Example 1: Presenting Plots, Regular text and Sections

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Section 1

This is our first paragraph example in R Markdown. The file 1-example.Rmd can be opened in RStudio, and then "knitted" using alt + shift + K (Windows) or command + shift + K (MacOS). The following blocks show random generation of normal random variables and a histogram plot of this data
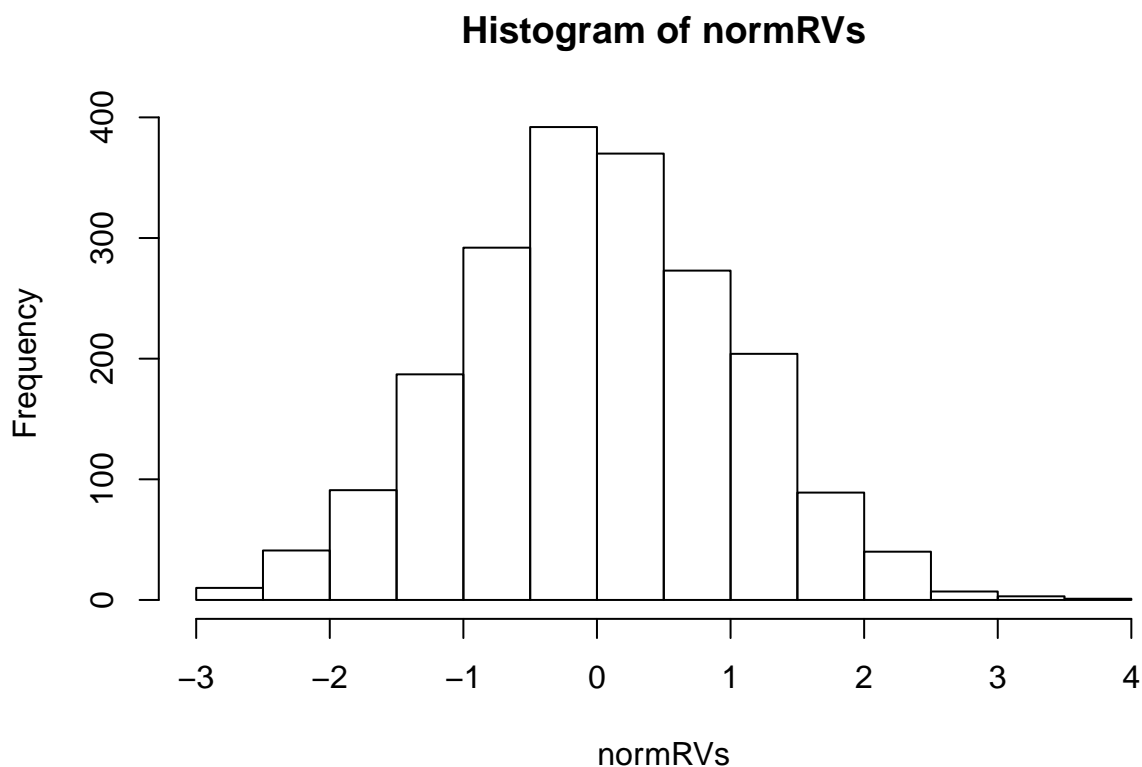
This is a "Header 1"

This is a "Header 2"

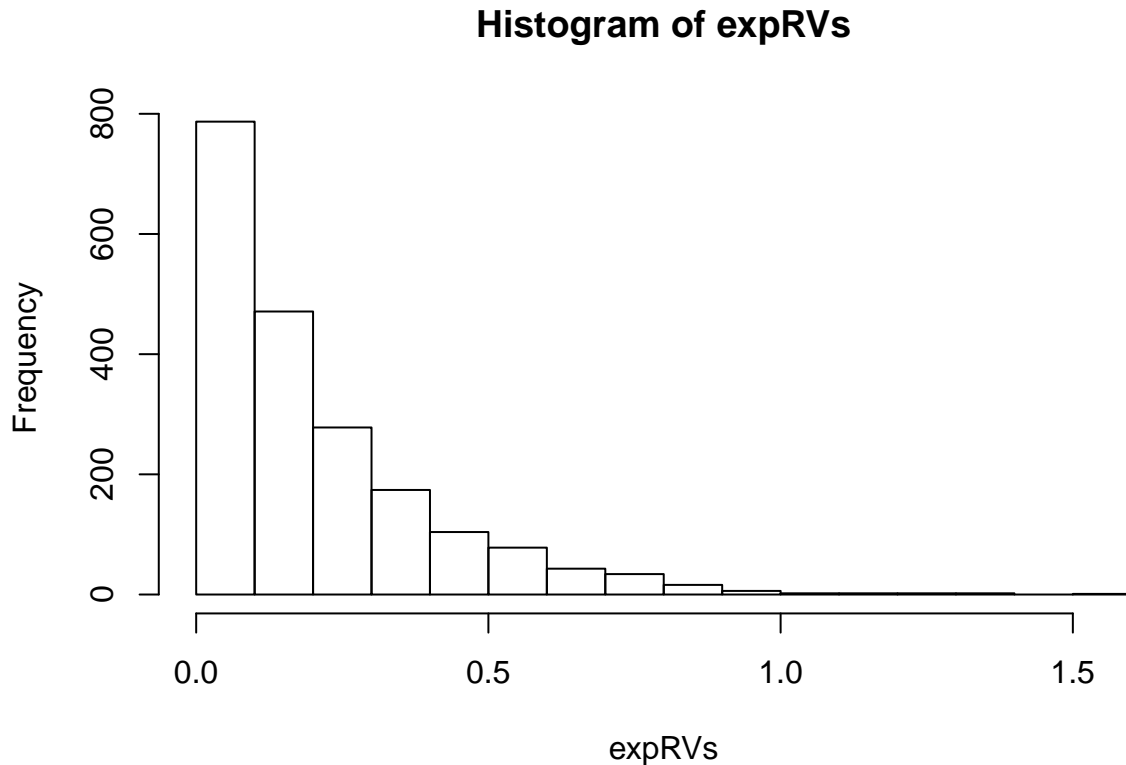#### This is a "Header 3"

See [RMarkdown Basics](#) for more basics in RMarkdown

Inline R code: 0.7487289 was generated from a N(0,1) distribution.

Normal RVs histogram below: generated with an "R code chunk"

Histogram of normRVs

How about a plot of exponential RVs? Notice that the code below is included in the document. This is because we do not include echo=FALSE within the { }s for this R code block

```
expRVs <- rexp(2000, rate = 5)
hist(expRVs, breaks = 20)
```

Histogram of expRVs

If we don't want the text bolded, we can just type in the Rmd file as we would in usual LaTeX. Below we illustrate a R code chunk with the option "eval = FALSE", which is very useful when you want to show the code you are using, but not evaluate the code.

```
expRVs <- rexp(2000, rate = 5)
hist(expRVs, breaks = 20)
```

Notice this did not produce another histogram plot, as opposed to the R code chunk above it.