

A large, abstract graphic composed of several thick, red, curved lines that overlap and swirl across the blue background, framing the central text.

Making code open source and open-source visualization



Open-Source Visualization Libraries

Javascript Libraries

- D3
- Chart.js
- React-vis

Python Libraries

- Matplotlib
- Seaborn
- Altair

R Libraries

- Plotly
- Ggplot2
- Lattice



D3 Library for Javascript



What is D3?

D3 is an open-source JavaScript library that allows you to make custom interactive visualizations in the web browser.

d3js.org



Two thick red lines are drawn on a blue background. One line starts from the left edge, curves downwards and then upwards to form a loop. The second line starts from the left edge, curves upwards and then downwards, crossing the first line.

GitHub



GitHub Walkthrough

1. Make a GitHub account if you don't have one.

github.com

2. Clone the example repository

from github.com/tashisha/Helsinki-Libraries-D3-data-viz

Option a. download the zip file then upload the zip as your own repository.

Option b. Download GitHub desktop and open the repository with the desktop app.



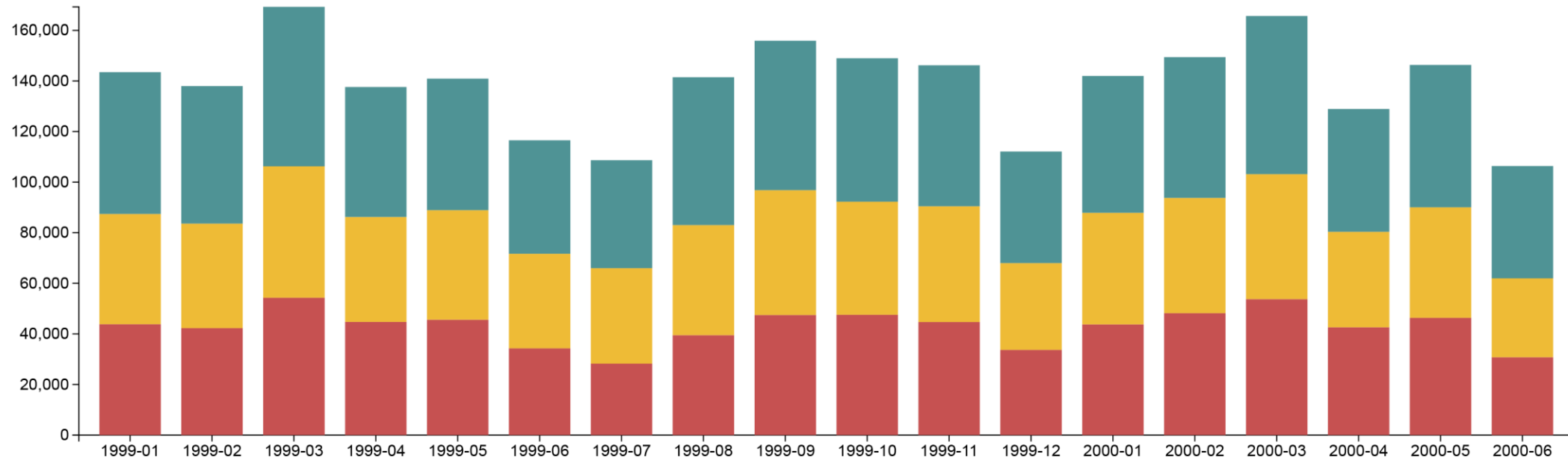
1. Open Zenodo
2. Under profile click the GitHub button.
3. Link your GitHub to Zenodo with the connect button.
4. Flip the switch for "Helsinki_Library_data_viz" or relevant repository on.
5. In GitHub "settings", under "webhooks" the Zenodo api should now be linked.
6. Back in the main folder under releases, click "create new release".
7. Then add your title, tag, and description and click "publish release".
8. Go back to Zenodo and you should see your DOI under your repository name.



Example D3 Visualization



Example Visualization Walkthrough



Toolo Library vs. Pasila Library vs. Rikhardinkatu Library



Example Visualization Walkthrough

1. Download visual studios or another code editor. You can also use a coding environment such as sandbox code.

code.visualstudio.com

2. Download the zip file from your newly made repository in GitHub.

3. Open the index.js file, the hardcoded_index.js file and the index.html file.

