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Prof. Hanspeter Pfister

Computer Science 171: Visualisation

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Project proposal

As of now, we are thinking of doing the interactive choropleth with charts linked through tooltips (very similar to our previous sketches). We didn’t find text visualization particularly useful in our project, so we’re sticking to more maps and charts. Our visualizations are still the same, now with an added renewable chart. We are also replacing the map with a cartogram, with the size of a circle encoding the GDP per capita (we could not show this clearly in the website layout sketch). We are including a website layout, and now a new visualization for the linked views/interactive storyboard.

Description of Team Roles:

Submitter – Grant Riew

Coordinator – Anubha Srivastava

Journal Logger – Lisa Chille

Design Head – Anubha Srivastava (layout, finding information to display for text and story)

Coding – Everyone, mainly Grant and Lisa w/help from Anubha (implementing visualizations)

Feature List:

Filtering/sorting dates/countries, CO2, Electricity: We will let the user filter the CO2 data based on continent, GDP per capita. We will also let them sort based on electricity consumption as well as CO2 emissions.

Linked Map to charts: For instance, when one clicks on an area in the map, they get to see a small pie chart that shows the percentage of renewable vs non-renewable energy being used by the country in question.

Storytelling visualization: This will be in the layout of our webpage

Any extra features we think of on the way by discovering more needs

Project Timeline:

4/11-4/17

HTML & CSS design of layout and page, put in divs for visualizations, start making map and implementing visualizations

4/18-4/24

Finish up visualizations fully, get ready for design critiques. Implement filtering, linking, and sorting.

4/25-5/1

Implement extra features, incorporate recommendations that we receive from the design critique, redo anything that needs to be redone

Data:

**GDP at Market Prices**

<http://data.worldbank.org/indicator/NY.GDP.MKTP.CD>

**Electricity Consumption**

<http://data.worldbank.org/indicator/EG.ELC.ACCS.ZS/countries?display=default>

**C02 Emissions**

<http://data.worldbank.org/indicator/EN.ATM.CO2E.PC/countries?display=default>

Data from the World Bank. This shows the different countries GDP, Electricity consumption, and CO2 emissions.

There is a lot more data from the World Bank and so we feel that we can very easily expand our project i.e. feature more data if need be (we do not intend to do this and hope that we do not have to)