### Introduction to Web Scraping with R

Overview

```
technologies
source sources
quality indexmarginnote text
ref web part collection one
xml the chapter html use example
information isontechniques
documents can book general
```

Simon Munzert | IPSDS

## Web scraping with R

Web Scraping with R Simon Mu

### Web scraping. What? Why?

#### Web scraping

A.k.a. screen scraping, is the business of

- getting (unstructured) data from the web and
- bringing it into shape (e.g., clean, make tabular format)

Veb Scraping with R Simon Munz

### Web scraping. What? Why?

#### Web scraping

A.k.a. screen scraping, is the business of

- getting (unstructured) data from the web and
- bringing it into shape (e.g., clean, make tabular format)

#### A data analyst's view

- data abundance online
- social interaction online
- services track social behavior
- online data meant for display, not download

/eb Scraping with R Simon Munz

### Web scraping. What? Why?

#### Web scraping

A.k.a. screen scraping, is the business of

- getting (unstructured) data from the web and
- bringing it into shape (e.g., clean, make tabular format)

#### A data analyst's view

- data abundance online
- social interaction online
- services track social behavior
- online data meant for display, not download

#### A pragmatist's view

- financial resources
- time resources
- reproducibility
- updateability

/eb Scraping with R Simon Mur

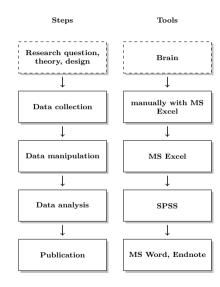
4/10

Web Scraping with R Simon Mun:

- free
- open source
- large community
- powerful tools for statistical analysis
- powerful tools for visualization
- flexible in processing all kinds of data/languages
- useful in every step of the workflow

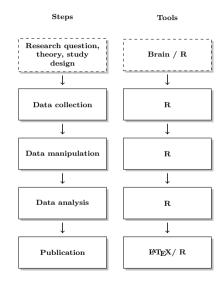
Neb Scraping with R Simon Mur

- free
- open source
- large community
- powerful tools for statistical analysis
- powerful tools for visualization
- flexible in processing all kinds of data/languages
- useful in every step of the workflow



/eb Scraping with R Simon Munz

- free
- open source
- large community
- powerful tools for statistical analysis
- powerful tools for visualization
- flexible in processing all kinds of data/languages
- useful in every step of the workflow



(eb Scraping with R Simon Mun:

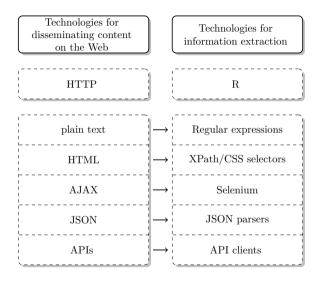
### The philosophy behind web data collection with R

- no point-and-click procedure
- automation of download, parsing, and data extraction procedures
- classical screen scraping
- tapping of web services and APIs
- post-processing of text data
- reproducibility

Neb Scraping with R Simon Munz

## Technologies of the World Wide Web

### Technologies of the World Wide Web



9/10

### Technical Setup

- 1. make sure that the newest version of R is installed on your computer (available here: https://cran.r-project.org/)
- 2. install the newest stable version of *RStudio Desktop* (available here: https://www.rstudio.com/products/rstudio/download)
- 3. follow the instructions on Moodle to install all the necessary packages

Veb Scraping with R Simon Mun: