

RWorksheet_Mijares#5.Rmd

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```
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
```

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

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

```
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
```

```
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. The Office"
```

```
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(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"
```

```
year = page %>% html_nodes(".sc-5bc66c50-6.00dsw.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"

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"

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"

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

## [1] " (2.2M)" " (162K)" " (223K)" " (544K)" " (905K)" " (390K)" " (389K)"
## [8] " (48K)" " (497K)" " (131K)" " (45K)" " (53K)" " (2.4M)" " (33K)"
## [15] " (31K)" " (208K)" " (626K)" " (43K)" " (159K)" " (96K)" " (29K)"
## [22] " (1M)" " (559K)" " (122K)" " (745K)"

urls <- c("https://www.imdb.com/title/tt0903747/?ref=chtvtp_i_1",
"https://www.imdb.com/title/tt5491994/?ref=chtvtp_i_2",
"https://www.imdb.com/title/tt0795176/?ref=chtvtp_i_3",
"https://www.imdb.com/title/tt0185906/?ref=chtvtp_i_4",
"https://www.imdb.com/title/tt7366338/?ref=chtvtp_i_5",
"https://www.imdb.com/title/tt0306414/?ref=chtvtp_i_6",
"https://www.imdb.com/title/tt0417299/?ref=chtvtp_i_7",
"https://www.imdb.com/title/tt6769208/?ref=chtvtp_i_8",
"https://www.imdb.com/title/tt0141842/?ref=chtvtp_i_9",
"https://www.imdb.com/title/tt2395695/?ref=chtvtp_i_10",
"https://www.imdb.com/title/tt0081846/?ref=chtvtp_i_11",
"https://www.imdb.com/title/tt9253866/?ref=chtvtp_i_12",
"https://www.imdb.com/title/tt0944947/?ref=chtvtp_i_13",
"https://www.imdb.com/title/tt7678620/?ref=chtvtp_i_14",
"https://www.imdb.com/title/tt0071075/?ref=chtvtp_i_15",
"https://www.imdb.com/title/tt1355642/?ref=chtvtp_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] 5000 158 111 1000 3500 787 998 53 962 205 80 245 5800 367 126
## [16] 465 908 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 1121 2011 171 173 108 373 4415 33 1499 3866 2765 14 411 2627
## [16] 508 137 3455 1521 354 2022 172 60 527 55
```

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

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

```
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. | 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 | (389K) |
| ## 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 | 20 | | | |
| ## 2 | 158 | 6 | 1121 | | | |
| ## 3 | 111 | 10 | 2011 | | | |
| ## 4 | 1000 | 34 | 171 | | | |
| ## 5 | 3500 | 88 | 173 | | | |
| ## 6 | 787 | 77 | 108 | | | |
| ## 7 | 998 | 57 | 373 | | | |
| ## 8 | 53 | 9 | 4415 | | | |
| ## 9 | 962 | 93 | 33 | | | |
| ## 10 | 205 | 12 | 1499 | | | |
| ## 11 | 80 | 8 | 3866 | | | |
| ## 12 | 245 | 15 | 2765 | | | |
| ## 13 | 5800 | 368 | 14 | | | |
| ## 14 | 367 | 4 | 411 | | | |
| ## 15 | 126 | 5 | 2627 | | | |
| ## 16 | 465 | 16 | 508 | | | |
| ## 17 | 908 | 94 | 137 | | | |
| ## 18 | 12 | 9 | 3455 | | | |
| ## 19 | 541 | 28 | 1521 | | | |
| ## 20 | 213 | 85 | 354 | | | |

```

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))

```

[illegible]

| ## | 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 | tutajdaniel | Jun 15, 2019 | 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 | | | | The movie is far from thuth. A lot of fake info to create a drama... |
| ## 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! |

```

chernobyl %>%
  kable("latex", booktabs = TRUE) %>%
  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..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 |
| tutajdaniel | Jun 15, 2019 | 8 | The movie is far from thuth. A lot of fake info to create a drama... |
| 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 review | |
| ## 2 | | Incredibl |
| ## 3 | This isn't just a show about crime - this tries to show every aspect of life in a crumbling societ | |
| ## 4 | | As good as everyone says it is |
| ## 5 | | The Wire is why awards are irrelevant |
| ## 6 | | Fantast |
| ## 7 | I used to not understand what whas so great about | |

| 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 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 |
| 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 |

```
## 8                                     It's not a show, feels like real li
## 9                                     Hard to put into words how phenomenal The Wire
## 10                                    Best TV Series Ever Made
## 11                                    Doesn't get better than th
## 12                                    The best thing on TV tod
## 13                                    ...while you're waiting for moments that never come
## 14                                    I'm definitely in the minori
## 15                                    An American Masterpiece: The Single Greatest Narrative of Our Generati
## 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 justifi
```

```
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
```

| 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 |
| ericjancant-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. |

```
## 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 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 histo
## 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..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 strangerthingswilllthewise 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?
```

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

```
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      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 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? |
| 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 perfect 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$year <- as.numeric(movies$year)
```

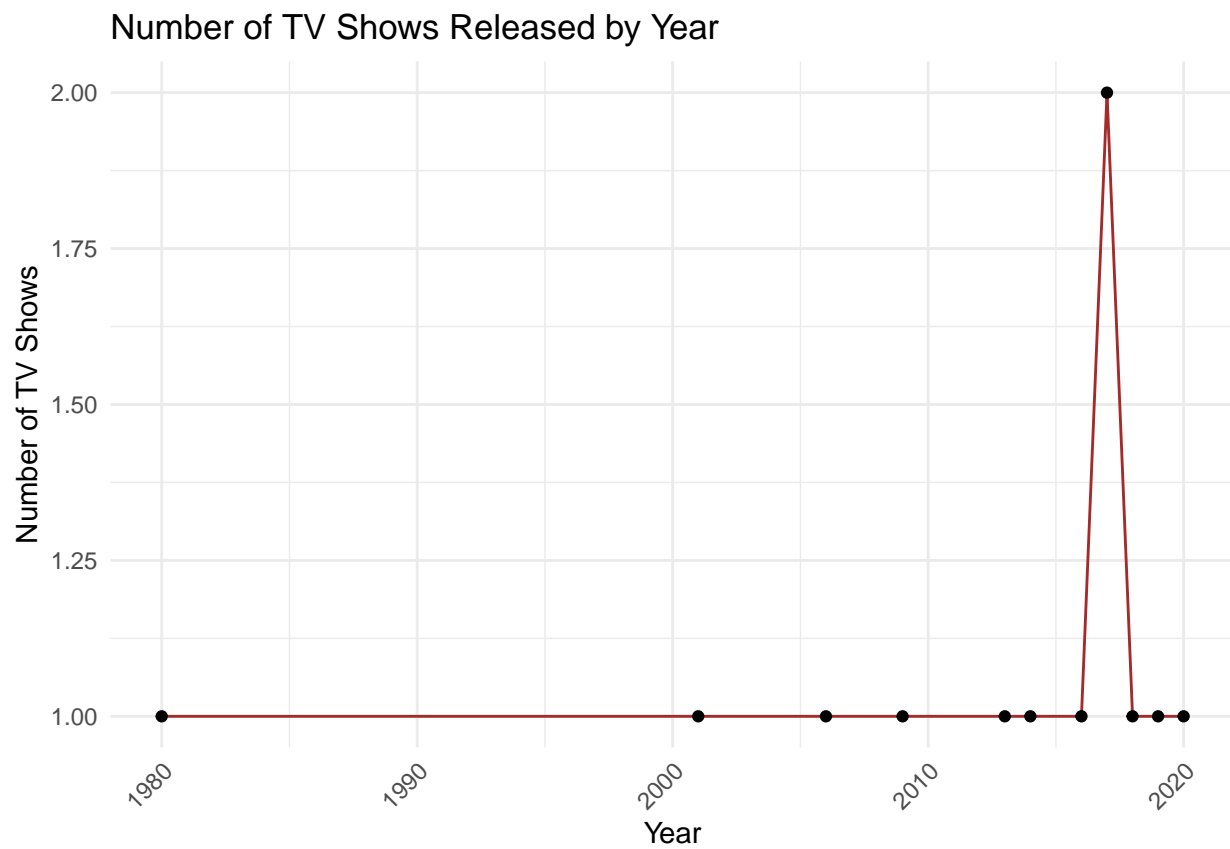
```
## Warning: NAs introduced by coercion
```

```

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) )

```



```

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

```

```

##   year n
## 8 2017 2

```