Introduction to Web Scraping with R

Summary

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

Simon Munzert | IPSDS

Skills

HTML Nerdery Regex Magic XPath Mastery Selenium Wizardry Ethical Awareness API Brilliancy



Congrats!

Skills

HTML Nerdery Regex Magic XPath Mastery Selenium Wizardry Ethical Awareness API Brilliancy



Congrats!

Skills

HTML Nerdery Regex Magic XPath Mastery Selenium Wizardry Ethical Awareness API Brilliancy



Congrats!

4/8

Skills

HTML Nerdery Regex Magic XPath Mastery Selenium Wizardry Ethical Awareness API Brilliancy



Bonus skill: robots.txt Veteran



5/

You...

6/8

You...

• learned about the difference between static and dynamic webpages.

You...

- learned about the difference between static and dynamic webpages.
- recognize JavaScript in the wild.

You...

- learned about the difference between static and dynamic webpages.
- recognize JavaScript in the wild.
- know how to work with Selenium to gather information from Ajax-generated websites.

You...

- learned about the difference between static and dynamic webpages.
- recognize JavaScript in the wild.
- know how to work with Selenium to gather information from Ajax-generated websites.
- got an overview of legal and ethical issues around web scraping

You...

- learned about the difference between static and dynamic webpages.
- recognize JavaScript in the wild.
- know how to work with Selenium to gather information from Ajax-generated websites.
- got an overview of legal and ethical issues around web scraping
- got an overview of practices that help establish a server-friendly workflow



R packages encountered

- the stringr package for string manipulation with regular expressions
- the xml2 package for working with XML/HTML files
- the rvest package for downloading and manipulating HTML files
- the RSelenium package to connect to the Selenium API and scrape dynamic webpages

• Try to get RSelenium running on your machine (threads on StackOverflow might be of help).

• Try to get RSelenium running on your machine (threads on StackOverflow might be of help).

• Try to re-build a typical browser session of yourself using Selenium.

- Try to get RSelenium running on your machine (threads on StackOverflow might be of help).
- Try to re-build a typical browser session of yourself using Selenium.
- Read the robots.txt of your favorite websites.

- Try to get RSelenium running on your machine (threads on StackOverflow might be of help).
- Try to re-build a typical browser session of yourself using Selenium.
- Read the robots.txt of your favorite websites.
- Study the Terms of Use / Terms of Service of your favorite websites.

- Try to get RSelenium running on your machine (threads on StackOverflow might be of help).
- Try to re-build a typical browser session of yourself using Selenium.
- Read the robots.txt of your favorite websites.
- Study the Terms of Use / Terms of Service of your favorite websites.
- Check out some of the following online resources:
 - http://www.seleniumhq.org/ the entire world of Selenium
 - http://decisionsandr.blogspot.de/2014/04/play-2048-using-r.html an R script that uses
 RSelenium to let R automatically play the browser game 2048
 - https://gijn.org/2015/08/12/on-the-ethics-of-web-scraping-and-data-journalism/ an article on the ethics of web scraping