

R-Bootcamp - Analysis of Building Projects in Zurich

MSC.IDS - HSLU Lucerne

Keith Lawless, Daniel Leibrock

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Introduction to the Analysis

Selection of the Dataset

The Dataset we want to analyze in the cause of this project, is the “**Neubauwohnungen nach Bauprojektstatus, Eigentumsart und statistischer Zone seit 2009**” Dataset from the opendata.swiss website. The Dataset contains information about housing projects in the city of Zurich since 2009 and holds information such as project status, ownership and location of the project. Furthermore, we add enriching data regarding real estate prices as well as adress data from the City of Zurich Open Data Portal to enrich our main Dataset.

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Goals of the Analysis

Research questions

Following the previous introduction and the goals of our analysis, we aim to answer the following research questions:

- 1) How did the number of overall building projects develop over time in different statistical zones / quartiers?
- 2) Who are the main owners / drivers of building projects?
- 3) Does the share of different building size groups change over time?
- 4) How did prices in the different quartiers change over time?
- 5) Is there a relation between price development and building project development visible?

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Data Preparation

Exploratory Data Analysis

```
#head(data)  
#str(data)  
#summary(data)
```

Visual Data Analysis

Basic visual Analysis / ggplot2

Special Topic: Mapping / Shiny

Modelling and Prediction

Summary and Conclusion