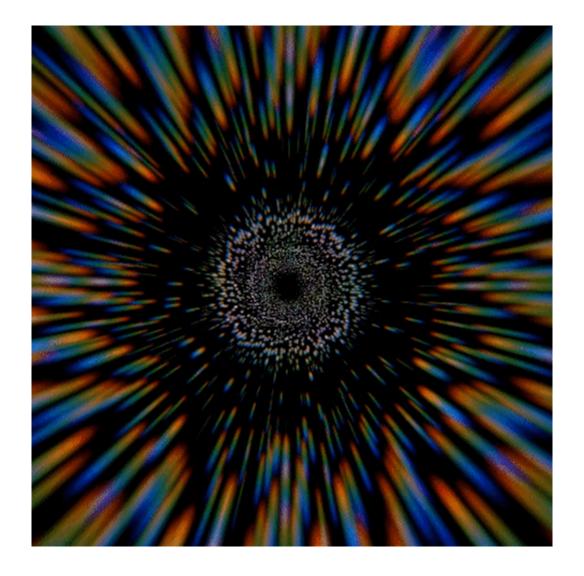
Getting data from the web - R packages

Andrew MacDonald 2014-11-23







Where is data on the internet?

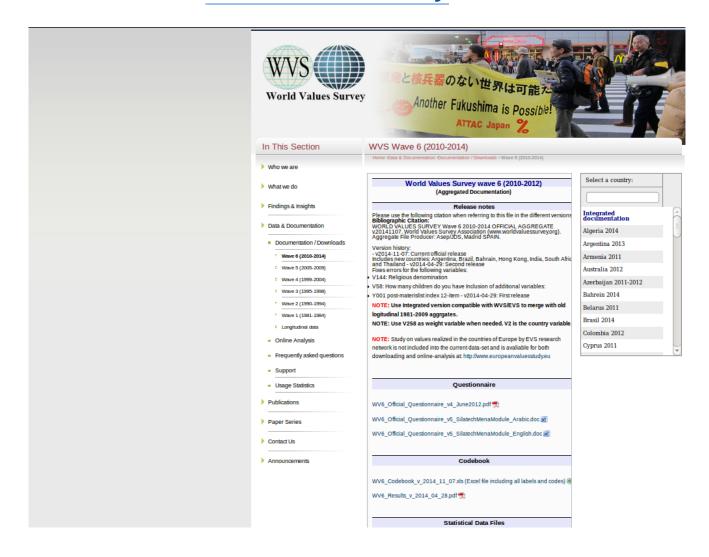
Four ways to get web data

There are many ways to obtain data from the Internet; let's consider four categories:

- click-and-download on the internet as a "flat" file, such as .csv, .xls
- install-and-play published in a repository which has an API, which has been wrapped
- API-query published with an unwrapped API
- Scraping implicit in an html website

spreadsheets hosted on websites

World values survey



Online data repositories

- Figshare
- Dryad
- KNB
- Pangaea

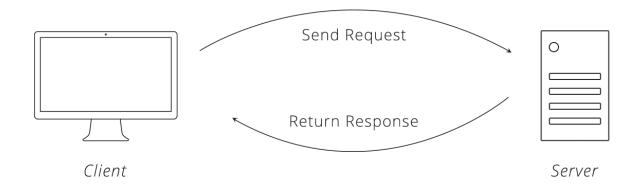
APIs

Application Programming Interfaces

The API specifies how software components should interact.

-wikipedia

There are Thousands of APIs



implicit within a website

- in tables national sports
- all over IMDB (hunger games example) Star Trek Wiki

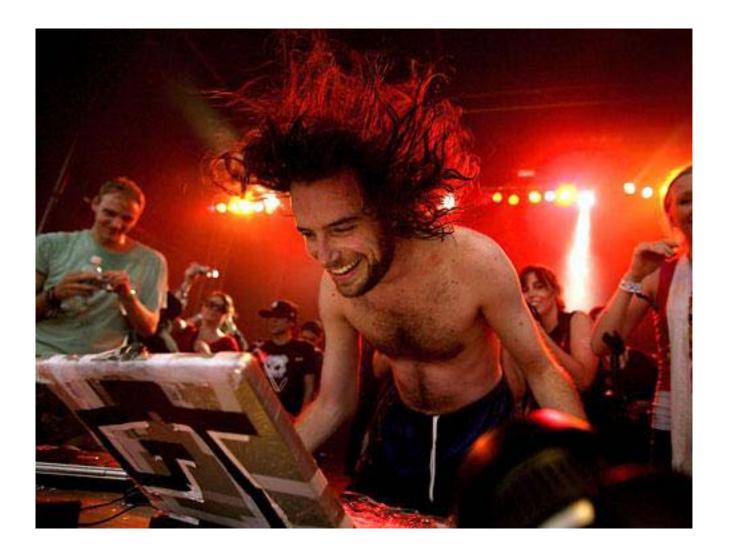
Today's goals

- explore some handy ROpenSci packages
- set up/learn basic authentication
- Take a look at API requests

Wait, but why?

Why do we want to do this?

- provenance
- · reproducible
- · updating
- ease
- · scaling





Build an API!

Open Movie Database API

gameday!!