Assignment 0

2025-01-31

summary(netflix_data)

```
##
                                                                   director
      show_id
                            type
                                                title
##
    Length:8807
                        Length:8807
                                             Length:8807
                                                                 Length:8807
##
    Class : character
                        Class : character
                                             Class : character
                                                                 Class : character
##
    Mode :character
                        Mode :character
                                             Mode : character
                                                                 Mode :character
##
##
##
##
                                             date_added
        cast
                          country
                                                                  release_year
##
    Length:8807
                        Length:8807
                                             Length:8807
                                                                 Min.
                                                                         :1925
##
    Class : character
                        Class : character
                                             Class : character
                                                                 1st Qu.:2013
    Mode :character
                        Mode : character
                                             Mode :character
                                                                 Median:2017
##
                                                                         :2014
                                                                 Mean
                                                                 3rd Qu.:2019
##
##
                                                                 Max.
                                                                         :2021
       rating
##
                          duration
                                             listed in
                                                                 description
##
    Length:8807
                        Length:8807
                                             Length:8807
                                                                 Length:8807
                                                                 Class : character
##
    Class : character
                        Class : character
                                             Class : character
##
    Mode :character
                        Mode : character
                                             Mode :character
                                                                 Mode : character
##
##
##
```

glimpse(netflix_data)

```
## Rows: 8,807
## Columns: 12
                  <chr> "s1", "s2", "s3", "s4", "s5", "s6", "s7", "s8", "s9", "s1~
## $ show id
## $ type
                  <chr> "Movie", "TV Show", "TV Show", "TV Show", "TV Show", "TV ~
                  <chr> "Dick Johnson Is Dead", "Blood & Water", "Ganglands", "Ja~
## $ title
                  <chr> "Kirsten Johnson", NA, "Julien Leclercq", NA, NA, "Mike F~
## $ director
## $ cast
                  <chr> NA, "Ama Qamata, Khosi Ngema, Gail Mabalane, Thabang Mola~
                  <chr> "United States", "South Africa", NA, NA, "India", NA, NA,~
## $ country
## $ date_added
                  <chr> "September 25, 2021", "September 24, 2021", "September 24~
## $ release_year <dbl> 2020, 2021, 2021, 2021, 2021, 2021, 2021, 1993, 2021, 202~
## $ rating
                  <chr> "PG-13", "TV-MA", "TV-MA", "TV-MA", "TV-MA", "TV-MA", "PG~
                  <chr> "90 min", "2 Seasons", "1 Season", "1 Season", "2 Seasons~
## $ duration
## $ listed_in
                  <chr> "Documentaries", "International TV Shows, TV Dramas, TV M~
## $ description
                  <chr> "As her father nears the end of his life, filmmaker Kirst~
```

we can see our data set has 8 thousand rows, including 12 columns, all of this describing the type, title, director, cast, etc of a movie

colSums(is.na(netflix_data))

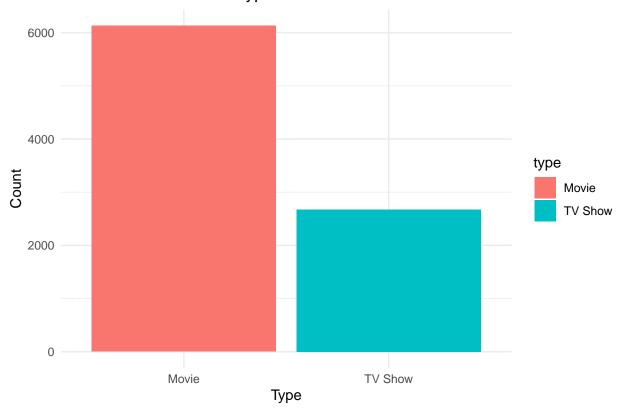
```
##
        show_id
                          type
                                       title
                                                  director
                                                                    cast
                                                                               country
##
                                           0
                                                      2634
                                                                     825
                                                                                   831
##
     date added release year
                                      rating
                                                  duration
                                                               listed in
                                                                          description
##
              10
                                           4
                                                         3
```

checking to look for NA's in our data set

```
netflix_data$director[is.na(netflix_data$director)] <- "none"
netflix_data$cast[is.na(netflix_data$cast)] <- "none"
netflix_data$country[is.na(netflix_data$country)] <- "none"</pre>
```

fill in those NA's with none values

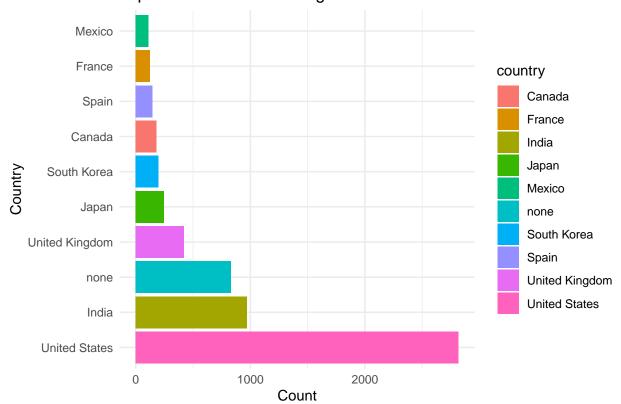
Distribution of Content Type on Netflix



Creating a ggplot to see which type of Netflix content is movies or tv-shows where we can see the majority of our data sets are movies, more than tv-shows made

```
netflix_data %>%
  group_by(country) %>%
  summarise(count = n()) %>%
  arrange(desc(count)) %>%
  head(10) %>%
  ggplot(aes(x = reorder(country, -count), y = count, fill = country)) +
  geom_bar(stat = "identity") +
  coord_flip() +
  theme_minimal() +
  labs(title = "Top 10 Content-Producing Countries", x = "Country", y = "Count")
```

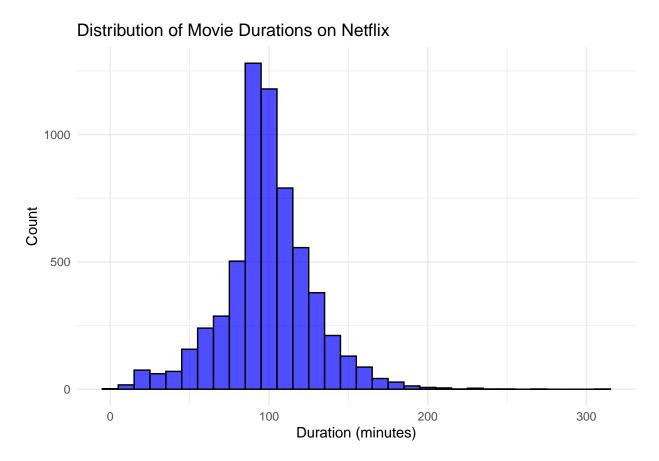
Top 10 Content-Producing Countries



we notice our top countries with the most content being generated being the US, India, UK, Japan, South Korea, Canada, Spain, France and Mexico. I notice we still have some Na's to fill but these are our top countries making the most content for Netflix so far.

Warning: Removed 3 rows containing non-finite outside the scale range

('stat_bin()').



After converting Duration as numeric and only focusing on Movies I see that the majority of our movies duration are in the average of 100 minutes for most of our content.