

R-Bootcamp - Analysis of Building Projects in Zurich

MSCIDS - UoA Lucerne

Keith Lawless, Daniel Leibrock

2022-08-29

Contents

Introduction to the Analysis	1
Selection of the Dataset	1
Goals of the Analysis	1
Research questions	1
Data Exploration	2
Data Analysis and Modelling	3
Summary and Conclusion	3

Introduction to the Analysis

Selection of the Dataset

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 areas?
- 2) Who are the main owners / drivers of building projects over time?
- 3) Does the share of different building size groups change over time?
- 4) Are there further interesting insights and relations to be identified from the data?

```
head(data)
```

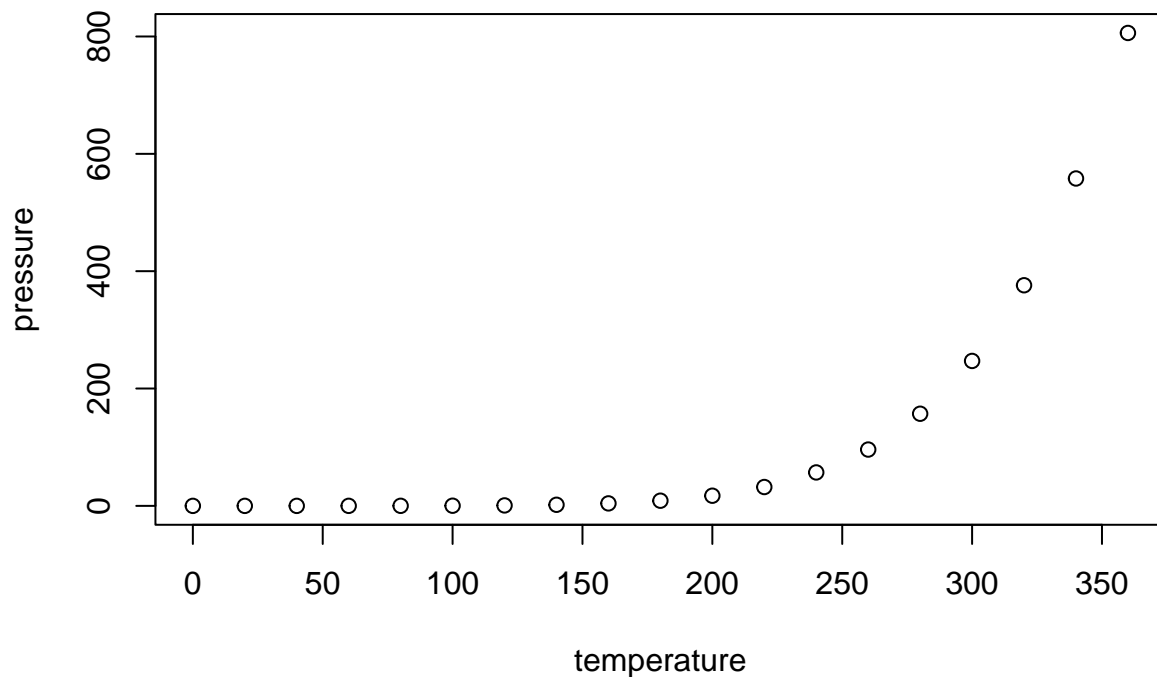
```
##   Jahr StatZoneSort StatZoneCd   StatZoneLang QuarSort QuarCd QuarLang
## 1 2009           1      1101 Zähringerstrasse      11     11   Rathaus
## 2 2009           1      1101 Zähringerstrasse      11     11   Rathaus
## 3 2009           1      1101 Zähringerstrasse      11     11   Rathaus
## 4 2009           1      1101 Zähringerstrasse      11     11   Rathaus
## 5 2009           1      1101 Zähringerstrasse      11     11   Rathaus
```

```
## 6 2009          1      1101 Zähringerstrasse      11      11 Rathaus
##   KreisSort KreisCd KreisLang ProjStatus ProjStatusSort EigentumsartSort
## 1          1          1   Kreis 1 Bewilligt          6702          1
## 2          1          1   Kreis 1 Bewilligt          6702          2
## 3          1          1   Kreis 1 Bewilligt          6702          3
## 4          1          1   Kreis 1 Bewilligt          6702          4
## 5          1          1   Kreis 1 Bewilligt          6702          5
## 6          1          1   Kreis 1   Im Bau          6703          1
##               Eigentumsart AnzWhg
## 1           Öffentliche Hand      0
## 2      Wohnbaugenossenschaften      0
## 3   Übrige private Gesellschaften      0
## 4           Natürliche Personen      0
## 5           Im Stockwerkeigentum      0
## 6           Öffentliche Hand      0
```

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

Data Exploration

You can also embed plots, for example:



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.

Data Analysis and Modelling

Summary and Conclusion