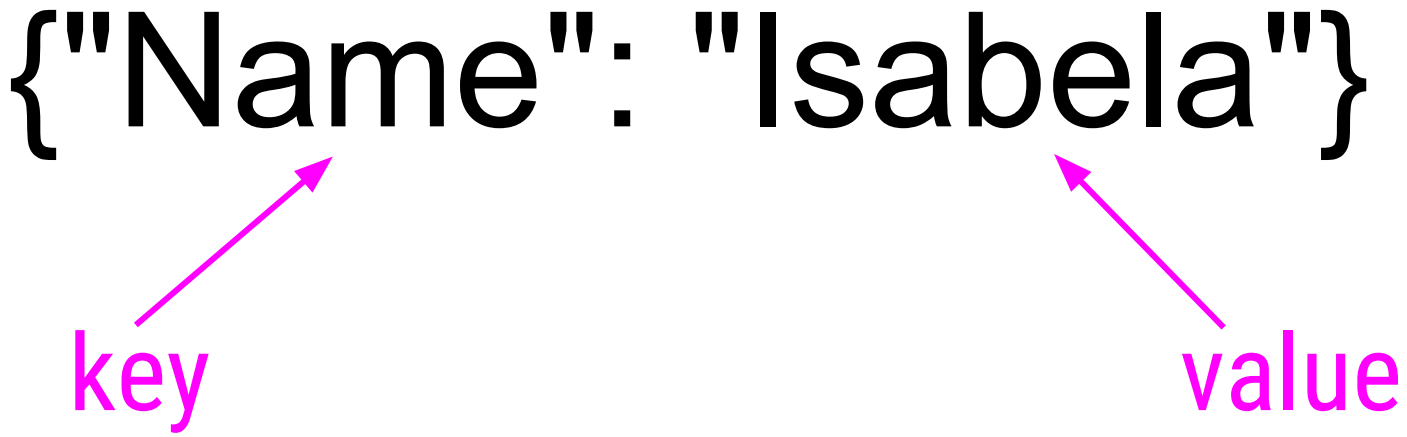
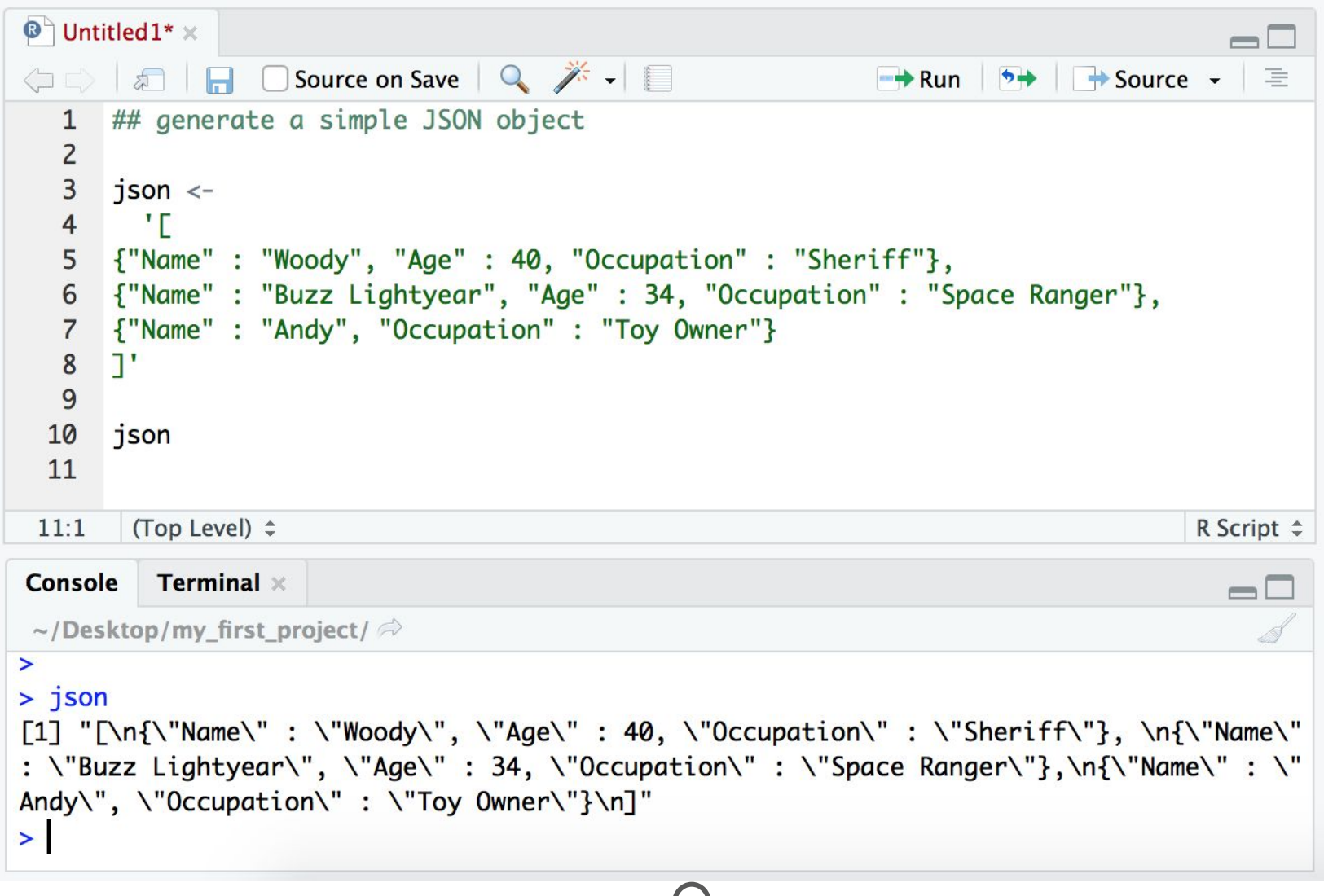
Getting data from hierarchical sources

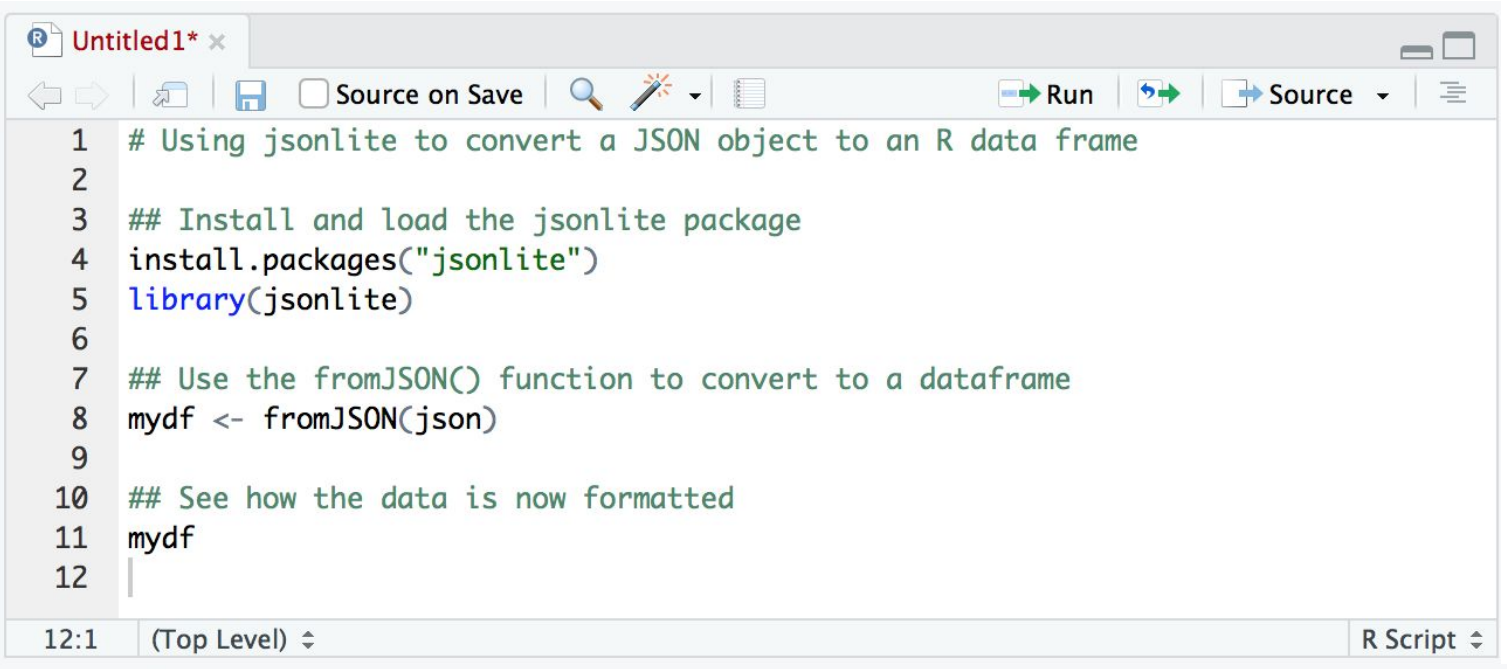
Getting and Cleaning Data

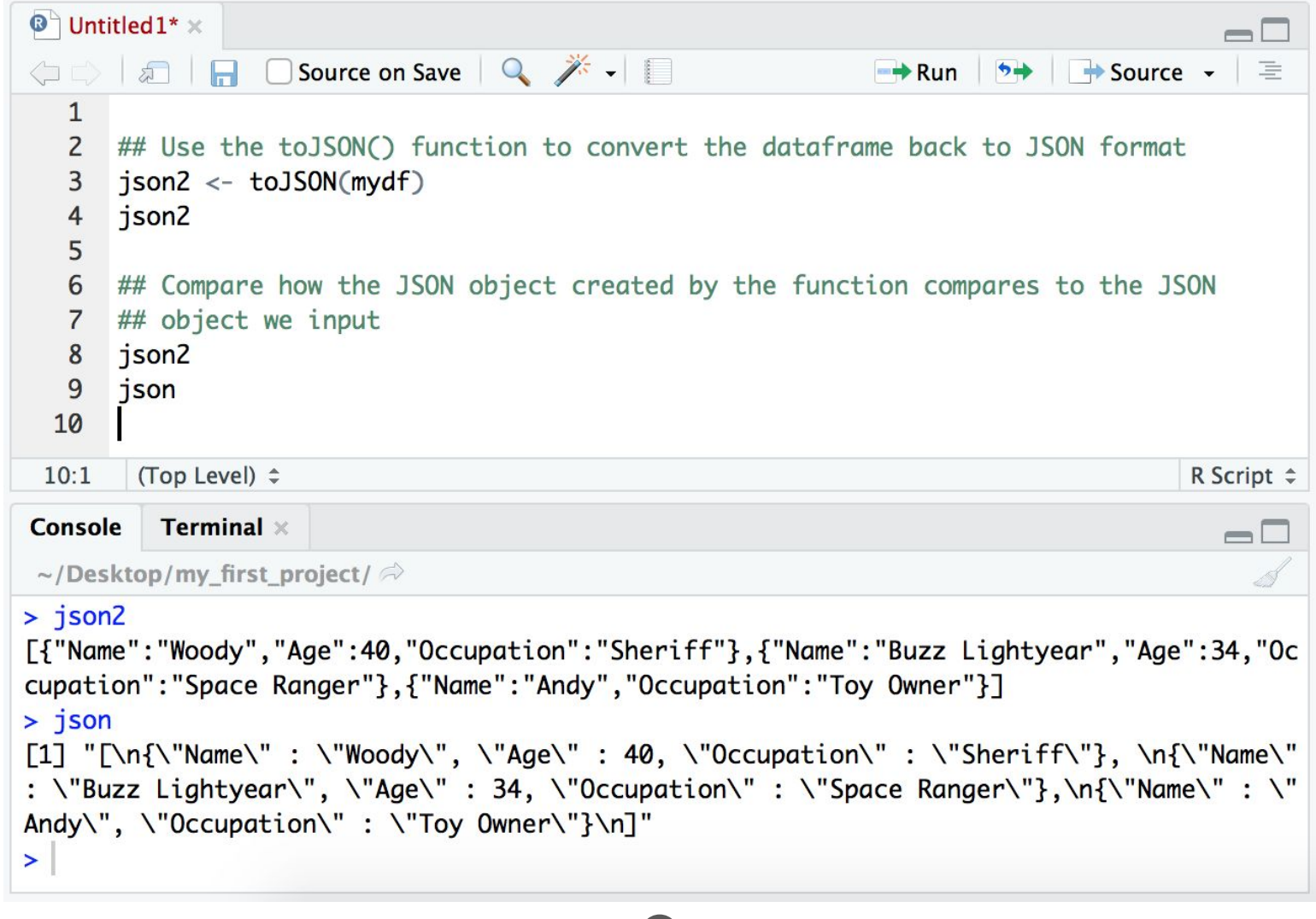
JSON: JavaScript Object Notation

key-value pairs



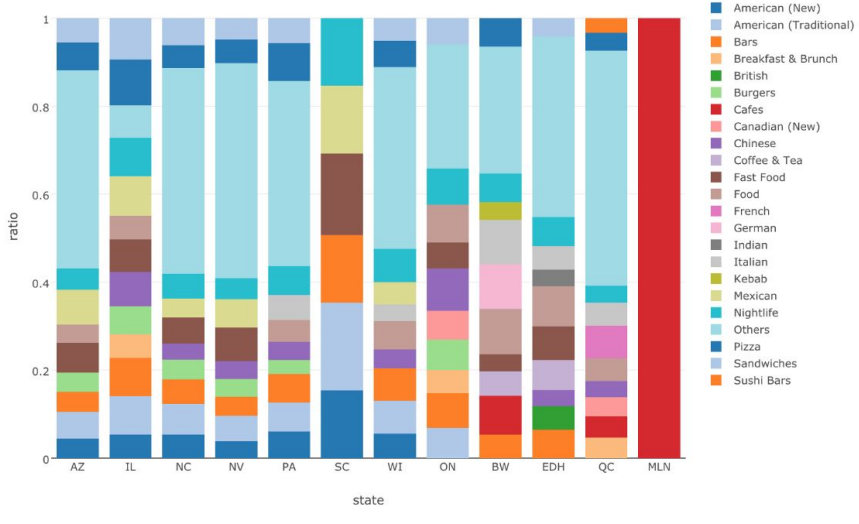

Untitled1*
Source on Save
Run
Source
1 ## generate a simple JSON object
2
3 json <-
4 '[
5 {"Name" : "Woody", "Age" : 40, "Occupation" : "Sheriff"},
6 {"Name" : "Buzz Lightyear", "Age" : 34, "Occupation" : "Space Ranger"},
7 {"Name" : "Andy", "Occupation" : "Toy Owner"}
8]'
9
10 json
11
11:1
(Top Level)
R Script
Console
Terminal
~/Desktop/my_first_project/
> json
[1] "[\n{\"Name\" : \"Woody\", \"Age\" : 40, \"Occupation\" : \"Sheriff\"}, \n{\"Name\"
: \"Buzz Lightyear\", \"Age\" : 34, \"Occupation\" : \"Space Ranger\"},\n{\"Name\" : \"
Andy\", \"Occupation\" : \"Toy Owner\"}\n]"


Untitled1*
Source on Save
Run
Source
1 # Using jsonlite to convert a JSON object to an R data frame
2
3 ## Install and load the jsonlite package
4 install.packages("jsonlite")
5 library(jsonlite)
6
7 ## Use the fromJSON() function to convert to a dataframe
8 mydf <- fromJSON(json)
9
10 ## See how the data is now formatted
11 mydf
12
12:1
(Top Level)
R Script
Console
Terminal
~/Desktop/my_first_project/
> mydf
Name Age Occupation
1 Woody 40 Sheriff
2 Buzz Lightyear 34 Space Ranger
3 Andy NA Toy Owner
>


Untitled1*
Source on Save
Run
Source
1
Use the toJSON() function to convert the dataframe back to JSON format
json2 <- toJSON(mydf)
json2
Compare how the JSON object created by the function compares to the JSON
object we input
json2
json
10
10:1
(Top Level)
R Script
Console
Terminal
~/Desktop/my_first_project/
> json2
[{"Name":"Woody","Age":40,"Occupation":"Sheriff"},{"Name":"Buzz Lightyear","Age":34,"Oc
cupation":"Space Ranger"},{"Name":"Andy","Occupation":"Toy Owner"}]
> json
[1] "[\n{\"Name\" : \"Woody\", \"Age\" : 40, \"Occupation\" : \"Sheriff\"}, \n{\"Name\"
: \"Buzz Lightyear\", \"Age\" : 34, \"Occupation\" : \"Space Ranger\"},\n{\"Name\" : \"
Andy\", \"Occupation\" : \"Toy Owner\"}\n]"
>

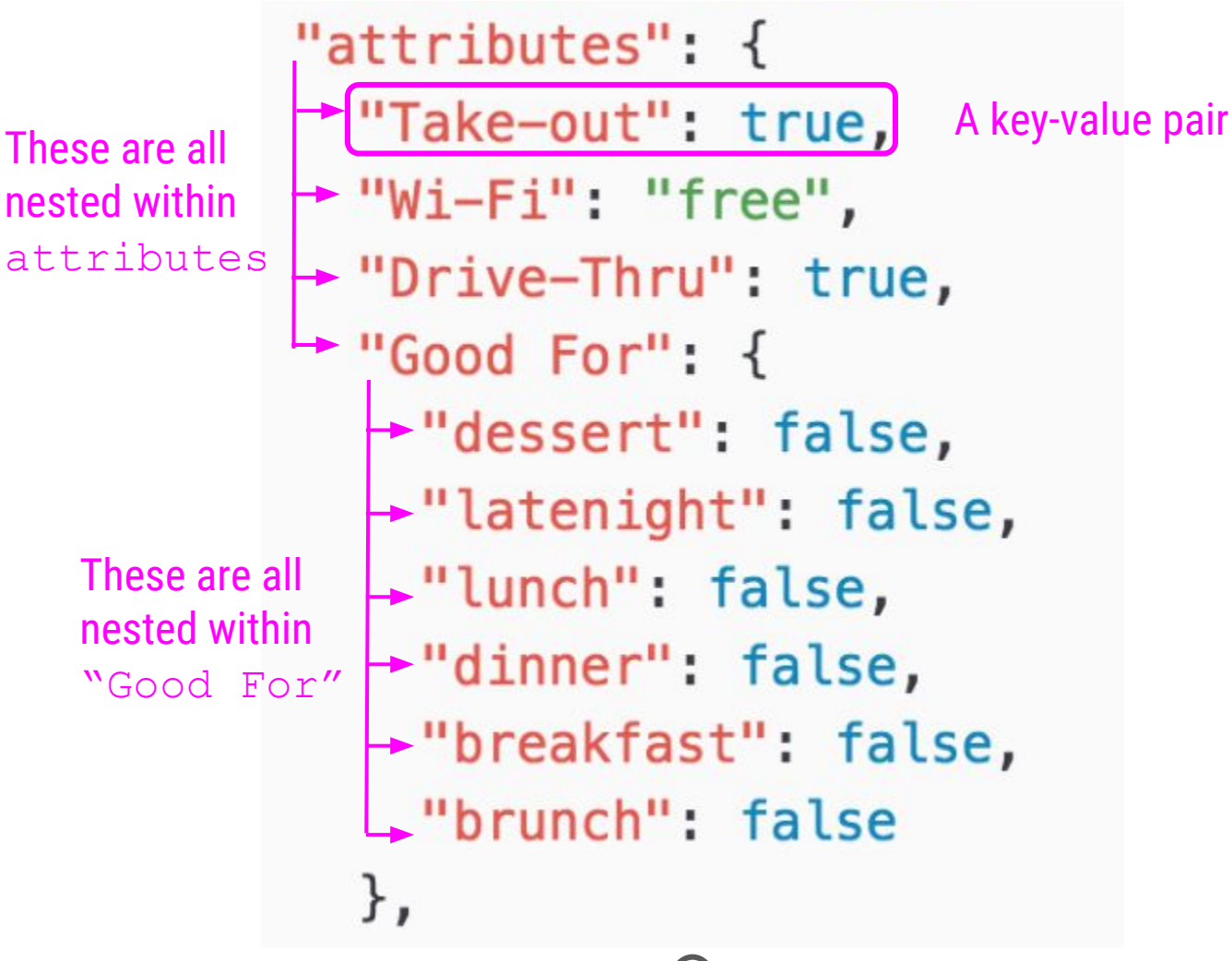
Kan Nishida Follow
CEO / Founder at Exploratory(https://exploratory.io/). Having fun analyzing interesting data and learning something new everyday.
Mar 29, 2016 · 10 min read

Working with JSON data in very simple way



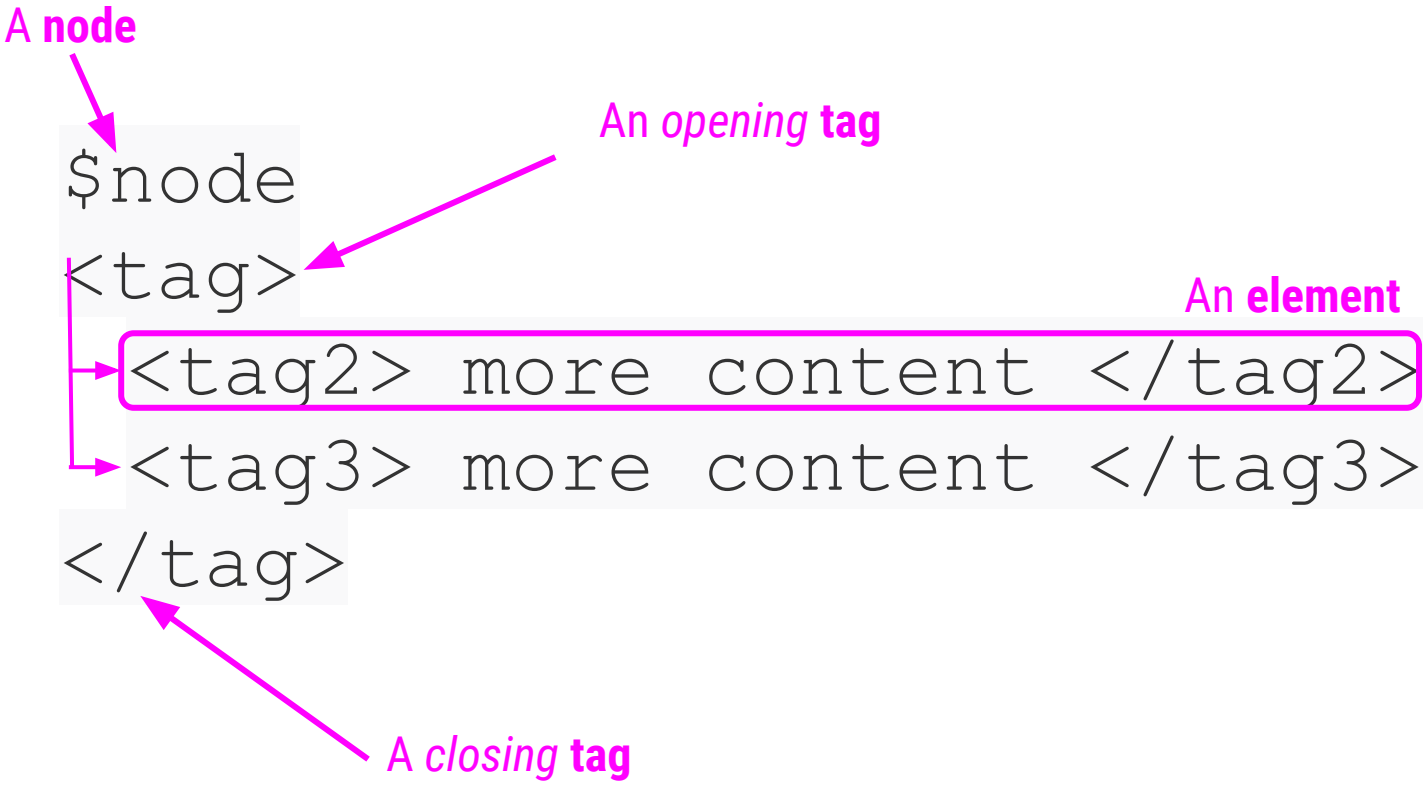
Restaurant types per State / Province

https://blog.exploratory.io/working-with-json-data-in-very-simple-way-ad7ebcc0bb89



https://blog.exploratory.io/working-with-json-data-in-very-simple-way-ad7ebcc0bb89

XML: Extensible Markup Language



Web scraping tutorial in R

José Roberto Ayala Solares Follow

Aug 2, 2017 · 5 min read

A couple of days ago, Kevin Markham from Data School, published a nice tutorial about web scraping using 16 lines of Python code.

Web scraping the President's lies in 16 lines of Python

Note: This tutorial is available as a Jupyter notebook, and the dataset of lies is available as a CSV file, both of...

www.dataschool.io

Summarizing: Getting data from hierarchical sources

Getting and Cleaning Data