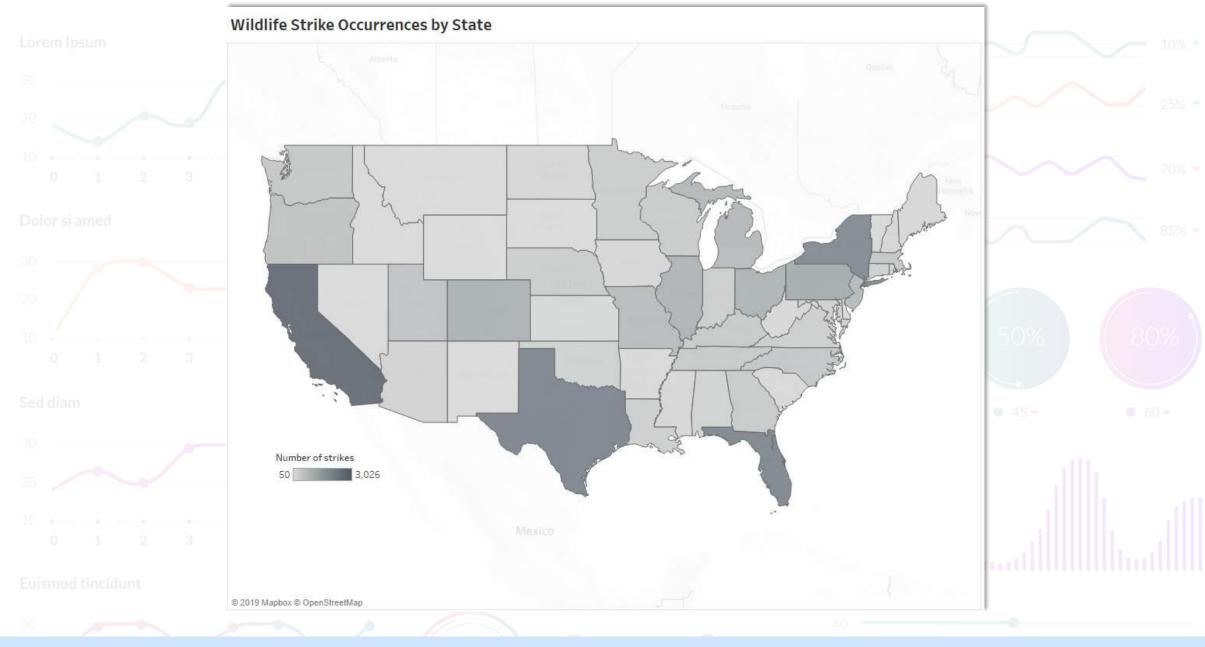










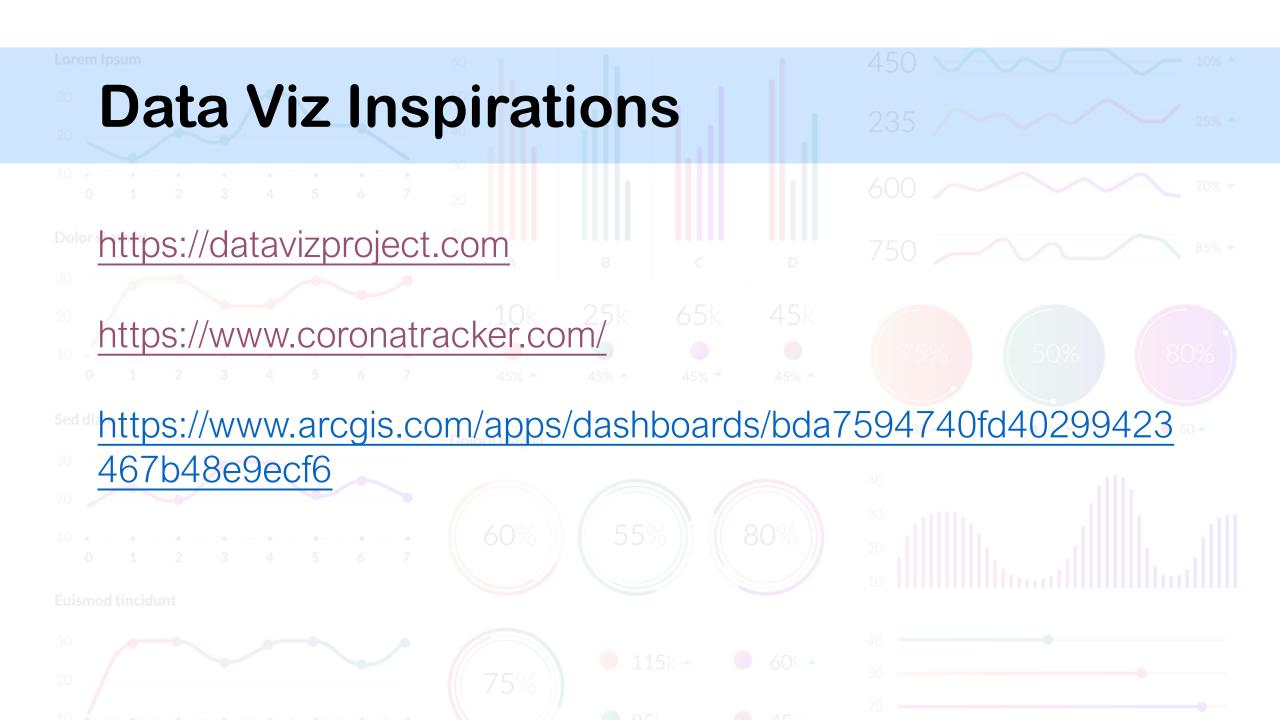


Common Viz Issues

- 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 **curios**. 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