

Public Debt

The aim of this work is to analyse public debt by country.

Data set

World Bank data: Public debt countries and GDP countries.

Requirements

- 1.- Preprocess the public debt file to obtain a data frame with country, type of debt, date and amount of debt.
- 2.- Create a function that receives a country and a date and returns a dictionary with the total internal, external, local currency, foreign currency, short term and long term debt of that country on that date.
- 3.- Create a function that receives a type of debt and a date, and returns a dictionary with the debt of that type for all countries on that date.
- 4.- Create a function that receives a country and a date and draws a pie chart with the internal debt and external debt of that country on that date.
- 5.- Create a function that receives a country and a date, and draws a bar chart with the amounts of the different types of debts of that country on that date.
- 6.- Create a function that receives a list of countries and a type of debt and draws a line chart showing the evolution of that type of debt for those countries (one line per country).
- 7.- Create a function that receives a country and a list of debt types and draws a line chart showing the evolution of those debt types for that country (one line per debt type).
- 8.- Create a function that receives a list of countries and a list of types of debt, and draw a box plot of debt.