

GoT Plot

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App available on [Shinyapps.io](https://shinyapps.io)

Introduction

This project is related to data visualization, cartography and shiny apps. Using the *Game Of Thrones* dataset given by the teacher, we implemented an application that provides maps and charts. We used the R's **Shiny** package to develop the web application.

In our application there are 4 sections, which show different analytics:

- **Presence Time**: we show in the map the presence of a character during the seasons.
- **Deaths**: we show in the map where and how much the characters killed.
- **Character Trips**: we show the displacements of the characters over the map.
- **Statistics**: last but not least we show some generics charts about killers and killed people, presence over the screen, scene duration and population of Westeros.

We will study each section in depth below.

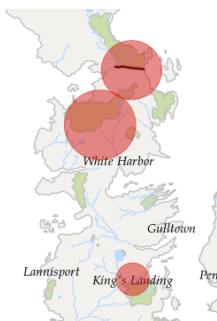
Project

Presence Time

To draw this plot, first of all, from the original dataset we extrapolate the most important characters in order to avoid long and unuseful lists (*mostImportantCharacters*). Then, for every character we take screen time for every season (*timePerSeason*). Once we have our two datasets, we perform the operations based on user choices: we filter the dataset by the selected characters and seasons, then we group by the name and the location. After calculating all the information needed, we complete the plot using *ggplot* and *sf*.



Deaths



The second tab shows how much and where the characters killed. First of all, we calculate the characters who killed the most (*mostImportantKillers*). To obtain this list, we use another dataset (that can be found [here](#)) because we need more information about killers: who killed who, with what, where and when. In the same way as before, we perform the operations based on user choices, and we complete the plot using the usuals *ggplot* and *sf*.

Conclusions

For all the members of the project it was the first approach to R. It has been very interesting to discover how charts are made and how to visualize data in the best way possible. It was also challenging and interesting to use the Shiny package to make an interactive application instead of hard-coded charts.