Bytes&Bites: Visualization

VU VRIJE UNIVERSITEIT AMSTERDAM

LOOKING FURTHER

Introduction

New software community at the VU:

Bytes and Bites

- for all programming languages
- for beginners and experts

Bytes

- presentations on interesting topics
- bring your questions and bugs
- hackathons and coding sprints

Bites

- Pizza!

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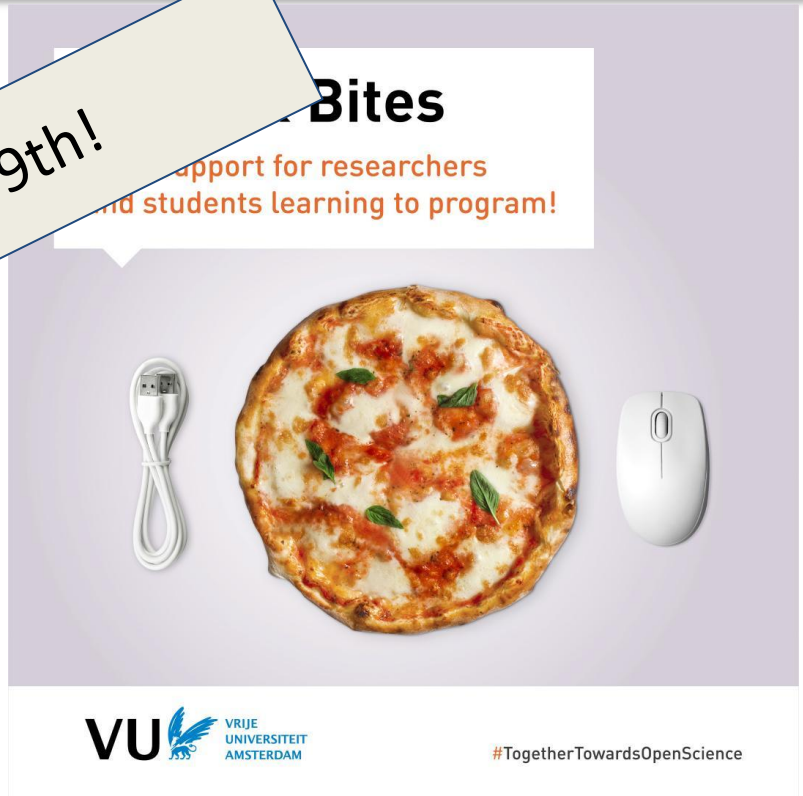
Bytes

- presentations on int
- bring your q
- hacka prints

Bites

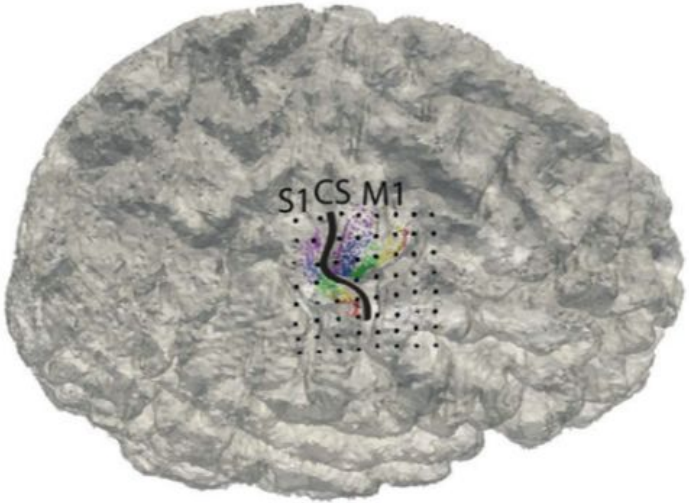
- Piz

Next Bytes & Bites will be May 9th!

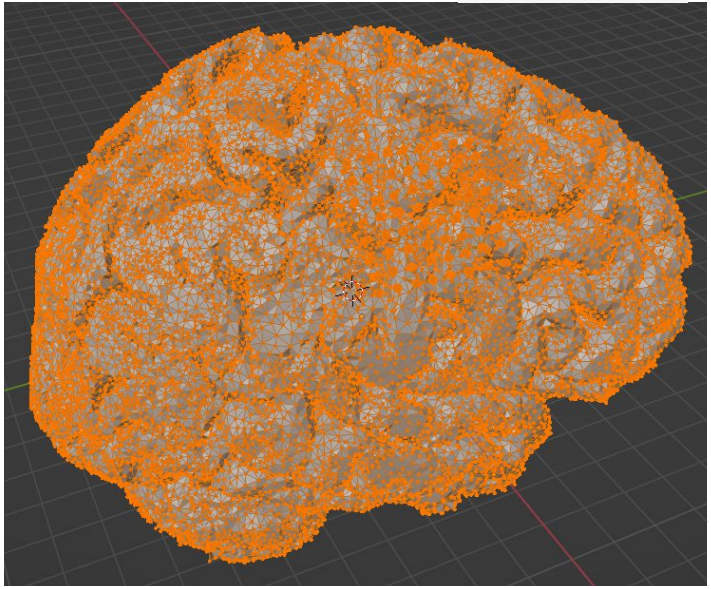


Introduction

ParaView
Parallel Visualization Application

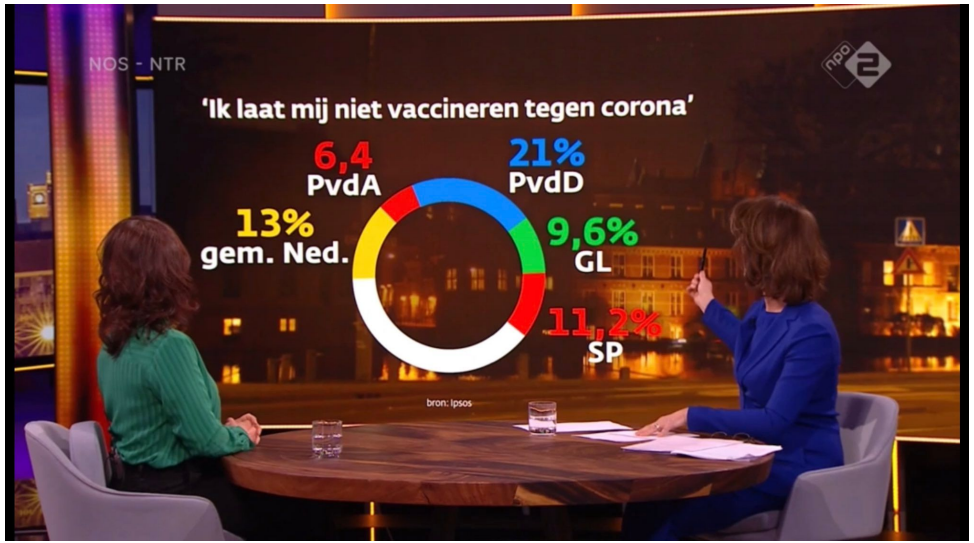


blender



What is good visualization?

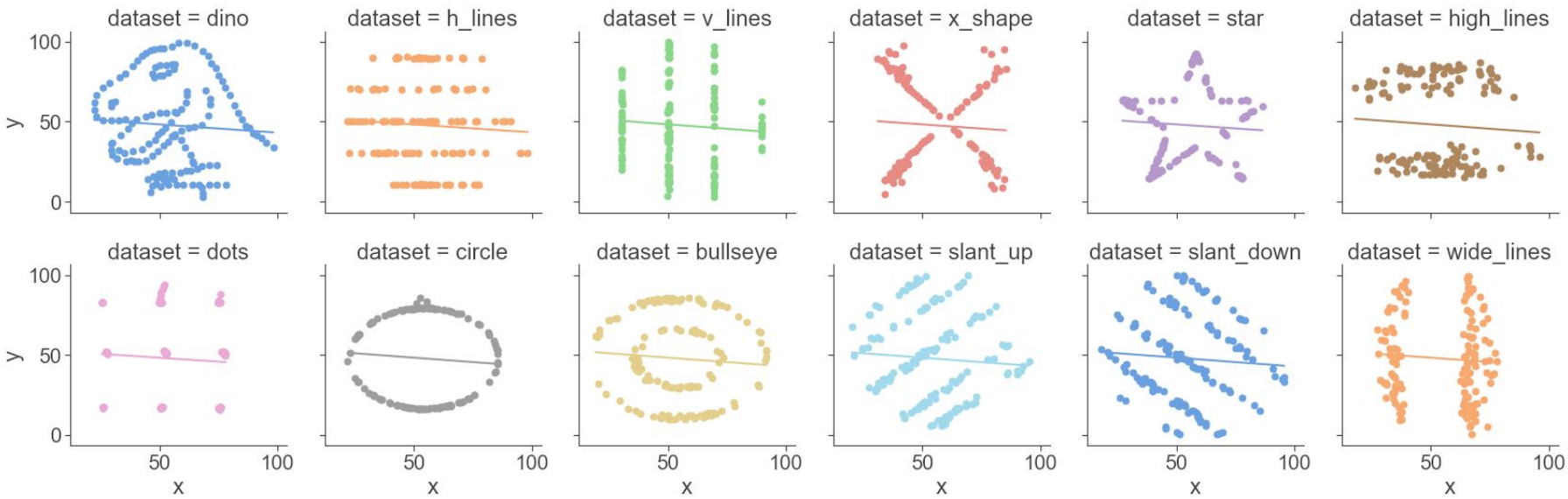
- **Fair representation**
- **Effective and efficient**



https://viz.wtf/

Visualization says more

Fair representation



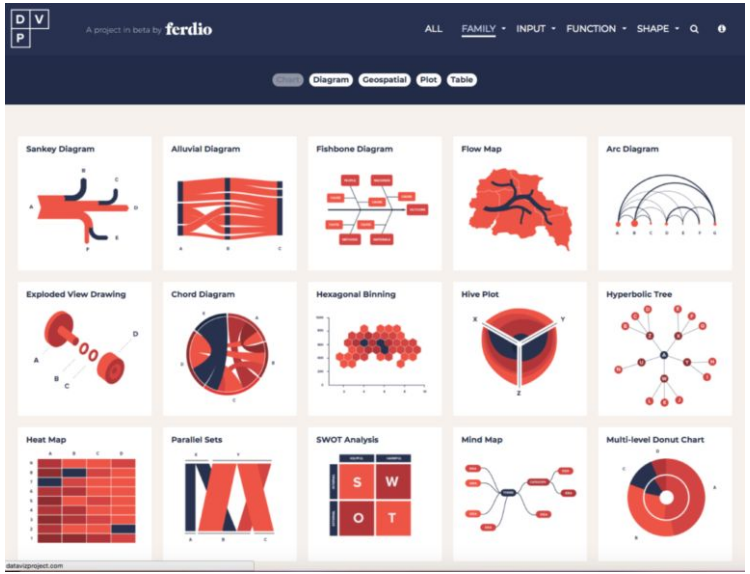
https://github.com/jumpingrivers/datasauRus

Visualization types

Fair representation

Which figure to use

- https://datavizcatalogue.com/
- https://datavizproject.com/



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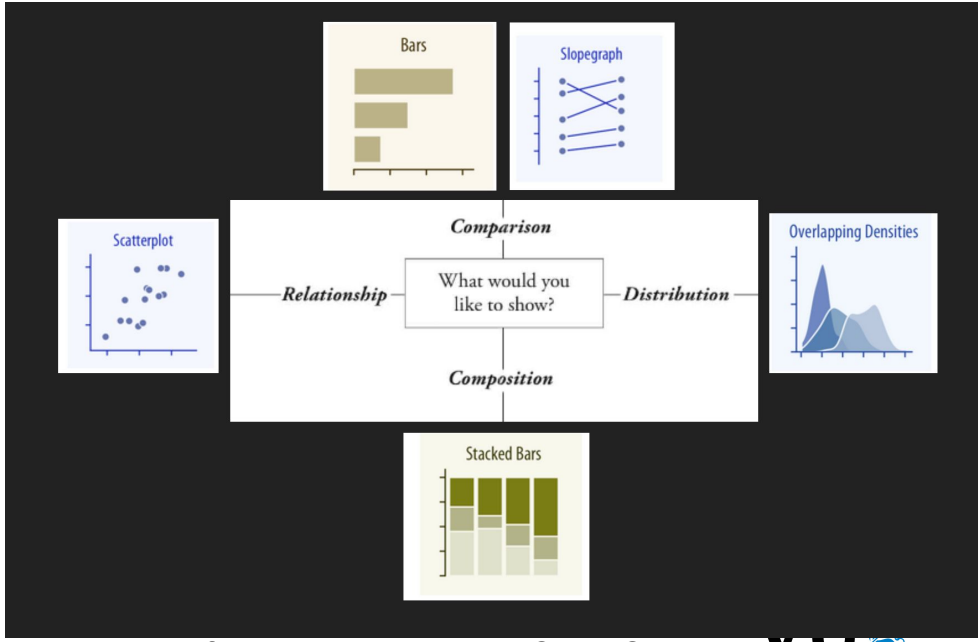


Fundamentals of Data Visualization by Claus O. Wilke

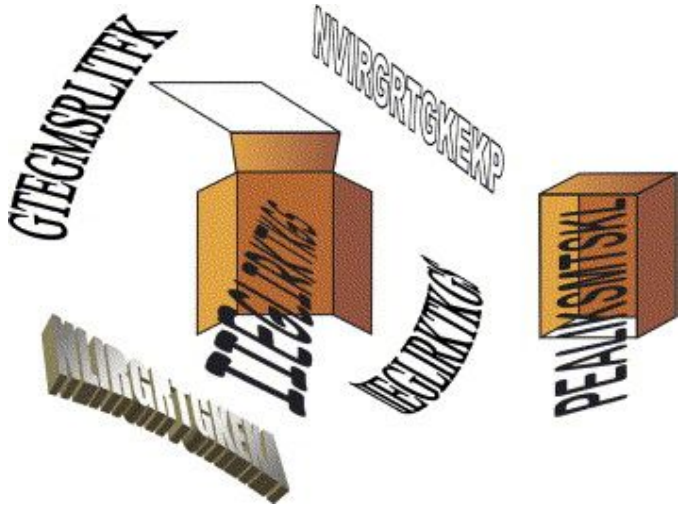
Reduce cognitive load

Your target audience will be:

- More willing to read your paper
- More likely to understand the data/results
- More willing to accept the results
- More likely to remember them:

Reduce cognitive load

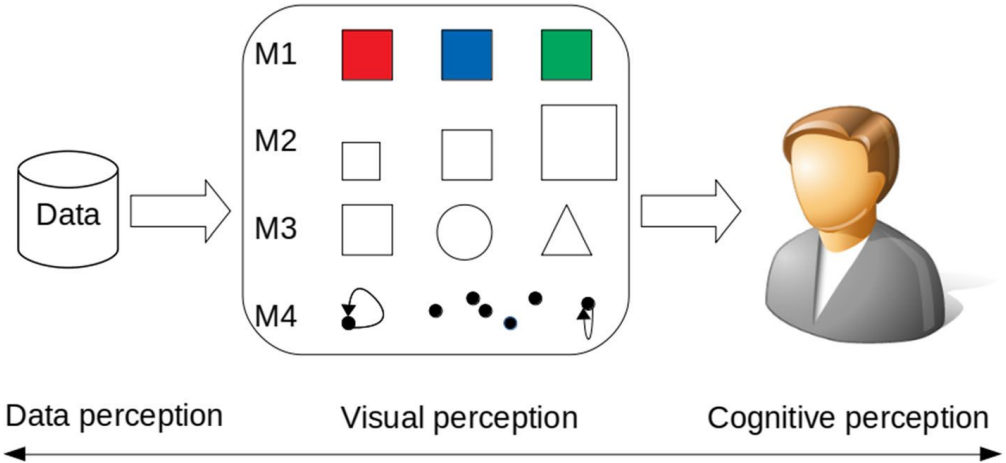
- **Think about your audience**
- **Use a main (single) message**



https://doi.org/10.1016/j.bbamcr.2006.08.022

Elements in visualization

- Mapping data features to channels (color, shape, …)



https://doi.org/10.1186/s42492-021-00092-y

Let’s start making figures

- Use any of the datasets provided on the GitHub page (https://ubvu.github.io/bytes-and-bites/)
- Think of how to show the message you want to make
  - which variables to which channels
  - which figure type(s) (play around!)
- Make the visualizations