homework7

Keelin

3/26/2021

# DS 413/613 HOMEWORK 7 Web Scraping and Rectangling  
# Instructions: Create an R markdown file and a Word file and push  
# both files to a Repository that you have created in GitHub.   
# Required packages and libraries are given below;   
# install.packages("rvest")   
# install.packages("listviewer")   
#listviewer::jsonedit(gh\_users)   
library(rvest)

## Warning: package 'rvest' was built under R version 4.0.4

library(dplyr)

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

library(tidyverse)

## -- Attaching packages -------------------------------------------------- tidyverse 1.3.0 --

## v ggplot2 3.3.1 v purrr 0.3.4  
## v tibble 3.0.1 v stringr 1.4.0  
## v tidyr 1.1.0 v forcats 0.5.0  
## v readr 1.3.1

## -- Conflicts ----------------------------------------------------- tidyverse\_conflicts() --  
## x dplyr::filter() masks stats::filter()  
## x readr::guess\_encoding() masks rvest::guess\_encoding()  
## x dplyr::lag() masks stats::lag()

library(repurrrsive)

## Warning: package 'repurrrsive' was built under R version 4.0.4

# 1) Using the following link, https://www.imdb.com/list/ls091520106/,   
# R coding for Web scraping and Selector Gadget, produce the following tibble.   
# (The first 5 rows are shown below) Use the step by step methodology   
# suggested in class showing all steps and code.   
Link <- "https://www.imdb.com/list/ls091520106/"  
page = read\_html(Link)  
Movienames = page%>% html\_nodes(".lister-item-header a")%>%  
 html\_text()  
Movienames

## [1] "The Shawshank Redemption"   
## [2] "The Godfather"   
## [3] "The Godfather: Part II"   
## [4] "The Dark Knight"   
## [5] "12 Angry Men"   
## [6] "Schindler's List"   
## [7] "The Lord of the Rings: The Return of the King"   
## [8] "Pulp Fiction"   
## [9] "The Good, the Bad and the Ugly"   
## [10] "Fight Club"   
## [11] "Joker"   
## [12] "The Lord of the Rings: The Fellowship of the Ring"   
## [13] "Forrest Gump"   
## [14] "Inception"   
## [15] "Star Wars: Episode V - The Empire Strikes Back"   
## [16] "The Lord of the Rings: The Two Towers"   
## [17] "The Matrix"   
## [18] "One Flew Over the Cuckoo's Nest"   
## [19] "Goodfellas"   
## [20] "Seven Samurai"   
## [21] "Se7en"   
## [22] "City of God"   
## [23] "Life Is Beautiful"   
## [24] "The Silence of the Lambs"   
## [25] "Star Wars: Episode IV - A New Hope"   
## [26] "It's a Wonderful Life"   
## [27] "Saving Private Ryan"   
## [28] "Spirited Away"   
## [29] "The Green Mile"   
## [30] "Léon: The Professional"   
## [31] "Hara-Kiri"   
## [32] "Interstellar"   
## [33] "The Usual Suspects"   
## [34] "The Lion King"   
## [35] "American History X"   
## [36] "Back to the Future"   
## [37] "The Pianist"   
## [38] "Modern Times"   
## [39] "Terminator 2: Judgment Day"   
## [40] "The Intouchables"   
## [41] "Psycho"   
## [42] "Gladiator"   
## [43] "City Lights"   
## [44] "The Departed"   
## [45] "Whiplash"   
## [46] "Once Upon a Time in the West"   
## [47] "The Prestige"   
## [48] "Avengers: Endgame"   
## [49] "Casablanca"   
## [50] "Grave of the Fireflies"   
## [51] "Rear Window"   
## [52] "Cinema Paradiso"   
## [53] "Alien"   
## [54] "Raiders of the Lost Ark"   
## [55] "Memento"   
## [56] "Apocalypse Now"   
## [57] "The Great Dictator"   
## [58] "The Lives of Others"   
## [59] "Avengers: Infinity War"   
## [60] "Django Unchained"   
## [61] "Spider-Man: Into the Spider-Verse"   
## [62] "The Shining"   
## [63] "Paths of Glory"   
## [64] "WALL·E"   
## [65] "Sunset Blvd."   
## [66] "Dr. Strangelove or: How I Learned to Stop Worrying and Love the Bomb"  
## [67] "Princess Mononoke"   
## [68] "Oldboy"   
## [69] "Witness for the Prosecution"   
## [70] "The Dark Knight Rises"   
## [71] "Once Upon a Time in America"   
## [72] "Parasite"   
## [73] "Aliens"   
## [74] "American Beauty"   
## [75] "Coco"   
## [76] "Your Name."   
## [77] "Braveheart"   
## [78] "Das Boot"   
## [79] "3 Idiots"   
## [80] "Taare Zameen Par"   
## [81] "Star Wars: Episode VI - Return of the Jedi"   
## [82] "Toy Story"   
## [83] "Reservoir Dogs"   
## [84] "Amadeus"   
## [85] "Dangal"   
## [86] "Good Will Hunting"   
## [87] "Inglourious Basterds"   
## [88] "M"   
## [89] "Requiem for a Dream"   
## [90] "2001: A Space Odyssey"   
## [91] "Vertigo"   
## [92] "Eternal Sunshine of the Spotless Mind"   
## [93] "Citizen Kane"   
## [94] "Full Metal Jacket"   
## [95] "The Hunt"   
## [96] "North by Northwest"   
## [97] "A Clockwork Orange"   
## [98] "Snatch"   
## [99] "Amélie"   
## [100] "The Kid"

Link <- "https://www.imdb.com/list/ls091520106/"  
page = read\_html(Link)  
Ratings = page%>% html\_nodes(".ipl-rating-star\_\_rating")%>%  
 html\_text()  
Ratings

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## [1941] "Rate" "4" "Rate" "5" "Rate" "6" "Rate" "7" "Rate" "8"   
## [1951] "Rate" "9" "Rate" "10" "Rate" "8.3" "0" "Rate" "1" "Rate"  
## [1961] "2" "Rate" "3" "Rate" "4" "Rate" "5" "Rate" "6" "Rate"  
## [1971] "7" "Rate" "8" "Rate" "9" "Rate" "10" "Rate" "8.3" "0"   
## [1981] "Rate" "1" "Rate" "2" "Rate" "3" "Rate" "4" "Rate" "5"   
## [1991] "Rate" "6" "Rate" "7" "Rate" "8" "Rate" "9" "Rate" "10"   
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## [2081] "Rate" "5" "Rate" "6" "Rate" "7" "Rate" "8" "Rate" "9"   
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## [2191] "2" "Rate" "3" "Rate" "4" "Rate" "5" "Rate" "6" "Rate"  
## [2201] "7" "Rate" "8" "Rate" "9" "Rate" "10" "Rate" "8.3" "0"   
## [2211] "Rate" "1" "Rate" "2" "Rate" "3" "Rate" "4" "Rate" "5"   
## [2221] "Rate" "6" "Rate" "7" "Rate" "8" "Rate" "9" "Rate" "10"   
## [2231] "Rate" "8.3" "0" "Rate" "1" "Rate" "2" "Rate" "3" "Rate"  
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## [2251] "9" "Rate" "10" "Rate" "8.3" "0" "Rate" "1" "Rate" "2"   
## [2261] "Rate" "3" "Rate" "4" "Rate" "5" "Rate" "6" "Rate" "7"   
## [2271] "Rate" "8" "Rate" "9" "Rate" "10" "Rate" "8.3" "0" "Rate"  
## [2281] "1" "Rate" "2" "Rate" "3" "Rate" "4" "Rate" "5" "Rate"  
## [2291] "6" "Rate" "7" "Rate" "8" "Rate" "9" "Rate" "10" "Rate"

Link <- "https://www.imdb.com/list/ls091520106/"  
page = read\_html(Link)  
Runtime = page%>% html\_nodes(".runtime")%>%  
 html\_text()  
Runtime

## [1] "142 min" "175 min" "202 min" "152 min" "96 min" "195 min" "201 min"  
## [8] "154 min" "178 min" "139 min" "122 min" "178 min" "142 min" "148 min"  
## [15] "124 min" "179 min" "136 min" "133 min" "146 min" "207 min" "127 min"  
## [22] "130 min" "116 min" "118 min" "121 min" "130 min" "169 min" "125 min"  
## [29] "189 min" "110 min" "133 min" "169 min" "106 min" "88 min" "119 min"  
## [36] "116 min" "150 min" "87 min" "137 min" "112 min" "109 min" "155 min"  
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## [50] "89 min" "112 min" "155 min" "117 min" "115 min" "113 min" "147 min"  
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## [71] "229 min" "132 min" "137 min" "122 min" "105 min" "106 min" "178 min"  
## [78] "149 min" "170 min" "165 min" "131 min" "81 min" "99 min" "160 min"  
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## [99] "122 min" "68 min"

moviesdataframe = data.frame(Movienames,Ratings,Runtime)  
moviesdataframe

## Movienames  
## 1 The Shawshank Redemption  
## 2 The Godfather  
## 3 The Godfather: Part II  
## 4 The Dark Knight  
## 5 12 Angry Men  
## 6 Schindler's List  
## 7 The Lord of the Rings: The Return of the King  
## 8 Pulp Fiction  
## 9 The Good, the Bad and the Ugly  
## 10 Fight Club  
## 11 Joker  
## 12 The Lord of the Rings: The Fellowship of the Ring  
## 13 Forrest Gump  
## 14 Inception  
## 15 Star Wars: Episode V - The Empire Strikes Back  
## 16 The Lord of the Rings: The Two Towers  
## 17 The Matrix  
## 18 One Flew Over the Cuckoo's Nest  
## 19 Goodfellas  
## 20 Seven Samurai  
## 21 Se7en  
## 22 City of God  
## 23 Life Is Beautiful  
## 24 The Silence of the Lambs  
## 25 Star Wars: Episode IV - A New Hope  
## 26 It's a Wonderful Life  
## 27 Saving Private Ryan  
## 28 Spirited Away  
## 29 The Green Mile  
## 30 Léon: The Professional  
## 31 Hara-Kiri  
## 32 Interstellar  
## 33 The Usual Suspects  
## 34 The Lion King  
## 35 American History X  
## 36 Back to the Future  
## 37 The Pianist  
## 38 Modern Times  
## 39 Terminator 2: Judgment Day  
## 40 The Intouchables  
## 41 Psycho  
## 42 Gladiator  
## 43 City Lights  
## 44 The Departed  
## 45 Whiplash  
## 46 Once Upon a Time in the West  
## 47 The Prestige  
## 48 Avengers: Endgame  
## 49 Casablanca  
## 50 Grave of the Fireflies  
## 51 Rear Window  
## 52 Cinema Paradiso  
## 53 Alien  
## 54 Raiders of the Lost Ark  
## 55 Memento  
## 56 Apocalypse Now  
## 57 The Great Dictator  
## 58 The Lives of Others  
## 59 Avengers: Infinity War  
## 60 Django Unchained  
## 61 Spider-Man: Into the Spider-Verse  
## 62 The Shining  
## 63 Paths of Glory  
## 64 WALL·E  
## 65 Sunset Blvd.  
## 66 Dr. Strangelove or: How I Learned to Stop Worrying and Love the Bomb  
## 67 Princess Mononoke  
## 68 Oldboy  
## 69 Witness for the Prosecution  
## 70 The Dark Knight Rises  
## 71 Once Upon a Time in America  
## 72 Parasite  
## 73 Aliens  
## 74 American Beauty  
## 75 Coco  
## 76 Your Name.  
## 77 Braveheart  
## 78 Das Boot  
## 79 3 Idiots  
## 80 Taare Zameen Par  
## 81 Star Wars: Episode VI - Return of the Jedi  
## 82 Toy Story  
## 83 Reservoir Dogs  
## 84 Amadeus  
## 85 Dangal  
## 86 Good Will Hunting  
## 87 Inglourious Basterds  
## 88 M  
## 89 Requiem for a Dream  
## 90 2001: A Space Odyssey  
## 91 Vertigo  
## 92 Eternal Sunshine of the Spotless Mind  
## 93 Citizen Kane  
## 94 Full Metal Jacket  
## 95 The Hunt  
## 96 North by Northwest  
## 97 A Clockwork Orange  
## 98 Snatch  
## 99 Amélie  
## 100 The Kid  
## 101 The Shawshank Redemption  
## 102 The Godfather  
## 103 The Godfather: Part II  
## 104 The Dark Knight  
## 105 12 Angry Men  
## 106 Schindler's List  
## 107 The Lord of the Rings: The Return of the King  
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## 2107 The Lord of the Rings: The Return of the King  
## 2108 Pulp Fiction  
## 2109 The Good, the Bad and the Ugly  
## 2110 Fight Club  
## 2111 Joker  
## 2112 The Lord of the Rings: The Fellowship of the Ring  
## 2113 Forrest Gump  
## 2114 Inception  
## 2115 Star Wars: Episode V - The Empire Strikes Back  
## 2116 The Lord of the Rings: The Two Towers  
## 2117 The Matrix  
## 2118 One Flew Over the Cuckoo's Nest  
## 2119 Goodfellas  
## 2120 Seven Samurai  
## 2121 Se7en  
## 2122 City of God  
## 2123 Life Is Beautiful  
## 2124 The Silence of the Lambs  
## 2125 Star Wars: Episode IV - A New Hope  
## 2126 It's a Wonderful Life  
## 2127 Saving Private Ryan  
## 2128 Spirited Away  
## 2129 The Green Mile  
## 2130 Léon: The Professional  
## 2131 Hara-Kiri  
## 2132 Interstellar  
## 2133 The Usual Suspects  
## 2134 The Lion King  
## 2135 American History X  
## 2136 Back to the Future  
## 2137 The Pianist  
## 2138 Modern Times  
## 2139 Terminator 2: Judgment Day  
## 2140 The Intouchables  
## 2141 Psycho  
## 2142 Gladiator  
## 2143 City Lights  
## 2144 The Departed  
## 2145 Whiplash  
## 2146 Once Upon a Time in the West  
## 2147 The Prestige  
## 2148 Avengers: Endgame  
## 2149 Casablanca  
## 2150 Grave of the Fireflies  
## 2151 Rear Window  
## 2152 Cinema Paradiso  
## 2153 Alien  
## 2154 Raiders of the Lost Ark  
## 2155 Memento  
## 2156 Apocalypse Now  
## 2157 The Great Dictator  
## 2158 The Lives of Others  
## 2159 Avengers: Infinity War  
## 2160 Django Unchained  
## 2161 Spider-Man: Into the Spider-Verse  
## 2162 The Shining  
## 2163 Paths of Glory  
## 2164 WALL·E  
## 2165 Sunset Blvd.  
## 2166 Dr. Strangelove or: How I Learned to Stop Worrying and Love the Bomb  
## 2167 Princess Mononoke  
## 2168 Oldboy  
## 2169 Witness for the Prosecution  
## 2170 The Dark Knight Rises  
## 2171 Once Upon a Time in America  
## 2172 Parasite  
## 2173 Aliens  
## 2174 American Beauty  
## 2175 Coco  
## 2176 Your Name.  
## 2177 Braveheart  
## 2178 Das Boot  
## 2179 3 Idiots  
## 2180 Taare Zameen Par  
## 2181 Star Wars: Episode VI - Return of the Jedi  
## 2182 Toy Story  
## 2183 Reservoir Dogs  
## 2184 Amadeus  
## 2185 Dangal  
## 2186 Good Will Hunting  
## 2187 Inglourious Basterds  
## 2188 M  
## 2189 Requiem for a Dream  
## 2190 2001: A Space Odyssey  
## 2191 Vertigo  
## 2192 Eternal Sunshine of the Spotless Mind  
## 2193 Citizen Kane  
## 2194 Full Metal Jacket  
## 2195 The Hunt  
## 2196 North by Northwest  
## 2197 A Clockwork Orange  
## 2198 Snatch  
## 2199 Amélie  
## 2200 The Kid  
## 2201 The Shawshank Redemption  
## 2202 The Godfather  
## 2203 The Godfather: Part II  
## 2204 The Dark Knight  
## 2205 12 Angry Men  
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## 2276 10 106 min  
## 2277 Rate 178 min  
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## 2282 Rate 81 min  
## 2283 2 99 min  
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## 2289 5 102 min  
## 2290 Rate 149 min  
## 2291 6 128 min  
## 2292 Rate 108 min  
## 2293 7 119 min  
## 2294 Rate 116 min  
## 2295 8 115 min  
## 2296 Rate 136 min  
## 2297 9 136 min  
## 2298 Rate 102 min  
## 2299 10 122 min  
## 2300 Rate 68 min

# Now let's improve the format and appearance of the data table by transforming  
# into a tibble  
  
is\_tibble(moviesdataframe)

## [1] FALSE

as\_tibble(moviesdataframe)

## # A tibble: 2,300 x 3  
## Movienames Ratings Runtime  
## <chr> <chr> <chr>   
## 1 The Shawshank Redemption 9.3 142 min  
## 2 The Godfather 0 175 min  
## 3 The Godfather: Part II Rate 202 min  
## 4 The Dark Knight 1 152 min  
## 5 12 Angry Men Rate 96 min   
## 6 Schindler's List 2 195 min  
## 7 The Lord of the Rings: The Return of the King Rate 201 min  
## 8 Pulp Fiction 3 154 min  
## 9 The Good, the Bad and the Ugly Rate 178 min  
## 10 Fight Club 4 139 min  
## # ... with 2,290 more rows

# 2)  
# a) Explain or describe nested Lists. (Three or four sentences)  
 # A nested list is a list within a list. Nested lists can get complicated so they   
 # usually need to be transformed into a data frame for better understanding. They can be   
 # used to be arranged in hierarical structures.   
# b) Open and explore data for Git Hub repos by running the following code gh\_repo.   
# Comment on the structure and arrangement of the data (Two or three sentences)  
  
listviewer::jsonedit(gh\_repos)

## PhantomJS not found. You can install it with webshot::install\_phantomjs(). If it is installed, please make sure the phantomjs executable can be found via the PATH variable.

#gh\_repos  
# withiin the gh\_repos, there are 6 lists of repositiories that belong to a user. 5 of the lists have thirty lists.   
# one list has 26 lists. within each of those 26/30 lists are another list of 68 variables, there are 68 variables.   
  
   
# c) In two or three sentences, explain what happens to the data when you run the code;   
repos <- tibble(repo = gh\_repos)  
repos

## # A tibble: 6 x 1  
## repo   
## <list>   
## 1 <list [30]>  
## 2 <list [30]>  
## 3 <list [30]>  
## 4 <list [26]>  
## 5 <list [30]>  
## 6 <list [30]>

# With this code, we organized the data into a tibble. This makes it easier to see how many lists and elements are in the repo.   
# it summarizes the data for us into a more organized comprehensive way. It also makes bundling and   
# extracting easier.   
# d) Describe the data representation when the listserver tool is applied.   
# And go into detail explaining why we have a nested List configuration.  
# What do the numbers 30 and 68 represent ? (6 or 7 sentences)  
# Run the following code:  
 listviewer::jsonedit(gh\_repos)

# It shows the layers of the list. The number 30 represents how many lists are within the original   
# six lists that belong to github users. the 68 represents the number of variables in the 30 lists. This function makes   
# it easier to view data details as well as explore how many lists and variables there are. It also   
 #allows us to search through the entire data and nested lists.   
  
  
# e) Use and show R unesting code to produce the tibble below.  
 tibble(repo = gh\_repos) %>%   
 unnest\_auto(repo) %>%   
 unnest\_auto(repo)

## Using `unnest\_longer(repo)`; no element has names

## Using `unnest\_wider(repo)`; elements have 68 names in common

## # A tibble: 176 x 67  
## id name full\_name owner private html\_url description fork url   
## <int> <chr> <chr> <lis> <lgl> <chr> <chr> <lgl> <chr>  
## 1 6.12e7 after gaborcsa~ <nam~ FALSE https:/~ Run Code i~ FALSE http~  
## 2 4.05e7 argu~ gaborcsa~ <nam~ FALSE https:/~ Declarativ~ FALSE http~  
## 3 3.64e7 ask gaborcsa~ <nam~ FALSE https:/~ Friendly C~ FALSE http~  
## 4 3.49e7 base~ gaborcsa~ <nam~ FALSE https:/~ Do we get ~ FALSE http~  
## 5 6.16e7 cite~ gaborcsa~ <nam~ FALSE https:/~ Test R pac~ TRUE http~  
## 6 3.39e7 clis~ gaborcsa~ <nam~ FALSE https:/~ Unicode sy~ FALSE http~  
## 7 3.72e7 cmak~ gaborcsa~ <nam~ FALSE https:/~ port of cm~ TRUE http~  
## 8 6.80e7 cmark gaborcsa~ <nam~ FALSE https:/~ CommonMark~ TRUE http~  
## 9 6.32e7 cond~ gaborcsa~ <nam~ FALSE https:/~ <NA> TRUE http~  
## 10 2.43e7 cray~ gaborcsa~ <nam~ FALSE https:/~ R package ~ FALSE http~  
## # ... with 166 more rows, and 58 more variables: forks\_url <chr>,  
## # keys\_url <chr>, collaborators\_url <chr>, teams\_url <chr>, hooks\_url <chr>,  
## # issue\_events\_url <chr>, events\_url <chr>, assignees\_url <chr>,  
## # branches\_url <chr>, tags\_url <chr>, blobs\_url <chr>, git\_tags\_url <chr>,  
## # git\_refs\_url <chr>, trees\_url <chr>, statuses\_url <chr>,  
## # languages\_url <chr>, stargazers\_url <chr>, contributors\_url <chr>,  
## # subscribers\_url <chr>, subscription\_url <chr>, commits\_url <chr>,  
## # git\_commits\_url <chr>, comments\_url <chr>, issue\_comment\_url <chr>,  
## # contents\_url <chr>, compare\_url <chr>, merges\_url <chr>, archive\_url <chr>,  
## # downloads\_url <chr>, issues\_url <chr>, pulls\_url <chr>,  
## # milestones\_url <chr>, notifications\_url <chr>, labels\_url <chr>,  
## # releases\_url <chr>, deployments\_url <chr>, created\_at <chr>,  
## # updated\_at <chr>, pushed\_at <chr>, git\_url <chr>, ssh\_url <chr>,  
## # clone\_url <chr>, svn\_url <chr>, size <int>, stargazers\_count <int>,  
## # watchers\_count <int>, language <chr>, has\_issues <lgl>,  
## # has\_downloads <lgl>, has\_wiki <lgl>, has\_pages <lgl>, forks\_count <int>,  
## # open\_issues\_count <int>, forks <int>, open\_issues <int>, watchers <int>,  
## # default\_branch <chr>, homepage <chr>