

R Code for Examples in the book "Statistics: The Art and Science of Learning from Data"

by Agresti, Franklin and Klingenberg, 5th edition

Chapter 2

Example 6: TV Watching – Histogram for a Discrete Variable

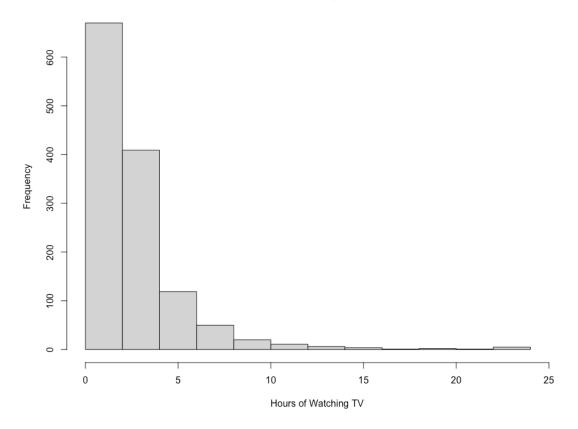
Read in GSS data

```
gss <-
read.csv(file='https://raw.githubusercontent.com/artofstat/data/master/Chapte
r2/TVhours.csv')</pre>
```

Create Basic Histogram

```
hist(gss$tvhours, xlim = c(0, 25),
    main = 'Histogram of the Number \n of Hours Watching TV per Day',
    xlab = 'Hours of Watching TV')
```

Histogram of the Number of Hours Watching TV per Day

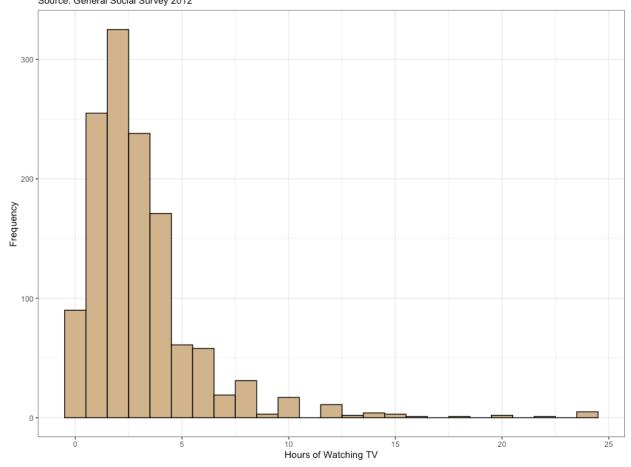


For more fine tuning, it is better to use the ggplot2 library. If you haven't installed it already, first type: install.packages(ggplot2).

library(ggplot2)

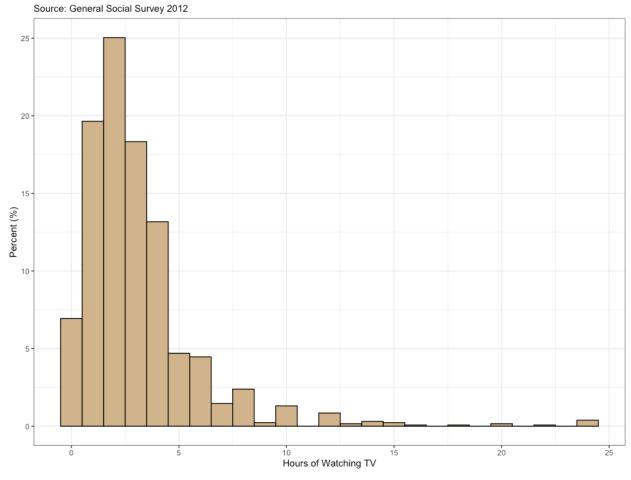
Basic Frequency (Count) Plot

Histogram of the Number of Hours Watching TV per Day Source: General Social Survey 2012



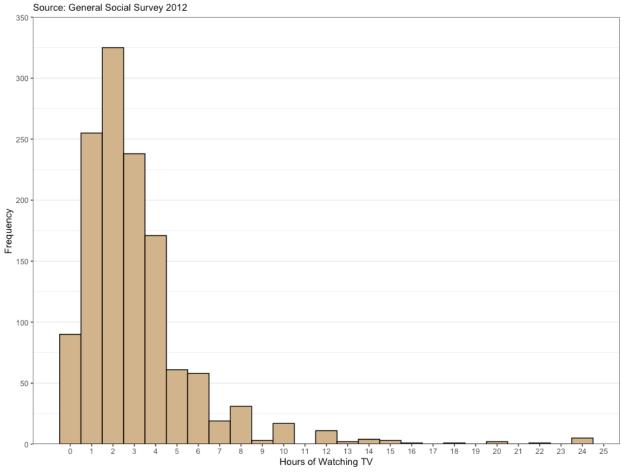
Basic Relative Frequency (Percent) Plot

Histogram of the Number of Hours Watching TV per Day



More fine-tuning such as labels on x-axis

Histogram of the Number of Hours Watching TV per Day



with percentages rather than counts

Histogram of the Number of Hours Watching TV per Day Source: General Social Survey 2012

