

RWorksheet#5_group(1&9)

GROUP 1&9 BSIT-2B

2023-11-30

##Extracting TV Shows Reviews

1. Each group needs to extract the top 50 tv shows in Imdb.com. It will include the rank, the title of the tv show, tv rating, the number of people who voted, the number of episodes, the year it was released.

```
library(rvest)
```

```
## Warning: package 'rvest' was built under R version 4.3.2
```

```
library(httr)
library(dplyr)
```

```
## Warning: package 'dplyr' was built under R version 4.3.2
```

```
##
## 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)
```

```
## Warning: package 'polite' was built under R version 4.3.2
```

```
library(stringr)
```

```
## Warning: package 'stringr' was built under R version 4.3.2
```

```
polite::use_manners(save_as = 'polite_scrape.R')
```

```
## v Setting active project to 'C:/Users/missy/OneDrive/Documents/Worksheet#5'
```

```
url <- 'https://m.imdb.com/chart/toptv/?ref_=nv_tv_250'
```

```
session <- bow(url, user_agent = "Educational")  
session
```

```
## <polite session> https://m.imdb.com/chart/toptv/?ref_=nv_tv_250  
##   User-agent: Educational  
##   robots.txt: 23 rules are defined for 2 bots  
##   Crawl delay: 5 sec  
##   The path is scrapable for this user-agent
```

```
title_show <- character(0)  
list_year_ep <- character(0)
```

```
title_show <- scrape(session) %>%  
  html_nodes('h3.ipc-title__text') %>%  
  html_text
```

```
title_show_only <- as.data.frame(title_show[2:51])  
title_show_only
```

```
##           title_show[2:51]  
## 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. The World at War  
## 15          15. Rick and Morty  
## 16          16. Bluey  
## 17          17. Fullmetal Alchemist Brotherhood  
## 18          18. The Last Dance  
## 19          19. Life  
## 20          20. The Twilight Zone  
## 21          21. Sherlock  
## 22          22. The Vietnam War  
## 23          23. Batman: The Animated Series  
## 24          24. Attack on Titan  
## 25          25. Scam 1992: The Harshad Mehta Story  
## 26          26. The Office  
## 27          27. Arcane  
## 28          28. The Blue Planet  
## 29          29. Better Call Saul  
## 30          30. Human Planet  
## 31          31. Firefly
```

```
## 32          32. Frozen Planet
## 33          33. Clarkson's Farm
## 34          34. Death Note
## 35          35. Only Fools and Horses....
## 36          36. Hunter x Hunter
## 37          37. The Civil War
## 38          38. True Detective
## 39          39. Seinfeld
## 40          40. The Beatles: Get Back
## 41          41. Dekalog
## 42          42. Sahsiyet
## 43          43. Fargo
## 44          44. Cowboy Bebop
## 45          45. Gravity Falls
## 46          46. Nathan for You
## 47 47. Last Week Tonight with John Oliver
## 48          48. When They See Us
## 49          49. Succession
## 50 50. Apocalypse: La 2ème guerre mondiale
```

```
colnames(title_show_only) <- "Rank"

show_df <- strsplit(as.character(title_show_only$Rank), ".", fixed = TRUE)
show_df <- data.frame(do.call(rbind, show_df))
```

```
## Warning in (function (... , deparse.level = 1) : number of columns of result is
## not a multiple of vector length (arg 1)
```

```
show_df <- show_df[-c(3:5)]

#renaming column 1 and 2
colnames(show_df) <- c("Rank", "Title")

list_year_ep <- scrape(session) %>%
  html_nodes('span.sc-479faa3c-8.bNrEFi.cli-title-metadata-item') %>%
  html_text
years_only <- c()

for (i in seq(1, length(list_year_ep), by = 3)) {
  years_only <- c(years_only, list_year_ep[i])
}
Year <- years_only[1:50]

ep_only <- c()
for (i in seq(2, length(list_year_ep), by = 3)) {
  ep_only <- c(ep_only, list_year_ep[i])
}
Episode <- ep_only[1:50]

df_title_ep <- data.frame(Episode, Year)
```

```

df_title_ep$Year <- gsub("^((\\d{4}).*)", "\\1", df_title_ep$Year)

colnames(df_title_ep) <- c("Number Of Episodes", "Year Released")

list_rating <- scrape(session) %>%
  html_nodes('span.ipc-rating-star.ipc-rating-star--base.ipc-rating-star--imdb.ratingGroup--imdb-rating') %>%
  html_text()

wholeRATING <- as.data.frame(list_rating[1:50])
colnames(wholeRATING) <- "Rating"

wholeRATING$Rating <- gsub("\\s*\\((\\^)+\\)\\s*", "", wholeRATING$Rating)
wholeRATING$Vote_Count <- gsub("\\s*\\((\\^)+\\)", "\\1", list_rating[1:50])

df_rating_vote <- wholeRATING
colnames(df_rating_vote) <- c("Rating", "Vote Count")

final_df <- cbind(show_df, df_rating_vote, df_title_ep )
final_df

```

##	Rank	Title	Rating	Vote Count
## 1	1	Breaking Bad	9.5	2.1M
## 2	2	Planet Earth II	9.5	155K
## 3	3	Planet Earth	9.4	217K
## 4	4	Band of Brothers	9.4	507K
## 5	5	Chernobyl	9.3	834K
## 6	6	The Wire	9.3	366K
## 7	7	Avatar: The Last Airbender	9.3	349K
## 8	8	Blue Planet II	9.3	45K
## 9	9	The Sopranos	9.2	449K
## 10	10	Cosmos: A Spacetime Odyssey	9.3	127K
## 11	11	Cosmos	9.3	43K
## 12	12	Our Planet	9.3	49K
## 13	13	Game of Thrones	9.2	2.2M
## 14	14	The World at War	9.2	28K
## 15	15	Rick and Morty	9.1	580K
## 16	16	Bluey	9.4	22K
## 17	17	Fullmetal Alchemist Brotherhood	9.1	191K
## 18	18	The Last Dance	9.1	145K
## 19	19	Life	9.1	42K
## 20	20	The Twilight Zone	9.1	90K
## 21	21	Sherlock	9.1	976K
## 22	22	The Vietnam War	9.1	27K
## 23	23	Batman: The Animated Series	9.0	113K
## 24	24	Attack on Titan	9.1	475K
## 25	25	Scam 1992: The Harshad Mehta Story	9.3	153K
## 26	26	The Office	9.0	680K
## 27	27	Arcane	9.0	252K
## 28	28	The Blue Planet	9.0	42K
## 29	29	Better Call Saul	9.0	619K
## 30	30	Human Planet	9.0	27K

## 31	31	Firefly	9.0	277K
## 32	32	Frozen Planet	9.0	32K
## 33	33	Clarkson's Farm	9.0	52K
## 34	34	Death Note	8.9	364K
## 35	35	Only Fools and Horses	9.0	55K
## 36	36	Hunter x Hunter	9.0	125K
## 37	37	The Civil War	9.0	18K
## 38	38	True Detective	8.9	617K
## 39	39	Seinfeld	8.9	342K
## 40	40	The Beatles: Get Back	9.0	27K
## 41	41	Dekalog	9.0	27K
## 42	42	Sahsiyet	9.0	45K
## 43	43	Fargo	8.9	396K
## 44	44	Cowboy Bebop	8.9	134K
## 45	45	Gravity Falls	8.9	129K
## 46	46	Nathan for You	8.9	37K
## 47	47	Last Week Tonight with John Oliver	8.9	94K
## 48	48	When They See Us	8.9	134K
## 49	49	Succession	8.9	246K
## 50	50	Apocalypse: La 2ème guerre mondiale	9.0	14K
##	Number Of Episodes Year Released			
## 1	62 eps	2008		
## 2	6 eps	2016		
## 3	11 eps	2006		
## 4	10 eps	2001		
## 5	5 eps	2019		
## 6	60 eps	2002		
## 7	62 eps	2005		
## 8	7 eps	2017		
## 9	86 eps	1999		
## 10	13 eps	2014		
## 11	13 eps	1980		
## 12	12 eps	2019		
## 13	73 eps	2011		
## 14	26 eps	1973		
## 15	74 eps	2013		
## 16	171 eps	2018		
## 17	68 eps	2009		
## 18	10 eps	2020		
## 19	11 eps	2009		
## 20	156 eps	1959		
## 21	15 eps	2010		
## 22	10 eps	2017		
## 23	85 eps	1992		
## 24	98 eps	2013		
## 25	10 eps	2020		
## 26	188 eps	2005		
## 27	10 eps	2021		
## 28	8 eps	2001		
## 29	63 eps	2015		
## 30	8 eps	2011		
## 31	14 eps	2002		
## 32	10 eps	2011		
## 33	18 eps	2021		

## 34	37 eps	2006
## 35	64 eps	1981
## 36	148 eps	2011
## 37	9 eps	1990
## 38	30 eps	2014
## 39	173 eps	1989
## 40	3 eps	2021
## 41	10 eps	1989
## 42	17 eps	2018
## 43	51 eps	2014
## 44	26 eps	1998
## 45	41 eps	2012
## 46	32 eps	2013
## 47	339 eps	2014
## 48	4 eps	2019
## 49	39 eps	2018
## 50	6 eps	2009

From the 50 tv shows, select at least 5 tv shows to scrape the user reviews that will include the reviewer's name, date of reviewed, user rating, title of the review, and text reviews.

```
tv_show_urls <- c(
  "https://www.imdb.com/title/tt0081846/reviews", # COSMOS
  "https://www.imdb.com/title/tt0903747/reviews", # BREAKING BAD
  "https://www.imdb.com/title/tt0185906/reviews", # BAND OF BROTHERS
  "https://www.imdb.com/title/tt7366338/reviews", # CHERNOBYL
  "https://www.imdb.com/title/tt0417299/reviews" # Avatar: The Last Airbender
)

all_shows<-list()

for (url in tv_show_urls) {
  page <- read_html(url)

  reviewers_name <- page %>% html_nodes(".display-name-link") %>% html_text()
  dates <- page %>% html_nodes("span.review-date") %>% html_text()
  user_ratings <- page %>% html_nodes("span.rating-other-user-rating") %>% html_text()
  text_reviews <- page %>% html_nodes("div.text") %>% html_text()

  tvshow_reviews_df <- data.frame(
    Reviewer_Name = reviewers_name[1:25],
    Date = dates[1:25],
    User_Rating = user_ratings[1:25],
    Text_Review = text_reviews[1:25]
  )
  all_shows[[url]] <- tvshow_reviews_df
}

final_reviews_df <- do.call(rbind, all_shows)
colnames(final_reviews_df) <- c("Name", "Date of Review", "User Rating", "Text Reviews")
rownames(final_reviews_df) <- NULL

final_reviews_df
```

##	Name	Date of Review
## 1	khatcher-2	22 February 2004
## 2	Cari-8	22 July 1999
## 3	Steve_Nyland	26 August 2007
## 4	phynigan	19 September 2005
## 5	Cheese-18	27 March 2001
## 6	Matum	8 March 1999
## 7	dlevine	28 July 2004
## 8	sfear	30 September 1998
## 9	sent2null	15 August 2005
## 10	stephen_bounds	6 September 2004
## 11	tcooke-2	24 January 2000
## 12	Tweekums	6 May 2015
## 13	porphyrous	11 January 2005
## 14	graphi	4 November 2006
## 15	timdalton007	8 November 2010
## 16	lee_eisenberg	20 January 2013
## 17	christian94	19 December 2007
## 18	dunmore_ego	21 July 2011
## 19	Stoh80	8 October 2011
## 20	nickenchuggets	9 July 2021
## 21	coasterdude44	25 January 2021
## 22	rmax304823	1 December 2009
## 23	gring0	29 December 2005
## 24	FKDZ	29 June 2022
## 25	Blueghost	22 March 2009
## 26	FiRE010	4 July 2021
## 27	Supermanfan-13	9 November 2021
## 28	TheLittleSongbird	13 November 2017
## 29	KinoKoopakid	30 July 2021
## 30	jehuschultz	19 February 2020
## 31	gogoschka-1	12 January 2014
## 32	bruhperson	7 March 2019
## 33	Leofwine_draca	5 May 2021
## 34	FishDrowned	9 November 2021
## 35	dhanushreddy-14919	18 July 2021
## 36	DiCaprioFan13	9 December 2022
## 37	EVON1TY	3 March 2023
## 38	napierslogs	17 May 2010
## 39	valis1949	26 February 2009
## 40	Leofwine_draca	7 December 2020
## 41	Quinoa1984	8 February 2015
## 42	otnememento-2	21 February 2020
## 43	manishsingh-03299	31 May 2019
## 44	FeastMode	18 August 2019
## 45	alanbenfieldjr	27 June 2017
## 46	lerrom	11 October 2022
## 47	xpinerhd	16 November 2019
## 48	fatcat-73450	3 February 2023
## 49	anthonymichael-93585	29 October 2022
## 50	d_sa	13 October 2019
## 51	rbverhoef	14 February 2003
## 52	philip_vanderveken	17 September 2004
## 53	bsmith5552	6 November 2001

## 54	planktonrules	31 May 2015
## 55	DiCaprioFan13	28 September 2022
## 56	theshape79	5 November 2001
## 57	yodaschoda	24 January 2005
## 58	SnoopyStyle	5 December 2015
## 59	grahamsj3	26 November 2002
## 60	Libretio	4 May 2005
## 61	erwan_ticheler	8 December 2002
## 62	mickman91-1	4 May 2022
## 63	wildcatt268	19 January 2002
## 64	arjay24	19 April 2004
## 65	faded_english_monkey	26 August 2004
## 66	Supermanfan-13	7 May 2022
## 67	TusharViv	2 August 2022
## 68	mhorg2018	6 June 2019
## 69	kipmcmillan	25 October 2018
## 70	bob the moo	7 February 2016
## 71	MovieCriticDave	13 April 2005
## 72	jazmodo	4 June 2019
## 73	paulimiles	25 July 2010
## 74	aucoinandrew	7 June 2020
## 75	<NA>	<NA>
## 76	Leofwine_draca	28 November 2019
## 77	jfirebug	21 May 2019
## 78	ahmetkozan	8 June 2019
## 79	deepfrieddodo	6 September 2022
## 80	EVON1TY	13 March 2023
## 81	emholberg	27 May 2019
## 82	Sleepin_Dragon	2 June 2019
## 83	SnoopyStyle	5 June 2019
## 84	thegltd	7 May 2019
## 85	Lladerat	8 May 2019
## 86	DimitrisPassas-TapTheLine	24 June 2019
## 87	classicsoncall	6 February 2020
## 88	Vivkon	7 May 2019
## 89	justahunch-70549	10 October 2022
## 90	wmeduardowm	7 May 2019
## 91	jazz1	30 May 2019
## 92	gregoryblanch88	31 May 2019
## 93	DiCaprioFan13	28 September 2022
## 94	anyakiss	7 May 2019
## 95	m-porpaczi	15 May 2019
## 96	dannehh	4 June 2019
## 97	raggingbull	14 May 2019
## 98	manga-th	12 May 2019
## 99	claudio_carvalho	6 February 2020
## 100	natashapekar	10 May 2019
## 101	mjplysaght	2 February 2017
## 102	A_Different_Drummer	18 September 2016
## 103	cuzzinman	21 September 2018
## 104	Quinoa1984	16 August 2009
## 105	ericjcant-1	30 October 2005
## 106	KineticSeoul	11 October 2010
## 107	theblackscythe	15 August 2014

## 108	Bluereviews4you	29 July 2020
## 109	BadgerStorm4345	23 May 2020
## 110	TheLittleSongbird	8 August 2010
## 111	Trixie_reviews	3 October 2018
## 112	salinaqvi	13 May 2020
## 113	poseyfan	11 June 2022
## 114	Alex_Hodgkinson	13 April 2014
## 115	joshkej-84077	10 February 2018
## 116	BoxwoodExpress	23 February 2017
## 117	Rectangular_businessman	16 June 2010
## 118	haris_manda	17 June 2011
## 119	MissSimonetta	7 August 2014
## 120	dee.reid	9 August 2006
## 121	EVON1TY	13 March 2023
## 122	purplepoka	25 May 2020
## 123	doomedmac	21 December 2019
## 124	Styrophoamicus	6 August 2006
## 125	antonwaas	29 January 2018
##	User	Rating
## 1	\n	9/10\n
## 2	\n	10/10\n
## 3	\n	10/10\n
## 4	\n	10/10\n
## 5	\n	10/10\n
## 6	\n	10/10\n
## 7	\n	10/10\n
## 8	\n	10/10\n
## 9	\n	10/10\n
## 10	\n	10/10\n
## 11	\n	10/10\n
## 12	\n	10/10\n
## 13	\n	10/10\n
## 14	\n	10/10\n
## 15	\n	9/10\n
## 16	\n	10/10\n
## 17	\n	10/10\n
## 18	\n	10/10\n
## 19	\n	9/10\n
## 20	\n	9/10\n
## 21	\n	9/10\n
## 22		<NA>
## 23		<NA>
## 24		<NA>
## 25		<NA>
## 26	\n	10/10\n
## 27	\n	10/10\n
## 28	\n	10/10\n
## 29	\n	10/10\n
## 30	\n	10/10\n
## 31	\n	10/10\n
## 32	\n	10/10\n
## 33	\n	10/10\n
## 34	\n	10/10\n
## 35	\n	10/10\n

## 36	\n	10/10\n	
## 37	\n	10/10\n	
## 38	\n	10/10\n	
## 39	\n	10/10\n	
## 40	\n	10/10\n	
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## 42	\n	10/10\n	
## 43	\n	10/10\n	
## 44	\n	10/10\n	
## 45	\n	10/10\n	
## 46	\n	10/10\n	
## 47	\n	10/10\n	
## 48	\n	10/10\n	
## 49	\n	10/10\n	
## 50	\n	10/10\n	
## 51	\n	10/10\n	
## 52	\n	10/10\n	
## 53	\n	10/10\n	
## 54	\n	10/10\n	
## 55	\n	10/10\n	
## 56	\n	10/10\n	
## 57	\n	10/10\n	
## 58	\n	10/10\n	
## 59	\n	10/10\n	
## 60	\n	9/10\n	
## 61	\n	10/10\n	
## 62	\n	10/10\n	
## 63	\n	10/10\n	
## 64	\n	10/10\n	
## 65	\n	10/10\n	
## 66	\n	10/10\n	
## 67	\n	10/10\n	
## 68	\n	10/10\n	
## 69	\n	10/10\n	
## 70	\n	10/10\n	
## 71	\n	10/10\n	
## 72			<NA>
## 73			<NA>
## 74			<NA>
## 75			<NA>
## 76	\n	10/10\n	
## 77	\n	10/10\n	
## 78	\n	10/10\n	
## 79	\n	10/10\n	
## 80	\n	10/10\n	
## 81	\n	9/10\n	
## 82	\n	10/10\n	
## 83	\n	9/10\n	
## 84	\n	10/10\n	
## 85	\n	10/10\n	
## 86	\n	10/10\n	
## 87	\n	10/10\n	
## 88	\n	10/10\n	
## 89	\n	10/10\n	

```

## 90  \n          10/10\n
## 91  \n          10/10\n
## 92  \n          10/10\n
## 93  \n          9/10\n
## 94  \n          9/10\n
## 95  \n          10/10\n
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## 99  \n          9/10\n
## 100 \n          10/10\n
## 101 \n          10/10\n
## 102 \n          10/10\n
## 103 \n          10/10\n
## 104 \n          10/10\n
## 105 \n          10/10\n
## 106 \n          10/10\n
## 107 \n          10/10\n
## 108 \n          10/10\n
## 109 \n          10/10\n
## 110 \n          10/10\n
## 111 \n          10/10\n
## 112 \n          10/10\n
## 113 \n          10/10\n
## 114 \n          10/10\n
## 115 \n          10/10\n
## 116 \n          10/10\n
## 117 \n          10/10\n
## 118 \n          10/10\n
## 119 \n          10/10\n
## 120 \n          10/10\n
## 121 \n          9/10\n
## 122 \n          10/10\n
## 123 \n          10/10\n
## 124 \n          10/10\n
## 125 \n          10/10\n
##
## 1
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## 3
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```

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19
20 Imagine if you will a tv series that manages to seamlessly combine elements of humor, fear, sadn
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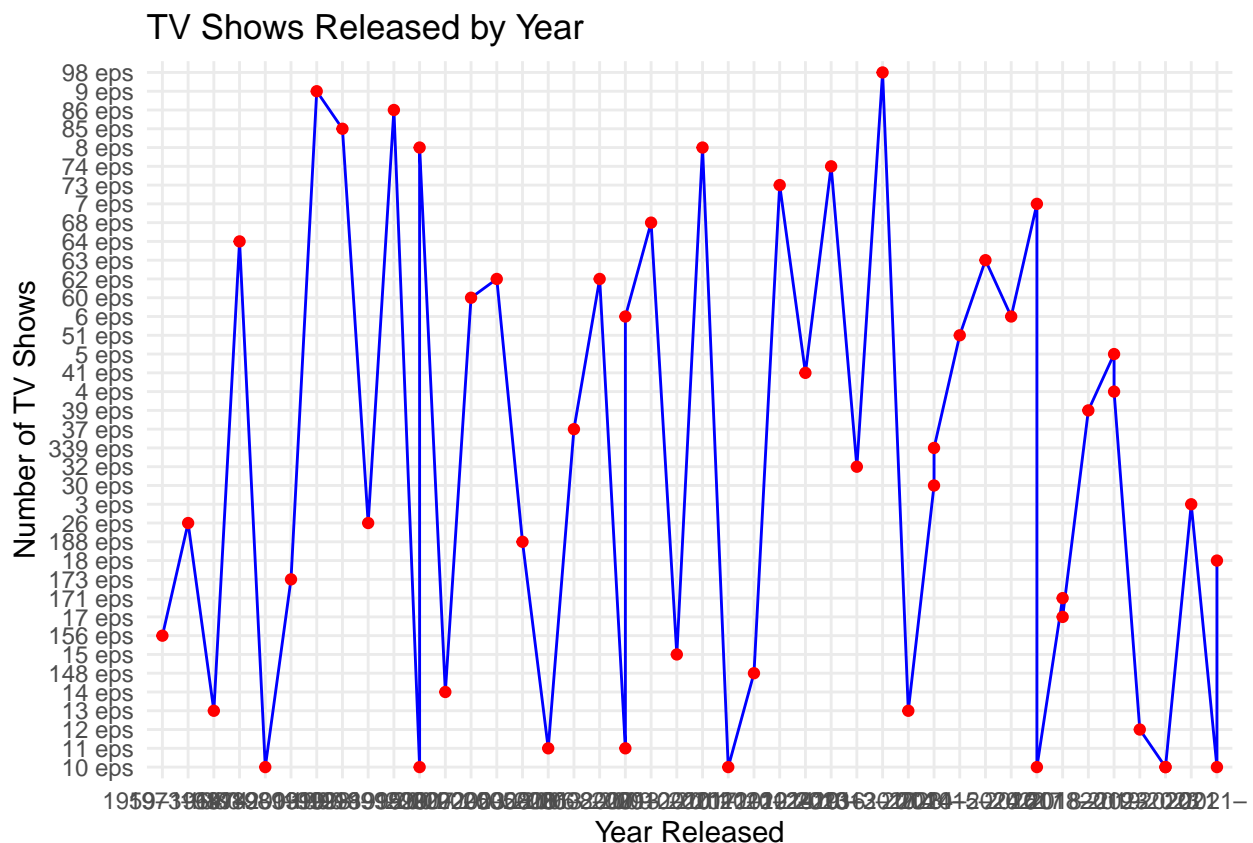
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3. Create a time series graph for the tv shows released by year. Which year has the most number of tv shows released?

```
library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 4.3.2
```

```
ggplot(final_df, aes(x = Year, y = Episode, group = 1)) +  
  geom_line(color = "blue") +  
  geom_point(color = "red") +  
  labs(title = "TV Shows Released by Year",  
        x = "Year Released",  
        y = "Number of TV Shows") +  
  theme_minimal()
```



4. Select 3 products from Amazon of the same category. Extract the price, description, ratings and reviews of each product.

```
url<-"https://www.amazon.com/s?k=tee+back+tank+tops&crid=10B1A9SM5CVRK&srefix=%2Caps%2C456&ref=nb_sb_s  
session<-bow(url, user_agent = "Educational")  
session
```

```
## <polite session> https://www.amazon.com/s?k=tee+back+tank+tops&crid=10B1A9SM5CVRK&srefix=%2Caps%2C4
```

```
##      User-agent: Educational
##      robots.txt: 154 rules are defined for 4 bots
##      Crawl delay: 5 sec
##      The path is scrapable for this user-agent
```

```
prices<- character(0)
ratings<- character(0)

prices<-scrape(session)%>%
  html_nodes('span.a-price-whole')%>%
  html_text

ratings<-scrape(session)%>%
  html_nodes('span.a-icon-alt')%>%
  html_text

prices_ratings<-data.frame(prices[2:4],
                           ratings[2:4]

                           )

colnames(prices_ratings) <- c("Price", "Overall Rating");

teeback_urls<-c(
  "https://www.amazon.com/TELALEO-Athletic-Racerback-Activewear-Sleeveless/dp/B08T1Z7FP1/ref=sr_1_5?cri
  "https://www.amazon.com/Aeuui-Workout-Racerback-Shirts-Clothes/dp/B088CYZNKS/ref=sr_1_6?crid=10B1A9SM
  "https://www.amazon.com/SOLY-HUX-Womens-Sleeveless-Shirts/dp/B0BYD8H1DZ/ref=sr_1_8?crid=10B1A9SM5CVRK
)

all_reviews<-list()

for(url in teeback_urls){
  page<-read_html(url)

  user_comment<-page%>%html_nodes('span.a-size-base.review-text')%>%
    html_text()

  user_descr<-page%>%html_nodes('span.a-list-item.a-size-base.a-color-base')%>%
    html_text()

  user_comment_cleaned <- str_trim(user_comment[2:4])

  reviews.df<-data.frame(user_comment_cleaned,
                          user_descr[2:4])
  all_reviews[[url]]<-reviews.df

}

colnames(reviews.df)<-c("Product Review", "Product Description")

do.call(rbind, reviews.df)
```

```
##           [,1]
## Product Review "This is really cute on. The pink is pretty. Soft fabric. Wore a cross back sport
## Product Description "Fabric: Made of soft and lightweight fabric, slight stretch, comfortable to wear
##           [,2]
## Product Review "This shirt appears well made, and it's pretty. But I'd size up twice. I bought a
## Product Description "Feature: Sleeveless, round neck, criss cross, solid color, fashion tank top for
##           [,3]
## Product Review "It's like a bathing suit tried to have a baby with an XXS tank top on top but a
## Product Description "Size recommendation: Please refer to size chart which we provide in our photos
```

```
View(reviews.df)
```

```
final_amazon_scrape<-cbind(prices_ratings,reviews.df)
final_amazon_scrape
```

```
##   Price   Overall Rating
## 1   40. 4.4 out of 5 stars
## 2   17. 4.5 out of 5 stars
## 3   28. 4.2 out of 5 stars
##
## 1
## 2 This shirt appears well made, and it's pretty. But I'd size up twice. I bought a large, and it's s
## 3
##
## 1                                     Fabric: Made of soft and lightweight
## 2           Feature: Sleeveless, round neck, criss cross, solid color, fashion tank top for women,
## 3 Size recommendation: Please refer to size chart which we provide in our photos (The product measur
```