HW 3: Vector

For the second homework we explore the vectors.

Practice

Import gss dataset:

```
gss<-read.csv("gss.csv")</pre>
```

1. How many missing values for the variable marital?

What is the percentage of *female* respondents (excluding missing values), try function prop.table()? What is the percentage of *male* respondents who felt "NOT TOO HAPPY"?

What is the percentage of *married* respondents who age between 30 and 40 (including the boundaries)?

What is the average age of female married respondents who took the survey from 1999 and 2010?

- 2. Make a summary of year. What type of vector is the year variable? It should be treated as a factor variable. Change it into a new factor variable YEAR in the gss data. Make a new summary of YEAR, which year had the most participants?
 - Use the function tapply to get average age of respondents by YEAR. What years had the oldest and the youngest average age? (look up tapply())
- 3. Reorder the levels in degree of gss data based on the number of years in education. Provide the appropriate plot to visualize the distribution of the new degree variable.
- 4. Write down your homework in *Rmarkdown* and generate it to a HTML document with your title and your name. Submit the homework on Canvas.