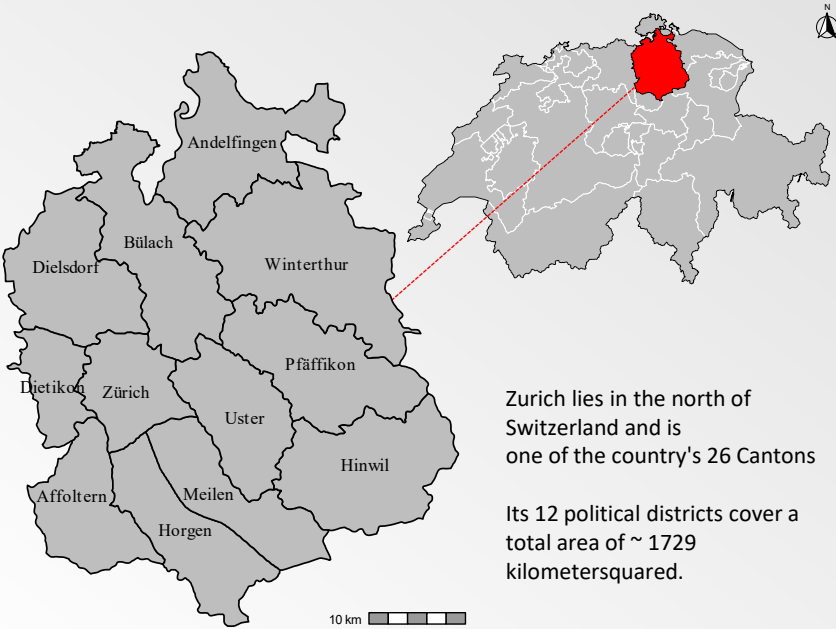


Demographic Figures in the Canton of Zürich

This Poster illustrates some interesting facts about the Canton of Zurich. All illustrations are computed with GGplot2 from the R-language. Demographic data is provided by Opendata Zurich1, geospatial data from Global Administrative Area2.



Heads of the Canton
image from
autokennzeichen.halter
auskunft.ch

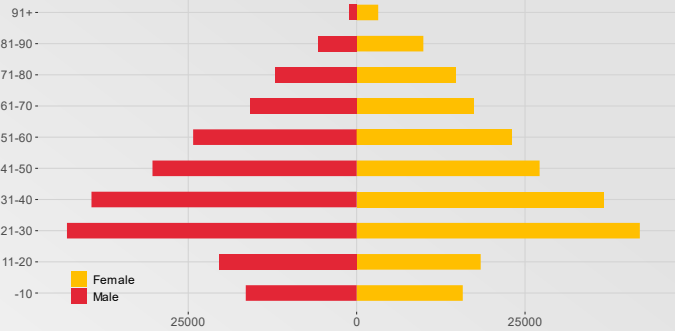


Zurich lies in the north of Switzerland and is one of the country's 26 Cantons

Its 12 political districts cover a total area of ~ 1729 kilometersquared.

Age Distribution

The population pyramid for 2020 of the total 420'031 inhabitants of the district Zurich reveal equal distribution between the genders. The highest ratio is represented by people between 30 and 40 years of age. There is also a decrease visible as we follow along to the top.

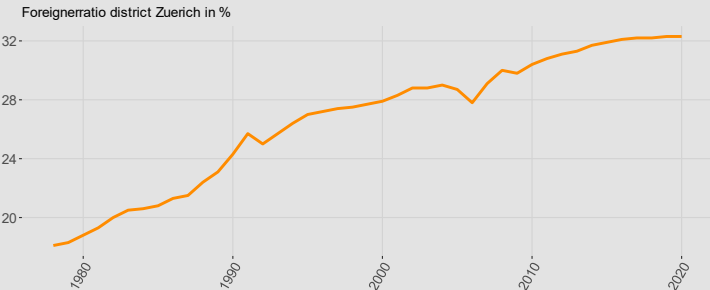
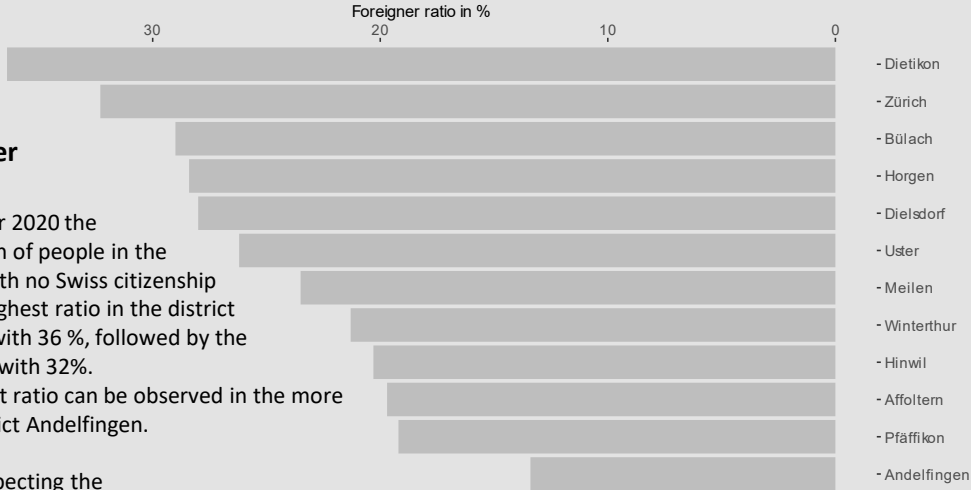


Foreigner

In the year 2020 the proportion of people in the Canton with no Swiss citizenship has the highest ratio in the district Dietikon with 36 %, followed by the City itself with 32%. The lowest ratio can be observed in the more rural district Andelfingen.

When inspecting the Development over time for the district Zurich, an Increase in the ratio can be Clearly observed.

In the 1970's the ratio was below 20 %

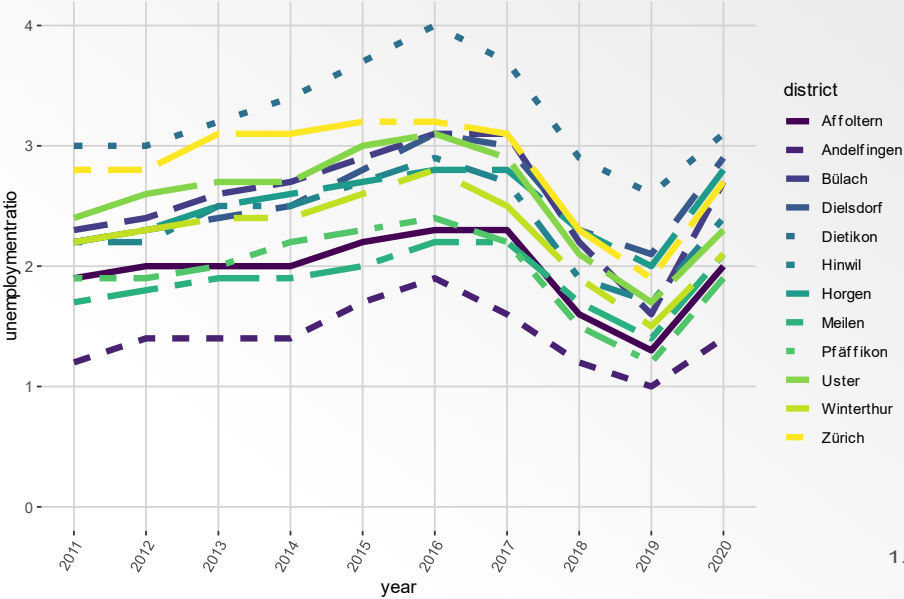


Unemployment 2011-2020

From 2011 an overall increasing trend until 2016 is visible, by Andelfingen having the lowest and Dietikon the highest Rate.

All Districts started to gradually decrease the ratio after 2016. Dietikon even decreased by almost over 1 %. This movement was stopped by 2019.

In 2020 an increase is visible. This is most likely due to the regulations which were introduced after the european start of the COVID 19 Pandemic in March 2020

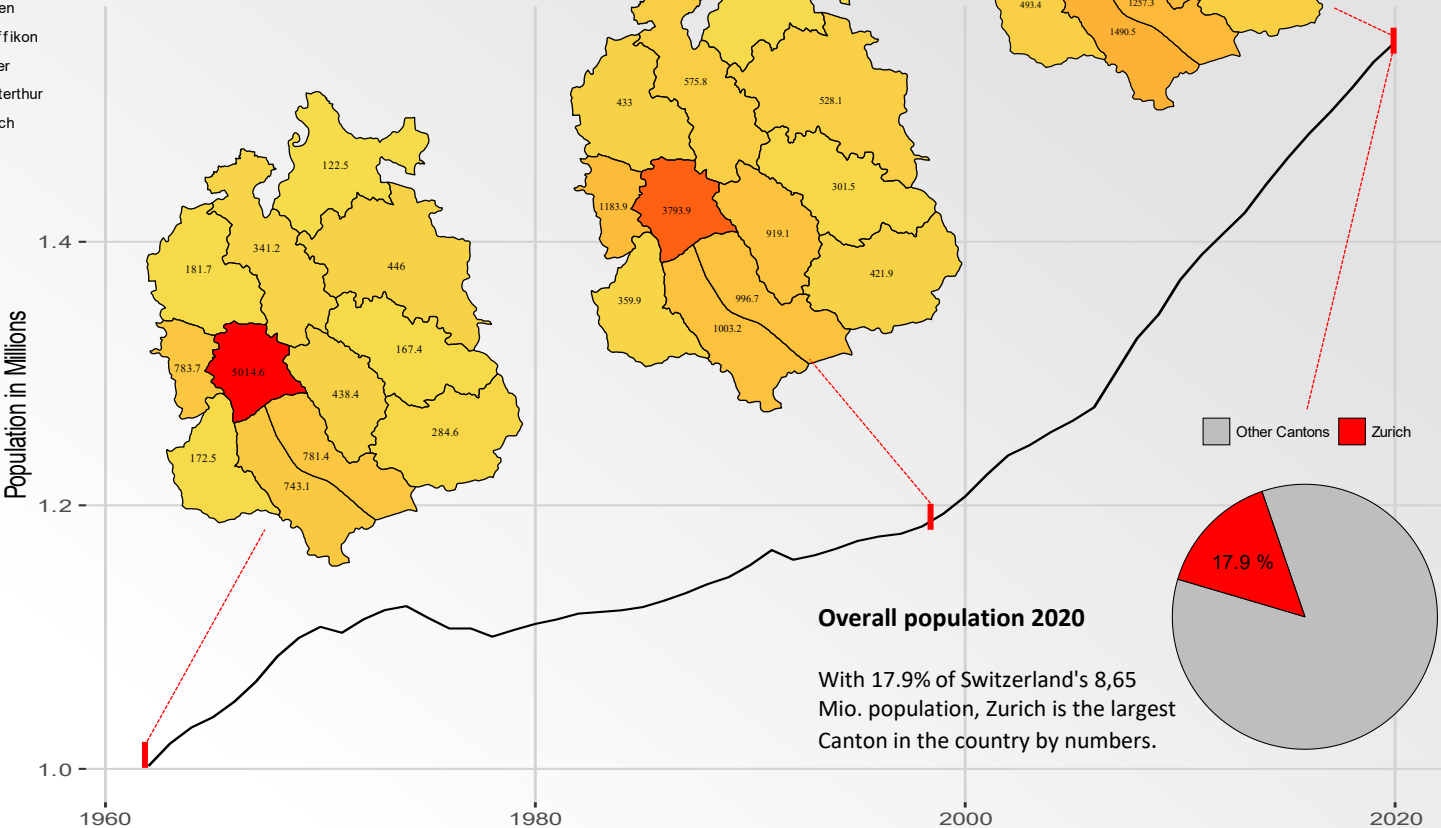


Proceeding for the Poster

- Assembling Ideas about Demographic Data in Canton Zuerich
- Getting familiar with geographical datatypes, ggplot2 and tidyverse.
- Extract, Transform and Load the Data into R Studio
- processing the data for different visualizations
- Create completely customized Visualizations with GGplot as .SVG files
- Combine the Graphics in Powerpoint in a Poster

Population Distribution from 1962 to 2020

From 1962 the overall Population in Canton Zurich has increased by nearly half a Million. Nevertheless in the heart of the Canton: district Zurich itself, the population is lower today than in the 1960's. Until 1999 the ratio [population per squarekilometer] has shrunk by over 1200. After that year the density has gradually increased. In the outer regions the population density has also grown over time. People tend to scatter more to the agglomeration and the outskirt.



Zürich University of Applied Sciences

zhaw
School of Engineering
IDP Institute of Data Analysis and Process Design

MSE

MASTER OF SCIENCE IN ENGINEERING

Authors

Pascal Bühler
Milan Hoerle

References:

www.zh.ch/de/politik-staat/opendata.html?keyword=ogd#/home
Gadm.org