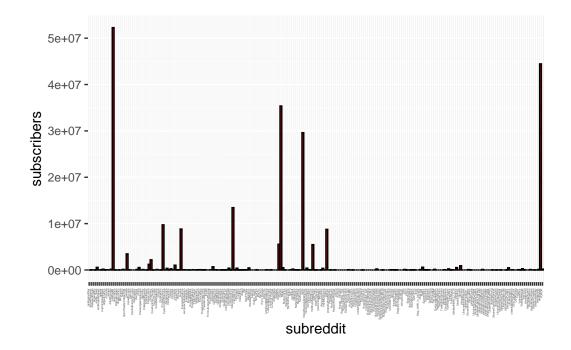
## Assignment 2622

## Sagnik Chakravarty

## **Find Subreddits**

```
war_sub_df <- find_subreddits("Russia Ukraine")</pre>
parsing URLs on page 1...
parsing URLs on page 2...
parsing URLs on page 3...
  war_sub_df <- data.frame(war_sub_df)</pre>
  war_sub_df_clean <- war_sub_df %>%
    select(subreddit,
            title,
            description,
            subscribers,
            date_utc)
  war_sub_df_clean$date_utc <- as.Date(war_sub_df_clean$date_utc)</pre>
  rownames(war_sub_df_clean) <- 1:nrow(war_sub_df_clean)</pre>
  str(head(war_sub_df_clean, 1))
'data.frame': 1 obs. of 5 variables:
 $ subreddit : chr "IrelandPics"
          : chr "Poblacht na hÉireann"
 $ description: chr "A subreddit for photos of Ireland!\n\nMember of the /r/NationalPhotoSub
 $ subscribers: num 9071
 $ date_utc : Date, format: "2015-01-22"
```



```
desc_clean <- function(x){</pre>
  tk <- tibble(line = 1, text = x)</pre>
  tk <- tk %>%
    unnest_tokens(word, text) %>%
    anti_join(stop_words)
  return(tolower(str_c(tk$word, collapse = ' ')))
war_sub_df_clean <- war_sub_df_clean %>%
  rowwise() %>%
  mutate(cleaned_description = desc_clean(description)) %>%
  select(-description) %>%
  ungroup()
check_war <- function(x){</pre>
  keywords <- c('Zelensky',</pre>
                 'Putin',
                 'Trump',
                 'USA',
                 'United States',
                 'America',
                 'Russia Ukriane',
                 'War',
                 'Minerals Deal',
                 'Ceasefire',
                 'Security'
  pattern <- paste0("\\b(", paste(keywords, collapse = "|"), ")\\b")</pre>
  any(str_detect(x, pattern = pattern))
war_sub_df_clean <- war_sub_df_clean %>%
  rowwise() %>%
  mutate(war_related = if_else(check_war(cleaned_description), TRUE, FALSE)) %>%
  ungroup()
subreddit_df <- war_sub_df_clean %>%
  filter(war_related == TRUE) %>%
  arrange(desc(subscribers)) %>%
  head(n=4)
```

Table 1: Subreddits Related to Ukraine Russia War

 ${
m subreddit} \hspace{1cm} {
m title} \hspace{1cm} {
m subscribers} \hspace{1cm} {
m date\_utc}$ 

subreddit

subscribers