

Worksheet#5a

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```
# Load necessary libraries
```

```
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)
```

```
# Define target URL
```

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

```
# Create a polite session
```

```
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
```

```
#Extracting the ranks and titles
```

```
title_list <- read_html(url) %>%
```

```
html_nodes('.ipc-title_text') %>%
```

```
html_text()
```

```
title_list
```

```
## [1] "IMDb Charts"
```

```
## [2] "Top 250 TV Shows"
```

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

```
## [4] "2. Planet Earth II"
```

```
## [5] "3. Planet Earth"
```

```
## [6] "4. Band of Brothers"
```

```
## [7] "5. Chernobyl"
```

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

#Cleaning extracted text

```
title_list_sub <- as.data.frame(title_list[3:27], stringsAsFactors = FALSE)
colnames(title_list_sub) <- "ranks"

split_df <- strsplit(as.character(title_list_sub$ranks), "\\.", fixed = FALSE)
split_df <- data.frame(do.call(rbind, split_df), stringsAsFactors = FALSE)

colnames(split_df) <- c("rank", "title")
split_df <- split_df %>%
  select(rank, title)

split_df$title <- trimws(split_df$title)

rank_title <- split_df
rank_title
```

```
##      rank      title
## 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
```

```
# Scrape Ratings
```

```
#Extracting tv rating, the number of people who voted, the number of episodes, and the year it was released
```

```
rating_ls <- read_html(url) %>%
html_nodes('.ipc-rating-star--rating') %>%
html_text()
```

```
rating_ls
```

```
## [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"
```

```
# Scrape Vote Counts
```

```
voter_ls <- read_html(url) %>%
html_nodes('.ipc-rating-star--voteCount') %>%
html_text()
```

```
clean_votes <- gsub('[]]', '', voter_ls)
# Check if vote counts were extracted correctly
print(voter_ls)
```

```
## [1] " (2.2M)" " (163K)" " (224K)" " (547K)" " (910K)" " (392K)" " (391K)"
## [8] " (49K)" " (500K)" " (132K)" " (46K)" " (54K)" " (2.4M)" " (34K)"
## [15] " (32K)" " (210K)" " (629K)" " (44K)" " (160K)" " (97K)" " (30K)"
## [22] " (1M)" " (565K)" " (123K)" " (332K)"
```

```
#extracted the number of episodes
```

```
eps_ls <- read_html(url) %>%
html_nodes('span.sc-300a8231-7.eaXxft.cli-title-metadata-item:nth-of-type(2)') %>%
html_text()
clean_eps <- gsub('[eps]', '', eps_ls)
```

```
num_eps <- as.numeric(clean_eps)
```

```
print(num_eps)
```

```
## [1] 62 6 11 10 5 60 62 7 86 13 13 12 74 194 26 68 78 11 10
## [20] 156 10 15 98 85 18
```

```
#note to self, use gsub() to remove constant strings appearing in the dataset.
```

```
#extracted the year released
```

```
years <- read_html(url) %>%
html_nodes('span.sc-300a8231-7.eaXxft.cli-title-metadata-item:nth-of-type(1)') %>%
html_text()
```

```
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"
```

```
top_tv_shows <- data.frame(
  Title = rank_title[,2],
  Rating = rating_ls,
  Voters = clean_votes,
  Episodes = num_eps,
  Year = years)
```

```
top_tv_shows
```

##	Title	Rating	Voters	Episodes	Year
## 1	Breaking Bad	9.5	2.2M	62	2008-2013
## 2	Planet Earth II	9.5	163K	6	2016
## 3	Planet Earth	9.4	224K	11	2006
## 4	Band of Brothers	9.4	547K	10	2001
## 5	Chernobyl	9.3	910K	5	2019
## 6	The Wire	9.3	392K	60	2002-2008
## 7	Avatar: The Last Airbender	9.3	391K	62	2005-2008
## 8	Blue Planet II	9.3	49K	7	2017
## 9	The Sopranos	9.2	500K	86	1999-2007
## 10	Cosmos: A Spacetime Odyssey	9.2	132K	13	2014
## 11	Cosmos	9.3	46K	13	1980
## 12	Our Planet	9.2	54K	12	2019-2023
## 13	Game of Thrones	9.2	2.4M	74	2011-2019
## 14	Bluey	9.3	34K	194	2018-
## 15	The World at War	9.2	32K	26	1973-1974
## 16	Fullmetal Alchemist: Brotherhood	9.1	210K	68	2009-2010
## 17	Rick and Morty	9.1	629K	78	2013-
## 18	Life	9.1	44K	11	2009
## 19	The Last Dance	9.0	160K	10	2020
## 20	The Twilight Zone	9.0	97K	156	1959-1964
## 21	The Vietnam War	9.1	30K	10	2017
## 22	Sherlock	9.1	1M	15	2010-2017
## 23	Attack on Titan	9.1	565K	98	2013-2023
## 24	Batman: The Animated Series	9.0	123K	85	1992-1995
## 25	Arcane	9.0	332K	18	2021-2024

```
home_link <- 'https://www.imdb.com/chart/toptv/'
main_page <- read_html(home_link)
```

```
links <- main_page %>%
  html_nodes("a.ipc-title-link-wrapper") %>%
  html_attr("href")
```

```
links
```

```
## [1] "/title/tt0903747/?ref_=chttvtp_t_1"
## [2] "/title/tt5491994/?ref_=chttvtp_t_2"
## [3] "/title/tt0795176/?ref_=chttvtp_t_3"
## [4] "/title/tt0185906/?ref_=chttvtp_t_4"
```

```
## [5] "/title/tt7366338/?ref_=chttvtp_t_5"
## [6] "/title/tt0306414/?ref_=chttvtp_t_6"
## [7] "/title/tt0417299/?ref_=chttvtp_t_7"
## [8] "/title/tt6769208/?ref_=chttvtp_t_8"
## [9] "/title/tt0141842/?ref_=chttvtp_t_9"
## [10] "/title/tt2395695/?ref_=chttvtp_t_10"
## [11] "/title/tt0081846/?ref_=chttvtp_t_11"
## [12] "/title/tt9253866/?ref_=chttvtp_t_12"
## [13] "/title/tt0944947/?ref_=chttvtp_t_13"
## [14] "/title/tt7678620/?ref_=chttvtp_t_14"
## [15] "/title/tt0071075/?ref_=chttvtp_t_15"
## [16] "/title/tt1355642/?ref_=chttvtp_t_16"
## [17] "/title/tt2861424/?ref_=chttvtp_t_17"
## [18] "/title/tt1533395/?ref_=chttvtp_t_18"
## [19] "/title/tt8420184/?ref_=chttvtp_t_19"
## [20] "/title/tt0052520/?ref_=chttvtp_t_20"
## [21] "/title/tt1877514/?ref_=chttvtp_t_21"
## [22] "/title/tt1475582/?ref_=chttvtp_t_22"
## [23] "/title/tt2560140/?ref_=chttvtp_t_23"
## [24] "/title/tt0103359/?ref_=chttvtp_t_24"
## [25] "/title/tt11126994/?ref_=chttvtp_t_25"
```

```
# Loop to get link of each show's page
show_data <- lapply(links, function(link) {
  complete_link <- paste0("https://imdb.com", link)
```

```
#loop to get the link for user review page
usrv_link <- read_html(complete_link)
usrv_link_page <- usrv_link %>%
  html_nodes('a.isReview') %>%
  html_attr("href")
```

```
#loop to extract critic reviews
critic <- usrv_link %>%
  html_nodes("span.score") %>%
  html_text()
critic_df <- data.frame(Critic_Reviews = critic[2], stringsAsFactors = FALSE)
```

```
#loop to extract pop rating
pop_rating <- usrv_link %>%
  html_nodes('[data-testid="hero-rating-bar__popularity__score"]') %>%
  html_text()
```

```
#loop to get user reviews of each shows
usrv <- read_html(paste0("https://imdb.com", usrv_link_page[1]))
usrv_count <- usrv %>%
  html_nodes('[data-testid="tturv-total-reviews"]') %>%
  html_text()
```

```
return(data.frame>Show_Link = complete_link, User_Reviews = usrv_count, Critic = critic_df, Popularity_
```

```
})

show_url_df <- do.call(rbind, show_data)
print(show_url_df)
```

	Show_Link	User_Reviews
## 1	https://imdb.com/title/tt0903747/?ref=chttvtp_t_1	5,108 reviews
## 2	https://imdb.com/title/tt0903747/?ref=chttvtp_t_1	5,108 reviews
## 3	https://imdb.com/title/tt5491994/?ref=chttvtp_t_2	158 reviews
## 4	https://imdb.com/title/tt5491994/?ref=chttvtp_t_2	158 reviews
## 5	https://imdb.com/title/tt0795176/?ref=chttvtp_t_3	111 reviews
## 6	https://imdb.com/title/tt0795176/?ref=chttvtp_t_3	111 reviews
## 7	https://imdb.com/title/tt0185906/?ref=chttvtp_t_4	1,058 reviews
## 8	https://imdb.com/title/tt0185906/?ref=chttvtp_t_4	1,058 reviews
## 9	https://imdb.com/title/tt7366338/?ref=chttvtp_t_5	3,534 reviews
## 10	https://imdb.com/title/tt7366338/?ref=chttvtp_t_5	3,534 reviews
## 11	https://imdb.com/title/tt0306414/?ref=chttvtp_t_6	787 reviews
## 12	https://imdb.com/title/tt0306414/?ref=chttvtp_t_6	787 reviews
## 13	https://imdb.com/title/tt0417299/?ref=chttvtp_t_7	1,003 reviews
## 14	https://imdb.com/title/tt0417299/?ref=chttvtp_t_7	1,003 reviews
## 15	https://imdb.com/title/tt6769208/?ref=chttvtp_t_8	53 reviews
## 16	https://imdb.com/title/tt6769208/?ref=chttvtp_t_8	53 reviews
## 17	https://imdb.com/title/tt0141842/?ref=chttvtp_t_9	966 reviews
## 18	https://imdb.com/title/tt0141842/?ref=chttvtp_t_9	966 reviews
## 19	https://imdb.com/title/tt2395695/?ref=chttvtp_t_10	205 reviews
## 20	https://imdb.com/title/tt2395695/?ref=chttvtp_t_10	205 reviews
## 21	https://imdb.com/title/tt0081846/?ref=chttvtp_t_11	80 reviews
## 22	https://imdb.com/title/tt0081846/?ref=chttvtp_t_11	80 reviews
## 23	https://imdb.com/title/tt9253866/?ref=chttvtp_t_12	245 reviews
## 24	https://imdb.com/title/tt9253866/?ref=chttvtp_t_12	245 reviews
## 25	https://imdb.com/title/tt0944947/?ref=chttvtp_t_13	5,907 reviews
## 26	https://imdb.com/title/tt0944947/?ref=chttvtp_t_13	5,907 reviews
## 27	https://imdb.com/title/tt7678620/?ref=chttvtp_t_14	369 reviews
## 28	https://imdb.com/title/tt7678620/?ref=chttvtp_t_14	369 reviews
## 29	https://imdb.com/title/tt0071075/?ref=chttvtp_t_15	126 reviews
## 30	https://imdb.com/title/tt0071075/?ref=chttvtp_t_15	126 reviews
## 31	https://imdb.com/title/tt1355642/?ref=chttvtp_t_16	468 reviews
## 32	https://imdb.com/title/tt1355642/?ref=chttvtp_t_16	468 reviews
## 33	https://imdb.com/title/tt2861424/?ref=chttvtp_t_17	910 reviews
## 34	https://imdb.com/title/tt2861424/?ref=chttvtp_t_17	910 reviews
## 35	https://imdb.com/title/tt1533395/?ref=chttvtp_t_18	12 reviews
## 36	https://imdb.com/title/tt1533395/?ref=chttvtp_t_18	12 reviews
## 37	https://imdb.com/title/tt8420184/?ref=chttvtp_t_19	542 reviews
## 38	https://imdb.com/title/tt8420184/?ref=chttvtp_t_19	542 reviews
## 39	https://imdb.com/title/tt0052520/?ref=chttvtp_t_20	214 reviews
## 40	https://imdb.com/title/tt0052520/?ref=chttvtp_t_20	214 reviews
## 41	https://imdb.com/title/tt1877514/?ref=chttvtp_t_21	175 reviews
## 42	https://imdb.com/title/tt1877514/?ref=chttvtp_t_21	175 reviews
## 43	https://imdb.com/title/tt1475582/?ref=chttvtp_t_22	1,098 reviews
## 44	https://imdb.com/title/tt1475582/?ref=chttvtp_t_22	1,098 reviews
## 45	https://imdb.com/title/tt2560140/?ref=chttvtp_t_23	2,370 reviews
## 46	https://imdb.com/title/tt2560140/?ref=chttvtp_t_23	2,370 reviews
## 47	https://imdb.com/title/tt0103359/?ref=chttvtp_t_24	219 reviews
## 48	https://imdb.com/title/tt0103359/?ref=chttvtp_t_24	219 reviews
## 49	https://imdb.com/title/tt11126994/?ref=chttvtp_t_25	2,215 reviews
## 50	https://imdb.com/title/tt11126994/?ref=chttvtp_t_25	2,215 reviews
##	Critic_Reviews	Popularity_Rating
## 1	175	20
## 2	175	20

```
## 3          6          999
## 4          6          999
## 5         10        1,778
## 6         10        1,778
## 7         34         153
## 8         34         153
## 9         88         146
## 10        88         146
## 11        77         104
## 12        77         104
## 13        57         357
## 14        57         357
## 15         9        4,122
## 16         9        4,122
## 17        93          31
## 18        93          31
## 19        12        1,571
## 20        12        1,571
## 21         8        3,645
## 22         8        3,645
## 23        15        2,401
## 24        15        2,401
## 25       368          16
## 26       368          16
## 27         4        373
## 28         4        373
## 29         5        2,532
## 30         5        2,532
## 31        16         474
## 32        16         474
## 33        94         125
## 34        94         125
## 35         9        3,057
## 36         9        3,057
## 37        28        1,403
## 38        28        1,403
## 39        85         337
## 40        85         337
## 41        13        1,739
## 42        13        1,739
## 43       121         160
## 44       121         160
## 45        64          50
## 46        64          50
## 47        25         463
## 48        25         463
## 49        59          1
## 50        59          1
```

```
shows <- cbind(top_tv_shows, show_url_df)
shows
```

```
##           Title Rating Voters Episodes      Year
## 1      Breaking Bad    9.5    2.2M      62 2008-2013
## 2    Planet Earth II    9.5   163K       6    2016
```

## 3	Planet Earth	9.4	224K	11	2006
## 4	Band of Brothers	9.4	547K	10	2001
## 5	Chernobyl	9.3	910K	5	2019
## 6	The Wire	9.3	392K	60	2002-2008
## 7	Avatar: The Last Airbender	9.3	391K	62	2005-2008
## 8	Blue Planet II	9.3	49K	7	2017
## 9	The Sopranos	9.2	500K	86	1999-2007
## 10	Cosmos: A Spacetime Odyssey	9.2	132K	13	2014
## 11	Cosmos	9.3	46K	13	1980
## 12	Our Planet	9.2	54K	12	2019-2023
## 13	Game of Thrones	9.2	2.4M	74	2011-2019
## 14	Bluey	9.3	34K	194	2018-
## 15	The World at War	9.2	32K	26	1973-1974
## 16	Fullmetal Alchemist: Brotherhood	9.1	210K	68	2009-2010
## 17	Rick and Morty	9.1	629K	78	2013-
## 18	Life	9.1	44K	11	2009
## 19	The Last Dance	9.0	160K	10	2020
## 20	The Twilight Zone	9.0	97K	156	1959-1964
## 21	The Vietnam War	9.1	30K	10	2017
## 22	Sherlock	9.1	1M	15	2010-2017
## 23	Attack on Titan	9.1	565K	98	2013-2023
## 24	Batman: The Animated Series	9.0	123K	85	1992-1995
## 25	Arcane	9.0	332K	18	2021-2024
## 26	Breaking Bad	9.5	2.2M	62	2008-2013
## 27	Planet Earth II	9.5	163K	6	2016
## 28	Planet Earth	9.4	224K	11	2006
## 29	Band of Brothers	9.4	547K	10	2001
## 30	Chernobyl	9.3	910K	5	2019
## 31	The Wire	9.3	392K	60	2002-2008
## 32	Avatar: The Last Airbender	9.3	391K	62	2005-2008
## 33	Blue Planet II	9.3	49K	7	2017
## 34	The Sopranos	9.2	500K	86	1999-2007
## 35	Cosmos: A Spacetime Odyssey	9.2	132K	13	2014
## 36	Cosmos	9.3	46K	13	1980
## 37	Our Planet	9.2	54K	12	2019-2023
## 38	Game of Thrones	9.2	2.4M	74	2011-2019
## 39	Bluey	9.3	34K	194	2018-
## 40	The World at War	9.2	32K	26	1973-1974
## 41	Fullmetal Alchemist: Brotherhood	9.1	210K	68	2009-2010
## 42	Rick and Morty	9.1	629K	78	2013-
## 43	Life	9.1	44K	11	2009
## 44	The Last Dance	9.0	160K	10	2020
## 45	The Twilight Zone	9.0	97K	156	1959-1964
## 46	The Vietnam War	9.1	30K	10	2017
## 47	Sherlock	9.1	1M	15	2010-2017
## 48	Attack on Titan	9.1	565K	98	2013-2023
## 49	Batman: The Animated Series	9.0	123K	85	1992-1995
## 50	Arcane	9.0	332K	18	2021-2024
##	Show_Link			User_Reviews	
## 1	https://imdb.com/title/tt0903747/?ref_=chttp_t_1			5,108 reviews	
## 2	https://imdb.com/title/tt0903747/?ref_=chttp_t_1			5,108 reviews	
## 3	https://imdb.com/title/tt5491994/?ref_=chttp_t_2			158 reviews	
## 4	https://imdb.com/title/tt5491994/?ref_=chttp_t_2			158 reviews	
## 5	https://imdb.com/title/tt0795176/?ref_=chttp_t_3			111 reviews	


```

## 6  https://imdb.com/title/tt0795176/?ref_=chttvtp_t_3 111 reviews
## 7  https://imdb.com/title/tt0185906/?ref_=chttvtp_t_4 1,058 reviews
## 8  https://imdb.com/title/tt0185906/?ref_=chttvtp_t_4 1,058 reviews
## 9  https://imdb.com/title/tt7366338/?ref_=chttvtp_t_5 3,534 reviews
## 10 https://imdb.com/title/tt7366338/?ref_=chttvtp_t_5 3,534 reviews
## 11 https://imdb.com/title/tt0306414/?ref_=chttvtp_t_6 787 reviews
## 12 https://imdb.com/title/tt0306414/?ref_=chttvtp_t_6 787 reviews
## 13 https://imdb.com/title/tt0417299/?ref_=chttvtp_t_7 1,003 reviews
## 14 https://imdb.com/title/tt0417299/?ref_=chttvtp_t_7 1,003 reviews
## 15 https://imdb.com/title/tt6769208/?ref_=chttvtp_t_8 53 reviews
## 16 https://imdb.com/title/tt6769208/?ref_=chttvtp_t_8 53 reviews
## 17 https://imdb.com/title/tt0141842/?ref_=chttvtp_t_9 966 reviews
## 18 https://imdb.com/title/tt0141842/?ref_=chttvtp_t_9 966 reviews
## 19 https://imdb.com/title/tt2395695/?ref_=chttvtp_t_10 205 reviews
## 20 https://imdb.com/title/tt2395695/?ref_=chttvtp_t_10 205 reviews
## 21 https://imdb.com/title/tt0081846/?ref_=chttvtp_t_11 80 reviews
## 22 https://imdb.com/title/tt0081846/?ref_=chttvtp_t_11 80 reviews
## 23 https://imdb.com/title/tt9253866/?ref_=chttvtp_t_12 245 reviews
## 24 https://imdb.com/title/tt9253866/?ref_=chttvtp_t_12 245 reviews
## 25 https://imdb.com/title/tt0944947/?ref_=chttvtp_t_13 5,907 reviews
## 26 https://imdb.com/title/tt0944947/?ref_=chttvtp_t_13 5,907 reviews
## 27 https://imdb.com/title/tt7678620/?ref_=chttvtp_t_14 369 reviews
## 28 https://imdb.com/title/tt7678620/?ref_=chttvtp_t_14 369 reviews
## 29 https://imdb.com/title/tt0071075/?ref_=chttvtp_t_15 126 reviews
## 30 https://imdb.com/title/tt0071075/?ref_=chttvtp_t_15 126 reviews
## 31 https://imdb.com/title/tt1355642/?ref_=chttvtp_t_16 468 reviews
## 32 https://imdb.com/title/tt1355642/?ref_=chttvtp_t_16 468 reviews
## 33 https://imdb.com/title/tt2861424/?ref_=chttvtp_t_17 910 reviews
## 34 https://imdb.com/title/tt2861424/?ref_=chttvtp_t_17 910 reviews
## 35 https://imdb.com/title/tt1533395/?ref_=chttvtp_t_18 12 reviews
## 36 https://imdb.com/title/tt1533395/?ref_=chttvtp_t_18 12 reviews
## 37 https://imdb.com/title/tt8420184/?ref_=chttvtp_t_19 542 reviews
## 38 https://imdb.com/title/tt8420184/?ref_=chttvtp_t_19 542 reviews
## 39 https://imdb.com/title/tt0052520/?ref_=chttvtp_t_20 214 reviews
## 40 https://imdb.com/title/tt0052520/?ref_=chttvtp_t_20 214 reviews
## 41 https://imdb.com/title/tt1877514/?ref_=chttvtp_t_21 175 reviews
## 42 https://imdb.com/title/tt1877514/?ref_=chttvtp_t_21 175 reviews
## 43 https://imdb.com/title/tt1475582/?ref_=chttvtp_t_22 1,098 reviews
## 44 https://imdb.com/title/tt1475582/?ref_=chttvtp_t_22 1,098 reviews
## 45 https://imdb.com/title/tt2560140/?ref_=chttvtp_t_23 2,370 reviews
## 46 https://imdb.com/title/tt2560140/?ref_=chttvtp_t_23 2,370 reviews
## 47 https://imdb.com/title/tt0103359/?ref_=chttvtp_t_24 219 reviews
## 48 https://imdb.com/title/tt0103359/?ref_=chttvtp_t_24 219 reviews
## 49 https://imdb.com/title/tt11126994/?ref_=chttvtp_t_25 2,215 reviews
## 50 https://imdb.com/title/tt11126994/?ref_=chttvtp_t_25 2,215 reviews
## Critic_Reviews Popularity_Rating
## 1 175 20
## 2 175 20
## 3 6 999
## 4 6 999
## 5 10 1,778
## 6 10 1,778
## 7 34 153
## 8 34 153

```

```
## 9      88      146
## 10     88      146
## 11     77      104
## 12     77      104
## 13     57      357
## 14     57      357
## 15       9     4,122
## 16       9     4,122
## 17     93       31
## 18     93       31
## 19     12     1,571
## 20     12     1,571
## 21       8     3,645
## 22       8     3,645
## 23     15     2,401
## 24     15     2,401
## 25    368       16
## 26    368       16
## 27       4     373
## 28       4     373
## 29       5     2,532
## 30       5     2,532
## 31     16     474
## 32     16     474
## 33     94     125
## 34     94     125
## 35       9     3,057
## 36       9     3,057
## 37     28     1,403
## 38     28     1,403
## 39     85     337
## 40     85     337
## 41     13     1,739
## 42     13     1,739
## 43    121     160
## 44    121     160
## 45     64      50
## 46     64      50
## 47     25     463
## 48     25     463
## 49     59       1
## 50     59       1
```

```
#knitr::kable()
```

```
library(kableExtra)
```

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

```
knitr::kable(shows,caption = "Extracting Rating, VoteCount, Episodes, Year and Reviews") %>%
kable_classic(full_width = T, html_font = "Cambria") %>%
kable_styling(font_size = 8)
```

Table 1: Extracting Rating, VoteCount, Episodes, Year and Reviews

Title	Rating	Voters	Episodes	Year	Show_Link	User_Reviews	Critic_Reviews	Popularity	Rating
Breaking Bad	9.5	2.2M	62	2008–2013	https://imdb.com/title/tt0903774/?ref_=chrtp_t_1	5.108 reviews	1037 reviews	20	9.5
Planet Earth II	9.5	163K	6	2016	https://imdb.com/title/tt0903774/?ref_=chrtp_t_1	5.108 reviews	1037 reviews	20	9.5
Planet Earth	9.4	224K	11	2006	https://imdb.com/title/tt5491994/?ref_=chrtp_t_2	3.58 reviews	461 reviews	99	9.4
Band of Brothers	9.4	547K	10	2001	https://imdb.com/title/tt5491994/?ref_=chrtp_t_2	3.58 reviews	461 reviews	99	9.4
Chernobyl	9.3	910K	5	2019	https://imdb.com/title/tt0795176/?ref_=chrtp_t_3	3.11 reviews	151 reviews	77	9.3
The Wire	9.3	392K	60	2002–2008	https://imdb.com/title/tt0795176/?ref_=chrtp_t_3	3.11 reviews	151 reviews	77	9.3
Avatar: The Last Airbender	9.3	391K	62	2005–2008	https://imdb.com/title/tt0185906/?ref_=chrtp_t_4	3.058 reviews	185 reviews	153	9.3
Blue Planet II	9.3	49K	7	2017	https://imdb.com/title/tt0185906/?ref_=chrtp_t_4	3.058 reviews	185 reviews	153	9.3
The Sopranos	9.2	500K	86	1999–2007	https://imdb.com/title/tt7368338/?ref_=chrtp_t_5	3.584 reviews	736 reviews	146	9.2
Cosmos: A Spacetime Odyssey	9.2	132K	13	2014	https://imdb.com/title/tt7368338/?ref_=chrtp_t_5	3.584 reviews	736 reviews	146	9.2
Cosmos	9.3	46K	13	1980	https://imdb.com/title/tt0307414/?ref_=chrtp_t_6	7.87 reviews	307 reviews	104	9.3
Our Planet	9.2	54K	12	2019–2023	https://imdb.com/title/tt0307414/?ref_=chrtp_t_6	7.87 reviews	307 reviews	104	9.2
Game of Thrones	9.2	2.4M	74	2011–2019	https://imdb.com/title/tt0457299/?ref_=chrtp_t_7	3.003 reviews	457 reviews	357	9.2
Bluey	9.3	34K	194	2018–	https://imdb.com/title/tt0457299/?ref_=chrtp_t_7	3.003 reviews	457 reviews	357	9.3
The World at War	9.2	32K	26	1973–1974	https://imdb.com/title/tt6769208/?ref_=chrtp_t_8	5.3 reviews	676 reviews	122	9.2
Fullmetal Alchemist: Brotherhood	9.1	210K	68	2009–2010	https://imdb.com/title/tt6769208/?ref_=chrtp_t_8	5.3 reviews	676 reviews	122	9.1
Rick and Morty	9.1	629K	78	2013–	https://imdb.com/title/tt0141842/?ref_=chrtp_t_9	9.66 reviews	141 reviews	31	9.1
Life	9.1	44K	11	2009	https://imdb.com/title/tt0141842/?ref_=chrtp_t_9	9.66 reviews	141 reviews	31	9.1
The Last Dance	9.0	160K	10	2020	https://imdb.com/title/tt2395695/?ref_=chrtp_t_10	2.05 reviews	239 reviews	571	9.0
The Twilight Zone	9.0	97K	156	1959–1964	https://imdb.com/title/tt2395695/?ref_=chrtp_t_10	2.05 reviews	239 reviews	571	9.0
The Vietnam War	9.1	30K	10	2017	https://imdb.com/title/tt0081846/?ref_=chrtp_t_11	8.0 reviews	81 reviews	344	9.1
Sherlock	9.1	1M	15	2010–2017	https://imdb.com/title/tt0081846/?ref_=chrtp_t_11	8.0 reviews	81 reviews	344	9.1
Attack on Titan	9.1	565K	98	2013–2023	https://imdb.com/title/tt9233866/?ref_=chrtp_t_12	2.45 reviews	923 reviews	401	9.1
Batman: The Animated Series	9.0	123K	85	1992–1995	https://imdb.com/title/tt9233866/?ref_=chrtp_t_12	2.45 reviews	923 reviews	401	9.0
Arcane	9.0	332K	18	2021–2024	https://imdb.com/title/tt0940847/?ref_=chrtp_t_13	5.997 reviews	940 reviews	16	9.0
Breaking Bad	9.5	2.2M	62	2008–2013	https://imdb.com/title/tt0940847/?ref_=chrtp_t_13	5.997 reviews	940 reviews	16	9.5
Planet Earth II	9.5	163K	6	2016	https://imdb.com/title/tt7678620/?ref_=chrtp_t_14	3.69 reviews	767 reviews	373	9.5

Planet Earth	9.4	224K	11	2006	https://imdb.com/title/tt7678620/?ref_=chttp_t_14	369	reviews
Band of Brothers	9.4	547K	10	2001	https://imdb.com/title/tt00751075/?ref_=chttp_t_15	426	reviews
Chernobyl	9.3	910K	5	2019	https://imdb.com/title/tt00751075/?ref_=chttp_t_15	426	reviews
The Wire	9.3	392K	60	2002–2008	https://imdb.com/title/tt1355642/?ref_=chttp_t_16	468	reviews
Avatar: The Last Airbender	9.3	391K	62	2005–2008	https://imdb.com/title/tt1355642/?ref_=chttp_t_16	468	reviews
Blue Planet II	9.3	49K	7	2017	https://imdb.com/title/tt2869424/?ref_=chttp_t_17	910	reviews
The Sopranos	9.2	500K	86	1999–2007	https://imdb.com/title/tt2869424/?ref_=chttp_t_17	910	reviews
Cosmos: A Spacetime Odyssey	9.2	132K	13	2014	https://imdb.com/title/tt1533395/?ref_=chttp_t_18	426	reviews
Cosmos: Our Planet	9.3	46K	13	1980	https://imdb.com/title/tt1533395/?ref_=chttp_t_18	426	reviews
Game of Thrones	9.2	54K	12	2019–2023	https://imdb.com/title/tt842884/?ref_=chttp_t_19	542	reviews
Bluey	9.2	2.4M	74	2011–2019	https://imdb.com/title/tt842884/?ref_=chttp_t_19	542	reviews
The World at War	9.3	34K	194	2018–	https://imdb.com/title/tt0033520/?ref_=chttp_t_20	214	reviews
Fullmetal Alchemist: Brotherhood	9.2	32K	26	1973–1974	https://imdb.com/title/tt0033520/?ref_=chttp_t_20	214	reviews
Rick and Morty	9.1	210K	68	2009–2010	https://imdb.com/title/tt1873514/?ref_=chttp_t_21	475	reviews
Life	9.1	629K	78	2013–	https://imdb.com/title/tt1873514/?ref_=chttp_t_21	475	reviews
The Last Dance	9.1	44K	11	2009	https://imdb.com/title/tt1472582/?ref_=chttp_t_22	609	reviews
The Twilight Zone	9.0	160K	10	2020	https://imdb.com/title/tt1472582/?ref_=chttp_t_22	609	reviews
The Vietnam War	9.0	97K	156	1959–1964	https://imdb.com/title/tt2560140/?ref_=chttp_t_23	237	reviews
Sherlock	9.1	30K	10	2017	https://imdb.com/title/tt2560140/?ref_=chttp_t_23	237	reviews
Attack on Titan	9.1	1M	15	2010–2017	https://imdb.com/title/tt01023359/?ref_=chttp_t_24	219	reviews
Batman: The Animated Series	9.1	565K	98	2013–2023	https://imdb.com/title/tt01023359/?ref_=chttp_t_24	219	reviews
Arcane	9.0	123K	85	1992–1995	https://imdb.com/title/tt11526994/?ref_=chttp_t_25	221	reviews
	9.0	332K	18	2021–2024	https://imdb.com/title/tt11526994/?ref_=chttp_t_25	221	reviews

```
library(kableExtra)

movies <- shows[c(1:5),]

knitr::kable(movies, caption = "IMDB Movies") %>%
kable_classic(full_width = T, html_font = "Arial Narrow") %>%
kable_styling(font_size = 8)
```

Table 2: IMDB Movies

Title	Rating	Voters	Episodes	Year	Show_Link	User_Reviews	Critic_Review	Popularity	Rating
-------	--------	--------	----------	------	-----------	--------------	---------------	------------	--------

Breaking	9.5	2.2M	62	2008–2013	https://imdb.com/title/tt0903754/?ref_=chr_tvp_t_1
Bad					reviews
Planet	9.5	163K	6	2016	https://imdb.com/title/tt0903754/?ref_=chr_tvp_t_1
Earth II					reviews
Planet	9.4	224K	11	2006	https://imdb.com/title/tt5461994/?ref_=chr_tvp_t_2
Earth					reviews
Band of	9.4	547K	10	2001	https://imdb.com/title/tt5461994/?ref_=chr_tvp_t_2
Brothers					reviews
Chernobyl	9.3	910K	5	2019	https://imdb.com/title/tt0795176/?ref_=chr_tvp_t_3
					reviews
