Data Stewardship Assignment 1 – Creation of a Data Management Plan

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This experiment shows the distribution of age and gender of the habitants and the European Erasmus students coming to the City of Vienna in Austria regarding the Country of Origin in the year 2012.

In addition, other features were analysed related with the Erasmus students coming to Vienna in 2012 such as the number of credits that they enrol in the semester and the amount of money that the receive as a grant.

Input Data

There are two external datasets in format CSV which were taken from the official open data repositories of the Magistrat Wien - Magistratsabteilung 23 - Wirtschaft, Arbeit and Statistik and the the European Governments Educational Institutions in the public sector, culture and sport, International issues, Health, Population and society:

> **1. Catalog Population according to foreign origin since 2011 Vienna**
> Name: vie_105.csv
> Size: 178 KB
> URL: https://www.wien.gv.at/statistik/ogd/vie_105.csv

> **2. Raw data of Erasmus student mobility (study exchanges and work placements in 2012-13).**
> Name: SM_2012_13_20141103_01.csv
> Size: 44697 KB
> URL: http://data.europa.eu/euodp/data/uploads/EAC/SM_2012_13_20141103_01.csv

Generated Data

The project aggregates the data from both of the sources listed above using a Jupyter Notebook located in the GitHub repository (https://github.com/carlosvar9103/DS_LAB1_2019S.git). The experiment is written in python language version 3.0. The insights are listed in the same repository of the as images in PNG format in the folder images:

1. Jupyter Notebook - DataStewardship_Assignment1_2019S

DOI 10.17605/OSF.IO/RCMZG

2. Insights and Plots of the Analysis
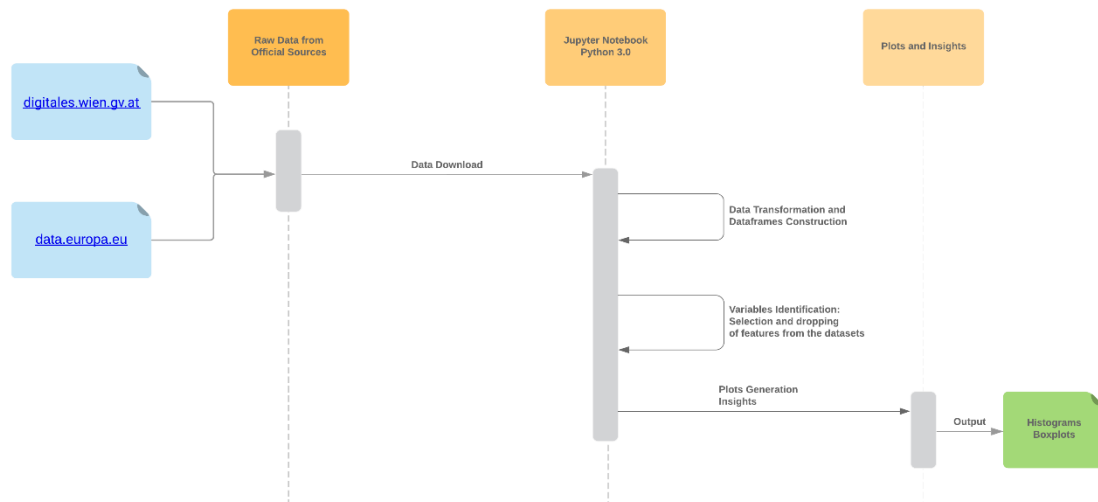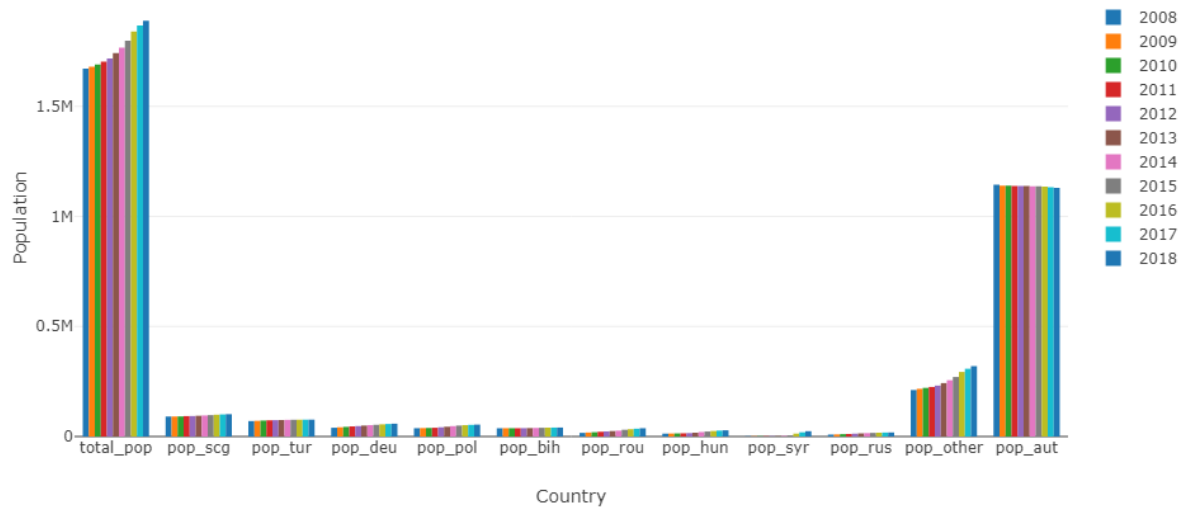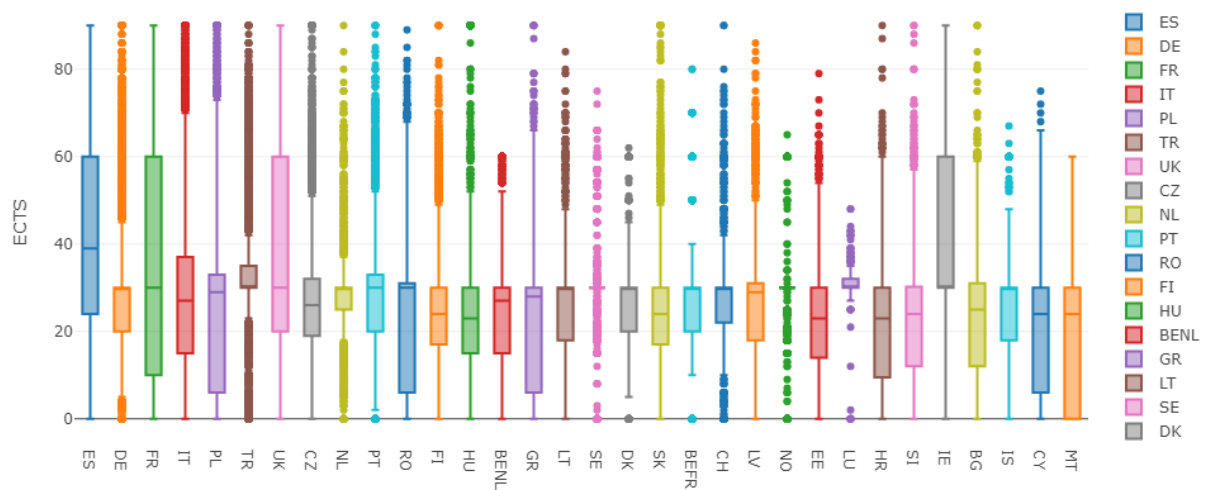
DOI 10.17605/OSF.IO/D3ZG5

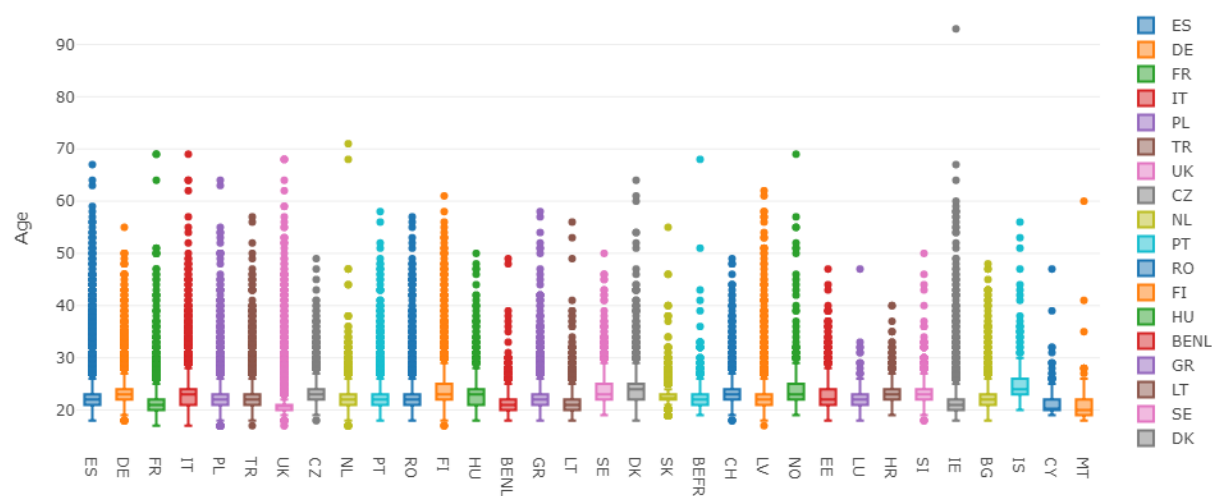Figure 1. UML Diagram of behaviour of the experiment

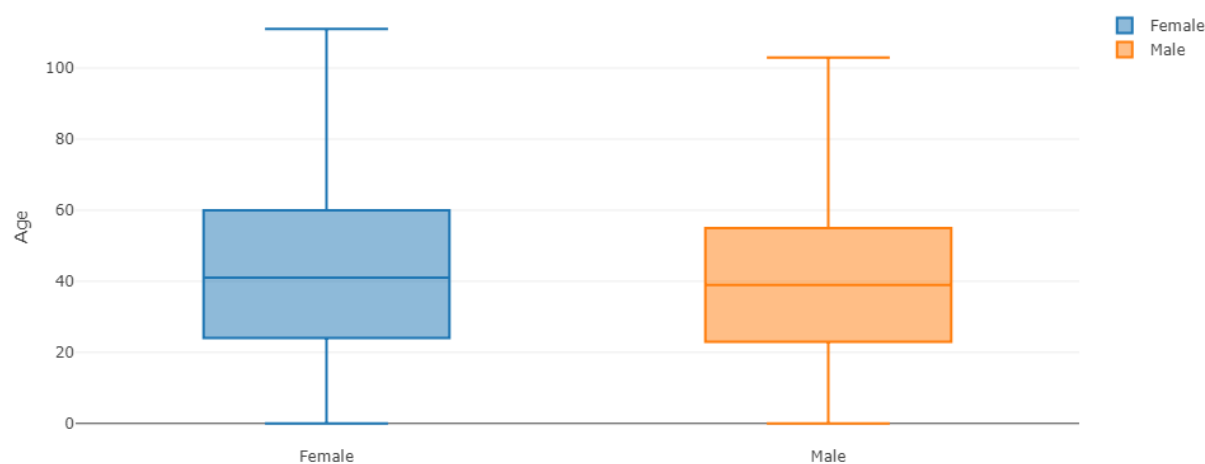# Total Population by Country of Origin in Wien by year

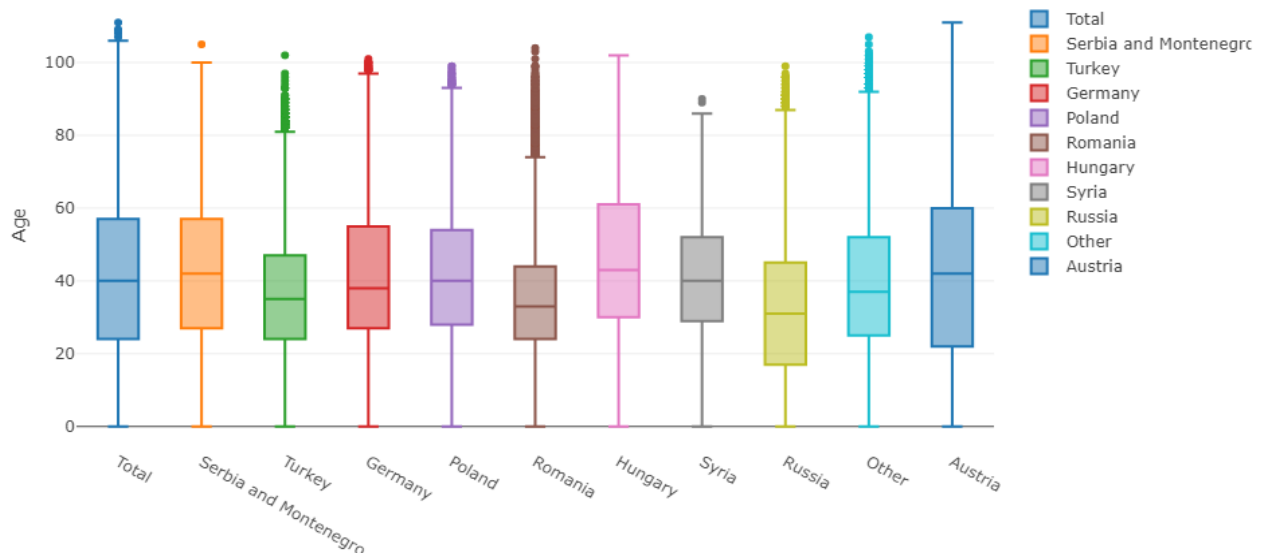# Distribution Home Countries Erasmus Students to Austria by ECTS in 2012

Distribution Home Countries Erasmus Students to Austria by Age in 2012

Distribution Female vs. Male Population by Age in Wien in 2012

Distribution Age of Population by Country of Origin in Wien in 2012

Total Population Female vs. Male in Wien in 2012