RWorksheet#5_group.Rmd

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```
library(rvest)
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(stringr)
library(polite)
library(kableExtra)
##
## Attaching package: 'kableExtra'
## The following object is masked from 'package:dplyr':
##
##
       group_rows
library(knitr)
library(tidyverse)
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v forcats 1.0.0
                        v readr
                                    2.1.5
## v ggplot2 3.5.1
                        v tibble
                                    3.2.1
## v lubridate 1.9.3
                        v tidyr
                                    1.3.1
## v purrr
              1.0.2
## -- Conflicts -----
                                            ## x dplyr::filter()
                             masks stats::filter()
## x kableExtra::group_rows() masks dplyr::group_rows()
## x readr::guess_encoding() masks rvest::guess_encoding()
## x dplyr::lag()
                             masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
library(ggplot2)
link = "https://www.imdb.com/chart/toptv/"
page = read_html(link)
session <- bow(link, user_agent = "Educational")</pre>
       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
nam <- page %>% html_nodes(".ipc-title__text") %>% html_text()
name <- nam[!grepl("Top 250 TV Shows|IMDb Charts|Recently viewed|More to explore", nam, ignore.case = T.
   [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"
rank <- str_extract(name, "^\\d+\\.")</pre>
## [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."
title <- str_replace(name, "^\\d+\\.", "")
title
## [1] " Breaking Bad"
                                            " Planet Earth II"
## [3] " Planet Earth"
                                            " Band of Brothers"
## [5] " Chernobyl"
                                            " The Wire"
## [7] " Avatar: The Last Airbender"
                                            " Blue Planet II"
## [9] " The Sopranos"
                                            " Cosmos: A Spacetime Odyssey"
## [11] " Cosmos"
                                            " Our Planet"
## [13] " Game of Thrones"
                                            " Bluey"
## [15] " The World at War"
                                            " Fullmetal Alchemist: Brotherhood"
## [17] " Rick and Morty"
                                            " Life"
## [19] " The Last Dance"
                                            " The Twilight Zone"
## [21] " The Vietnam War"
                                            " Sherlock"
```

```
## [23] " Attack on Titan"
                                            " Batman: The Animated Series"
## [25] " The Office"
yea = page %>% html_nodes(".sc-5bc66c50-6.00dsw.cli-title-metadata-item") %>% html_text()
year \leftarrow str_extract_all(yea, "\\b\\d{4}\(?:-\\d{4}\)?\\b") %>% unlist()
year
##
   [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"
                                            "2010-2017" "2013-2023" "1992-1995"
                    "1959-1964" "2017"
## [25] "2005-2013"
rating = page %>% html_nodes(".ipc-rating-star--rating") %>% html_text()
rating
## [1] "9.5" "9.5" "9.4" "9.4" "9.3" "9.3" "9.3" "9.3" "9.2" "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"
episode <- page %>% html_nodes(".sc-5bc66c50-6.00dsw.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"
vote = page %>% html_nodes(".ipc-rating-star--voteCount") %>% html_text()
vote
  [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)"
                 " (558K)" " (122K)" " (744K)"
urls <- c("https://www.imdb.com/title/tt0903747/?ref_=chttvtp_i_1",</pre>
          "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")
user reviews <- vector("numeric", length(urls))</pre>
critic_reviews <- vector("numeric", length(urls))</pre>
popularity <- vector("numeric", length(urls))</pre>
for (i in seq along(urls)) {
  session <- bow(urls[i], user_agent = "Educational")</pre>
  webpage <- scrape(session)</pre>
  popularity_text <- webpage %>% html_nodes(".sc-39d285cf-1.dxqvqi") %>% html_text()
  popularity[i] <- as.numeric(gsub(",", "", popularity_text[1]))</pre>
  reviewz <- webpage %>% html_nodes(".score") %>% html_text()
  if (length(reviewz) >= 2) {
    user_reviews[i] <- ifelse(grepl("K", reviewz[1]),</pre>
                              as.numeric(gsub("K", "", reviewz[1])) * 1000,
                              as.numeric(reviewz[1]))
   critic reviews[i] <- as.numeric(reviewz[2])</pre>
  } else {
   user reviews[i] <- NA
    critic_reviews[i] <- NA</pre>
  }
}
user reviews
                                                                 245 5800 366 126
## [1] 5000 158 111 1000 3500 786 997
                                              53 960 205
                                                             80
## [16] 463 908
                    12 541
                             213 175 1000 2300
                                                  218 1700
critic_reviews
## [1] 175
              6 10 34
                         88
                             77 57
                                       9 93 12
                                                   8 15 368
                                                                    5 16 94
## [20] 85 13 121 64
                         25
                             76
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
max_length <- max(length(rank), length(title), length(year), length(rating), length(episodes), length(v
rank <- c(rank, rep(NA, max_length - length(rank)))</pre>
title <- c(title, rep(NA, max_length - length(title)))
year <- c(year, rep(NA, max_length - length(year)))</pre>
rating <- c(rating, rep(NA, max_length - length(rating)))
episodes <- c(episodes, rep(NA, max_length - length(episodes)))
```

```
vote <- c(vote, rep(NA, max_length - length(vote)))</pre>
user_reviews <- c(user_reviews, rep(NA, max_length - length(user_reviews)))
critic_reviews <- c(critic_reviews, rep(NA, max_length - length(critic_reviews)))</pre>
popularity <- c(popularity, rep(NA, max_length - length(popularity)))</pre>
max_length
## [1] 25
movies = data.frame(rank, title, year, rating, episodes, vote, user_reviews, critic_reviews, popularity
write.csv(movies, "movies.csv")
print(head(movies))
##
     rank
                       title
                                  year rating episodes
                                                            vote user_reviews
       1.
               Breaking Bad 2008-2013
                                                         (2.2M)
## 1
                                           9.5
                                                 62 eps
            Planet Earth II
## 2
       2.
                                  2016
                                           9.5
                                                  6 eps
                                                         (162K)
                                                                           158
## 3
       3.
               Planet Earth
                                   2006
                                           9.4
                                                 11 eps
                                                         (223K)
                                                                           111
       4. Band of Brothers
                                   2001
                                           9.4
                                                                          1000
## 4
                                                10 eps
                                                          (544K)
## 5
                  Chernobyl
                                  2019
                                           9.3
                                                  5 eps
                                                          (905K)
                                                                          3500
       5.
## 6
                    The Wire 2002-2008
                                           9.3
                                                 60 eps
                                                          (390K)
                                                                           786
##
     critic_reviews popularity
## 1
                 175
                             18
## 2
                  6
                           1144
                           2090
## 3
                  10
## 4
                  34
                            172
## 5
                  88
                            176
## 6
                  77
                            106
movies %>%
  kable("latex", booktabs = TRUE) %>%
  kable_styling(latex_options = "scale_down")
rl <- c("https://www.imdb.com/title/tt0903747/reviews/?ref_=tt_ov_ql_2",
        "https://www.imdb.com/title/tt5491994/reviews/?ref_=tt_ov_ql_2",
        "https://www.imdb.com/title/tt0795176/reviews/?ref_=tt_ov_ql_2",
        "https://www.imdb.com/title/tt0185906/reviews/?ref_=tt_ov_ql_2",
        "https://www.imdb.com/title/tt7366338/reviews/?ref_=tt_ov_ql_2")
NAME <- vector("list", length(rl))</pre>
date_of_review <- vector("list", length(rl))</pre>
user_ratings <- vector("list", length(rl))</pre>
title_of_review <- vector("list", length(rl))</pre>
is_helpful <- vector("list", length(rl))</pre>
is_not_helpful <- vector("list", length(rl))</pre>
text_review <- vector("list", length(rl))</pre>
review_data_frames <- vector("list", length(rl))</pre>
for (i in seq_along(rl)) {
  session <- bow(rl[i], user_agent = "Educational")</pre>
  webpage <- scrape(session)</pre>
  namez <- webpage %>% html_nodes(".ipc-link.ipc-link--base") %>% html_text(trim = TRUE) %>% head(40)
  NAME[[i]] <- namez[!grepl("Permalink", namez, ignore.case = TRUE)]</pre>
  date_of_review[[i]] <- webpage %>% html_nodes(".ipc-inline-list__item.review-date") %>% html_text(tri
```

rank	title	year	rating	episodes	vote	user_reviews	critic_reviews	popularity
1.	Breaking Bad	2008-2013	9.5	62 eps	(2.2M)	5000	175	18
2.	Planet Earth II	2016	9.5	6 eps	(162K)	158	6	1144
3.	Planet Earth	2006	9.4	11 eps	(223K)	111	10	2090
4.	Band of Brothers	2001	9.4	10 eps	(544K)	1000	34	172
5.	Chernobyl	2019	9.3	5 eps	(905K)	3500	88	176
6.	The Wire	2002 – 2008	9.3	60 eps	(390K)	786	77	106
7.	Avatar: The Last Airbender	2005 - 2008	9.3	62 eps	(388K)	997	57	384
8.	Blue Planet II	2017	9.3	7 eps	(48K)	53	9	4625
9.	The Sopranos	1999-2007	9.2	86 eps	(497K)	960	93	37
10.	Cosmos: A Spacetime Odyssey	2014	9.2	13 eps	(131K)	205	12	1483
11.	Cosmos	1980	9.3	13 eps	(45K)	80	8	3922
12.	Our Planet	2019 – 2023	9.2	12 eps	(53K)	245	15	2955
13.	Game of Thrones	2011 - 2019	9.2	74 eps	(2.4M)	5800	368	12
14.	Bluey	2018	9.3	194 eps	(33K)	366	4	391
15.	The World at War	1973 – 1974	9.2	26 eps	(31K)	126	5	2383
16.	Fullmetal Alchemist: Brotherhood	2009-2010	9.1	$68 \mathrm{\ eps}$	(208K)	463	16	504
17.	Rick and Morty	2013	9.1	78 eps	(626K)	908	94	146
18.	Life	2009	9.1	11 eps	(43K)	12	9	3388
19.	The Last Dance	2020	9.1	10 eps	(159K)	541	28	1472
20.	The Twilight Zone	1959 – 1964	9.0	156 eps	(96K)	213	85	315
21.	The Vietnam War	2017	9.1	10 eps	(29K)	175	13	1878
22.	Sherlock	2010 – 2017	9.1	15 eps	(1M)	1000	121	178
23.	Attack on Titan	2013 – 2023	9.1	98 eps	(558K)	2300	64	61
24.	Batman: The Animated Series	1992 – 1995	9.0	85 eps	(122K)	218	25	498
25.	The Office	2005 – 2013	9.0	$188~\rm eps$	(744K)	1700	76	56

```
user_ratings[[i]] <- webpage %>% html_nodes(".ipc-rating-star--rating") %>% html_text(trim = TRUE) %>
  title_of <- webpage %>% html_nodes(".ipc-title__text") %>% html_text(trim = TRUE) %>% head(21)
  title_of_review[[i]] <- title_of[!grepl("User reviews|More from this title|More to explore|Recently v
  text_review[[i]] <- webpage %>% html_nodes(".ipc-html-content-inner-div") %>% html_text(trim = TRUE)
BreakingBad <- data.frame(NAME[[1]],</pre>
   Date = date_of_review[[1]],
   Rating = user_ratings[[1]],
   Title = title_of_review[[1]],
    stringsAsFactors = FALSE
 )
write.csv(BreakingBad, "Breaking Bad reviews.csv")
print(head(BreakingBad))
##
             NAME..1..
                               Date Rating
                                                                         Title
## 1
               FiRE010 Jul 3, 2021
                                         10
                                                                  Really Great
## 2
            bruhperson Mar 6, 2019
                                         10
                                                               It's ok I guess
## 3
          KinoKoopaKid Jul 29, 2021
                                        10
                                                                    99.1% pure
## 4
           jehuschultz Feb 18, 2020
                                        10
                                                                      The Best
        Supermanfan-13 Nov 8, 2021
                                        10
                                                            Damn near perfect!
## 6 manishsingh-03299 May 30, 2019
                                        10 Those days ain't gonna come back..
BreakingBad %>%
  kable("latex", booktabs = TRUE) %>%
  kable_styling(latex_options = "scale_down")
```

```
NAME..1.
                          Date
                                          Rating
FiRE010
                          Jul 3, 2021
                                                   Really Great
bruhperson
KinoKoopaKid
                          Mar 6, 2019
                                         10
                                                   It's ok I guess
                          Jul 29, 2021
                                                   99.1% pure
                                         10
jehuschultz
                          Feb 18, 2020
                                         10
                                                   The Best
Supermanfan-13
                          Nov 8, 2021
                                         10
                                                   Damn near perfect!
                          May 30, 2019
Nov 15, 2019
manishsingh-03299
                                                   Those days ain't gonna come back.
                                         10
                                                   Best TV show ever made.
xpinerhd
                                         10
                          Dec 8, 2022
                                                   Absolutely Brilliant!!
dhanushreddy-14919
                                                   ABSOLUTE PERFECTION!!!!
                          Jul 17, 2021
                                         10
TheLittleSongbird
                          Nov 12, 2017
                                                   Among the best and most addictive shows there is
                                         10
JaxTL
                          Aug 5, 2022
                                                   A Masterpiece for sure.
Bauer08
                          Mar 20, 2021
                                                   Entertaining and illogical
cursedlovesherbestfriend
                          Feb 20, 2021
                                         10
                                                   Slow pace and obvious plot
tushv-31482
                          Dec 8, 2022
                                                   Once in a life time series
                                          10
gogoschka-1
                          Jan 11, 2014
                                                   If you mix Scarface, Robin Hood and maybe Tyler Durden with enough meth - you'll get a mean cocktail called 'Heisenberg'
                                         10
FishDrowned
                          Nov 8 2021
                                                   By far the greatest show I've ever watched
                                         10
                          Aug 11, 2021
joegalgano
                                         10
                                                   in a category all on its own
                          May 19, 2019
 agatt-87232
                                         10
                                                   Since GOT is over, this is Officially the Greatest show ever made
Leofwine_draca
                          May 4, 2021
                                         10
                                                   Every bit as good as you've heard
dristvsultana
                          Jun 23, 2021
                                                   Masterpiece
```

```
PlanetEarthII <- data.frame(NAME[[2]],</pre>
    Date = date_of_review[[2]],
    Rating = user_ratings[[2]],
    Title = title_of_review[[2]],
    stringsAsFactors = FALSE
  )
write.csv(PlanetEarthII, "PlanetEarthII reviews.csv")
print(head(PlanetEarthII))
##
         NAME..2..
                           Date Rating
## 1
      arjanhylkema Nov 7, 2016
## 2
          Wentloog Nov 5, 2016
                                    10
## 3 john-m-madsen Nov 5, 2016
                                    10
      thespookybuz Nov 9, 2016
## 4
                                    10
## 5
       pjdickinson Nov 5, 2016
                                    10
## 6
          dbijis33 Nov 8, 2016
                                    10
##
                                                              Title
## 1
                                                                 >10
                             At once awe-inspiring and terrifying!
## 3 Yet another masterpiece from BBC Nature & David Attenborough
## 4
                                                        Mesmerizing
## 5
                                                         Astounding
## 6
                                              Dangerously beautiful
PlanetEarthII %>%
  kable("latex", booktabs = TRUE) %>%
  kable_styling(latex_options = "scale_down")
PlanetEarth <- data.frame(NAME[[3]],</pre>
    Date = date_of_review[[3]],
    Rating = user_ratings[[3]],
    Title = title_of_review[[3]],
    stringsAsFactors = FALSE
write.csv(PlanetEarth, "PlanetEarth reviews.csv")
print(head(PlanetEarth))
##
           NAME..3..
                              Date Rating
## 1
        robert-kamer Feb 8, 2007
```

```
NAME..2..
                     Date
                                     Rating
                                              Title
arjanhylkema
                     Nov 7, 2016
Wentloog
                     Nov 5, 2016
                                     10
                                              At once awe-inspiring and terrifying!
john-m-madsen
                     Nov 5, 2016
                                     10
                                              Yet another masterpiece from BBC Nature & David Attenborough
the spooky buz
                     Nov 9, 2016
                                     10
                                              Mesmerizing
pjdickinson
                     Nov 5, 2016
                                     10
                                              Astounding
dbijis33
                     Nov 8, 2016
                                              Dangerously beautiful
                                     10
                                              Greatest documentary ever created.
dhanrajjughead
                     Nov 17, 2016
NeilBarnett
                     Nov 13, 2016
                                              Best thing on TV since last Planet Earth
                                     10
{\rm salmanu-}27386
                     Nov 6, 2016
panagiotiskatsanos
                     Dec 31, 2016
                                              One of the best documentaries I 've ever seen
                                     10
ianrobo
                     Nov 19, 2016
                                     10
                                              In times of climate deniers, hope
{\bf adamon IMDb}
                     Dec 28, 2016
                                              Breathtaking
tinyfordst
                     May 19, 2019
                                     10
                                              More irritated with IMDb for the bias than with the show
{\bf BobFillmore}
                     Sep 29, 2017
                                              Should be required viewing in schools
                                     10
farshidkarimi
                     Nov 22, 2016
                                     10
                                              What a Beautiful Planet- Bewitching !
TheLittleSongbird
                     Oct 12, 2017
                                              Like the first 'Planet Earth', does for nature and our planet as 'Walking with Dinosaurs' did with the dinosaurs
                                     10
myersei-165-4350
                     Dec 4, 2016
                                              This masterpiece deserves higher scores
                                     10
                     Oct 20, 2018
larask-21775
                                     10
                                              Love it!
fierceeagle-40009
                     Apr 23, 2020
                                              Absolutely amazing.
                                     10
adam-whitmore
                     \mathrm{Jan}\ 5,\ 2017
                                              Peerless evocation of nature across the globe
                                     10
```

```
## 2
            jim-1409 Nov 19, 2008
                                       10
## 3 ccthemovieman-1 Jan 4, 2009
                                       10
            cmcoveos Dec 15, 2006
## 4
                                       10
## 5
            Loordssm Sep 1, 2007
                                       10
## 6
            ultimorn Aug 27, 2006
                                       10
##
                                                                   Title
## 1
                                                            11 out of 10
## 2
                                         A masterpiece of a documentary
## 3
                                                      In A Word: Amazing
## 4 The most amazing achievement in natural history TV has ever given
## 5
                                                    Simply put, stunning
## 6
                           An amazing trip around our beautiful planet.
PlanetEarth %>%
  kable("latex", booktabs = TRUE) %>%
  kable_styling(latex_options = "scale_down")
BondOfBrothers <- data.frame(NAME[[4]],</pre>
    Date = date of review[[4]],
    Rating = user_ratings[[4]],
    Title = title_of_review[[4]],
    stringsAsFactors = FALSE
write.csv(BondOfBrothers, "BondOfBrothers reviews.csv")
print(head(BondOfBrothers))
##
        NAME..4..
                           Date Rating
```

```
## 1
          Rob1331 Sep 27, 2022
                                     10
## 2 sanderson777 Oct 14, 2001
                                     10
      wildcatt268 Jan 18, 2002
                                     10
## 3
## 4
          arjay24 Apr 18, 2004
                                     10
## 5
        rbverhoef Feb 13, 2003
                                     10
## 6
       yodaschoda Jan 23, 2005
                                     10
##
                                                 Title
## 1
                                          Incredible!!
## 2
           Possibly the finest 10 hours ever created
## 3
              One of the best war movies/series ever
## 4
                                             Realistic
```

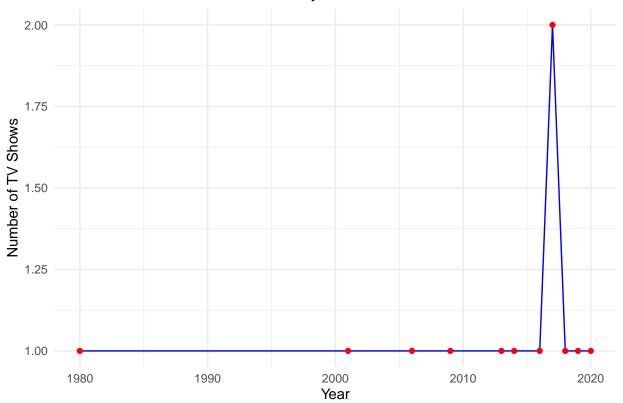
NAME3	Date	Rating	Title
robert-kamer jim-1409 ccthemovieman-1 cmcoveos Loordssm	Feb 8, 2007 Nov 19, 2008 Jan 4, 2009 Dec 15, 2006 Sep 1, 2007	10 10 10 10 10	11 out of 10 A masterpiece of a documentary In A Word: Amazing The most amazing achievement in natural history TV has ever given Simply put, stunning
ultimorn bob the moo alfeu Cabrone berndt65	Aug 27, 2006 Apr 30, 2006 Jun 29, 2015 Jul 20, 2006 Jan 28, 2009	10 10 9 10 10	An amazing trip around our beautiful planet. A visually impressive and memorable look at the world that we live in Is it real? I mean, actual footagge? Beautiful Are you kidding me people?
planktonrules dakuchonekobing rooprect bs3dc Nerte	Jun 1, 2015 Oct 8, 2020 Dec 4, 2007 Jan 15, 2007 Jul 30, 2008	7 3 10 10	It doesn't get any better than this. Only 4 Eps can touch my soul! Should be called "BBC - Yeah, animals suck" Brilliant Documentary Series Explanation to those low-rating reviews
ortz3 solon-stewart grantss bellino-angelo2014 edwardashton4545	Dec 25, 2017 Sep 14, 2009 Jan 4, 2023 Sep 20, 2020 Jul 27, 2014	9 10 10 9 10	Truly Astonishing The Greatest Series Ever Excellent documentary series Words fail me to describe such greatness Absolutely Mindblowing!

```
## 5
                                            Excellent
## 6 One of, if not the best, mini series' ever made
BondOfBrothers %>%
  kable("latex", booktabs = TRUE) %>%
  kable_styling(latex_options = "scale_down")
Chernobyl <- data.frame(NAME[[5]],</pre>
    Date = date_of_review[[5]],
    Rating = user_ratings[[5]],
    Title = title_of_review[[5]],
    stringsAsFactors = FALSE
write.csv(Chernobyl, "Chernobyl reviews.csv")
print(head(Chernobyl))
           NAME..5..
                                                                     Title
                             Date Rating
## 1 curiosityonmars May 23, 2019
                                       10
                                                         They got it right
## 2
            stelmakh May 10, 2019
                                       10
                                                     Goosebumps and tears
## 3
                                            I highly recommend this film!
        natashapekar May 9, 2019
                                       10
## 4
          m-porpaczi May 14, 2019
                                       10 No hero wakes up wanting to die
## 5
            Lladerat May 7, 2019
                                                   So far looks excellent
                                       10
## 6
                                                                Incredible
            jfirebug May 20, 2019
                                       10
Chernobyl %>%
  kable("latex", booktabs = TRUE) %>%
  kable_styling(latex_options = "scale_down")
movies$year <- as.numeric(movies$year)</pre>
## Warning: NAs introduced by coercion
year_counts <- movies %>%
  filter(!is.na(year)) %>%
```

NAME4	Date	Rating	Title
Rob1331	Sep 27, 2022	10	Incredible!! Possibly the finest 10 hours ever created One of the best war movies/series ever Realistic Excellent
sanderson777	Oct 14, 2001	10	
wildcatt268	Jan 18, 2002	10	
arjay24	Apr 18, 2004	10	
rbverhoef	Feb 13, 2003	10	
yodaschoda	Jan 23, 2005	10	One of, if not the best, mini series' ever made This series is so unbelievably realistic, so authentic. One of the best mini-series ever created! Probably the best ever Realistic WWII Drama With Warts Included
philip_vanderveken	Sep 16, 2004	10	
Supermanfan-13	May 6, 2022	10	
thiagoutp	Nov 4, 2019	10	
bsmith5552	Nov 5, 2001	10	
faded_english_monkey planktonrules stilonkostrzyn faded_Glory jazmodo	Aug 25, 2004 May 30, 2015 Apr 10, 2021 May 2, 2006 Jun 3, 2019	10 7 5 10	war, no frills You can't beat this Overrated?? Not very realistic at all Without Doubt, the Best Mini-Series Ever Recorded
kait2007	Jan 26, 2005	10	Great Miniseries A series like this won't be made again (see below), so treasure it Share With Your Children Best Mini series ever A-1, TOPS, the BOMB what else can I say?
mickman91-1	May 3, 2022	10	
kipmcmillan	Oct 24, 2018	9	
erwan_ticheler	Dec 7, 2002	10	
grahamsj3	Nov 25, 2002	10	

NAME5	Date	Rating	Title
curiosityonmars	May 23, 2019	10	They got it right Goosebumps and tears I highly recommend this film! No hero wakes up wanting to die So far looks excellent
stelmakh	May 10, 2019	10	
natashapekar	May 9, 2019	10	
m-porpaczi	May 14, 2019	10	
Lladerat	May 7, 2019	10	
jfirebug	May 20, 2019	10	Incredible Bleak, Unsettling, Haunting All Throughout Unbelievable HBO did it again! Exemplary
thegldt	May 6, 2019	10	
alexander-phoenix	May 13, 2019	10	
wmeduardowm	May 6, 2019	10	
Leofwine_draca	Nov 27, 2019	10	
Jamie_Seaton	May 23, 2019	7	Amazing! Unveiling Human Errors and Political Shadows How cost the lie? Emotionally drained Just watch it (!)
m-abtahi	Jan 27, 2024	1	
piter554	Jun 29, 2019	8	
frimark	May 20, 2019	10	
krzysztof-18241	May 30, 2019	10	
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!

Number of TV Shows Released by Year



```
most_releases <- year_counts[which.max(year_counts$n), ]
print(most_releases)</pre>
```

```
## year n
## 8 2017 2
```