Wei's Netflix Circle

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Background

A brief data analyis of my boyfriend (Wei)'s Netflix watch history compared to his sister's, his parents', and his friend's.

Wei has always been into films, movies, shows, etc., so I aimed to put together a graph highlighting how much more things he watches on netflix on average than people in his circle.

I would like to thank my friend Taylor Blair, whose project on the difference in frequencies of watching Netflix between her sister and her inspired this project of mine.

Loading Libraries and Data

```
library(tidyverse)
library(openair)
library(readr)

wei_history <- read_csv("~/Desktop/R/NetflixViewingHistory.csv")
isa_history <- read_csv("~/Desktop/R/NetflixViewingHistory-2.csv")
parent_history <- read_csv("~/Desktop/R/ParentNetflixHistory.csv")
friend_history <- read_csv("~/Desktop/R/FriendNetflixHistory.csv")</pre>
```

Data Prep

As can be seen above, the initial dataset contains only two variables.

Date fixing

```
wei_history$Date <- as.Date(wei_history$Date,"%m/%d/%y")
isa_history$Date <- as.Date(isa_history$Date,"%m/%d/%y")
parent_history$Date <- as.Date(parent_history$Date,"%m/%d/%y")
friend_history$Date <- as.Date(friend_history$Date,"%m/%d/%y")</pre>
```

Movie or TV series

```
wei_history$type <- grepl(":", wei_history$Title)
wei_history$type <- wei_history$type %>%
  replace(wei_history$type==TRUE, "TV Series") %>%
  replace(wei_history$type==FALSE, "Movie")
```

```
isa_history$type <- grepl(":", isa_history$Title)
isa_history$type <- isa_history$type %>%
    replace(isa_history$type==TRUE, "TV Series") %>%
    replace(isa_history$type==FALSE, "Movie")
parent_history$type <- grepl(":", parent_history$Title)
parent_history$type <- parent_history$type %>%
    replace(parent_history$type==TRUE, "TV Series") %>%
    replace(parent_history$type==FALSE, "Movie")
friend_history$type <- grepl(":", friend_history$Title)
friend_history$type <- friend_history$type %>%
    replace(friend_history$type==TRUE, "TV Series") %>%
    replace(friend_history$type==FALSE, "Movie")
```

Series, Season and episode

Day of Week

Outputted Tibble

```
sample_n(wei_history, 4)
## # A tibble: 4 x 6
##
     Series
                                         Episode
                      Season
                                                          Date
                                                                      type
                                                                                 day
##
     <chr>>
                      <chr>>
                                         <chr>
                                                          <date>
                                                                      <chr>
                                                                                 <fct>
## 1 BoJack Horseman Season 2
                                         Still Broken
                                                          2019-02-01 TV Series Friday
## 2 DEATH NOTE
                      Death Note
                                         Glare
                                                          2022-05-05 TV Series Thursd~
## 3 Paradise PD
                      Part 1
                                         Ass on the Line 2018-09-03 TV Series Monday
## 4 Spartacus
                      Gods of the Arena The Bitter End 2018-01-05 TV Series Friday
#Compare dataset
wei_history$individual <- "Wei"</pre>
isa_history$individual <- "Isa"</pre>
friend_history$individual <- "Parent"</pre>
parent_history$individual <- "Friend"</pre>
merged <- rbind(wei_history, isa_history, parent_history, friend_history)</pre>
```

Numerical analysis

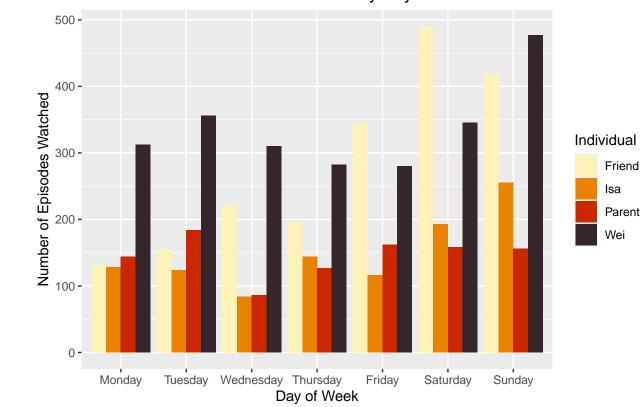
Binge Watching

Everyone has binged watched Netflix at some point during 2021, unfortunately:(.

Graphical Analysis

```
ggplot(merged, aes(x = day, fill=individual) ) +
  geom_bar(position = "dodge") +
  labs(title = "Wei's circle: Netflix Shows Watched by Day") +
  scale_fill_manual("Individual", values=c("#fdf2b8","#e88200", "#cb2800", "#34262b")) +
  xlab("Day of Week") +
  ylab("Number of Episodes Watched")
```





A Calander of Events

2021 was a unique year, with Wei going to college in September, so it's weird that he might have watched more Netflix then....

Netflix Episodes watched in 2021

```
January-2021
                    ebruary-2021
                                         April-2021
                                                             May-2021
                    30 31 1 2 3 4 5
26 27 28 29 30 31 1
                                        27 28 29 30 31 1 2
                                                            24 25 26 27 28 29 30
                                                                                   40
                                                            1 2 3 4 5 6 7
2 3 4 5 6 7 8
                    6 7 8 9 10 11 12
                                        3 4 5 6 7 8 9
9 10 11 12 13 14 15
                    13 14 15 16 17 18 19
                                        10 11 12 13 14 15 16
                                                            8 9 10 11 12 13 14
16 17 18 19 20 21 22
                    20 21 22 23 24 25 26
                                        17 18 19 20 21 22 23
                                                            15 16 17 18 19 20 21
                                                                                   35
23 24 25 26 27 28 29
                                        24 25 26 27 28 29 30
                                                            22 23 24 25 26 27 28
                    27 28 1 2 3 4 5
                                                            29 30 31 1 2 3 4
30 31 1 2 3 4 5
                    6 7 8 9 10 11 12
                                        1 2 3 4 5 6 7
                                                                                   30
SSMTWTF
                    SSMTWTF
                                        SSMTWTF
                                                            SSMTWTF
                     July-2021
                                        August-2021
                                                           eptember-202
 June-2021
29 30 31 1 2 3 4
                    26 27 28 29 30 1 2
                                        31 1 2 3 4 5 6
                                                           28 29 30 31 1 2 3
                                                                                   25
5 6 7 8 9 10 11
                    3 4 5 6 7 8 9
                                        7 8 9 10 11 12 13
                                                            4 5 6 7 8 9 10
12 13 14 15 16 17 18
                    10 11 12 13 14 15 16
                                        14 15 16 17 18 19 20
                                                           11 12 13 14 15 16 17
19 20 21 22 23 24 25
                                        21 22 23 24 25 26 27
                                                            18 19 20 21 22 23 24
                    17 18 19 20 21 22 23
                                                                                   20
26 27 <mark>28</mark> 29 30 1 2
                    24 25 <mark>26 27</mark> 28 <mark>29</mark> 30
                                        28 29 30 31 1 2 3
                                                           25 26 27 28 29 30 1
                                                            2 3 4 5 6 7 8
3 4 5 6 7 8 9
                    31 1 2 3 4 5 6
                                        4 5 6 7 8 9 10
                                                                                   15
SSMTWTF
                    SSMTWTF
                                        SSMTWTF
                                                            SSMTWTF
October-2021
                    ovember-202
                                        ecember-202
                                        27 28 29 30 1 2 3
 25 26 27 28 29 30 1
                    30 31 1 2 3 4 5
                                                                                   10
2 3 4 5 6 7 8
                    6 7 8 9 10 11 12
                                        4 5 6 7 8 9 10
9 10 11 12 13 14 15
                    13 14 15 16 17 18 19
                                        11 12 13 14 15 16 17
16 17 18 <mark>19</mark> 20 21 22
                    20 21 22 23 24 25 26
                                        18 19 20 21 22 23 24
                                                                                   5
23 24 25 26 27 28 29
                    27 28 29 30 1 2 3
                                        25 26 27 28 29 30 31
                                        1 2 3 4 5 6 7
30 31 1 2 3 4 5
                    4 5 6 7 8 9 10
SSMTWTF
                    SSMTWTF
                                        SSMTWTF
isa_history %>%
  group_by(Date) %>%
  summarise(count = n()) %>%
  rename(date=Date) %>%
  calendarPlot(pollutant = "count",
                 year = 2021,
                 month = c(1:12))
```

```
January-2021
                   February-2021
                                        April-2021
                                                            May-2021
26 27 28 29 30 31 1
                   30 31 1 2 3 4 5
                                       27 28 29 30 31 1 2
                                                          24 25 26 27 28 29 30
                                                                                 12
2 3 4 5 6 7 8
                    6 7 8 9 10 11 12
                                       3 4 5 6 7 8 9
                                                           1 2 3 4 5 6 7
9 10 11 12 13 14 15
                   13 14 15 16 17 18 19
                                       10 11 12 13 14 15 16
                                                           8 9 10 11 12 13 14
16 17 18 19 20 21 22
                   20 21 22 23 24 25 26
                                       17 18 19 20 21 22 23
                                                           15 16 17 18 19 20 <mark>21</mark>
                                                          22 23 24 25 26 27 28
23 24 25 26 27 28 29
                   27 28 1 2 3 4 5
                                       24 25 26 27 28 29 30
                                                                                 10
30 31 1 2 3 4 5
                   6 7 8 9 10 11 12
                                       1 2 3 4 5 6 7
                                                          29 30 31 1 2 3 4
SSMTWTF
                    SSMTWTF
                                       SSMTWTF
                                                           SSMTWTF
                                       August-2021
                      July-2021
 June-2021
                                                          October-2021
                                                                                 8
29 30 31 1 2 3 4
                   26 27 28 29 30 1 2
                                       31 1 2 3 4 5 6
                                                          25 26 27 28 29 30 1
5 6 7 8 9 10 11
                    3 4 5 6 7 8 9
                                       7 8 9 10 11 12 13
                                                           2 3 4 5 6 7 8
12 13 14 15 16 17 18
                                       14 15 16 17 18 19 20
                   10 11 12 13 14 15 16
                                                           9 10 11 12 13 14 15
                                       21 22 23 24 25 26 27
19 20 21 22 23 24 25
                   17 18 19 20 21 22 23
                                                           16 17 18 19 20 21 22
                                                                                 6
26 27 28 29 30 1 2
                   24 25 26 27 28 29 30
                                       28 29 30 31 1 2 3
                                                          23 24 25 26 27 28 29
3 4 5 6 7 8 9
                   31 1 2 3 4 5 6
                                       4 5 6 7 8 9 10
                                                          30 31 1 2 3 4 5
SSMTWTF
                    SSMTWTF
                                       SSMTWTF
                                                           SSMTWTF
lovember-2021
                   ecember-2021
                                                                                 4
30 31 1 2 3 4 5
                   27 28 29 30 1 2 3
6 7 8 9 10 11 12
                    4 5 6 7 8 9 10
13 14 15 16 17 18 19
                   11 12 13 14 15 16 17
20 21 22 23 24 25 26
                   18 19 20 21 22 23 24
                                                                                 2
27 28 29 30 1 2 3
                   25 26 27 28 29 30 31
4 5 6 7 8 9 10
                   1 2 3 4 5 6 7
SSMTWTF
                    SSMTWTF
parent_history %>%
  group_by(Date) %>%
  summarise(count = n()) %>%
  rename(date=Date) %>%
  calendarPlot(pollutant = "count",
               year = 2021,
               month = c(1:12)
```

