Project1-yz3384

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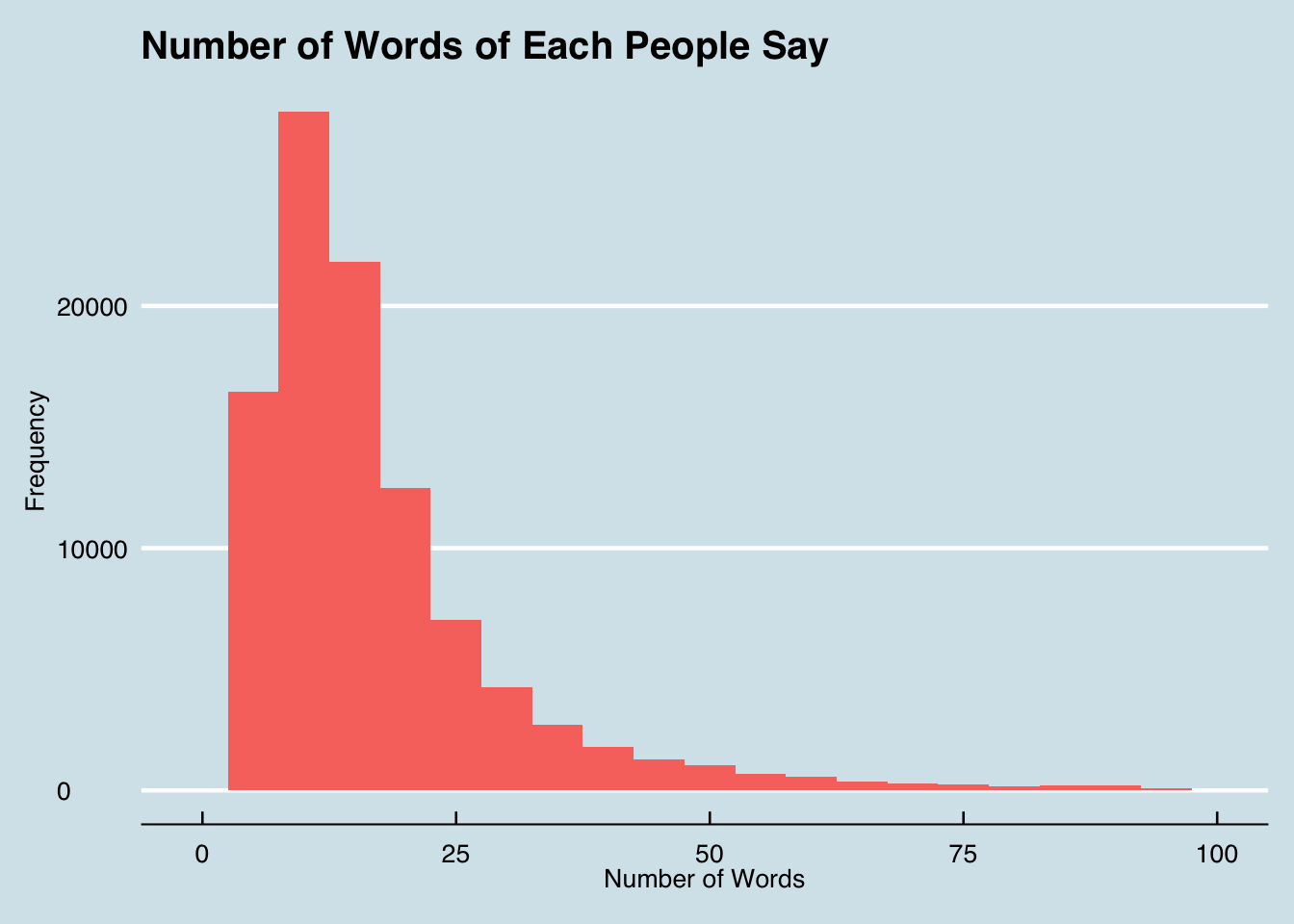
*1/30/2019*

Inspect an overall wordcloud

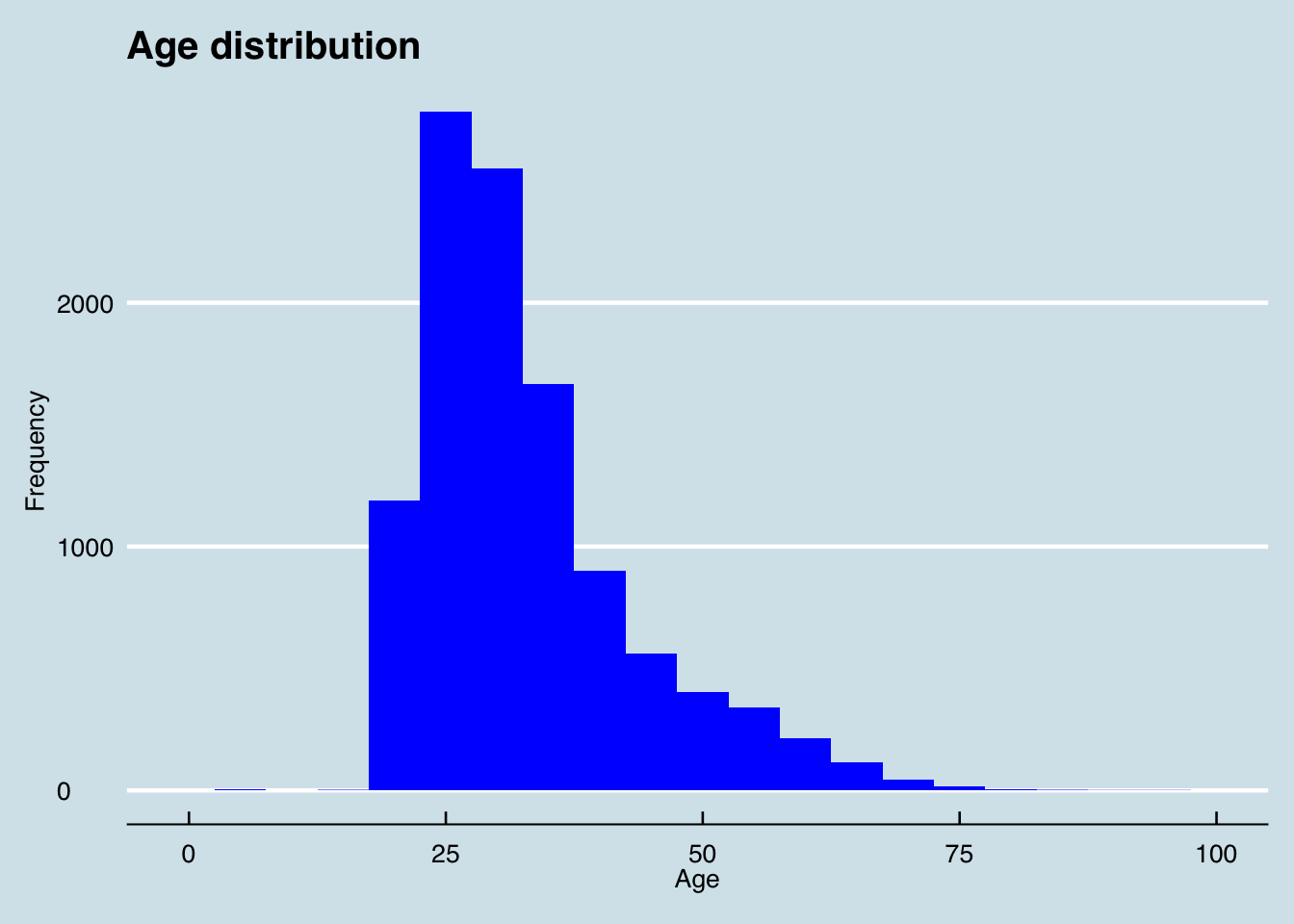
People mention work, friend, family, home most, then followed by daughter, son, dinner and birthday.

Basic analysis

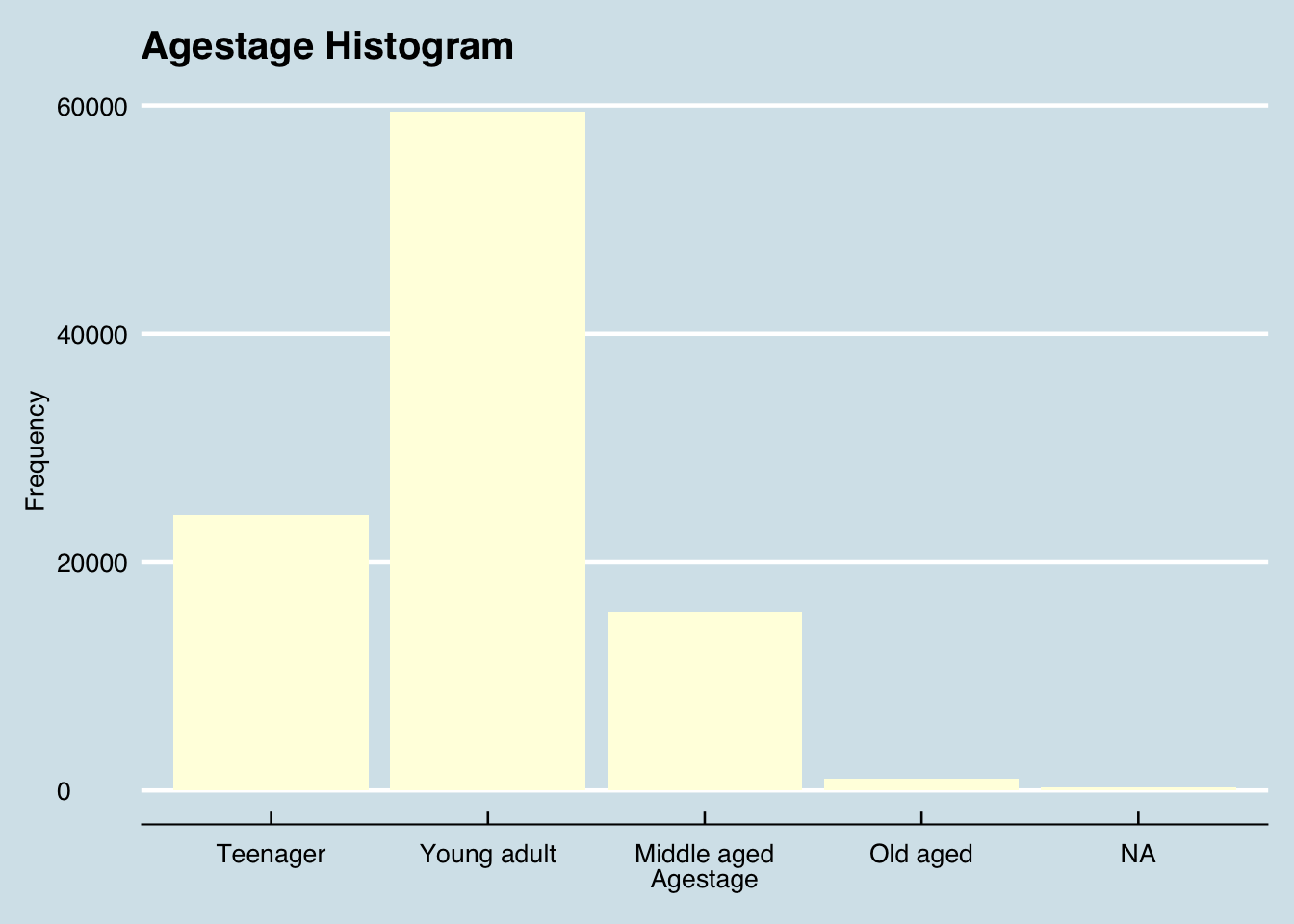
Calculate word length

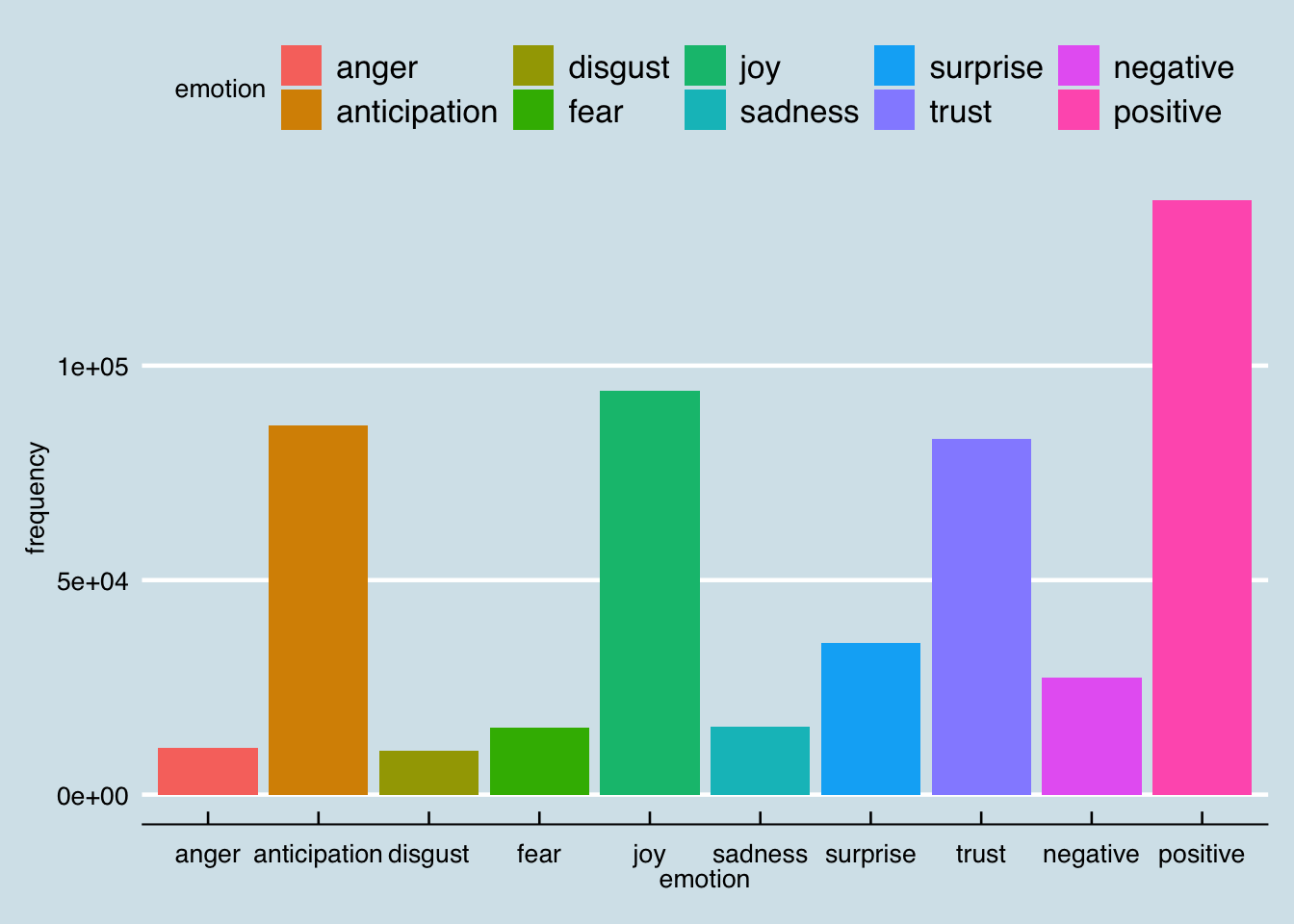
Most people say less than 15 words. And when the number of the words increases, the number of people decreases.

Analyze age distribution

This histogram graphic shows the distribution of age.  
Most people are about 20 to 30 years old. The number of people decreases when the age of people increases after 20.

Analyze agestage

Young adults account for the main part, followed by teenagers and middle aged. The old aged poeple are the least.

The expressions of people are most related to joy, anticipation and trust. Although the topic of sentences people speak is happiness, there are still negative related words which express fear, sadness, disgust and anger.

Analyze most five happiness moments of people at each agestage

word frequency agestage

## 21527 work 4985 Young adult

## 7956 friend 3331 Young adult

## 7190 family 2834 Young adult

## 9318 home 2543 Young adult

## 12988 night 2117 Young adult

## 13109 work 1639 Teenager

## 4842 friend 1573 Teenager

## 4399 family 1048 Teenager

## 5684 home 918 Teenager

## 1380 birthday 849 Teenager

## 11598 work 1186 Middle aged

## 2802 daughter 1010 Middle aged

## 9682 son 896 Middle aged

## 4293 friend 794 Middle aged

## 3889 family 695 Middle aged

## 2808 wife 79 Old aged

## 683 daughter 51 Old aged

## 1236 home 51 Old aged

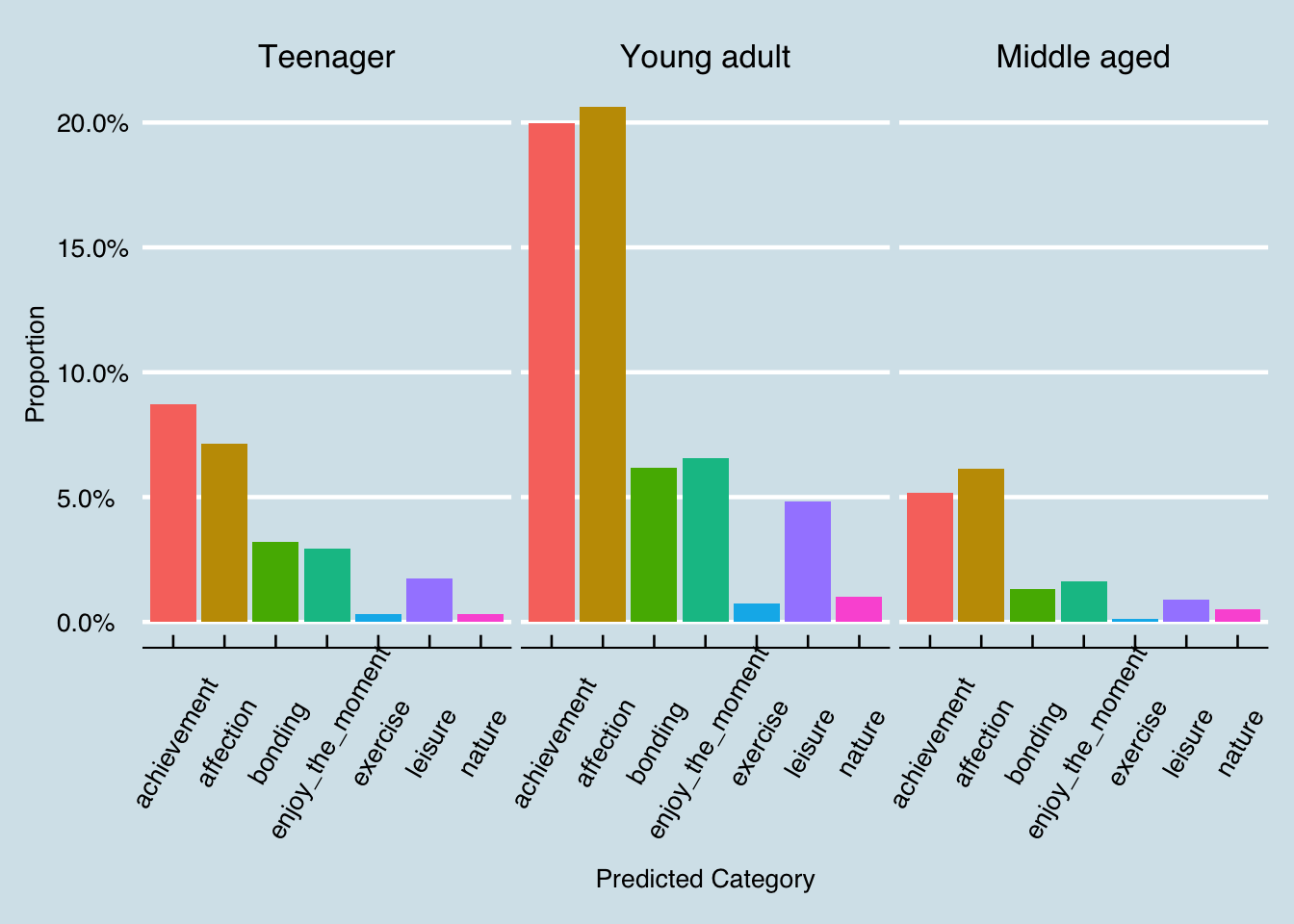
## 2383 son 50 Old aged

## 1055 friend 42 Old aged

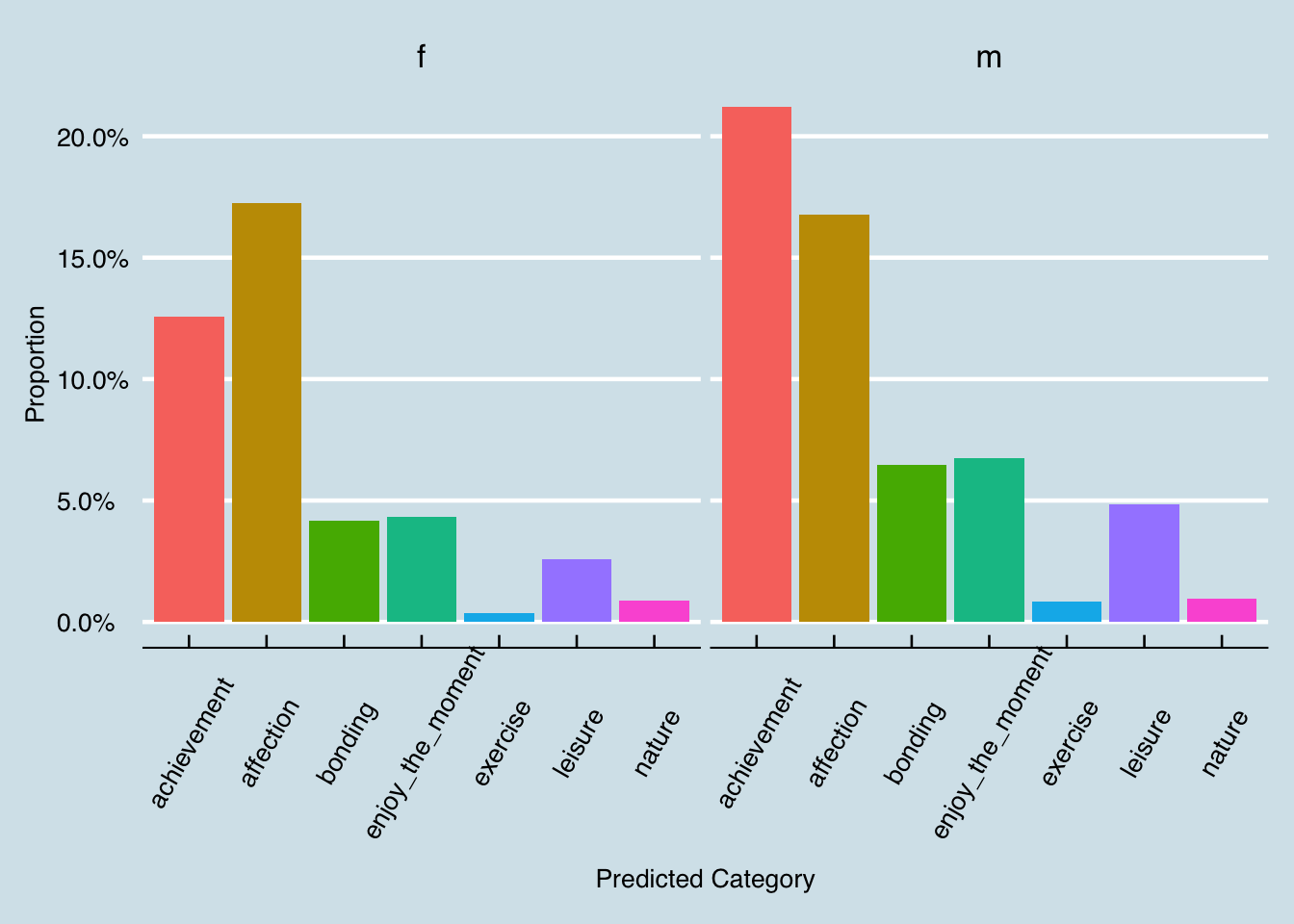
The dataframe shows the top five words people from different agestage mention.  
We can see that young adults and teenagers both mention work, friend, family and home most. But the difference is that young adults aslo consider night creates happiness more while teenagers like birthday more. In addition, middle aged and old aged both mention daughter, son and friend much. However, middle aged people like work best while old aged love wife more.

Analysis about predicted category with other variables

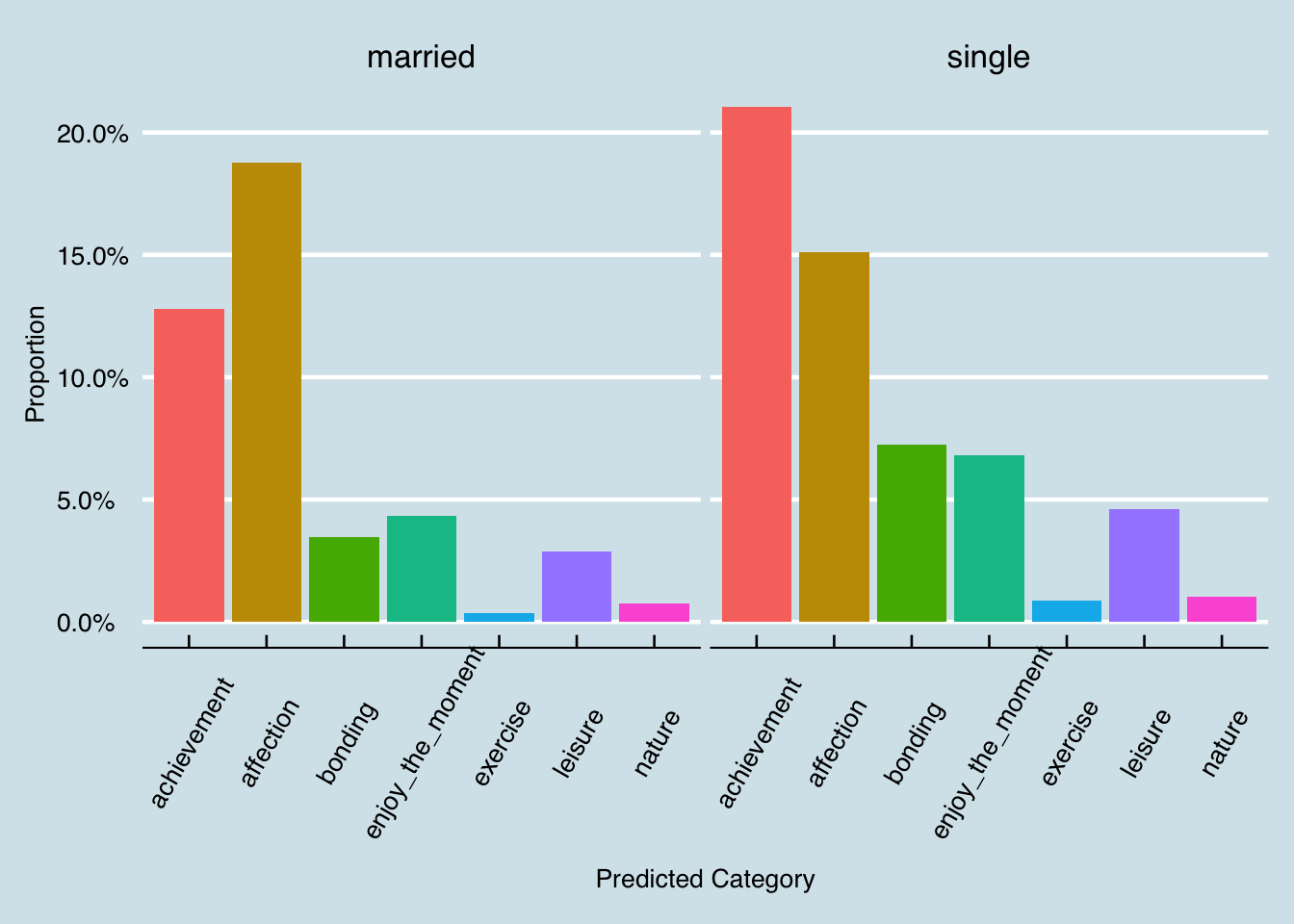
Predict category & agestage

Teenagers, young adults and middle aged people all like achievement and affection most, but young adults have stronger feelings about that.

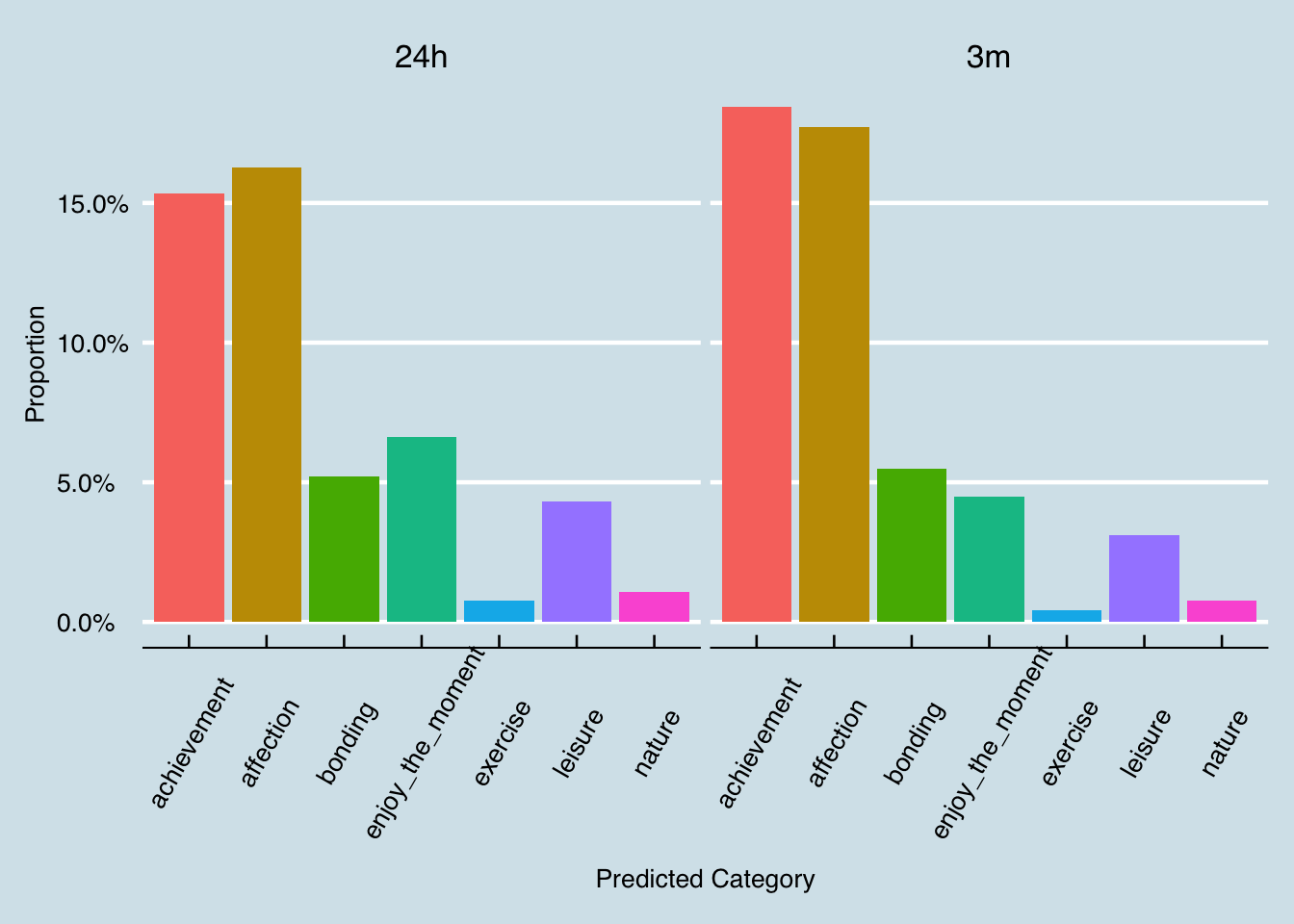
Predict category & gender

Female and male both like talking about affection. However, male prefer to discuss achievenment more than affection and female are the opposite.

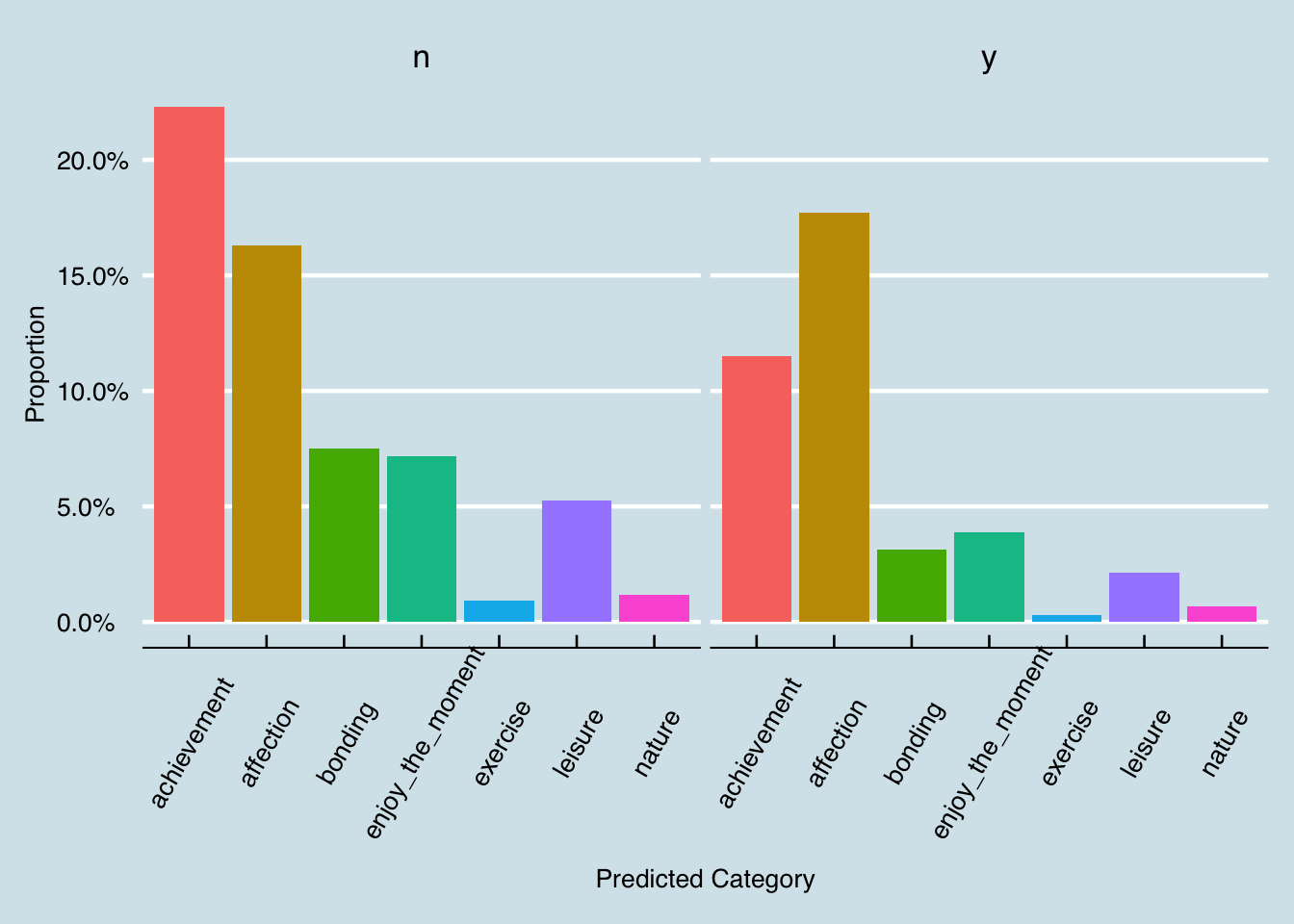
Predict category & marital

Married people and single people both like achievement and affection most. However, married people prefer affection better while single people prefer achievement more. In addition, the remaining components of predict category are only small parts of happiness. But single people think bonding, enjoying the moment and leisure more than married people.

Predict category & reflection period

From the graphic above, there does not exist great differences between reflection period of 24 hours and 3 months. People in two groups all like achievement and affection more. The small difference is that people with 3 months reflection period are more likely to consider achievement and affection as the happiest moment. In contrast, people with one day reflection period think enjoying the moment and leisure matter more than people have 3 months reflection period.

Prediction category & parenthood

People who have children like to discuss about affection most, but people without children like achievement more than affection.