Basics

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Introduction

Rstudio is a statistical programming language used to create models and plots.

r setup

Ctrl+Alt+i = insert a new code chunk.

{r chunk-name, include=FALSE}
code goes here
include prevents code and results from appearing in the finished file. However, code in the chunk still runs and results can be used by other chunks.
echo prevents code but results are still displayed.

First chunk of code will be used to setup rstudio packages and knitting settings. Ex: install.packages("tidyverse"). After first installation of package, it is always ideal to comment (#) it out to reduce runtime (so it does not have to download the package every time you run). To use the packages, you are required to load it with library function.

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
summary(cars)
```

```
##      speed           dist
##  Min.   : 4.0   Min.   :  2.00
##  1st Qu.:12.0   1st Qu.: 26.00
##  Median :15.0   Median : 36.00
##  Mean   :15.4   Mean   : 42.98
##  3rd Qu.:19.0   3rd Qu.: 56.00
##  Max.   :25.0   Max.   :120.00
```

Including Plots

You can also embed plots, for example:

Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.