DATA SCIENCE CLASS 3: GETTING DATA

AGENDA 2

- I. GETTING DATA
- II. REGEX / REQUESTS
- III. API / WRAPPERS

INTRO TO DATA SCIENCE

L GETTING DATA

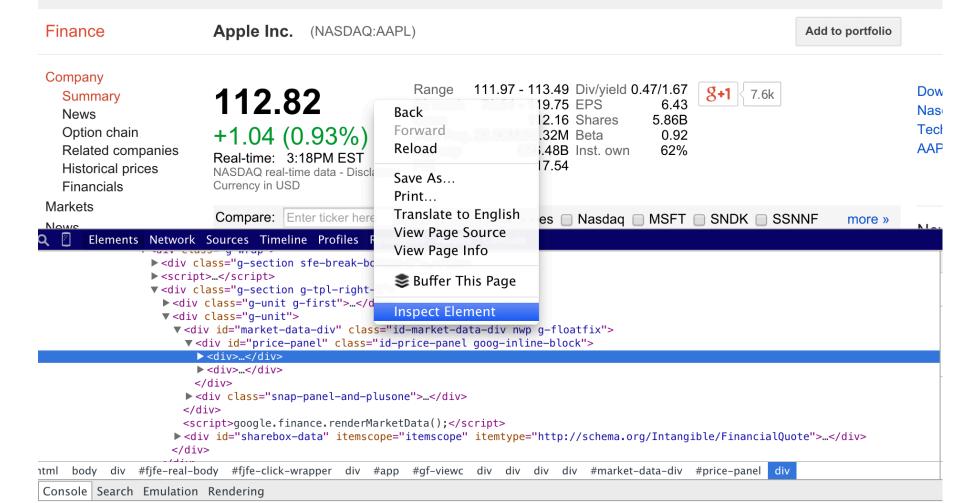
Data lives all over the internet

The question is whether or not the author of the data makes it easy for us to grab it.

II. REGEX / REQUESTS

REGular EXpressions

are how we capture patterns in text



What regex can we use to capture this?

BEAUTIFULSOUP

Is a python based HTML parser.

WEB CRAWLERS

We just built one!

WEB CRAWLERS

We just built one!

But be careful....

III. APIS AND WRAPPERS

HTML Parsing

VS.

API

Must call using requests and BeautifulSoup (imitate human behavior)

Makes the call for us (the author is "allowing us" to access the data)

API (n): Application Programming Interface

Easing access into a web based software

Examples of API's:

- Amazon (price data)
- Twitter (tweets)
- Facebook (social network)
- Sentiment Analysis

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API

VS.

API wrapper

May still be a bit confusing how to call the right page

Puts the API into a specific programming language. Gives us python functions.

Conclusion

Data is all over the web, but we must be polite and conscious of what data is available to us.