

Analysis of General Social Survey 2008

1. import the General Social Survey 2008 data

(see script output)

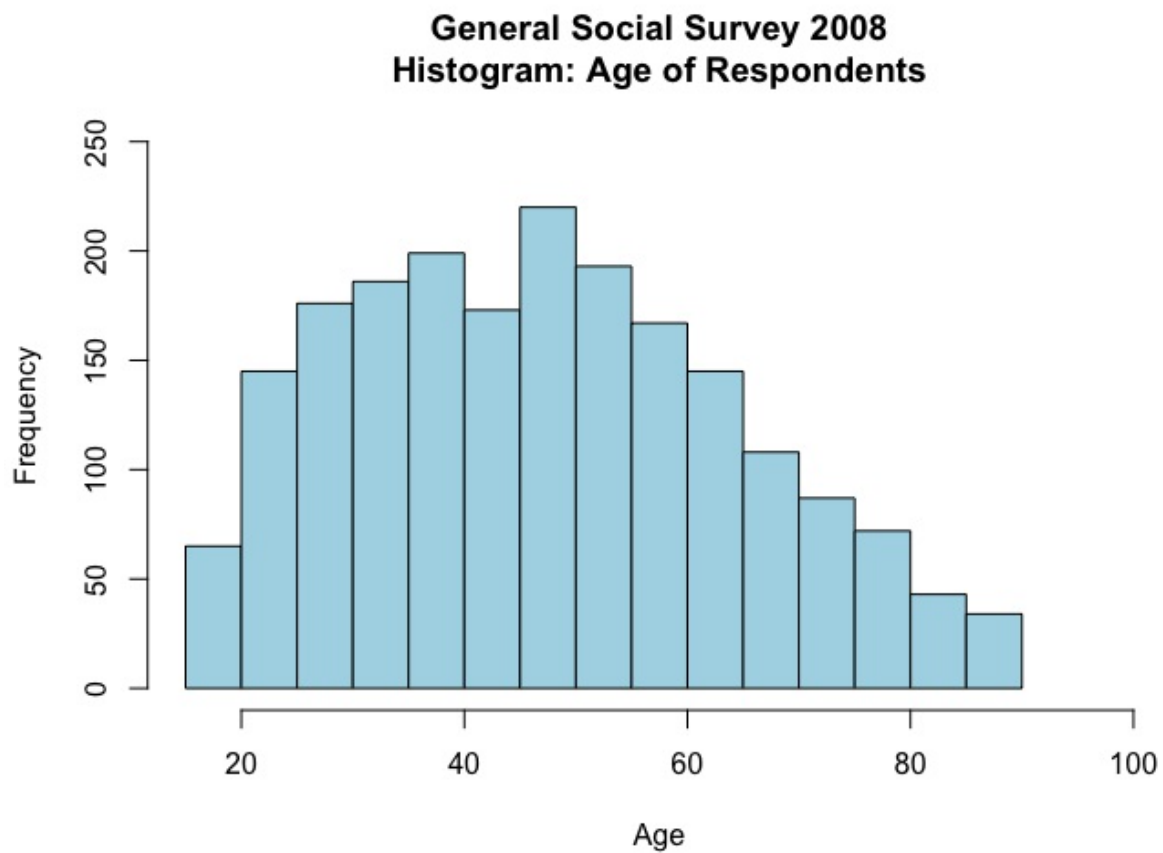
2. Derive Basic Descriptive Statistics

- Find the mean, median, mode, range, variance, and standard deviation
- For variables: AGE, HRS1, TVHOURS, EDUC

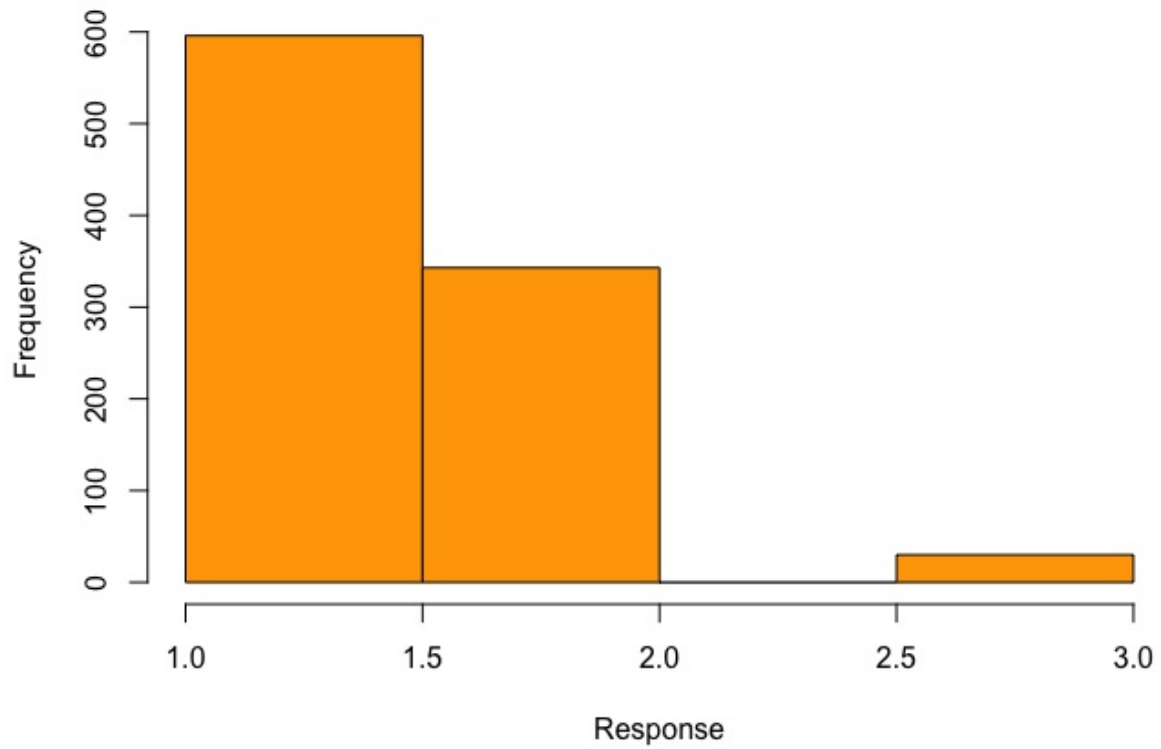
(also see script output)

| Variable | mean | median | mode | range (min-max) | variance | std.dev. |
|----------|--------|--------|------|--------------------|----------|----------|
| AGE | 47.708 | 47 | 50 | 71 (18 - 89) | 301.052 | 17.351 |
| HRS1 | 42.003 | 40 | 40 | 88 (1 - 89) | 209.667 | 14.480 |
| TVHOURS | 2.982 | 2 | 2 | 24 (0 - 24) | 7.071 | 2.659 |
| EDUC | 13.432 | 13 | 12 | 20 (0 - 20) | 9.480 | 3.079 |

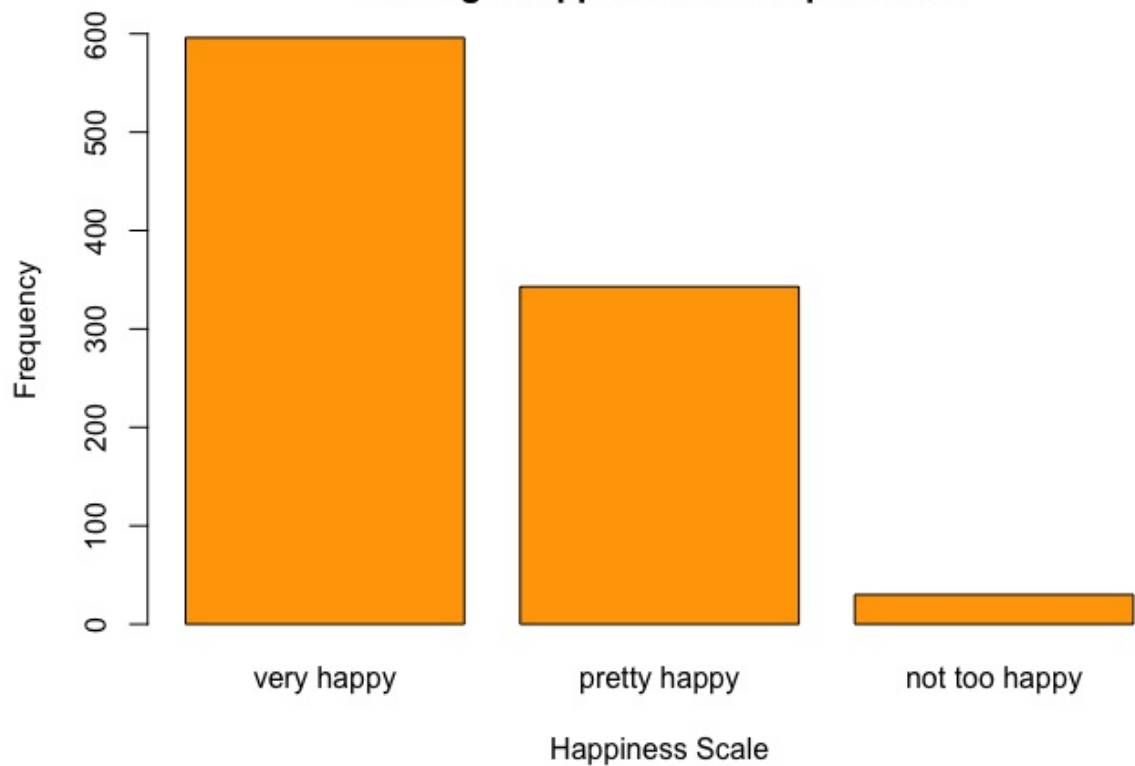
3. generate histograms for the following: AGE, HAPMAR, LIFE



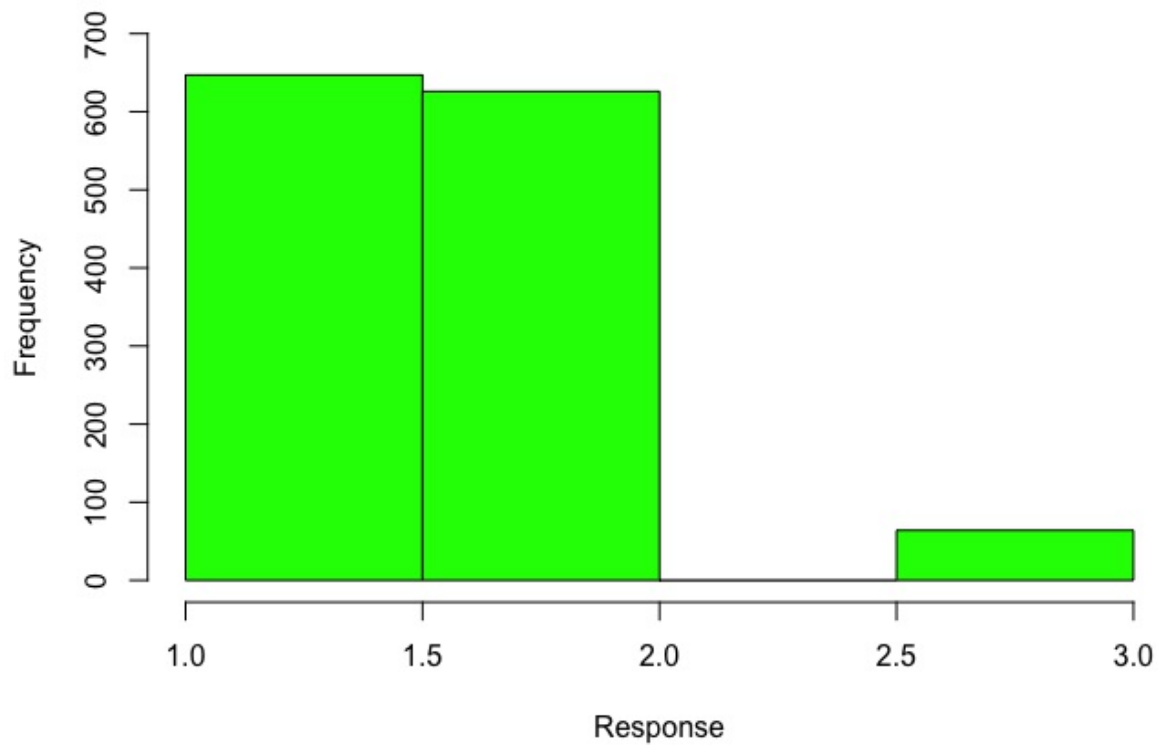
General Social Survey 2008
Histogram: Marriage Happiness of Respondents

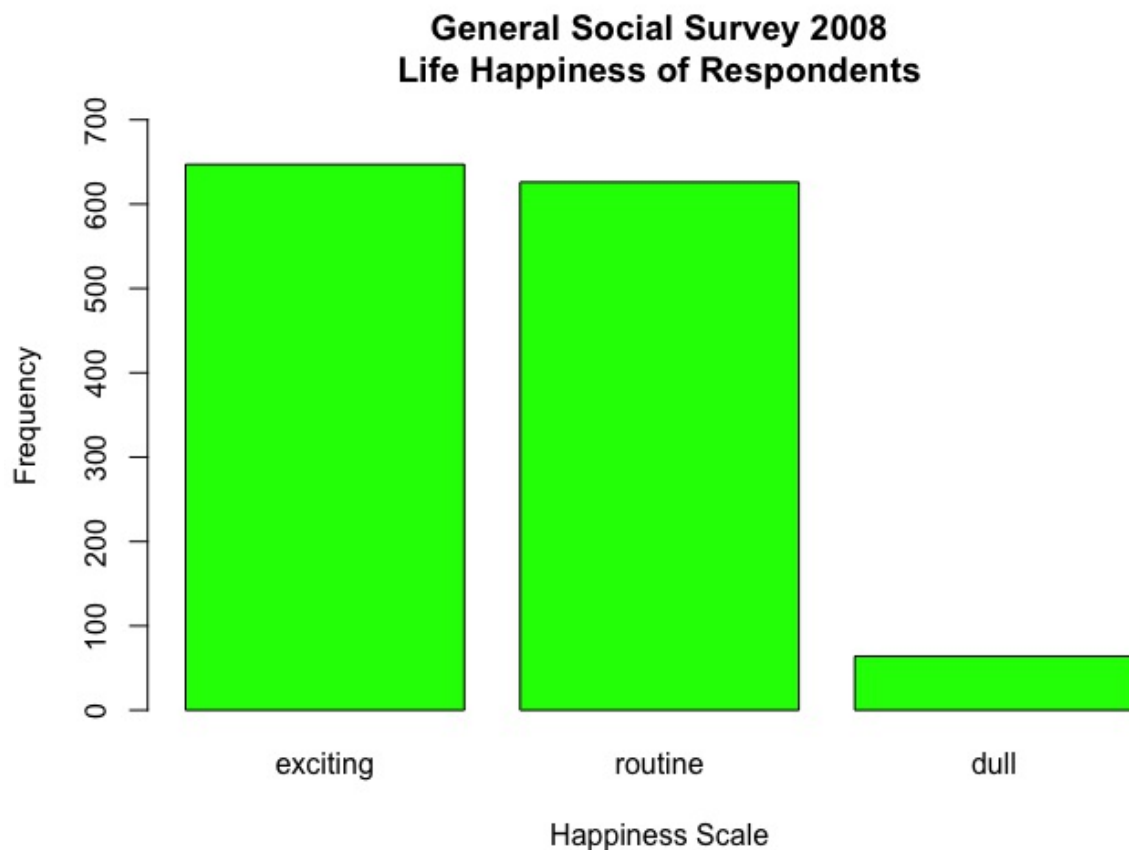


General Social Survey 2008
Marriage Happiness of Respondents



General Social Survey 2008
Histogram: Life Happiness of Respondents





4. what does the histogram for AGE tell us? Is there anything distinctive about its shape?

The majority of people surveyed are aged 20-64. The shape of this histogram approximately follows a normal distribution.

5. what do you notice about the histograms for HAPMAR and LIFE?

The histograms for these categorical variables (variables stored as numbers) come out looking a little odd. The range of interesting values (excluding: missing, did not respond, etc.) is very small and so the histogram boxes did not always abut.

I provided bar plots of each of these, which afforded the ability to label the response values with their corresponding descriptions.

6. do people in the survey generally find their lives exciting, routine, or dull?

Most people surveyed find their lives exciting or routine (the frequency for each was almost the same), and a very small minority find their lives dull.

7. How do people describe their marriage?

Most people surveyed, who are married and provided an answer, are very happily married.

8. Approximately what percent of individuals in the sample are older than 75?

Estimating by looking at the histogram, it appears that between 5% and 10% are older than 75.