

Abstract

The given dataset was cleaned and modified using OpenRefine. Two different visualisations were made using D3.js. A NodeJS application was used to host the visualisations on Heroku. The hosted website includes details about data cleaning, as well as visualisation audience, interactivity and description.

1 Data Cleaning

Found at <https://comp6214.herokuapp.com/cleaning>

On Local Machine Open `www/data/odi-cw-1.openrefine.tar.gz` in OpenRefine

Error Correction & Data Modification On the same webpage.

Used OpenRefine[1] and MS Excel.

2 Visualisation 1: Parallel Co-ordinates

Found at <https://comp6214.herokuapp.com/parcoords>

On Local Machine Open `www/parcoords.html` file in a browser

Description, Interactivity and Intended Audience On the same webpage.

Inspired By [2]

3 Visualisation 2: Treemap & Heatmap

Found at <https://comp6214.herokuapp.com/treemap>

On Local Machine Open `www/treemap.html` file in a browser

Description, Interactivity and Intended Audience On the same webpage.

Inspired By [3]

4 Steps of Hosting

4.1 On Local Computer

Make sure to have NodeJS installed. Download the repository. In the repository open a terminal and enter `npm install`, followed by `node index.js`. Go to <http://localhost:5000> to see the app.

4.2 On Heroku

Detailed steps can be found in [4]. In short - install Heroku Toolbelt and log in your Heroku account from a terminal. On Heroku add a NodeJS app and add the app's git address as a remote to the code repository. Then push to the Heroku master branch.

References

- [1] OpenRefine Team. Openrefine. <http://openrefine.org/>. Last Accessed: 15 March 2017.
- [2] Kai Chang. Parallel Coordinates. <https://syntagmatic.github.io/parallel-coordinates/>. Last Accessed: 15 March 2017.
- [3] Mike Bostock. Zoomable Treemaps. <https://bost.ocks.org/mike/treemap/>. Last Accessed: 15 March 2017.
- [4] Heroku. Getting started on heroku with node.js. <https://devcenter.heroku.com/articles/getting-started-with-nodejs#introduction>. Last Accessed: 15 March 2017.