

# Data Visualization

## ASSIGNMENT 4: RESULTS

Tea Tušar, Data Science and Scientific Computing, Information retrieval and data visualization

## Assignment 4: Visualize survey results

### *Data Visualization State of the Industry Survey*

- Survey: <https://www.datavisualizationsociety.org/survey>
- Results for 2022: [Google Sheet](#), see tab **data2022main**

Create a single visualization of the 2022 survey results for one of the two questions

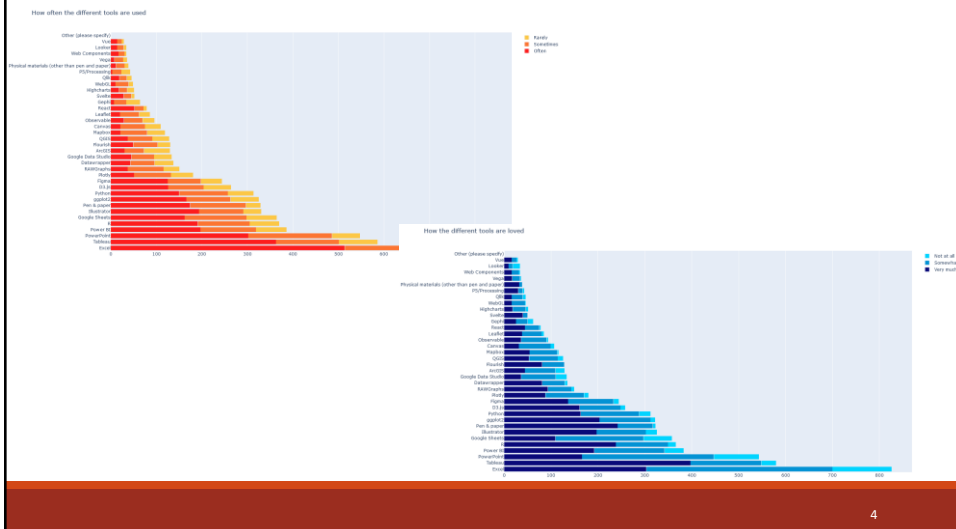
- Which are the most popular tools?
  - Show at the same time which tools are used (Q36), how often they are used (Q37) and how loved they are (Q38)
- Which tools are most often used together (Q36)?

Send the visualization to me via a private chat on Teams by **Friday, October 27**

# Q1: Which are the most popular tools?

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## Two separate bar charts



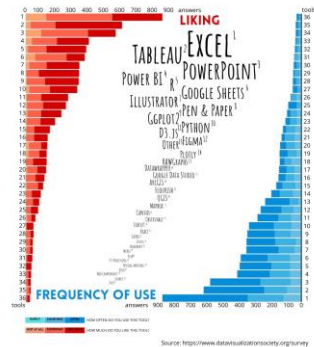
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# Two bar charts connected by a word cloud

## Data Visualization State of the Industry Survey

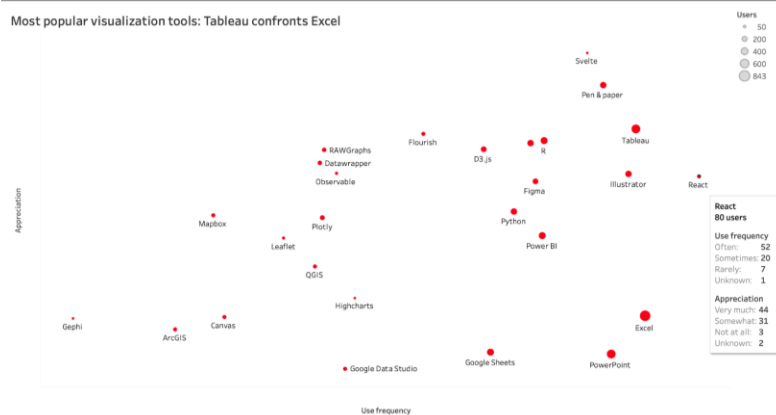
Which are the most popular tools used in Data Visualization?

In the graph are showed which tools are more used (by name), how often they are used (blue graph) and how loved they are (red graph).



# Bubble chart

Most popular visualization tools: Tableau confronts Excel

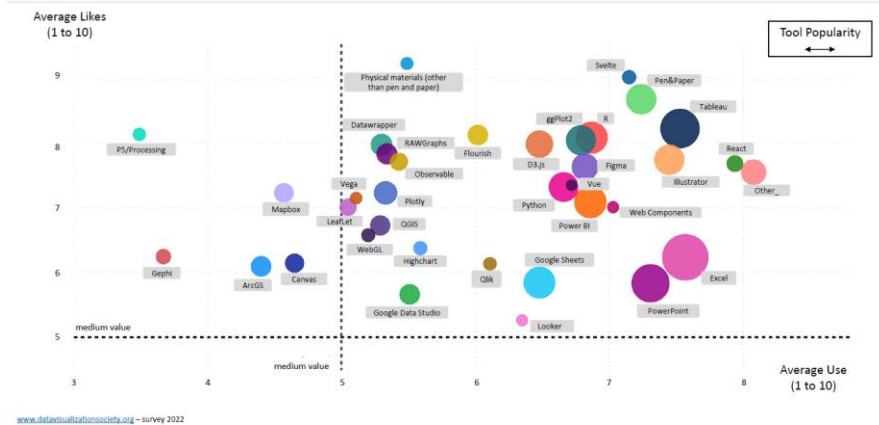


Far from being appreciated as its competitors, the software from Microsoft is still the most used, but the Salesforce's subsidiary has built a solid and faithful users base. Among the code based tools, R does better than Python.

Data source: Data Visualization Society State of the Industry Survey

# Bubble chart

VISUALIZATION TOOLS – NECESSITY OR TRUE LOVE?



[www.datavisualizationsociety.org - survey 2022](http://www.datavisualizationsociety.org - survey 2022)

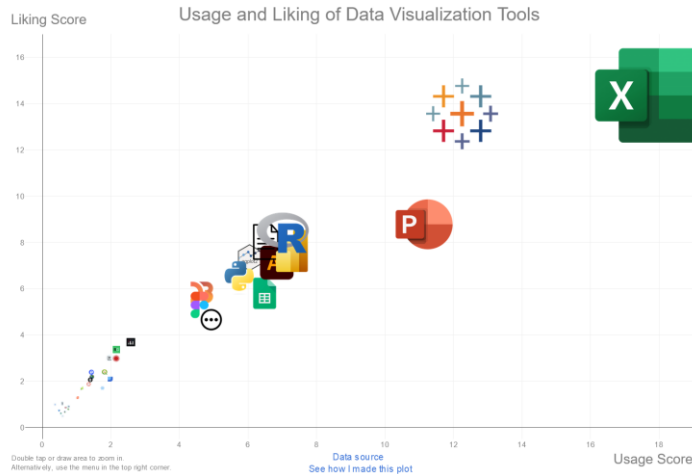
# Bubble chart

Visualization Tools: Usage, Frequency & Satisfaction

Data: <https://www.datavisualizationsociety.org/survey>



## “Bubble” chart with a custom score

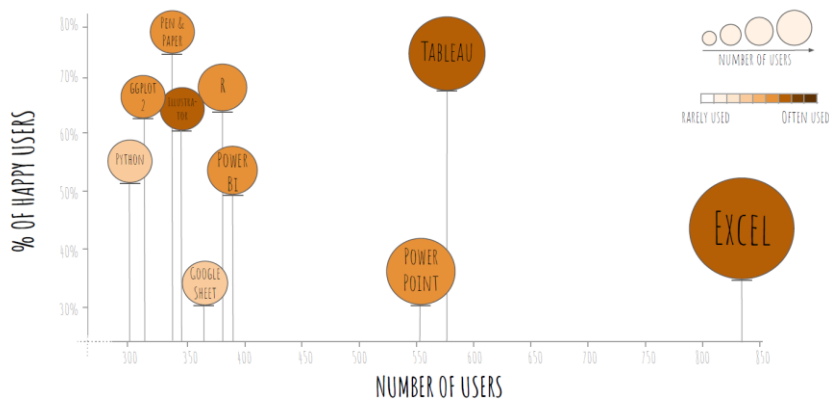


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## Bubble chart

DEAR OLD EXCEL... WHY DO WE ALL USE YOU IF WE DON'T LOVE YOU?

THE 10 MOST USED DATA VISUALIZATION TOOLS AND THE PERCENTAGE OF THEIR HAPPY USERS

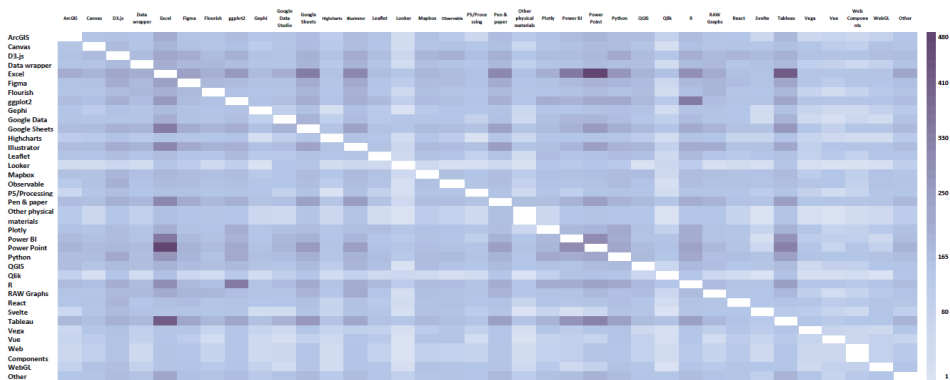


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# Q2: Which tools are most often used together?

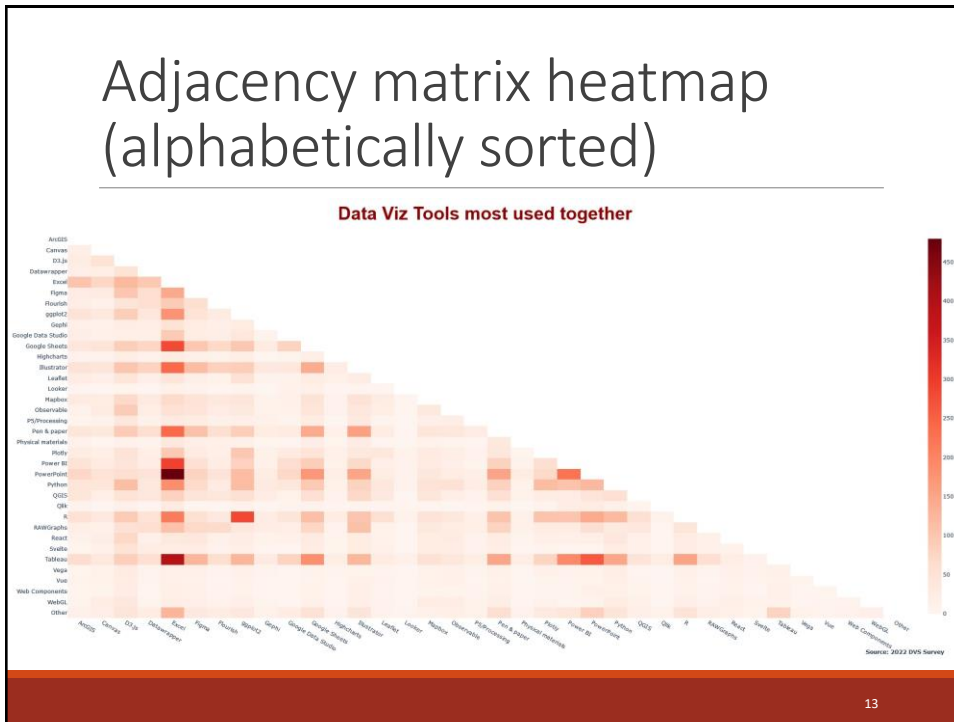
## Adjacency matrix heatmap (alphabetically sorted)

Frequency of tools combined usage

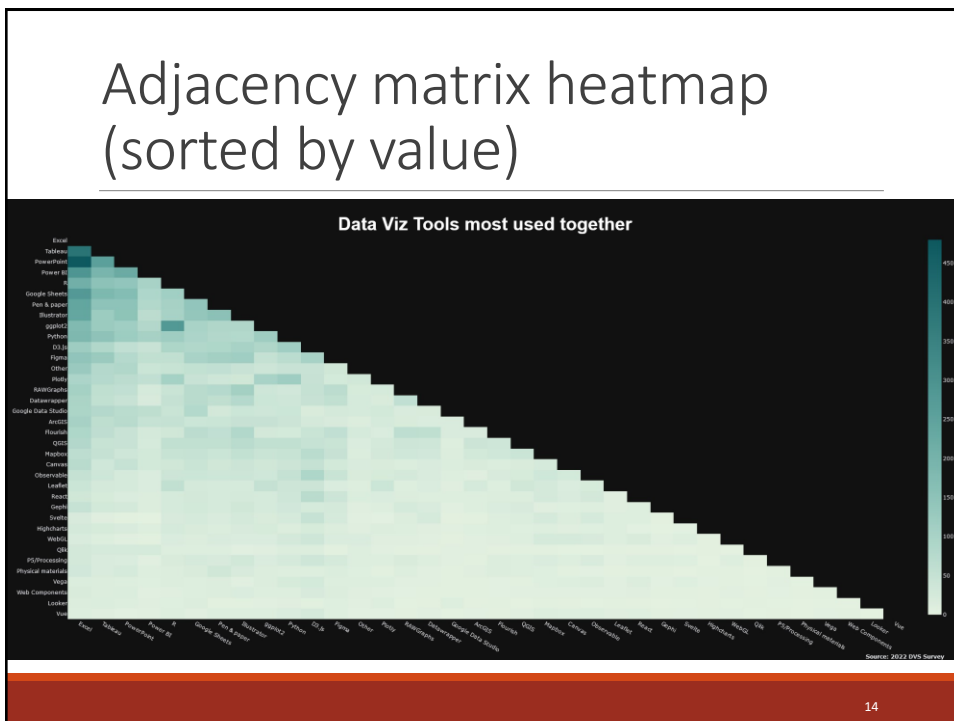


Source: <https://www.datavisualizationociety.org/survey>

# Adjacency matrix heatmap (alphabetically sorted)



# Adjacency matrix heatmap (sorted by value)



# Custom plot

*Happier with you!*

