Intro to Quarto

Write your name here

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Much of the work in this class will be done via Quarto documents. Quarto documents are documents that combine text, R code, and R output, including figures. They are a great way to produce self-contained and documented statistical analyses.

In this first worksheet, you will learn how to do some basic markdown editing. After you have made a change to the document, press "Render" in R Studio and see what kind of a result you get.
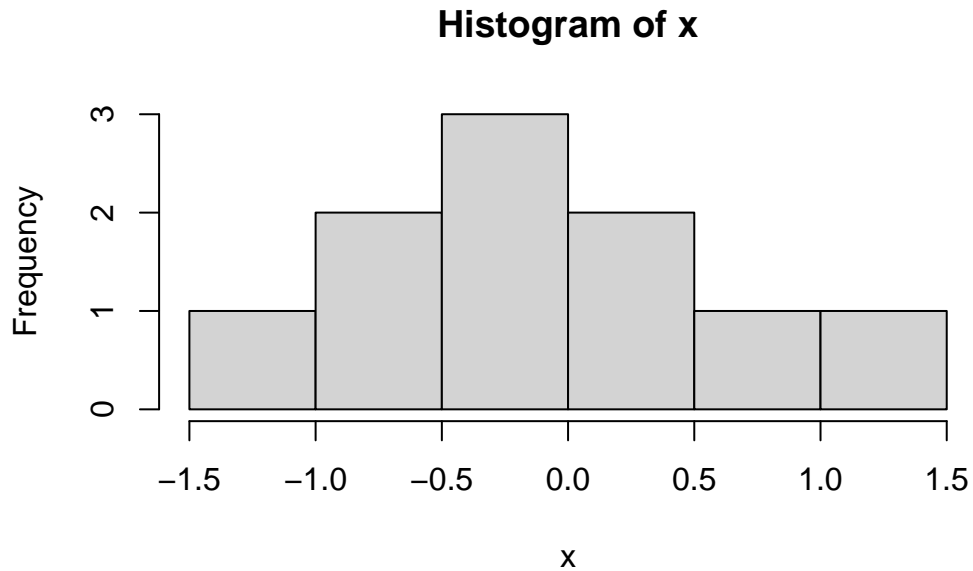
Edit below this line.

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1. Basic Markdown editing

Try out basic Markdown features, as described here. Write some text that is bold, and some that is in italics. Make a numbered list and a bulleted list. Make a nested list. Try the block-quote feature.

2. Embedding R code

R code embedded in R chunks will be executed and the output will be shown.

```
# R code goes here
x <- rnorm(10)     # random sample from normal distribution
hist(x)            # plot density
```

Histogram of x

Try increasing the number of draws from the normal distribution and see what happens.

You can also write inline code. For example: the mean of x is -0.0671616.

Now you try:

1. What is the minimum value of x?
2. What is the maximum value of x?

Note these numbers will change every time you run the file because x is a random sample.

If you want to ensure reproducibility, you could first use the function `set.seed()`:

```r
# R code goes here
set.seed(12345)
x <- rnorm(10)     # random sample from normal distribution
mean(x)            # compute x's mean
```

```
[1] -0.1329441
```