R Markdown Demo

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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.

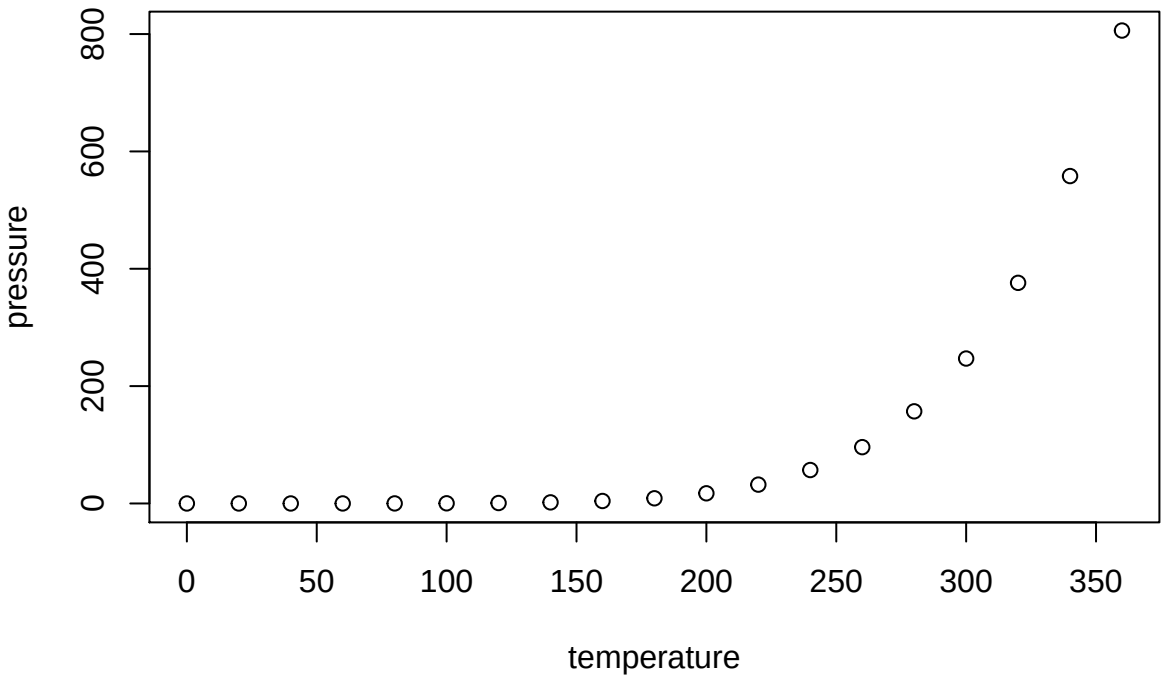
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
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.

Begin Lab

Let's start by installing a couple packages (`styler` and `prettycode`) and (optionally) github desktop, which can be used for collaboration and version control.

```
#install.packages('styler')
#install.packages('prettycode')
library(styler)
```

```
## Warning: package 'styler' was built under R version 3.4.4
```

```
library(prettycode)
```

```
## Warning: package 'prettycode' was built under R version 3.4.4
```

```
## The following object is masked from package:base:
##
##     print.function
```

Style

Code style is important for readability. One good way to learn is by playing around with the `styler` package.

```
read_file('crappyCode.R')
```

```
## [1] "library(tidyverse)\nx <- c(\"i\", \"am\", \"a\", \"vector\")\nprint(x)\nprintNums <- function(x
```

Let's fix it up!

```
read_file('crappyCode.R') %>%
  style_text()
```

```
## library(tidyverse)
## x <- c("i", "am", "a", "vector")
## print(x)
## printNums <- function(x) {
##   for (i in 1:x) {
##     print(i)
##   }
## }
## nums <- c(1, 2, 3)
## expand.grid(nums, x) %>% mutate(new = 1:nrow(.))
```

Or... :

```
style_file('crappyCode.R')
```

```
## Styling  1  files:
##  crappyCode.R v
## ----------------------------------------
## Status   Count   Legend
## v    1   File unchanged.
## i    0   File changed.
## x    0   Styling threw an error.
## ----------------------------------------
```