### The ABC of Computational Text Analysis

#9 INTRODUCTION TO PYTHON

Alex Flückiger

Faculty of Humanities and Social Sciences University of Lucerne

29 April 2022

Faculty of Humanities and Social Sciences University of Lucerne

### Recap last Lecture

- from words to embeddings recontextualized word meaning
- data-driven NLP is both powerful and biased
- data is never raw but depends on many decisions

#### Outline

enter the shiny world of Python

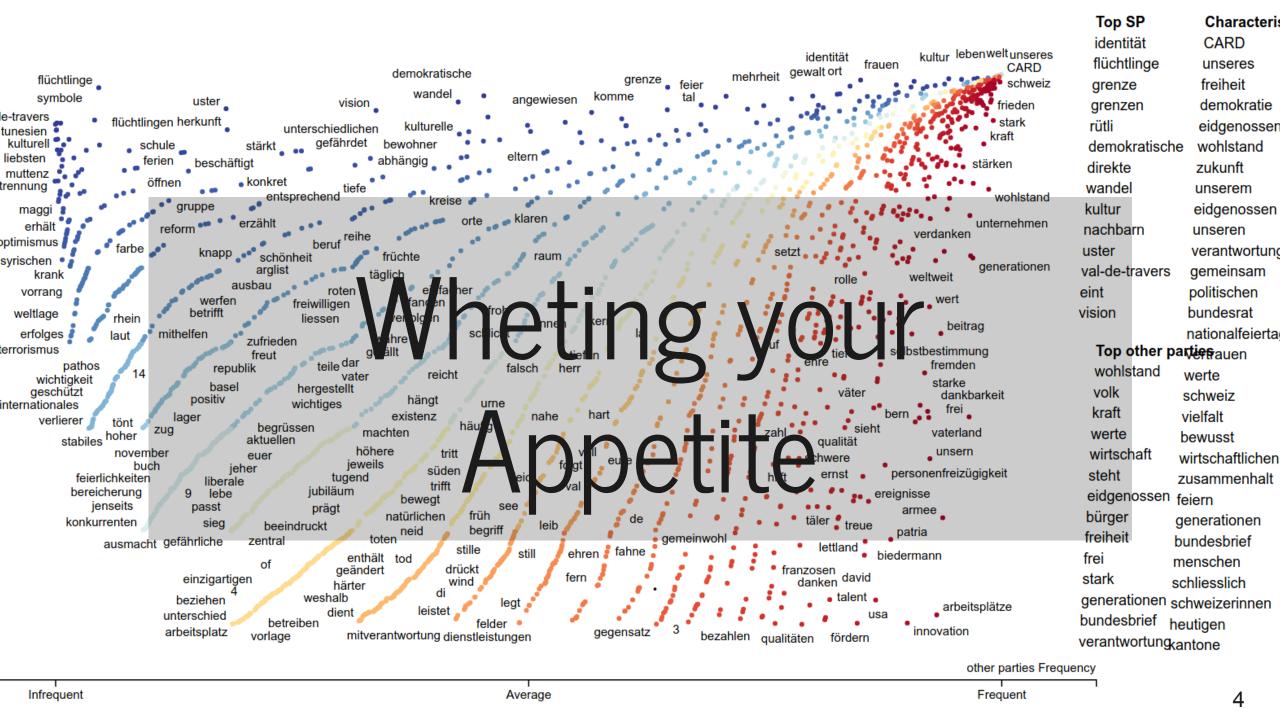


development environment basic syntax

## Python



- general-purpose
  - not specific to any domain
- interpreted
  - no compiling
- standard language in data science



# Syntax Variables

variables are kind of storage boxes

```
# define variables
x = "at your service"
y = 2
z = ", most of the time."

# combine variables
int_combo = y * y  # for numbers any mathematical operation
str_combo = x + z  # for text only concatenation with +

# show content of variable
print(str_combo)
```

### Data Types

