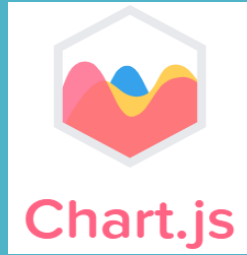


# Having Fun with JavaScript

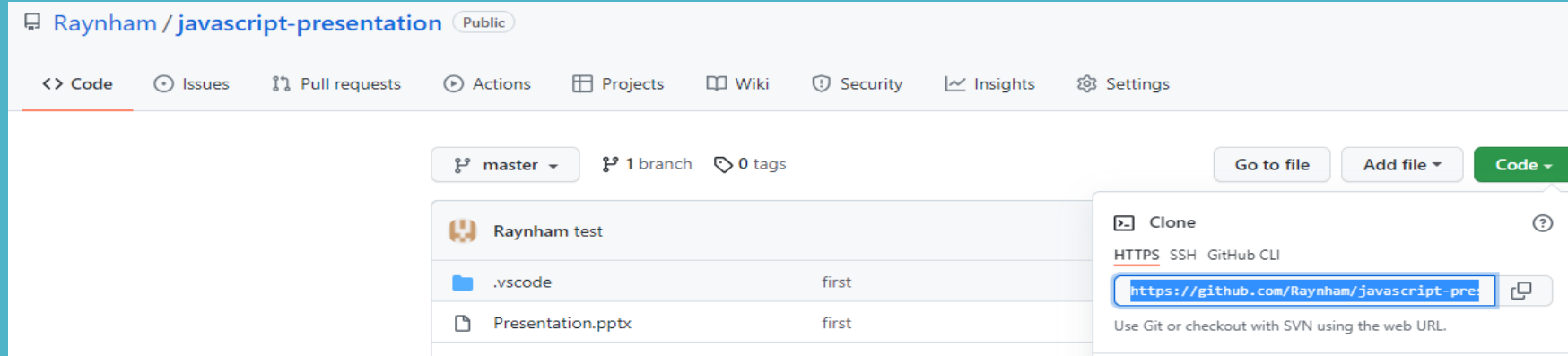
Introduction to Two JavaScript Visualization Libraries



.....

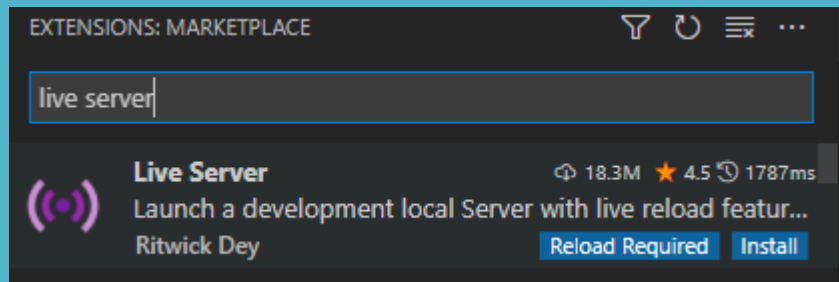
# Before the Introduction...

(1)



git clone <https://github.com/Raynham/javascript-presentation.git> to get some examples

(2)



Install an extension named “live server” in VS Code, which can launch a local development server for static and dynamic pages. Some examples will appear errors if open as a local file (Maybe due to the strict same-origin policy of Chrome and Edge).

# Three Ways to Install Echarts.js and D3.js

(1) Download echarts.min.js or d3.min.js and include them in html files.

```
<script src = "/path/to/d3.min.js"></script>
```

(2) Use CDN (Content Delivery Network)

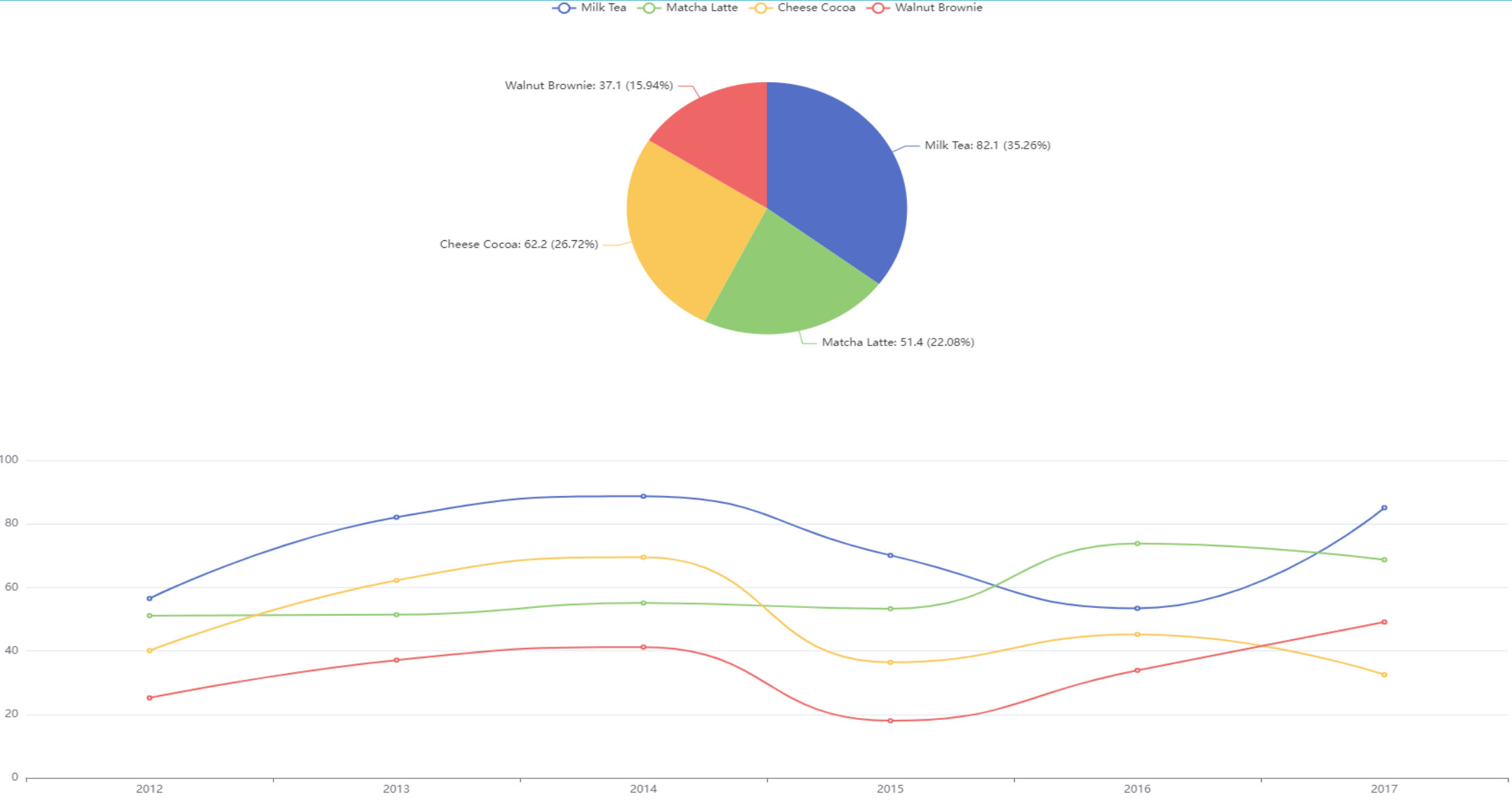
```
<script src="https://d3js.org/d3.v3.min.js"></script>
```

```
<script src="https://cdn.jsdelivr.net/npm/echarts@5.3.0/dist/echarts.min.js"></script>
```

(3) npm install echarts --save / npm install d3 --save  
And then require() to use them

```
let echarts = require('echarts');
```

# Dessert Sales by Echarts.js

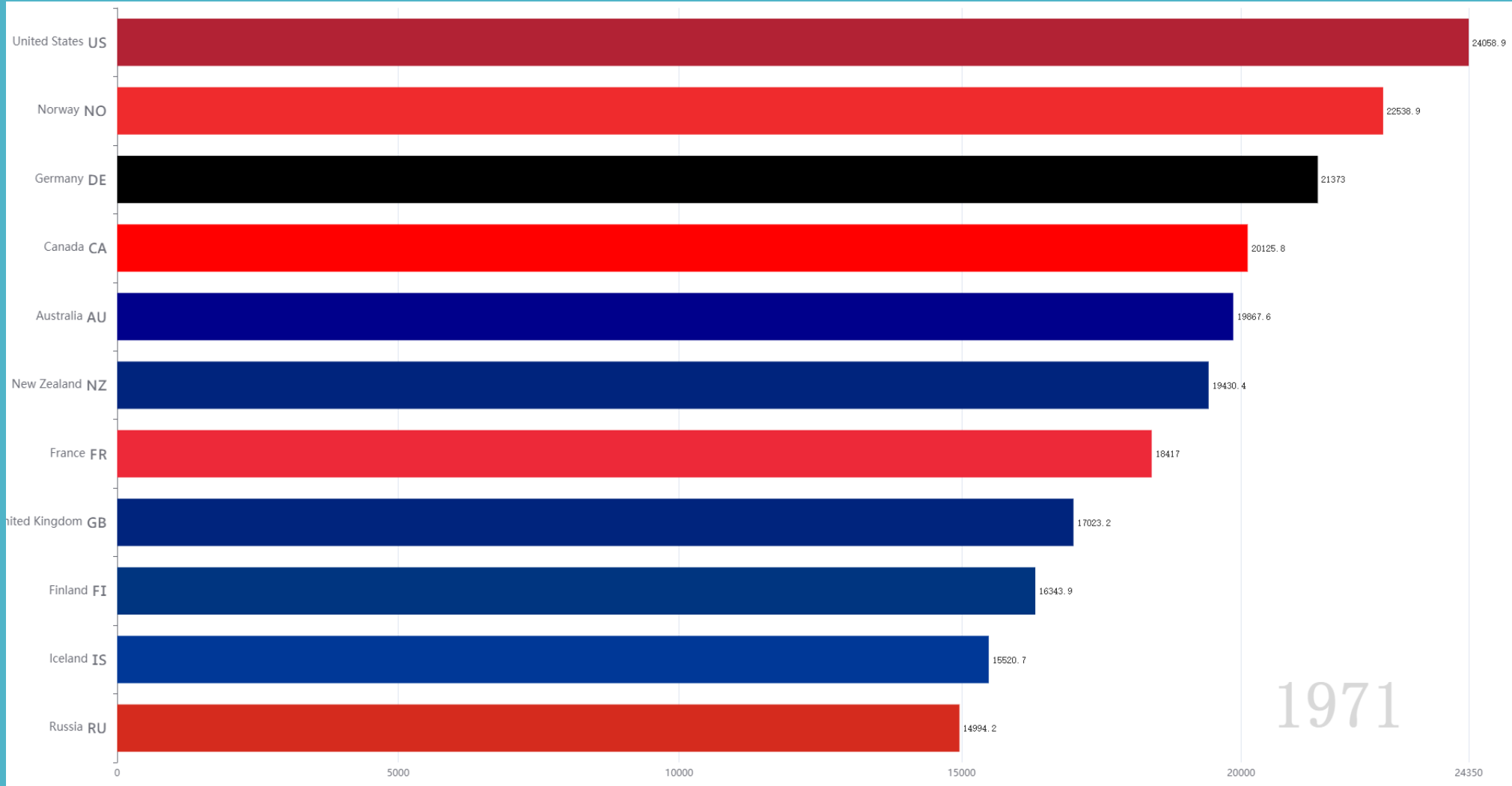


# American film companies dashboard by D3.js



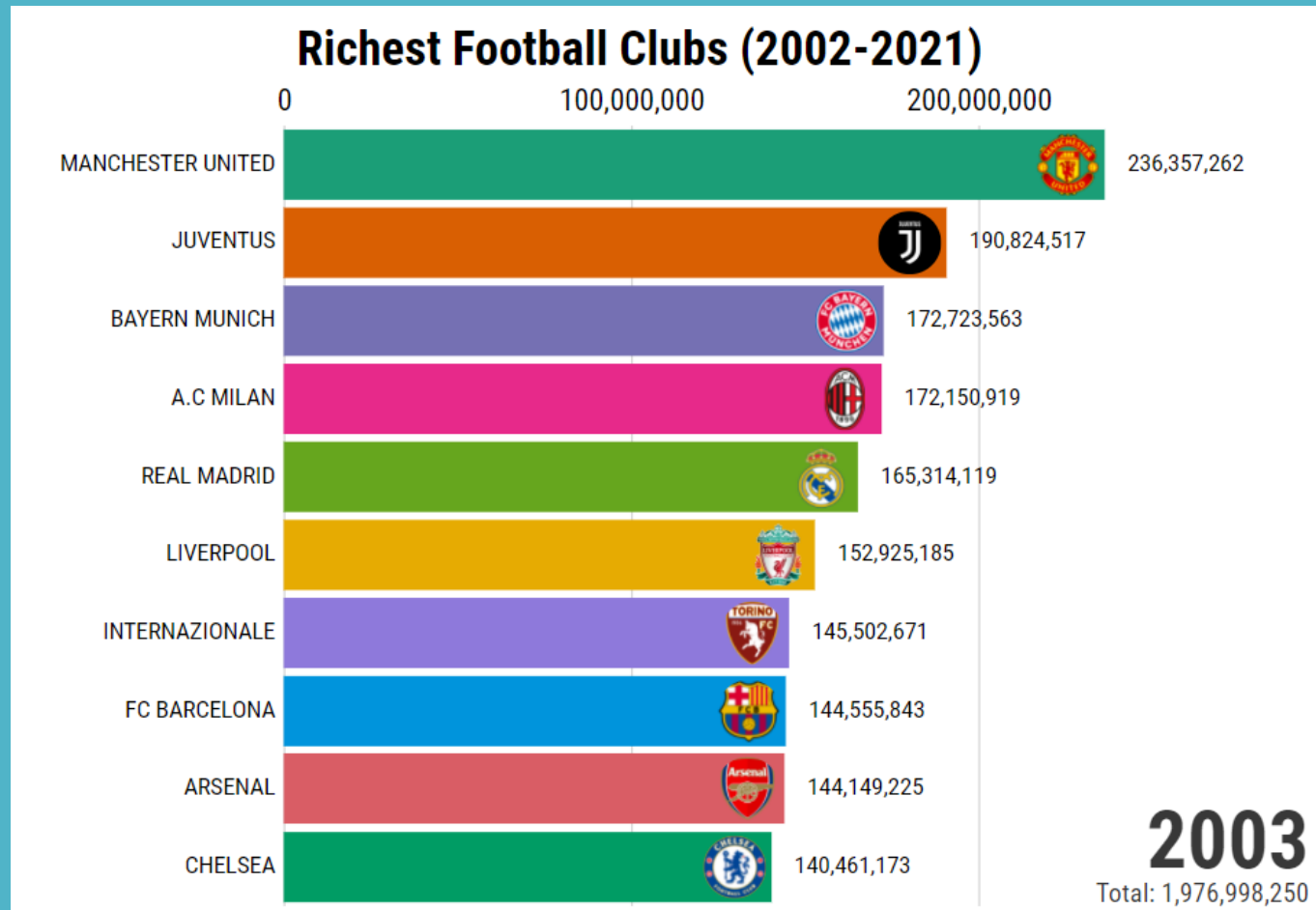
Compared with Tableau, what are the advantages of using JavaScript for data visualization?

# (1) Dynamic Visualization



The Dynamic Change of The Average Income of Countries by Echart.js

## (2) Reuse (Componentization)

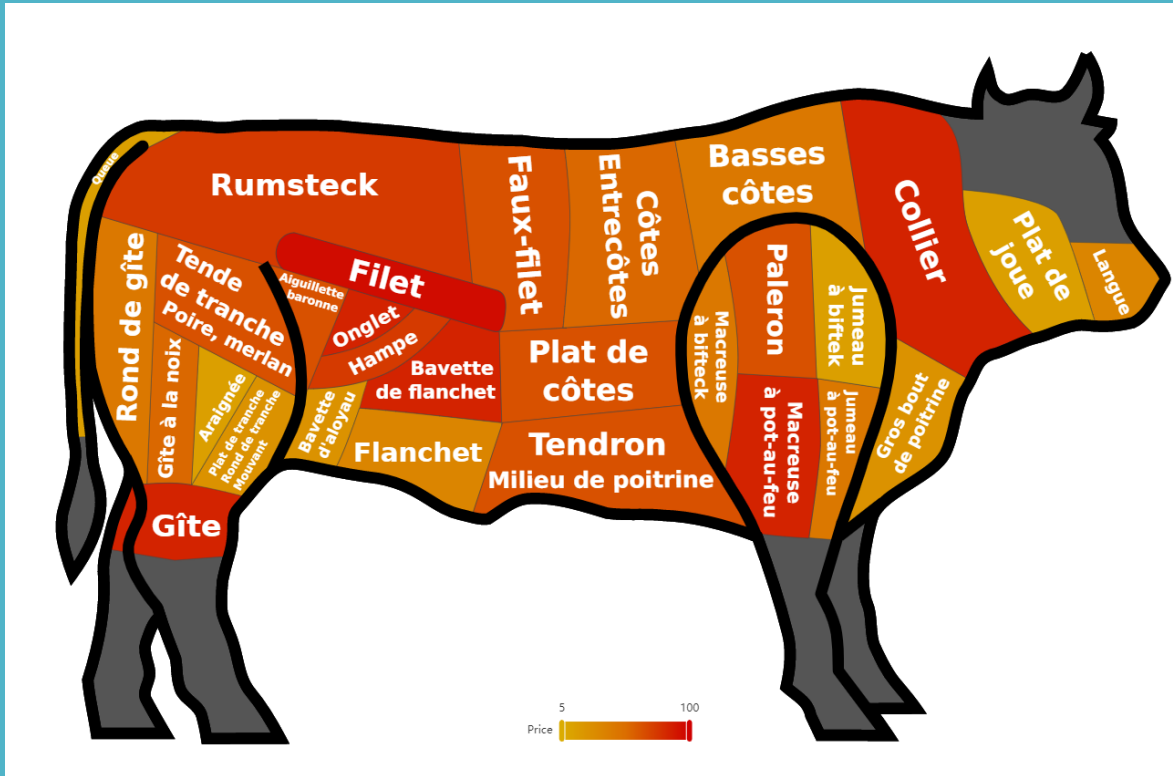


The Dynamic Change of Top 10 Richest Football Club in the World

<https://app.flourish.studio/visualisation/8576423/>



### (3) Customization

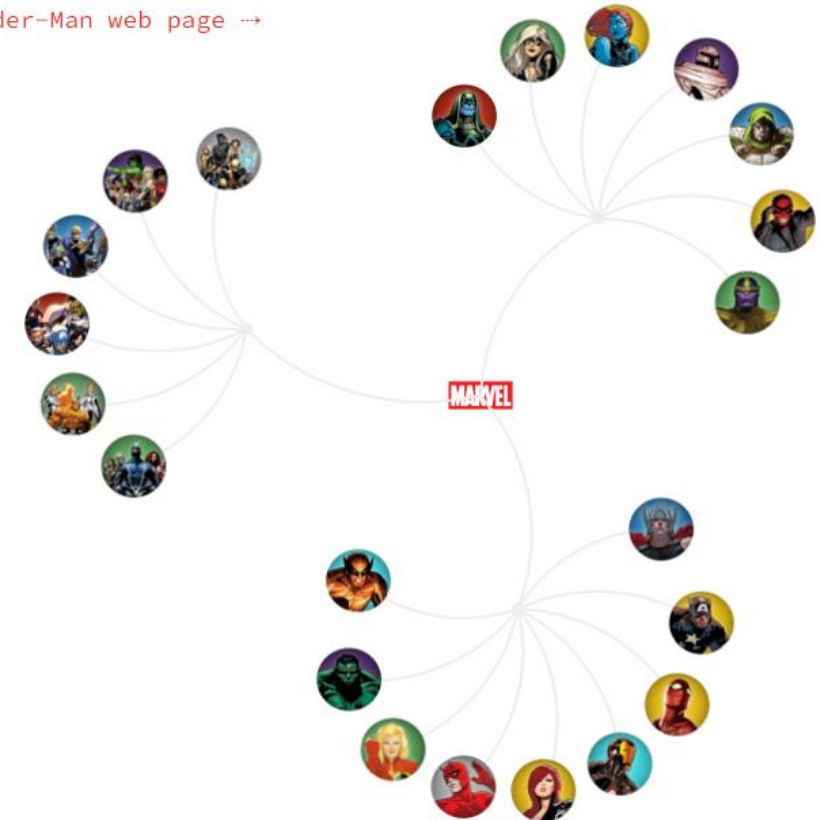


The Geo Map about the Price of different beef parts

### SPIDER-MAN

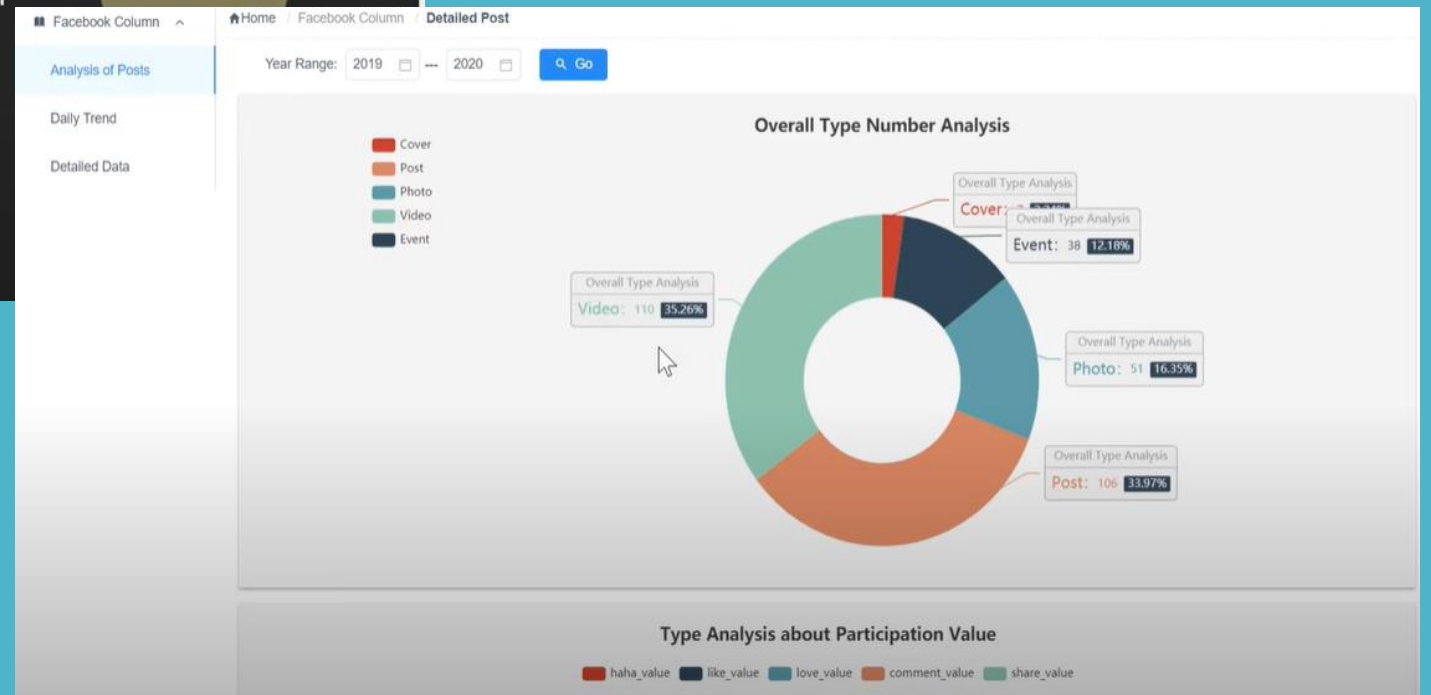
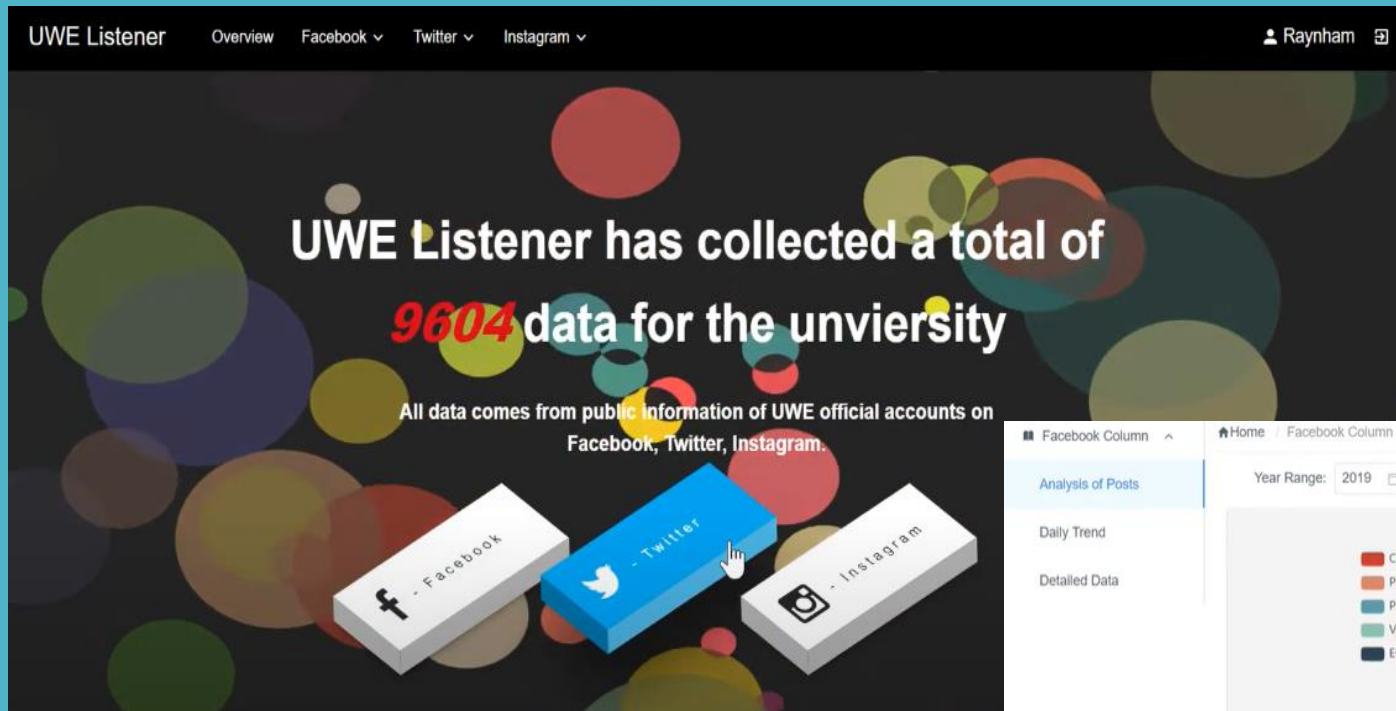
Peter Benjamin Parker

Take me to [Spider-Man web page](#) →



The Network of Marvel Universe Heroes

## (4) Visualizing Real-Time Data



UWE Listener (A Monitoring System, My Undergraduate Graduation Project )

## In the End...

JavaScript should be the closest programming language to users, so its visualization libraries focus more on interaction and animation so as to make a better user experience (UX). Meanwhile, it may be an alternative visualization solution for Data Science Mini-Project except for Tableau.

D3.js and Echarts.js have detailed documentation on the official website if you have an interest in them.

<https://d3js.org/>

<https://echarts.apache.org/en/index.html>