

Nielsen Coding Challenge

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The objective of this challenge is to parse a csv file and generate a bar chart of the data.

Requirements:

- Multiple data should be colored differently and aligned next to each other above each label.
- The data visualization part should not rely on any existing charting libraries.
- Number of data fields should be read dynamically.

Getting Started

Installing

Simply unzip the file and you should see files and folders as the following:

```
.
├─ css
|   ├── materialize.css
|   ├── materialize.min.css
|   └─ style.css
├─ data
|   ├── data-original.csv
|   └─ data.csv
├─ js
|   ├── materialize.js
|   ├── materialize.min.js
|   ├── papaparse.min.js
|   └─ script.js
└─ plot.html
```

Running the tests

Open plot.html and you should see the following:

The screenshot displays the plot.html interface. At the top, there is a file selection area with a teal 'FILE' button and a dashed box labeled 'Drop files here'. Below this, the main area features a bar chart titled 'Bar Chart' on the left. On the right, there are labels for 'Graph Title' and 'Bar Graph Title', with a teal 'REFRESH' button next to them. The chart area is currently empty.

File selection / drag & drop

For your convenience, this page provides two different ways of file input:

File selection: By clicking the "File" button, the popup will direct you to the data file.

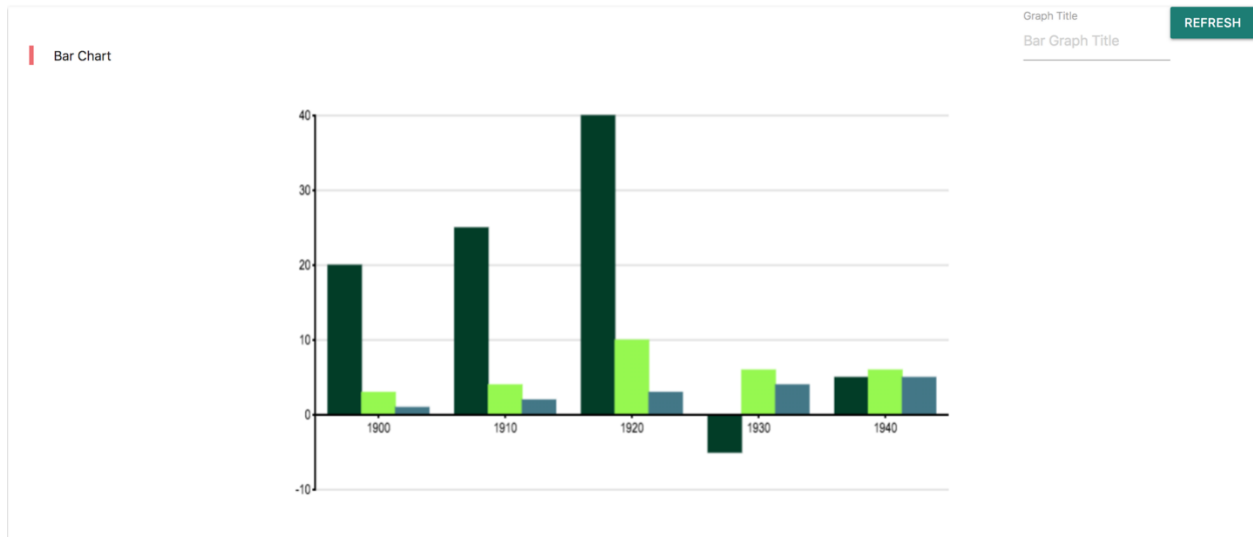
This image shows a close-up of the file selection area. It features a teal button with the word 'FILE' in white capital letters, followed by a horizontal line for a file path or name.

Drag & drop: You can also drag the data file into this area to import the data.

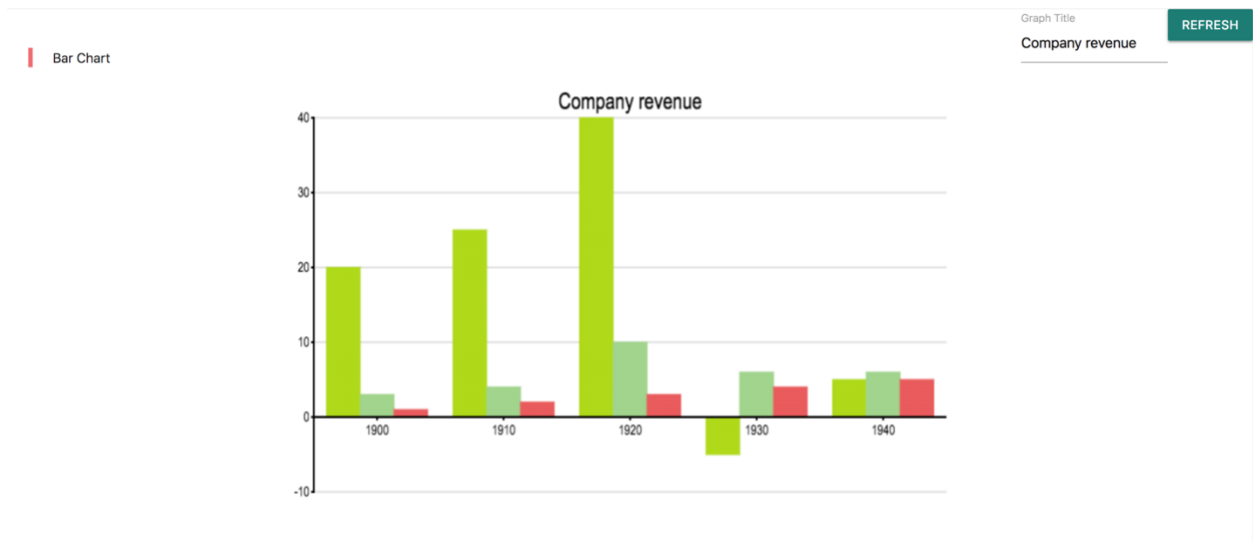
This image shows a close-up of the drag & drop area. It consists of a dashed rectangular box with the text 'Drop files here' centered inside.

Plot bar chart

Once the data file is fully loaded, the bar chart will automatically show up. (**Note:** I added one more column in the test dataset thus it has three rectangles on each label)



The color is automatically generated. If you don't like the current color selections, you can press "Refresh" button to use other colors. You can also enter title for the graph.



Built With

- jQuery – Required by the materializecss styling library
- Materializecss – Provide theme and styling