RWorksheet_Mijares#5.Rmd

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```r
library(rvest)
library(httr)
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
```

```r
library(polite)
library(kableExtra)
```

```
##
## Attaching package: 'kableExtra'

## The following object is masked from 'package:dplyr':
##
##     group_rows
```

```r
library(stringr)


url <- 'https://www.imdb.com/chart/toptv'

page <- read_html(url)

session <- bow(url, user_agent = "Educational")

session
```

```
## <polite session> https://www.imdb.com/chart/toptv
##     User-agent: Educational
##     robots.txt: 35 rules are defined for 3 bots
##    Crawl delay: 5 sec
##   The path is scrapable for this user-agent
```

```r
name <- page %>% html_nodes(".ipc-title__text") %>% html_text()
name1 <- name[!grepl("Top 250 TV Shows|IMDb Charts|Recently viewed|More to explore", name, ignore.case =
name1
```

```
##  [1] "1. Breaking Bad"
```

```
##  [2] "2. Planet Earth II"
##  [3] "3. Planet Earth"
##  [4] "4. Band of Brothers"
##  [5] "5. Chernobyl"
##  [6] "6. The Wire"
##  [7] "7. Avatar: The Last Airbender"
##  [8] "8. Blue Planet II"
##  [9] "9. The Sopranos"
## [10] "10. Cosmos: A Spacetime Odyssey"
## [11] "11. Cosmos"
## [12] "12. Our Planet"
## [13] "13. Game of Thrones"
## [14] "14. Bluey"
## [15] "15. The World at War"
## [16] "16. Fullmetal Alchemist: Brotherhood"
## [17] "17. Rick and Morty"
## [18] "18. Life"
## [19] "19. The Last Dance"
## [20] "20. The Twilight Zone"
## [21] "21. The Vietnam War"
## [22] "22. Sherlock"
## [23] "23. Attack on Titan"
## [24] "24. Batman: The Animated Series"
## [25] "25. The Office"
```

```r
rank <- str_extract(name1, "^\\d+\\.")
rank
```

```
##  [1] "1."  "2."  "3."  "4."  "5."  "6."  "7."  "8."  "9."  "10." "11." "12."
## [13] "13." "14." "15." "16." "17." "18." "19." "20." "21." "22." "23." "24."
## [25] "25."
```

```r
title <- str_replace(name, "^\\d+\\.", "")
title
```

```
##  [1] "IMDb Charts"                    "Top 250 TV Shows"
##  [3] " Breaking Bad"                  " Planet Earth II"
##  [5] " Planet Earth"                  " Band of Brothers"
##  [7] " Chernobyl"                     " The Wire"
##  [9] " Avatar: The Last Airbender"    " Blue Planet II"
## [11] " The Sopranos"                  " Cosmos: A Spacetime Odyssey"
## [13] " Cosmos"                        " Our Planet"
## [15] " Game of Thrones"               " Bluey"
## [17] " The World at War"              " Fullmetal Alchemist: Brotherhood"
## [19] " Rick and Morty"                " Life"
## [21] " The Last Dance"                " The Twilight Zone"
## [23] " The Vietnam War"               " Sherlock"
## [25] " Attack on Titan"               " Batman: The Animated Series"
## [27] " The Office"                    "Recently viewed"
```

```r
year = page %>% html_nodes(".sc-5bc66c50-6.OOdsw.cli-title-metadata-item") %>% html_text()
years <- str_extract_all(year, "\\b\\d{4}(?:-\\d{4})?\\b") %>% unlist()
years
```

```
##  [1] "2008-2013" "2016"      "2006"      "2001"      "2019"      "2002-2008"
##  [7] "2005-2008" "2017"      "1999-2007" "2014"      "1980"      "2019-2023"
```

```
## [13] "2011-2019" "2018"      "1973-1974" "2009-2010" "2013"      "2009"
## [19] "2020"      "1959-1964" "2017"      "2010-2017" "2013-2023" "1992-1995"
## [25] "2005-2013"
```

```r
ratings = page %>% html_nodes(".ipc-rating-star--rating") %>% html_text()
ratings
```

```
##  [1] "9.5" "9.5" "9.4" "9.4" "9.3" "9.3" "9.3" "9.3" "9.2" "9.2" "9.3" "9.2"
## [13] "9.2" "9.3" "9.2" "9.1" "9.1" "9.1" "9.1" "9.0" "9.1" "9.1" "9.1" "9.0"
## [25] "9.0"
```

```r
episode <- page %>% html_nodes(".sc-5bc66c50-6.O0dsw.cli-title-metadata-item") %>%
html_text()
episodes <- str_extract_all(episode, "\\b\\d+ eps\\b") %>% unlist()
episodes
```

```
##  [1] "62 eps"  "6 eps"   "11 eps"  "10 eps"  "5 eps"   "60 eps"  "62 eps"
##  [8] "7 eps"   "86 eps"  "13 eps"  "13 eps"  "12 eps"  "74 eps"  "194 eps"
## [15] "26 eps"  "68 eps"  "78 eps"  "11 eps"  "10 eps"  "156 eps" "10 eps"
## [22] "15 eps"  "98 eps"  "85 eps"  "188 eps"
```

```r
votes = page %>% html_nodes(".ipc-rating-star--voteCount") %>% html_text()
votes
```

```
##  [1] " (2.2M)" " (162K)" " (223K)" " (544K)" " (905K)" " (390K)" " (388K)"
##  [8] " (48K)"  " (497K)" " (131K)" " (45K)"  " (53K)"  " (2.4M)" " (33K)"
## [15] " (31K)"  " (208K)" " (626K)" " (43K)"  " (159K)" " (96K)"  " (29K)"
## [22] " (1M)"   " (559K)" " (122K)" " (744K)"
```

```r
urls <- c("https://www.imdb.com/title/tt0903747/?ref_=chttvtp_i_1",
          "https://www.imdb.com/title/tt5491994/?ref_=chttvtp_i_2",
          "https://www.imdb.com/title/tt0795176/?ref_=chttvtp_i_3",
          "https://www.imdb.com/title/tt0185906/?ref_=chttvtp_i_4",
          "https://www.imdb.com/title/tt7366338/?ref_=chttvtp_i_5",
          "https://www.imdb.com/title/tt0306414/?ref_=chttvtp_i_6",
          "https://www.imdb.com/title/tt0417299/?ref_=chttvtp_i_7",
          "https://www.imdb.com/title/tt6769208/?ref_=chttvtp_i_8",
          "https://www.imdb.com/title/tt0141842/?ref_=chttvtp_i_9",
          "https://www.imdb.com/title/tt2395695/?ref_=chttvtp_i_10",
          "https://www.imdb.com/title/tt0081846/?ref_=chttvtp_i_11",
          "https://www.imdb.com/title/tt9253866/?ref_=chttvtp_i_12",
          "https://www.imdb.com/title/tt0944947/?ref_=chttvtp_i_13",
          "https://www.imdb.com/title/tt7678620/?ref_=chttvtp_i_14",
          "https://www.imdb.com/title/tt0071075/?ref_=chttvtp_i_15",
          "https://www.imdb.com/title/tt1355642/?ref_=chttvtp_i_16",
          "https://www.imdb.com/title/tt2861424/?ref_=chttvtp_i_17",
          "https://www.imdb.com/title/tt1533395/?ref_=chttvtp_i_18",
          "https://www.imdb.com/title/tt8420184/?ref_=chttvtp_i_19",
          "https://www.imdb.com/title/tt0052520/?ref_=chttvtp_i_20",
          "https://www.imdb.com/title/tt1877514/?ref_=chttvtp_i_21",
          "https://www.imdb.com/title/tt1475582/?ref_=chttvtp_i_22",
          "https://www.imdb.com/title/tt2560140/?ref_=chttvtp_i_23",
          "https://www.imdb.com/title/tt0103359/?ref_=chttvtp_i_24",
          "https://www.imdb.com/title/tt0386676/?ref_=chttvtp_i_25")

userReviews <- vector("numeric", length(urls))
critiqueReviews <- vector("numeric", length(urls))
```

```r
popularity <- vector("numeric", length(urls))

for (i in seq_along(urls)) {

  session <- bow(urls[i], user_agent = "Educational")

  webpage <- scrape(session)

  popularityText <- webpage %>% html_nodes(".sc-39d285cf-1.dxqvqi") %>% html_text()
  popularity[i] <- as.numeric(gsub(",", "", popularityText[1]))

  reviews <- webpage %>% html_nodes(".score") %>% html_text()


  if (length(reviews) >= 2) {

    userReviews[i] <- ifelse(grepl("K", reviews[1]),
                             as.numeric(gsub("K", "", reviews[1])) * 1000,
                             as.numeric(reviews[1]))
    critiqueReviews[i] <- as.numeric(reviews[2])
  } else {
    userReviews[i] <- NA
    critiqueReviews[i] <- NA
  }
}
```

```r
userReviews
```

```
##  [1] 5000  158  111 1000 3500  786  997   53  960  205   80  245 5800  366  126
## [16]  465  908   12  541  213  175 1000 2300  219 1700
```

```r
critiqueReviews
```

```
##  [1] 175    6   10   34   88   77   57    9   93   12    8   15  368    4    5   16   94    9   28
## [20]  85   13  121   64   25   76
```

```r
popularity
```

```
##  [1]   18 1144 2090  172  176  106  384 4625   37 1483 3922 2955   12  391 2383
## [16]  504  146 3388 1472  315 1878  178   61  498   56
```

```r
max_length <- max(length(rank), length(title), length(year), length(ratings), length(episodes), length(

rank <- c(rank, rep(NA, max_length - length(rank)))

title <- c(title, rep(NA, max_length - length(title)))

years <- c(years, rep(NA, max_length - length(years)))

ratings <- c(ratings, rep(NA, max_length - length(ratings)))

episodes <- c(episodes, rep(NA, max_length - length(episodes)))

votes <- c(votes, rep(NA, max_length - length(votes)))

userReviews <- c(userReviews, rep(NA, max_length - length(userReviews)))
```

```r
critiqueReviews <- c(critiqueReviews, rep(NA, max_length - length(critiqueReviews)))

popularity <- c(popularity, rep(NA, max_length - length(popularity)))
max_length
```

```
## [1] 75
```

```r
movies = data.frame(rank, title, years, ratings, episodes, votes, userReviews, critiqueReviews, popular
```

```r
print(head(movies, 20))
```

```
##    rank                              title     years ratings episodes  votes
## 1    1.                        IMDb Charts 2008-2013     9.5   62 eps (2.2M)
## 2    2.                      Top 250 TV Shows      2016     9.5    6 eps (162K)
## 3    3.                        Breaking Bad      2006     9.4   11 eps (223K)
## 4    4.                      Planet Earth II      2001     9.4   10 eps (544K)
## 5    5.                        Planet Earth      2019     9.3    5 eps (905K)
## 6    6.                    Band of Brothers 2002-2008     9.3   60 eps (390K)
## 7    7.                           Chernobyl 2005-2008     9.3   62 eps (388K)
## 8    8.                            The Wire      2017     9.3    7 eps  (48K)
## 9    9.          Avatar: The Last Airbender 1999-2007     9.2   86 eps (497K)
## 10  10.                      Blue Planet II      2014     9.2   13 eps (131K)
## 11  11.                        The Sopranos      1980     9.3   13 eps  (45K)
## 12  12.          Cosmos: A Spacetime Odyssey 2019-2023     9.2   12 eps  (53K)
## 13  13.                              Cosmos 2011-2019     9.2   74 eps (2.4M)
## 14  14.                          Our Planet      2018     9.3  194 eps  (33K)
## 15  15.                      Game of Thrones 1973-1974     9.2   26 eps  (31K)
## 16  16.                               Bluey 2009-2010     9.1   68 eps (208K)
## 17  17.                    The World at War      2013     9.1   78 eps (626K)
## 18  18.      Fullmetal Alchemist: Brotherhood      2009     9.1   11 eps  (43K)
## 19  19.                       Rick and Morty      2020     9.1   10 eps (159K)
## 20  20.                                Life 1959-1964     9.0  156 eps  (96K)
##    userReviews critiqueReviews popularity
## 1         5000             175         18
## 2          158               6       1144
## 3          111              10       2090
## 4         1000              34        172
## 5         3500              88        176
## 6          786              77        106
## 7          997              57        384
## 8           53               9       4625
## 9          960              93         37
## 10         205              12       1483
## 11          80               8       3922
## 12         245              15       2955
## 13        5800             368         12
## 14         366               4        391
## 15         126               5       2383
## 16         465              16        504
## 17         908              94        146
## 18          12               9       3388
## 19         541              28       1472
## 20         213              85        315
```

```r
movies %>%
  kable("latex", booktabs = TRUE) %>%
  kable_styling(latex_options = "scale_down")
```

```r
reviewLinks <- c("https://www.imdb.com/title/tt7366338/reviews/?ref_=tt_ov_urv",
        "https://www.imdb.com/title/tt0306414/reviews/?ref_=tt_ov_urv",
        "https://www.imdb.com/title/tt0417299/reviews/?ref_=tt_ov_urv",
        "https://www.imdb.com/title/tt6769208/reviews/?ref_=tt_ov_urv",
        "https://www.imdb.com/title/tt0141842/reviews/?ref_=tt_ov_urv")

Name <- vector("list", length(reviewLinks))

DateOfTheReview <- vector("list", length(reviewLinks))

userRating <- vector("list", length(reviewLinks))

titleOfTheReview <- vector("list", length(reviewLinks))

helpful <- vector("list", length(reviewLinks))

notHelpful <- vector("list", length(reviewLinks))

textReview <- vector("list", length(reviewLinks))

reviewDf <- vector("list", length(reviewLinks))
```

```r
for (i in seq_along(reviewLinks)) {
  session <- bow(reviewLinks[i], user_agent = "Educational")

  webpage <- scrape(session)

  names <- webpage %>% html_nodes(".ipc-link.ipc-link--base") %>% html_text(trim = TRUE) %>% head(40)
  Name[[i]] <- names[!grepl("Permalink", names, ignore.case = TRUE)]

  DateOfTheReview[[i]] <- webpage %>% html_nodes(".ipc-inline-list__item.review-date") %>% html_text(tr

  userRating[[i]] <- webpage %>% html_nodes(".ipc-rating-star--rating") %>% html_text(trim = TRUE) %>%

  titleOf <- webpage %>% html_nodes(".ipc-title__text") %>% html_text(trim = TRUE) %>% head(21)

  titleOfTheReview[[i]] <- titleOf[!grepl("User reviews|More from this title|More to explore|Recently v

  textReview[[i]] <- webpage %>% html_nodes(".ipc-html-content-inner-div") %>% html_text(trim = TRUE) %
}
```

```r
chernobyl <- data.frame(Name[[1]],
    Date = DateOfTheReview[[1]],
    Rating = userRating[[1]],
    Title = titleOfTheReview[[1]],
    stringsAsFactors = FALSE
  )

print(head(chernobyl, 20))
```

rank	title	years	ratings	episodes	votes	userReviews	critiqueReviews	popularity
1.	IMDb Charts	2008–2013	9.5	62 eps	(2.2M)	5000	175	18
2.	Top 250 TV Shows	2016	9.5	6 eps	(162K)	158	6	1144
3.	Breaking Bad	2006	9.4	11 eps	(223K)	111	10	2090
4.	Planet Earth II	2001	9.4	10 eps	(544K)	1000	34	172
5.	Planet Earth	2019	9.3	5 eps	(905K)	3500	88	176
6.	Band of Brothers	2002–2008	9.3	60 eps	(390K)	786	77	106
7.	Chernobyl	2005–2008	9.3	62 eps	(388K)	997	57	384
8.	The Wire	2017	9.3	7 eps	(48K)	53	9	4625
9.	Avatar: The Last Airbender	1999–2007	9.2	86 eps	(497K)	960	93	37
10.	Blue Planet II	2014	9.2	13 eps	(131K)	205	12	1483
11.	The Sopranos	1980	9.3	13 eps	(45K)	80	8	3922
12.	Cosmos: A Spacetime Odyssey	2019–2023	9.2	12 eps	(53K)	245	15	2955
13.	Cosmos	2011–2019	9.2	74 eps	(2.4M)	5800	368	12
14.	Our Planet	2018	9.3	194 eps	(33K)	366	4	391
15.	Game of Thrones	1973–1974	9.2	26 eps	(31K)	126	5	2383
16.	Bluey	2009–2010	9.1	68 eps	(208K)	465	16	504
17.	The World at War	2013	9.1	78 eps	(626K)	908	94	146
18.	Fullmetal Alchemist: Brotherhood	2009	9.1	11 eps	(43K)	12	9	3388
19.	Rick and Morty	2020	9.1	10 eps	(159K)	541	28	1472
20.	Life	1959–1964	9.0	156 eps	(96K)	213	85	315
21.	The Last Dance	2017	9.1	10 eps	(29K)	175	13	1878
22.	The Twilight Zone	2010–2017	9.1	15 eps	(1M)	1000	121	178
23.	The Vietnam War	2013–2023	9.1	98 eps	(559K)	2300	64	61
24.	Sherlock	1992–1995	9.0	85 eps	(122K)	219	25	498
25.	Attack on Titan	2005–2013	9.0	188 eps	(744K)	1700	76	56
NA	Batman: The Animated Series	NA	NA	NA	NA	NA	NA	NA
NA	The Office	NA	NA	NA	NA	NA	NA	NA
NA	Recently viewed	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA

```
##             Name..1..          Date Rating
## 1     curiosityonmars May 23, 2019     10
## 2            stelmakh May 10, 2019     10
## 3         natashapekar  May 9, 2019     10
## 4           m-porpaczi May 14, 2019     10
## 5             Lladerat  May 7, 2019     10
## 6             jfirebug May 20, 2019     10
## 7              thegldt  May 6, 2019     10
## 8   alexander-phoenix May 13, 2019     10
## 9          wmeduardowm  May 6, 2019     10
## 10     Leofwine_draca Nov 27, 2019     10
## 11       Jamie_Seaton May 23, 2019      7
## 12           m-abtahi Jan 27, 2024      5
## 13      imdb-88-13600  Nov 2, 2021      8
## 14             frimark May 20, 2019     10
## 15     krzysztof-18241 May 30, 2019     10
## 16          ahmetkozan  Jun 7, 2019     10
## 17       stephenpdodds  May 6, 2019      9
## 18             Rob1331 Sep 27, 2022      9
## 19           emholberg May 26, 2019      9
## 20     Supermanfan-13 Jul 10, 2022     10
##                                                       Title
## 1                                           They got it right
## 2                                         Goosebumps and tears
## 3                                    I highly recommend this film!
## 4                                  No hero wakes up wanting to die
## 5                                         So far looks excellent
## 6                                               Incredible
## 7                       Bleak, Unsettling, Haunting All Throughout
## 8                                               Unbelievable
## 9                                           HBO did it again!
## 10                                              Exemplary
## 11                                               Amazing!
## 12                    Unveiling Human Errors and Political Shadows
## 13                                             Unfortunate
## 14                                       Emotionally drained...
## 15                                         Just watch it (!)
## 16                  Now you look like the minister of coal!
## 17                                               Cracking.
## 18                                              Must Watch!
## 19 It is hard to overestimate the importance of this show.
## 20                                               Brilliant!
```

```r
chernobyl %>%
  kable("latex", booktabs = TRUE) %>%
  kable_styling(latex_options = "scale_down")
```

```r
theWire <- data.frame(Name[[2]],
    Date = DateOfTheReview[[2]],
    Rating = userRating[[2]],
    Title = titleOfTheReview[[2]],
    stringsAsFactors = FALSE
  )

print(head(theWire, 20))
```

Name..1..	Date	Rating	Title
curiosityonmars	May 23, 2019	10	They got it right
stelmakh	May 10, 2019	10	Goosebumps and tears
natashapekar	May 9, 2019	10	I highly recommend this film!
m-porpaczi	May 14, 2019	10	No hero wakes up wanting to die
Lladerat	May 7, 2019	10	So far looks excellent
jfirebug	May 20, 2019	10	Incredible
thegldt	May 6, 2019	10	Bleak, Unsettling, Haunting All Throughout
alexander-phoenix	May 13, 2019	10	Unbelievable
wmeduardowm	May 6, 2019	10	HBO did it again!
Leofwine_draca	Nov 27, 2019	10	Exemplary
Jamie_Seaton	May 23, 2019	7	Amazing!
m-abtahi	Jan 27, 2024	5	Unveiling Human Errors and Political Shadows
imdb-88-13600	Nov 2, 2021	8	Unfortunate
frimark	May 20, 2019	10	Emotionally drained...
krzysztof-18241	May 30, 2019	10	Just watch it (!)
ahmetkozan	Jun 7, 2019	10	Now you look like the minister of coal!
stephenpdodds	May 6, 2019	9	Cracking.
Rob1331	Sep 27, 2022	9	Must Watch!
emholberg	May 26, 2019	9	It is hard to overestimate the importance of this show.
Supermanfan-13	Jul 10, 2022	10	Brilliant!

```
##                Name..2..         Date Rating
## 1     OmarHartwellWhite May 12, 2014     10
## 2               Rob1331 Sep 29, 2022     10
## 3           gogoschka-1 Jan 11, 2014     10
## 4         Supermanfan-13 Sep 20, 2022     10
## 5           rwdelos5517 Apr 24, 2020     10
## 6               jaoneal Sep 19, 2006     10
## 7             atrevino90 Oct 20, 2022      9
## 8            ozgunozaksoy Sep 27, 2020     10
## 9       TheLittleSongbird Jul 21, 2011     10
## 10               ezraaaa  May 7, 2021     10
## 11         the_batman0902 Sep 16, 2021     10
## 12             chrisneill Jan 14, 2005      7
## 13                 Zubacz Aug 25, 2013      5
## 14               jcslawyer  Feb 8, 2020     10
## 15          shandronobrien Sep 28, 2016     10
## 16                    =G= Oct 24, 2004     10
## 17             echoman-net Sep 16, 2021     10
## 18     inthepalemoonlight Oct 17, 2004     10
## 19               jeffronthi Jul 22, 2014     10
## 20             xmadame_mex Jun 20, 2009     10
##                                                                            Tit
## 1                    If You Haven't Seen this show, but are considering it, please read my revie
## 2                                                                         Incredibl
## 3   This isn't just a show about crime - this tries to show every aspect of life in a crumbling socie
## 4                                                         As good as everyone says it i
## 5                                             The Wire is why awards are irrelevan
## 6                                                                         Fantasti
```

Name..2..	Date	Rating	Title
OmarHartwellWhite	May 12, 2014	10	If You Haven't Seen this show, but are considering it, please read my review.
Rob1331	Sep 29, 2022	10	Incredible!
gogoschka-1	Jan 11, 2014	10	This isn't just a show about crime - this tries to show every aspect of life in a crumbling society
Supermanfan-13	Sep 20, 2022	10	As good as everyone says it is!
rwdelos5517	Apr 24, 2020	10	The Wire is why awards are irrelevant.
jaoneal	Sep 19, 2006	10	Fantastic
atrevino90	Oct 20, 2022	9	I used to not understand what whas so great about it
ozgunozaksoy	Sep 27, 2020	10	It's not a show, feels like real life
TheLittleSongbird	Jul 21, 2011	10	Hard to put into words how phenomenal The Wire is
ezraaaa	May 7, 2021	10	Best TV Series Ever Made?
the_batman0902	Sep 16, 2021	10	Doesn't get better than this
chrisneill	Jan 14, 2005	7	The best thing on TV today
Zubacz	Aug 25, 2013	5	...while you're waiting for moments that never come.
jcslawyer	Feb 8, 2020	10	I'm definitely in the minority
shandronobrien	Sep 28, 2016	10	An American Masterpiece: The Single Greatest Narrative of Our Generation
=G=	Oct 24, 2004	10	Ahead of its time
echoman-net	Sep 16, 2021	10	20 years ahead of its time.
inthepalemoonlight	Oct 17, 2004	10	Best show on TV
jeffronthi	Jul 22, 2014	10	As Close as it Gets
xmadame_mex	Jun 20, 2009	10	The hyperbole is entirely justified

```
## 7                                              I used to not understand what whas so great about i
## 8                                                        It's not a show, feels like real li
## 9                                         Hard to put into words how phenomenal The Wire i
## 10                                                               Best TV Series Ever Mad
## 11                                                          Doesn't get better than thi
## 12                                                              The best thing on TV tod
## 13                                      ...while you're waiting for moments that never com
## 14                                                               I'm definitely in the minori
## 15                     An American Masterpiece: The Single Greatest Narrative of Our Generatio
## 16                                                                        Ahead of its tim
## 17                                                          20 years ahead of its tim
## 18                                                                        Best show on
## 19                                                                    As Close as it Ge
## 20                                               The hyperbole is entirely justifie
```

```r
theWire %>%
  kable("latex", booktabs = TRUE) %>%
  kable_styling(latex_options = "scale_down")
```

```r
avatarTheLastAirbender <- data.frame(Name[[3]],
    Date = DateOfTheReview[[3]],
    Rating = userRating[[3]],
    Title = titleOfTheReview[[3]],
    stringsAsFactors = FALSE
  )
```

```r
print(head(avatarTheLastAirbender, 20))
```

```
##                 Name..3..         Date Rating
## 1       SuttonButtercup May 20, 2020       10
## 2              cuzzinman Sep 20, 2018       10
## 3              mjplysaght  Feb 1, 2017       10
## 4       Bluereviews4you Jul 28, 2020       10
## 5            ericjcant-1 Oct 29, 2005       10
## 6        theblackscythe Aug 14, 2014       10
## 7         Trixie_reviews  Oct 2, 2018       10
```

Name..3..	Date	Rating	Title
SuttonButtercup	May 20, 2020	10	14 Years Later, 25 Years Old, Sitting Here In Quarantine, Drinking Wine and Crying
cuzzinman	Sep 20, 2018	10	Great show with fantastic messages, lessons, philosophical discussions, character development, plots, and comedy
mjplysaght	Feb 1, 2017	10	The best show Nickelodeon has aired
Bluereviews4you	Jul 28, 2020	10	Saw for the first time age 25: one of my fav shows now
ericjcant-1	Oct 29, 2005	10	The best in animated storytelling...
theblackscythe	Aug 14, 2014	10	A Statement On Perfection. True Unequaled Bliss.
Trixie_reviews	Oct 2, 2018	10	Breathtaking
Quinoa1984	Aug 15, 2009	10	not just a great animated show or 'kids' show, it's a major show of this decade
joshkej-84077	Feb 9, 2018	10	It's 2018 and I still watch this show
A_Different_Drummer	Sep 17, 2016	10	I just rewatched the best TV series in the history of the world
KineticSeoul	Oct 10, 2010	10	One of the best animated shows I seen
xrachelsomeonex	Dec 1, 2005	7	Well done
gbulmash	Oct 20, 2010	5	Good for the family
ninjawaiter	Dec 19, 2020	10	Baffling
salinaqvi	May 12, 2020	10	That's Rough Buddy
HeirToPendragon	Jan 6, 2006	10	Very Great story
srikantkanchi	Sep 13, 2014	10	I could never forget.
BadgerStorm4345	May 22, 2020	10	The Greatest American Animation of All Time
poseyfan	Jun 10, 2022	10	The greatest TV show of all time. Yep, i said it.
olliescool	Aug 14, 2018	10	The one show/piece of art that hasn't and never will be topped by anything.

```
## 8            Quinoa1984 Aug 15, 2009      10
## 9         joshkej-84077  Feb 9, 2018      10
## 10 A_Different_Drummer Sep 17, 2016      10
## 11          KineticSeoul Oct 10, 2010      10
## 12       xrachelsomeonex  Dec 1, 2005       7
## 13              gbulmash Oct 20, 2010       5
## 14           ninjawaiter Dec 19, 2020      10
## 15             salinaqvi May 12, 2020      10
## 16       HeirToPendragon  Jan 6, 2006      10
## 17         srikantkanchi Sep 13, 2014      10
## 18       BadgerStorm4345 May 22, 2020      10
## 19              poseyfan Jun 10, 2022      10
## 20            olliescool Aug 14, 2018      10
##
## 1                                   14 Years Later, 25 Years Old, Sitting Here In Quarantine, Drinking W
## 2  Great show with fantastic messages, lessons, philosophical discussions, character development, pl
## 3                                                                                 The best show Nickelo
## 4                                                             Saw for the first time age 25: one of my
## 5                                                                               The best in animated s
## 6                                                             A Statement On Perfection. True Un
## 7
## 8                             not just a great animated show or 'kids' show, it's a major show
## 9                                                                           It's 2018 and I still w
## 10                               I just rewatched the best TV series in the histor
## 11                                                             One of the best animate
## 12
## 13                                                                                   Good
## 14
## 15                                                                                Tha
## 16                                                                                   Ve
## 17                                                                             I could
## 18                               The Greatest American Animati
## 19                             The greatest TV show of all time. V
## 20                   The one show/piece of art that hasn't and never will be toppe
```

```
avatarTheLastAirbender %>%
  kable("latex", booktabs = TRUE) %>%
  kable_styling(latex_options = "scale_down")
```

```r
bluePlanet2 <- data.frame(Name[[4]],
    Date = DateOfTheReview[[4]],
    Rating = userRating[[4]],
    Title = titleOfTheReview[[4]],
    stringsAsFactors = FALSE
  )

print(head(bluePlanet2, 20))
```

```
##                     Name..4..        Date Rating
## 1             thespookybuz Oct 28, 2017     10
## 2             alexmarchant  Nov 2, 2017     10
## 3                   bushd0 Oct 29, 2017     10
## 4                  gb-sity Oct 30, 2017     10
## 5                 davidjum Oct 31, 2017     10
## 6                   Bert45 Nov 11, 2017     10
## 7           peterjdickinson Nov 12, 2017     10
## 8           gregoryblanch88 Nov 15, 2017     10
## 9                   gerzac  Nov 7, 2017     10
## 10           adam-whitmore  Jan 1, 2018     10
## 11               dtalbot-1 Nov 30, 2017     10
## 12                  lexjoh Dec 28, 2017      6
## 13                 cayennep Jan 23, 2021      1
## 14 strangerthingswillthewise  Mar 6, 2022      9
## 15            farshidkarimi  Nov 1, 2017     10
## 16               tim-07347 Aug 19, 2018     10
## 17        TheLittleSongbird  Dec 5, 2017     10
## 18                 r-38373  Nov 8, 2017     10
## 19                 cumnersr Jul 27, 2018     10
## 20                Gremlyn70 Oct 11, 2018     10
##                                                       Title
## 1                                        Blue is the new Blue
## 2                                                Unbelievable
## 3                                              Absolutely epic
## 4     A great reminding that we all live because of the oceans.
## 5                                          There is still hope
## 6                                        Sensational television
## 7                                            Unbelievably good
## 8                                 Eye wide, mouth open, in awe
## 9                                                 The Greatest
## 10                                   Expands one's view of life
## 11                            The BBC and Sir David at their best
## 12                             What a wake up call to the humans
## 13                             Great but terrible audio ruins it
## 14                                      Could have Been Good
## 15                                 An Enthralling Masterpiece
## 16                                      Absolutely Stunning
## 17                                   The Beautiful Deep Blue
## 18                                              shock of soul
## 19                       Outstanding series; essential viewing
## 20                          Can't be less than a 10 can it?
```

```r
bluePlanet2 %>%
  kable("latex", booktabs = TRUE) %>%
```

Name..4..	Date	Rating	Title
thespookybuz	Oct 28, 2017	10	Blue is the new Blue
alexmarchant	Nov 2, 2017	10	Unbelievable
bushd0	Oct 29, 2017	10	Absolutely epic
gb-sity	Oct 30, 2017	10	A great reminding that we all live because of the oceans.
davidjum	Oct 31, 2017	10	There is still hope
Bert45	Nov 11, 2017	10	Sensational television
peterjdickinson	Nov 12, 2017	10	Unbelievably good
gregoryblanch88	Nov 15, 2017	10	Eye wide, mouth open, in awe
gerzac	Nov 7, 2017	10	The Greatest
adam-whitmore	Jan 1, 2018	10	Expands one's view of life
dtalbot-1	Nov 30, 2017	10	The BBC and Sir David at their best
lexjoh	Dec 28, 2017	6	What a wake up call to the humans
cayennep	Jan 23, 2021	1	Great but terrible audio ruins it
strangerthingswillthewise	Mar 6, 2022	9	Could have Been Good
farshidkarimi	Nov 1, 2017	10	An Enthralling Masterpiece
tim-07347	Aug 19, 2018	10	Absolutely Stunning
TheLittleSongbird	Dec 5, 2017	10	The Beautiful Deep Blue
r-38373	Nov 8, 2017	10	shock of soul
cumnersr	Jul 27, 2018	10	Outstanding series; essential viewing
Gremlyn70	Oct 11, 2018	10	Can't be less than a 10 can it?

```r
kable_styling(latex_options = "scale_down")
```

```r
theSopranos <- data.frame(Name[[5]],
    Date = DateOfTheReview[[5]],
    Rating = userRating[[5]],
    Title = titleOfTheReview[[5]],
    stringsAsFactors = FALSE
)
```

```r
print(head(theSopranos, 20))
```

```
##                      Name..5..        Date Rating
## 1             Johnny-Sack Mar 10, 2006     10
## 2                 Rob1331 Jun 28, 2023     10
## 3           Supermanfan-13 Sep 13, 2021     10
## 4    Inglourious_Basterd21 Aug 25, 2006     10
## 5               prodigy3010  May 4, 2018     10
## 6            lee_eisenberg Sep 19, 2017     10
## 7            mrsambo-63680 Jul 13, 2020     10
## 8                   pronins Jul 22, 2020     10
## 9              BlackJack_B  Mar 8, 2001     10
## 10                galileo3 Mar 17, 2008     10
## 11                 feddomw Mar 28, 2019     10
## 12               gabo_alepb May 17, 2020      6
## 13 peteskeetskeetskeet-93216 Dec 21, 2018      5
## 14             carzellako04  Dec 4, 2016     10
## 15               helgethuv Apr 23, 2006      9
## 16                 srk08914 Jul 23, 2020      9
## 17             libbyhutchin Jan 22, 2023     10
## 18               swordsnare  Jul 2, 2021     10
```

Name..5..	Date	Rating	Title
Johnny-Sack	Mar 10, 2006	10	A Reminder That Not All Modern TV is Poor
Rob1331	Jun 28, 2023	10	Damn Near Perfect
Supermanfan-13	Sep 13, 2021	10	One of the best shows ever created
Inglourious_Basterd21	Aug 25, 2006	10	Television. Redefined.
prodigy3010	May 4, 2018	10	A Masterpiece.
lee_eisenberg	Sep 19, 2017	10	Frank Vincent, RIP
mrsambo-63680	Jul 13, 2020	10	To call this a show it's unfair... It's the pertect 86 hour movie!
pronins	Jul 22, 2020	10	A true classic
BlackJack_B	Mar 8, 2001	10	BRILLIANT!!!
galileo3	Mar 17, 2008	10	Quite simply, the greatest television show of all time
feddomw	Mar 28, 2019	10	Can't overstate the greatness here.
gabo_alepb	May 17, 2020	6	Third time watch since the series ended. May 2020.
peteskeetskeetskeet-93216	Dec 21, 2018	5	Don't get the hype
carzellako04	Dec 4, 2016	10	Incredibly Overrated - OK But Not One of The Greats
helgethuv	Apr 23, 2006	9	Best mob/gangster show ever
srk08914	Jul 23, 2020	9	Stunning, outstanding, terrific
libbyhutchin	Jan 22, 2023	10	Watching this for the first time in 2023
swordsnare	Jul 2, 2021	10	How Could You Not?
kosmasp	Mar 3, 2012	10	Consistent in being great
TheLittleSongbird	Feb 1, 2023	10	Like watching an epic grand opera

```
## 19                    kosmasp  Mar 3, 2012       10
## 20          TheLittleSongbird  Feb 1, 2023       10
##                                                                     Title
## 1                            A Reminder That Not All Modern TV is Poor
## 2                                                     Damn Near Perfect
## 3                                    One of the best shows ever created
## 4                                                 Television. Redefined.
## 5                                                         A Masterpiece.
## 6                                                     Frank Vincent, RIP
## 7   To call this a show it's unfair... It's the pertect 86 hour movie!
## 8                                                         A true classic
## 9                                                           BRILLIANT!!!
## 10          Quite simply, the greatest television show of all time
## 11                              Can't overstate the greatness here.
## 12            Third time watch since the series ended. May 2020.
## 13                                                    Don't get the hype
## 14          Incredibly Overrated - OK But Not One of The Greats
## 15                                        Best mob/gangster show ever
## 16                                    Stunning, outstanding, terrific
## 17                          Watching this for the first time in 2023
## 18                                               How Could You Not?
## 19                                        Consistent in being great
## 20                              Like watching an epic grand opera
```

```
theSopranos %>%
  kable("latex", booktabs = TRUE) %>%
  kable_styling(latex_options = "scale_down")
```

```
library(ggplot2)
```

```
movies$year <- as.numeric(movies$years)
```

```
## Warning: NAs introduced by coercion
```

```
yearCount <- movies %>%
  filter(!is.na(years)) %>%
  count(years)

ggplot(yearCount, aes(x = years, y = n)) +
  geom_line(color = "brown") +
  geom_point(color = "black") +
  labs(title = "Number of TV Shows Released by Year",
       x = "Year",
       y = "Number of TV Shows") +
  theme_minimal() + theme( axis.text.x = element_text(angle = 45, hjust = 1) )
```
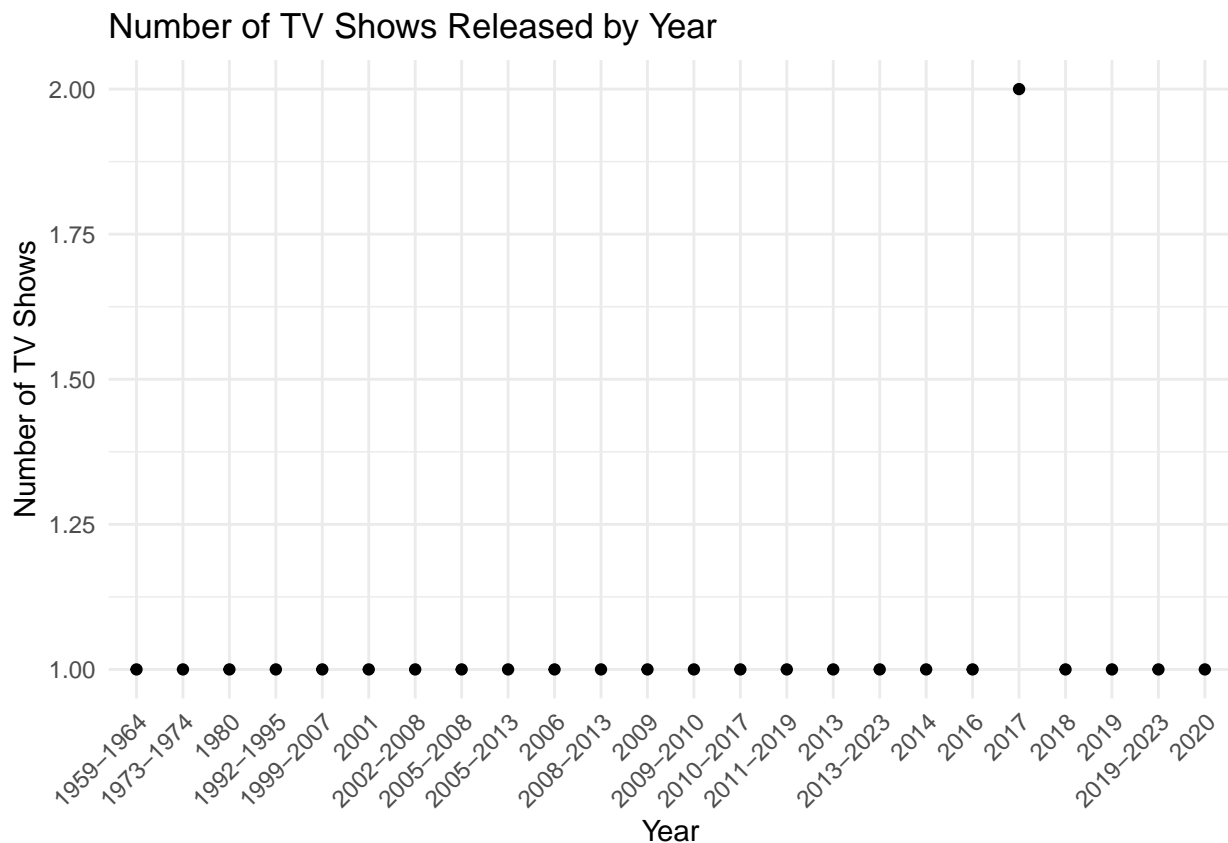
```
## `geom_line()`: Each group consists of only one observation.
## i Do you need to adjust the group aesthetic?
```


Number of TV Shows Released by Year

```
most_releases <- yearCount[which.max(yearCount$n), ]
print(most_releases)
```

```
##    years n
## 20  2017 2
```