

Netflix im Wandel der Zeit

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Tibble modifizieren (1)

unser Datensatz (die interessanten Variablen):

```
## # A tibble: 12,187 x 4
##   Title                                year Genre                country
##   <chr>                                <int> <chr>                <chr>
## 1 Lets Fight Ghost                    2008 Crime, Drama, F- Thailand
## 2 ANNE+                               2016 Drama              Belgium,Netherlands
## 3 Moxie                               2011 Animation, Shor- Lithuania,Poland,France,Ic-
## 4 Gleboka woda                        2011 Drama              Poland
## 5 Instynkt                            2011 Crime              Poland
## 6 Snowroller                          1985 Comedy              Lithuania,Poland,France,It-
## 7 Sunes Summer                        2018 Comedy, Family,- Lithuania,Poland,France,It-
## 8 The Invisible                       2007 Crime, Drama, F- Lithuania,Poland,France,It-
## 9 The Simple Minded Murderer          1985 Drama              Lithuania,Poland,France,It-
## 10 The Stig-Helmer Story               2011 Comedy, Drama      Lithuania,Poland,France,It-
## # ... with 12,177 more rows
```

Tibble modifizieren (2)

year und Title sind nur zusammen eindeutig

```
## # A tibble: 2 x 3
##   Title                                year `Series or Movie`
##   <chr>                             <int> <chr>
## 1 Cloudy with a Chance of Meatballs 2017 Series
## 2 Cloudy with a Chance of Meatballs 2009 Movie
```

Tibble modifizieren (3)

leider gibt es Duplikate:

```
data %>%  
  count(Title, year)%>%  
  filter(n>1)
```

```
## # A tibble: 150 x 3  
##   Title                                year    n  
##   <chr>                             <int> <int>  
## 1 A Bride for Rip Van Winkle        2016     2  
## 2 A Love So Beautiful                2017     2  
## 3 A Perfect Day                     2016     2  
## 4 About Time                        2013     2  
## 5 Aftermath                         2017     2  
## 6 Aliens                             1986     2  
## 7 Alone                             2008     2  
## 8 Anastasia                         1997     2  
## 9 Anohana: The Flower We Saw That Day 2011     2  
## 10 Another                          2012     2  
## # ... with 140 more rows
```

Tibble modifizieren (4)

das sind diejenigen Filme, die mehrmals auf Netflix releast wurden

```
## # A tibble: 2 x 4
##   Title      year Genre      country
##   <chr>      <int> <chr>      <chr>
## 1 A Perfect Day  2016 Comedy, Drama, War Italy
## 2 A Perfect Day  2016 Comedy, Drama, War Romania,Poland
```

Lösung:

```
data %>%
  filter(Title == "A Perfect Day") %>%
  select(Title, year, country)%>%
  separate_rows(country, sep = ",")%>%
  distinct(.keep_all = TRUE)
```

```
## # A tibble: 3 x 3
##   Title      year country
##   <chr>      <int> <chr>
## 1 A Perfect Day  2016 Italy
## 2 A Perfect Day  2016 Romania
## 3 A Perfect Day  2016 Poland
```

Tibble modifizieren (5)

selbiges auch mit Genre

```
## # A tibble: 3 x 3
##   Title          year country
##   <chr>         <int> <chr>
## 1 A Perfect Day  2016 Italy
## 2 A Perfect Day  2016 Romania
## 3 A Perfect Day  2016 Poland

## # A tibble: 3 x 3
##   Title          year Genre
##   <chr>         <int> <chr>
## 1 A Perfect Day  2016 Comedy
## 2 A Perfect Day  2016 Drama
## 3 A Perfect Day  2016 War
```

diese beiden Tibbles werden jetzt an Title, year gejoint

Tibble modifizieren (6)

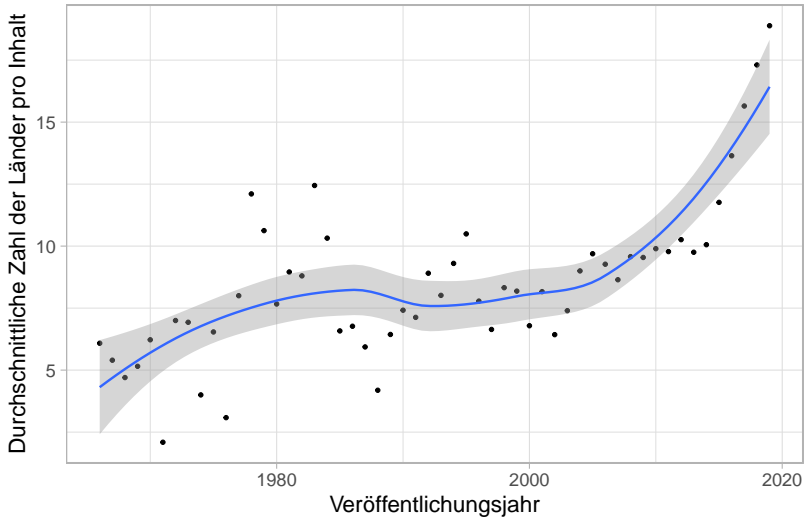
```
data_tidy <- full_join(countries, genres, by = c("year", "Title"))
data_tidy
```

```
## # A tibble: 9 x 4
##   Title          year country Genre
##   <chr>         <int> <chr>  <chr>
## 1 A Perfect Day  2016 Italy   Comedy
## 2 A Perfect Day  2016 Italy   Drama
## 3 A Perfect Day  2016 Italy   War
## 4 A Perfect Day  2016 Romania Comedy
## 5 A Perfect Day  2016 Romania Drama
## 6 A Perfect Day  2016 Romania War
## 7 A Perfect Day  2016 Poland Comedy
## 8 A Perfect Day  2016 Poland Drama
## 9 A Perfect Day  2016 Poland War
```

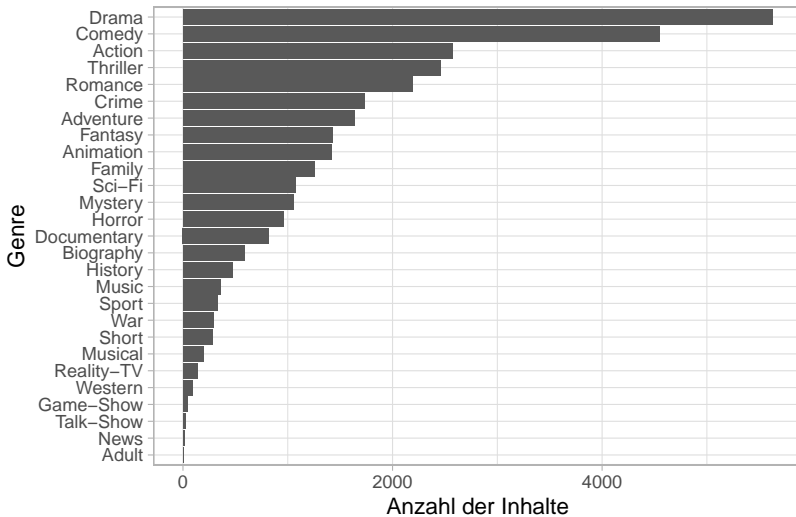
```
data_tidy %>%
  group_by(Title, year, country) %>%
  summarise(Genre = paste(Genre, collapse = ", ")) %>%
  group_by(Title, year, Genre) %>%
  summarise(country = paste(country, collapse = ", ")) %>%
  ungroup()
```

```
## # A tibble: 1 x 4
##   Title          year Genre          country
##   <chr>         <int> <chr>        <chr>
## 1 A Perfect Day  2016 Comedy, Drama, War Italy, Poland, Romania
```

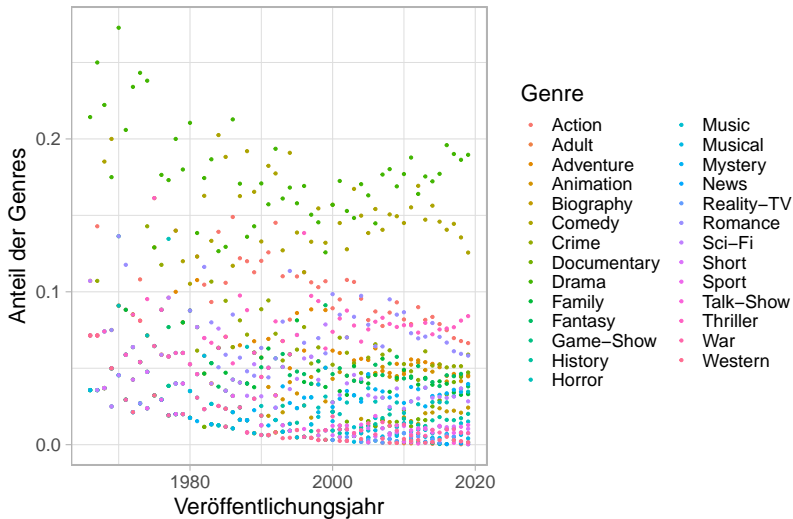
Internationalität im zeitlichen Verlauf



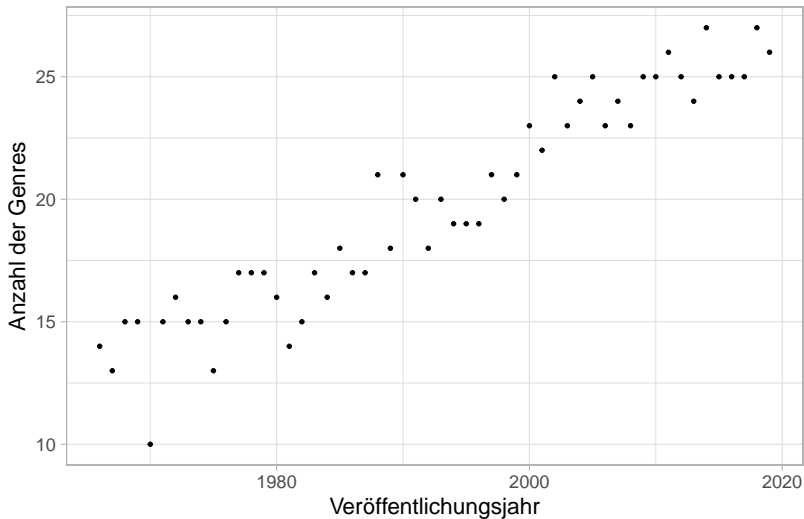
Ranking der Genres



Anteil der verfügbaren Genres nach Veröffentlichungsjahr



Anzahl der Genres nach Veröffentlichungsjahr



Anzahl der Genres nach Veröffentlichungsjahr

