

RWorksheet_Mijares#5.Rmd

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2024-11-06

```
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. 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(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] " Arcane" "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] "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" "9.1" "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" "18 eps"

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

## [1] " (2.2M)" " (162K)" " (224K)" " (546K)" " (907K)" " (391K)" " (390K)"
## [8] " (49K)" " (498K)" " (132K)" " (46K)" " (54K)" " (2.4M)" " (34K)"
## [15] " (31K)" " (209K)" " (627K)" " (44K)" " (160K)" " (97K)" " (30K)"
## [22] " (1M)" " (561K)" " (122K)" " (303K)"

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 53 963 205 80 245 5800 367 126
## [16] 466 911 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	(224K)
## 4	4.	Planet Earth II	2001	9.4	10 eps	(546K)
## 5	5.	Planet Earth	2019	9.3	5 eps	(907K)
## 6	6.	Band of Brothers	2002-2008	9.3	60 eps	(391K)
## 7	7.	Chernobyl	2005-2008	9.3	62 eps	(390K)
## 8	8.	The Wire	2017	9.3	7 eps	(49K)
## 9	9.	Avatar: The Last Airbender	1999-2007	9.2	86 eps	(498K)
## 10	10.	Blue Planet II	2014	9.2	13 eps	(132K)
## 11	11.	The Sopranos	1980	9.3	13 eps	(46K)
## 12	12.	Cosmos: A Spacetime Odyssey	2019-2023	9.2	12 eps	(54K)
## 13	13.	Cosmos	2011-2019	9.2	74 eps	(2.4M)
## 14	14.	Our Planet	2018	9.3	194 eps	(34K)
## 15	15.	Game of Thrones	1973-1974	9.2	26 eps	(31K)
## 16	16.	Bluey	2009-2010	9.1	68 eps	(209K)
## 17	17.	The World at War	2013	9.1	78 eps	(627K)
## 18	18.	Fullmetal Alchemist: Brotherhood	2009	9.1	11 eps	(44K)
## 19	19.	Rick and Morty	2020	9.1	10 eps	(160K)
## 20	20.	Life	1959-1964	9.0	156 eps	(97K)
##	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	963	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	466	16	508			
## 17	911	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	1	
## 13	piter554	Jun 29, 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				How cost the lie?
## 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	1	Unveiling Human Errors and Political Shadows
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	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	atreveno90	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 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 Fantast.

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
atrevido90	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

```
## 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 As Close as it Gets
## 20 The hyperbole is entirely justified
```

```
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
```

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
xrachelsomeonex	Dec 1, 2005	7	Well done
gbulmash	Oct 20, 2010	5	Good for the family
ninjawaiter	Dec 19, 2020	10	Baffling
salinaqvi	May 12, 2020	10	That's Rough Buddy
HeirToPendragon	Jan 6, 2006	10	Very Great story
srikantkanchi	Sep 13, 2014	10	I could never forget.
BadgerStorm4345	May 22, 2020	10	The Greatest American Animation of All Time
poseyfan	Jun 10, 2022	10	The greatest TV show of all time. Yep, i said it.
olliescool	Aug 14, 2018	10	The one show/piece of art that hasn't and never will be topped by anything.

```
## 8      Quinoa1984 Aug 15, 2009      10
## 9      joshkej-84077 Feb 9, 2018      10
## 10 A_Different_Drummer Sep 17, 2016      10
## 11      KineticSeoul Oct 10, 2010      10
## 12      xrachelsomeonex Dec 1, 2005      7
## 13      gbulmash Oct 20, 2010      5
## 14      ninjawaiter Dec 19, 2020      10
## 15      salinaqvi May 12, 2020      10
## 16      HeirToPendragon Jan 6, 2006      10
## 17      srikantkanchi Sep 13, 2014      10
## 18      BadgerStorm4345 May 22, 2020      10
## 19      poseyfan Jun 10, 2022      10
## 20      olliescool Aug 14, 2018      10
```

```
##
## 1      14 Years Later, 25 Years Old, Sitting Here In Quarantine, Drinking W
## 2      Great show with fantastic messages, lessons, philosophical discussions, character development, pl
## 3      The best show 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 animato
## 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         dtalbot-1 Nov 30, 2017    10
## 11      adam-whitmore Jan 1, 2018    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           The BBC and Sir David at their best
## 11           Expands one's view of life
## 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
thespookybuzz	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
dtalbot-1	Nov 30, 2017	10	The BBC and Sir David at their best
adam-whitmore	Jan 1, 2018	10	Expands one's view of life
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           Rob1331 Jun 28, 2023    10
## 2       Johnny-Sack Mar 10, 2006    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
Rob1331	Jun 28, 2023	10	Damn Near Perfect
Johnny-Sack	Mar 10, 2006	10	A Reminder That Not All Modern TV is Poor
Supermanfan-13	Sep 13, 2021	10	One of the best shows ever created
Inglourious_Basterd21	Aug 25, 2006	10	Television. Redefined.
prodigy3010	May 4, 2018	10	A Masterpiece.
lee_eisenberg	Sep 19, 2017	10	Frank Vincent, RIP
mrsambo-63680	Jul 13, 2020	10	To call this a show it's unfair... It's the pertect 86 hour movie!
pronins	Jul 22, 2020	10	A true classic
BlackJack_B	Mar 8, 2001	10	BRILLIANT!!!
galileo3	Mar 17, 2008	10	Quite simply, the greatest television show of all time
feddomw	Mar 28, 2019	10	Can't overstate the greatness here.
gabo_alepb	May 17, 2020	6	Third time watch since the series ended. May 2020.
peteskeetskeetskeet-93216	Dec 21, 2018	5	Don't get the hype
carzellako04	Dec 4, 2016	10	Incredibly Overrated - OK But Not One of The Greats
helgethuv	Apr 23, 2006	9	Best mob/gangster show ever
srk08914	Jul 23, 2020	9	Stunning, outstanding, terrific
libbyhutchin	Jan 22, 2023	10	Watching this for the first time in 2023
swordsnare	Jul 2, 2021	10	How Could You Not?
kosmasp	Mar 3, 2012	10	Consistent in being great
TheLittleSongbird	Feb 1, 2023	10	Like watching an epic grand opera

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

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

```
library(ggplot2)
```

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

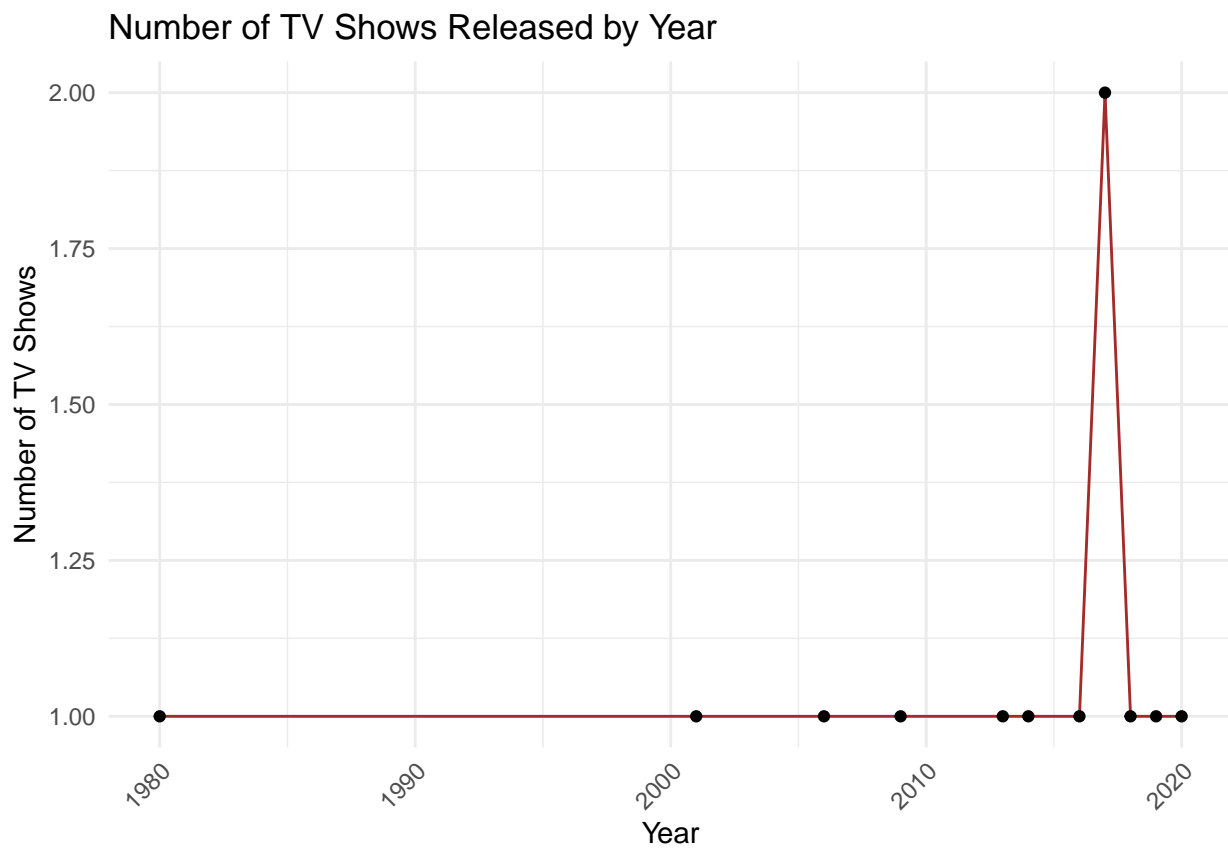
```
## Warning: NAs introduced by coercion
```

```

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

```