TeamDK

Dolev Artzi Raymond Li

Domain

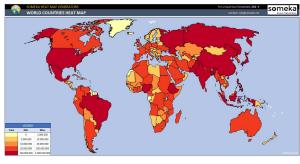
- The domain of framework is numerical data that has to do with countries. We will be using <u>OurWorldInData.org · Apiary</u> as an API to interact with our world in data's database.
 Additionally, our plugins will support local CSV files extracted from https://data.un.org/Default.aspx .
- These types of data sets involve <u>quantitative</u> features, such as life expectancy and <u>categorical</u> data, such as countries within a continent (obviously).
- The framework will involve translating data into visualizations that can display comparisons between two features- one quantitative and one categorical. We will also provide the ability to focus on one country over a specified time period.
- There is a lot of room for <u>reuse</u>, since it is quite common to display data that compares counts of a field based on a category.
 - Bar charts
 - Pie charts
- The framework should be able to support datasets in both csv and json (through API) formats. Two different data plugins will be implemented to do this- one that is specific to the API, and another that parses a csv converted dataset from a different source.



Generality

- The framework is unique in that it displays information about multiple kinds of data: categorical and numerical. This is very generalizable. Our data opportunities are expansive, but still within the scope of country-related data. For example, data could be the current population/GDP/crime rate of each country, or could be any of those statistics for a given country over a time period.
- The visualizations of choice will tentatively be a bubble graph and a heat map- as it is a unique type of graph while still being relevant to the data plugins used. We have also considered a time series plot, and the group plans on implementing two of those visualizations.







Plugin Interfaces

Split into three components- data, visual, framework

- Data extraction
 - o importData()
 - getOptions(ArrayList<String> options)
- Visualization
 - filterByCategory()
 - chooseData(), chooseDataByField()
- Framework integration and data cleaning
 - assignNullValues(), removeNullValues()
 - Setup -> onRegister(), onEnd()