

R Notebook

This is an R Markdown (<http://rmarkdown.rstudio.com>) Notebook. When you execute code within the notebook, the results appear beneath the code.

Try executing this chunk by clicking the Run button within the chunk or by placing your cursor inside it and pressing Cmd+Shift+Enter.

The first part that I want to know whether the gender and marriage status ("single"&"married") will influence the text, words that related to their happy moment. I will use the wordcloud and heatmap to visualize the relationship.

step 0 : Load the needed library

```
## [1] "R version 3.5.2 (2018-12-20)"
```

step 1 : Load data

prepared the data

Data cleaning

We are going to see what the description of the data and then clean the data by examining the features of country, gender, age, marital status, parenthood. We found the missing data in country, age and ground_truth_category.

```
## ground_truth_category      country      age
##           81195           147       33
##           wid      original_hm      gender
##           0           0           0
##           marital      parenthood      reflection_period
##           0           0           0
## predicted_category      text      orig.count
##           0           0           0
##           count
##           0
```

Since country and age are the two topics we're interested in, we omit the data points that are not having those information for our analysis.

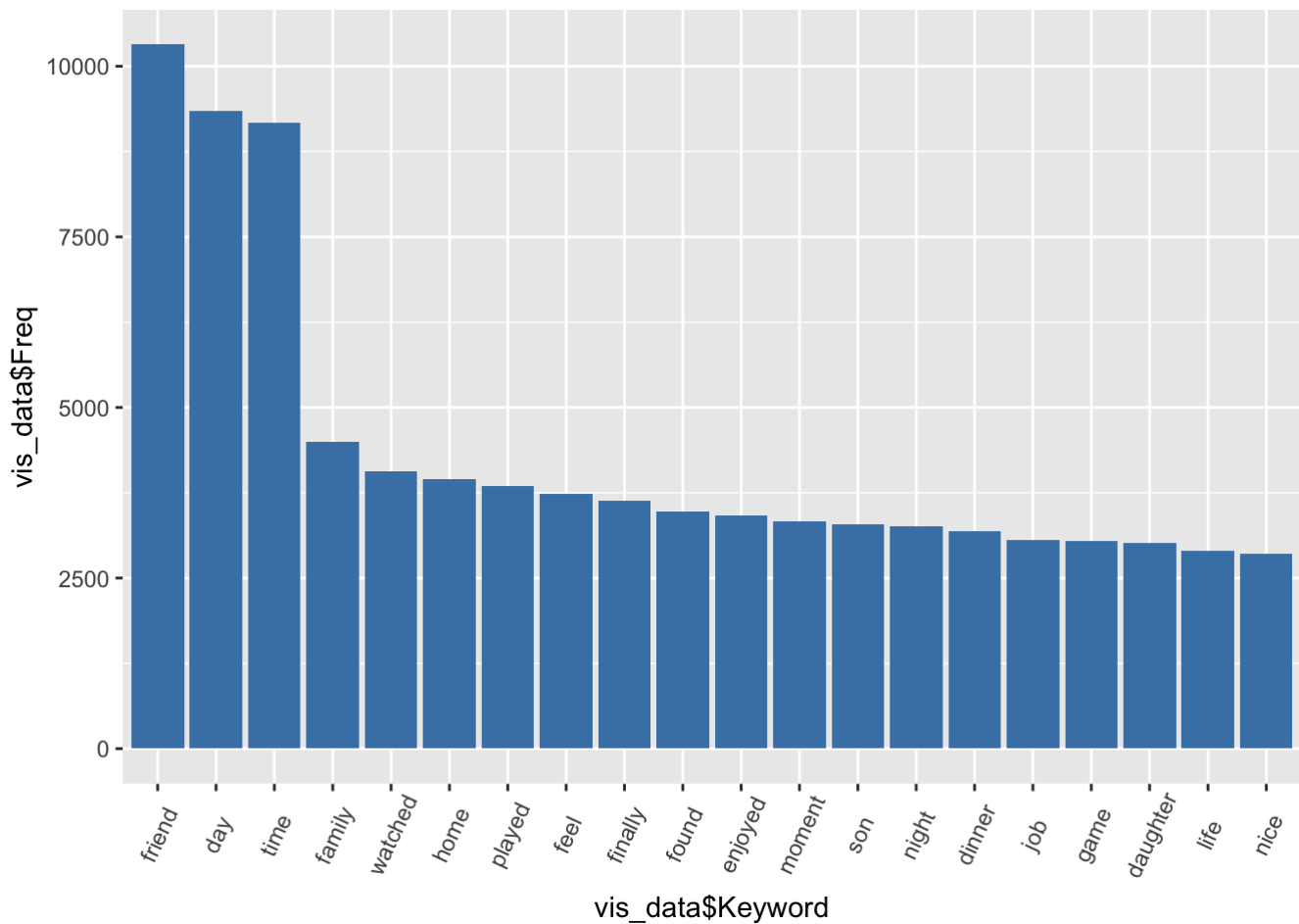
part 1

overview wordcloud: Creating the word cloud and bar graph to acquire top 100 keywords

We would like to create a word cloud graph to explore what really makes staff happy.

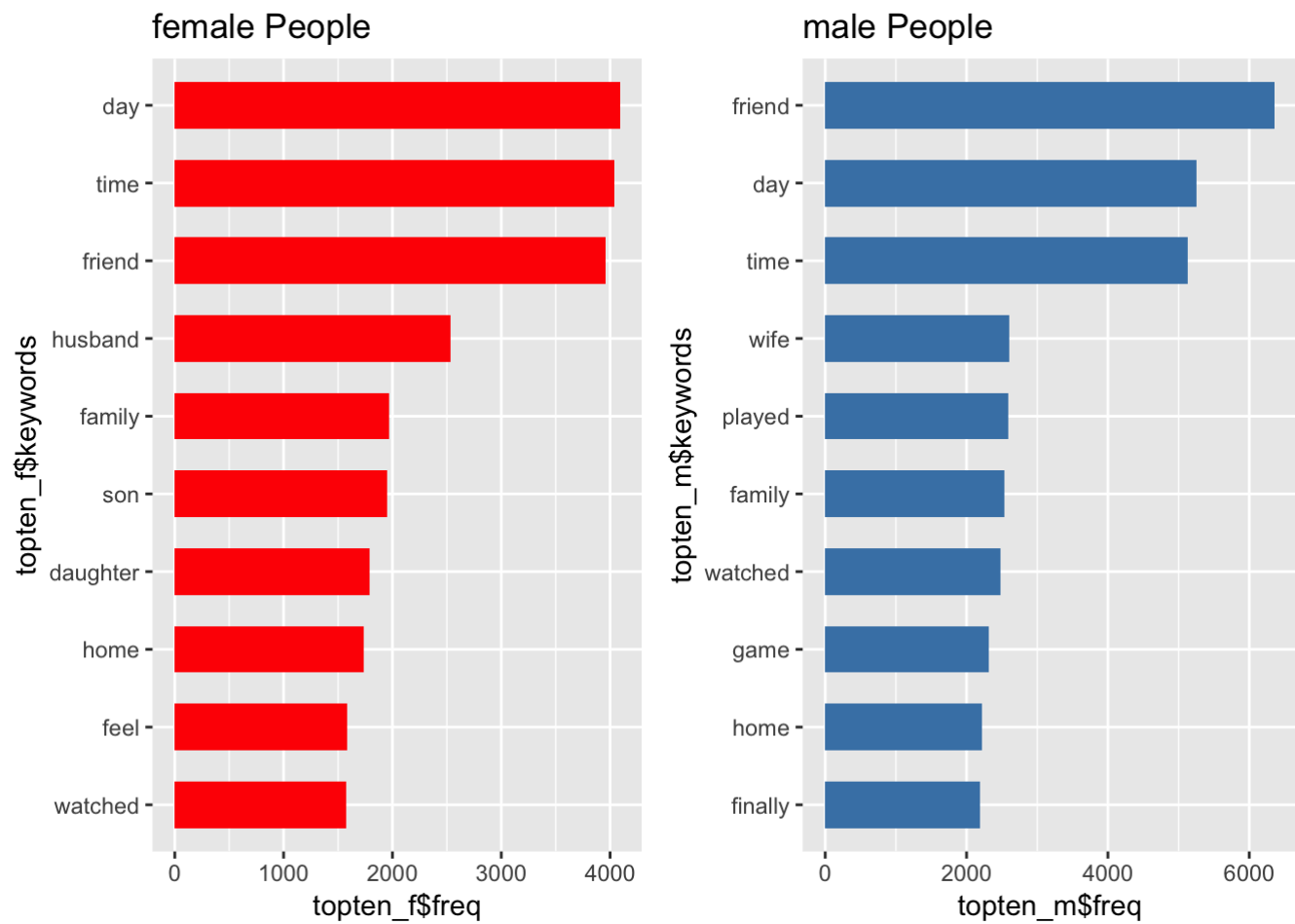


2/15



PART 2: deference of words frequency between gender

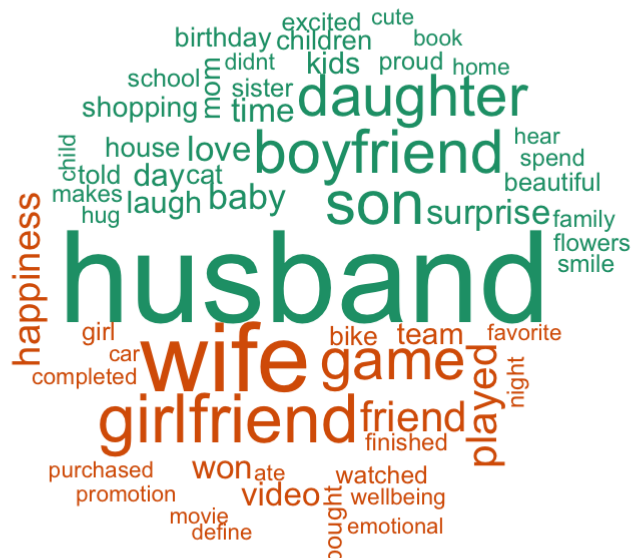
bar plot



female/male individual wordcloud

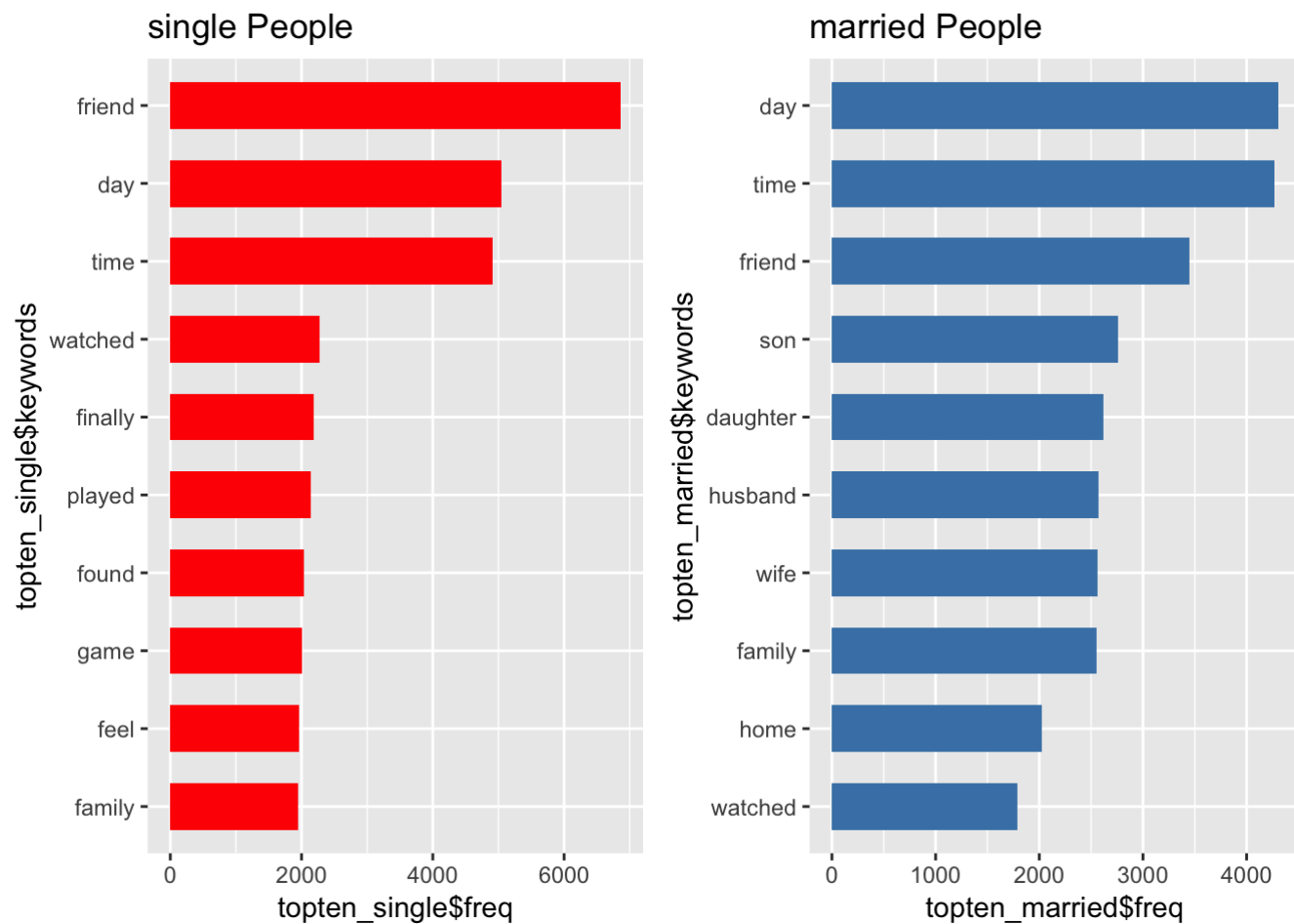


f



m

bar plot



word clouds of different marital status

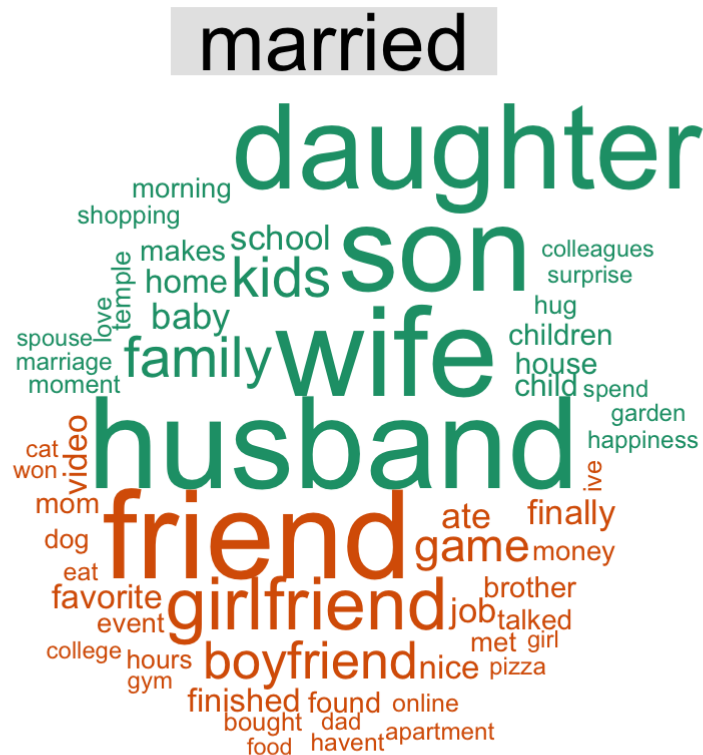


```
## NULL
```




```
## NULL
```

Comparison Cloud



part4: defference of word frequency between gender and marital status

Wordcloud for single female



Wordcloud for married female



Wordcloud for single male



Wordcloud for married male



comparison wordcloud

