General Idea Marcello Piccinini 1759133

The idea for the project of Visual Analytics is to create an interactive dashboard to visualize the spread of Covid-19 in Italy performing the analysis region by region.
The goal is not only to understand the condition of the country about the virus over time but also could be used to understand some differences among regions, as for example the regions with more positive cases or with less cases of intensive care.

Dataset

The dataset is provided by “Ministero della Salute” and are elaborated by “Dipartimento della Protezione Civile”.
The link to access the dataset is the following: https://github.com/pcm-dpc/COVID-19/
The dataset contains different information about Covid-19 as for examples number of cases, number of deaths, number of intensive cares, number of swabs etc.
The time period is from 24-02-2020 to now since is updated every day.

Analytics and Visual part

The project will contain 4 components:

- Scatter plot to show the application of the dimensionality reduction (MDS or PCA)
- Parallel coordinates where each coordinate represent an info from the Covid database.
- Geographic visualization of Italy
- Boxplots to study some main properties as for example number of cases, swabs and deaths.

The analytical part of the project is expressed by the use of the boxplots.
When the user perform a visual selection, for example select some regions or specific period of time, than the boxplots are update on runtime to study the values of each properties that is expressed by the boxplots.

All the four elements will interact to each other so that when a visual interaction is performed on the visualization (click a region on the map), there will be a visual effect in the other visualization, plus the analytical part described before.

Mockup

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