

RWorksheet_Mijares#5.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(polite)
library(kableExtra)
```

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

```
library(stringr)
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 ----- tidyverse_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 (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```
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
```

```
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 = TRUE)]
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. Arcane"
```

```
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."
```

```
title <- str_replace(name1, "^\\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] " Arcane"

year = page %>% html_nodes(".sc-6ade9358-7.exckou.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] "2021-2024"

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" "9.0" "9.0" "9.1" "9.1" "9.1" "9.0"
## [25] "9.0"

episode <- page %>% html_nodes(".sc-6ade9358-7.exckou.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" "18 eps"

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

## [1] " (2.2M)" " (162K)" " (224K)" " (546K)" " (908K)" " (391K)" " (390K)"
## [8] " (49K)" " (499K)" " (131K)" " (46K)" " (54K)" " (2.4M)" " (34K)"
## [15] " (31K)" " (209K)" " (628K)" " (44K)" " (160K)" " (97K)" " (29K)"
## [22] " (1M)" " (563K)" " (122K)" " (318K)"

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=chtvtp_i_17",
      "https://www.imdb.com/title/tt1533395/?ref=chtvtp_i_18",
      "https://www.imdb.com/title/tt8420184/?ref=chtvtp_i_19",
      "https://www.imdb.com/title/tt0052520/?ref=chtvtp_i_20",
      "https://www.imdb.com/title/tt1877514/?ref=chtvtp_i_21",
      "https://www.imdb.com/title/tt1475582/?ref=chtvtp_i_22",
      "https://www.imdb.com/title/tt2560140/?ref=chtvtp_i_23",
      "https://www.imdb.com/title/tt0103359/?ref=chtvtp_i_24",
      "https://www.imdb.com/title/tt0386676/?ref=chtvtp_i_25")

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

userReviews

## [1] 5100 158 111 1000 3500 787 1000 53 965 205 80 245 5900 368 126
## [16] 466 910 12 541 213 175 1000 2300 219 1700

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

popularity

## [1] 20 999 1778 153 146 104 357 4122 31 1571 3645 2401 16 373 2532
## [16] 474 125 3057 1403 337 1739 160 50 463 51

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

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

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

## [1] 75

movies = data.frame(rank, title, years, ratings, episodes, votes, userReviews, critiqueReviews, popularity)

print(head(movies, 20))

```

```

##      rank      title      years ratings episodes  votes
## 1      1.    Breaking Bad 2008-2013    9.5    62 eps (2.2M)
## 2      2.    Planet Earth II    2016    9.5     6 eps (162K)
## 3      3.    Planet Earth    2006    9.4    11 eps (224K)
## 4      4.    Band of Brothers    2001    9.4    10 eps (546K)
## 5      5.    Chernobyl    2019    9.3     5 eps (908K)
## 6      6.    The Wire 2002-2008    9.3    60 eps (391K)
## 7      7.    Avatar: The Last Airbender 2005-2008    9.3    62 eps (390K)
## 8      8.    Blue Planet II    2017    9.3     7 eps (49K)
## 9      9.    The Sopranos 1999-2007    9.2    86 eps (499K)
## 10    10.    Cosmos: A Spacetime Odyssey    2014    9.2    13 eps (131K)
## 11    11.    Cosmos    1980    9.3    13 eps (46K)
## 12    12.    Our Planet 2019-2023    9.2    12 eps (54K)
## 13    13.    Game of Thrones 2011-2019    9.2    74 eps (2.4M)
## 14    14.    Bluey    2018    9.3   194 eps (34K)
## 15    15.    The World at War 1973-1974    9.2    26 eps (31K)
## 16    16.    Fullmetal Alchemist: Brotherhood 2009-2010    9.1    68 eps (209K)
## 17    17.    Rick and Morty    2013    9.1    78 eps (628K)
## 18    18.    Life    2009    9.1    11 eps (44K)
## 19    19.    The Last Dance    2020    9.0    10 eps (160K)
## 20    20.    The Twilight Zone 1959-1964    9.0   156 eps (97K)
##      userReviews critiqueReviews popularity
## 1           5100           175           20
## 2            158             6          999
## 3            111            10         1778
## 4           1000            34           153
## 5           3500            88           146
## 6            787            77           104
## 7           1000            57           357
## 8             53             9         4122
## 9            965            93            31
## 10            205            12         1571

```

## 11	80	8	3645
## 12	245	15	2401
## 13	5900	368	16
## 14	368	4	373
## 15	126	5	2532
## 16	466	16	474
## 17	910	94	125
## 18	12	9	3057
## 19	541	28	1403
## 20	213	85	337

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

```
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))
```

```
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(trim = TRUE) %>% head(1)

  userRating[[i]] <- webpage %>% html_nodes(".ipc-rating-star--rating") %>% html_text(trim = TRUE) %>% head(1)

  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 viewed", titleOf)]

  textReview[[i]] <- webpage %>% html_nodes(".ipc-html-content-inner-div") %>% html_text(trim = TRUE) %>% head(1)
}
```



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

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

```
##      Name..1..      Date Rating
## 1  curiosityonmars May 23, 2019    10
## 2      stelmakeh 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        thegltd 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     1
## 12      piter554 Jun 29, 2019     8
## 13      frimark May 20, 2019    10
## 14   krzysztof-18241 May 30, 2019    10
## 15      ahmetkozan Jun  7, 2019     9
## 16      Rob1331 Sep 27, 2022    10
## 17   stephenpdodds May  6, 2019     9
## 18   Supermanfan-13 Jul 10, 2022     9
## 19      emholberg May 26, 2019    10
## 20   josephwhitton May 15, 2019     7
##
##                                     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                                    How cost the lie?
## 13                                    Emotionally drained...
## 14                                    Just watch it (!)
## 15      Now you look like the minister of coal!
## 16                                    Must Watch!
## 17                                    Cracking.
## 18                                    Brilliant!
## 19 It is hard to overestimate the importance of this show.
## 20                                    Amazing
```

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


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	1	Amazing!
piter554	Jun 29, 2019	8	How cost the lie?
frimark	May 20, 2019	10	Emotionally drained...
krzysztof-18241	May 30, 2019	10	Just watch it (!)
ahmetkozan	Jun 7, 2019	9	Now you look like the minister of coal!
Rob1331	Sep 27, 2022	10	Must Watch!
stephenpdodds	May 6, 2019	9	Cracking.
Supermanfan-13	Jul 10, 2022	9	Brilliant!
emholberg	May 26, 2019	10	It is hard to overestimate the importance of this show.
josephwhitton	May 15, 2019	7	Amazing

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

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

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

```
##           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
```

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
atreveno90	Oct 20, 2022	9	I used to not understand what was 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
chrismeill	Jan 14, 2005	7	The best thing on TV today
Zubacz	Aug 25, 2013	5	...while you're waiting for moments that never come.
jeslawyer	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
suman-tangirala-836-985304	Aug 11, 2024	10	A Timeless Masterpiece of Gritty Realism
jeffronthi	Jul 22, 2014	10	As Close as it Gets

```
## 18      inthepalemoonlight Oct 17, 2004      10
## 19 suman-tangirala-836-985304 Aug 11, 2024      10
## 20      jeffronthi Jul 22, 2014      10
```

```
##
## 1      If You Haven't Seen this show, but are considering it, please read my review
## 2      Incredible!
## 3 This isn't just a show about crime - this tries to show every aspect of life in a crumbling society
## 4      As good as everyone says it is!
## 5      The Wire is why awards are irrelevant
## 6      Fantastic
## 7      I used to not understand what was so great about it
## 8      It's not a show, feels like real life
## 9      Hard to put into words how phenomenal The Wire is
## 10     Best TV Series Ever Made?
## 11     Doesn't get better than this
## 12     The best thing on TV today
## 13     ...while you're waiting for moments that never come
## 14     I'm definitely in the minority
## 15     An American Masterpiece: The Single Greatest Narrative of Our Generation
## 16     Ahead of its time
## 17     20 years ahead of its time
## 18     Best show on TV
## 19     A Timeless Masterpiece of Gritty Realism
## 20     As Close as it Gets
```

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

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

```
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
## 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 V
## 2 Great show with fantastic messages, lessons, philosophical discussions, character development, pl
## 3                                     The best show Nickel
## 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 v
## 10                                    I just rewatched the best TV series in the histor
## 11                                    One of the best animat
## 12
## 13                                    Good
## 14
## 15                                    Tha
## 16                                    V
## 17                                    I coul
## 18                                    The Greatest American Animat
## 19                                    The greatest TV show of all time. '
## 20                                    The one show/piece of art that hasn't and never will be topp
```

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

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

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

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
mjpysaght	Feb 1, 2017	10	The best show Nickelodeon has aired
Bluerreviews4you	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
xrachelosomeonex	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.

##	Name..4..	Date	Rating	Title
## 1	thespookybuz	Oct 28, 2017	10	Blue is the new Blue
## 2	alexmarchant	Nov 2, 2017	10	Unbelievable
## 3	bushd0	Oct 29, 2017	10	Absolutely epic
## 4	gb-sity	Oct 30, 2017	10	A great reminding that we all live because of the oceans.
## 5	davidjum	Oct 31, 2017	10	There is still hope
## 6	Bert45	Nov 11, 2017	10	Sensational television
## 7	peterjdickinson	Nov 12, 2017	10	Unbelievably good
## 8	gregoryblanch88	Nov 15, 2017	10	Eye wide, mouth open, in awe
## 9	gerzac	Nov 7, 2017	10	The Greatest
## 10	adam-whitmore	Jan 1, 2018	10	Expands one's view of life
## 11	dtalbot-1	Nov 30, 2017	10	The BBC and Sir David at their best
## 12	lexjoh	Dec 28, 2017	6	What a wake up call to the humans
## 13	cayennep	Jan 23, 2021	1	Great but terrible audio ruins it
## 14	strangerthingswillthewise	Mar 6, 2022	9	Could have Been Good
## 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	

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
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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
cummersr	Jul 27, 2018	10	Outstanding series; essential viewing
Gremlyn70	Oct 11, 2018	10	Can't be less than a 10 can it?

```
## 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?
```

```
bluePlanet2 %>%
  kable("latex", booktabs = TRUE) %>%
  kable_styling(latex_options = "scale_down")
```

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

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

```
##              Name..5..      Date Rating
## 1              Rob1331 Jun 28, 2023    10
## 2      Supermanfan-13 Sep 13, 2021    10
## 3          Johnny-Sack Mar 10, 2006    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
## 19 TheLittleSongbird Feb 1, 2023      10
## 20          kosmasp Mar 3, 2012       10
##
##                                     Title
## 1                                     Damn Near Perfect
## 2                                     One of the best shows ever created
## 3                                     A Reminder That Not All Modern TV is Poor
## 4                                     Television. Redefined.
## 5                                     A Masterpiece.
## 6                                     Frank Vincent, RIP
## 7 To call this a show it's unfair... It's the perpect 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          Like watching an epic grand opera
## 20          Consistent in being great
```

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

```
library(ggplot2)
```

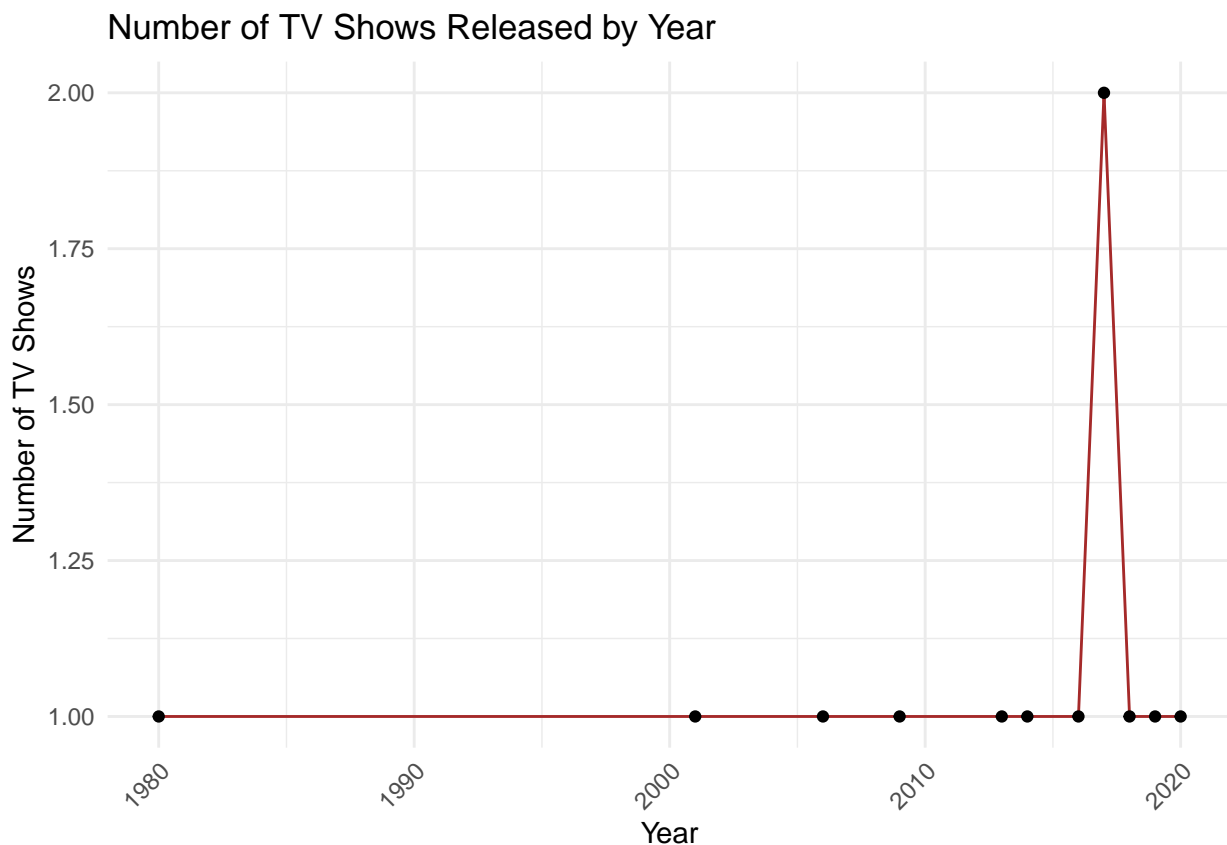
```
movies$year <- as.numeric(movies$year)
```

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

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

```
ggplot(yearCount, aes(x = year, 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) )
```

Name..5..	Date	Rating	Title
Rob1331	Jun 28, 2023	10	Damn Near Perfect
Supermanfan-13	Sep 13, 2021	10	One of the best shows ever created
Johnny-Sack	Mar 10, 2006	10	A Reminder That Not All Modern TV is Poor
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 perfect 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?
TheLittleSongbird	Feb 1, 2023	10	Like watching an epic grand opera
kosmasp	Mar 3, 2012	10	Consistent in being great



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

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