

Lab 1 Rmd

Solution

2022-08-26

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.

```
my_mean <- function(x, na.rm = FALSE) {
  if(na.rm) {
    x <- na.omit(x)
  }
  if(!(class(x) %in% c("numeric", "logical"))) {
    stop("Please pass a numeric or logical vector.")
  }
  if(class(x) == "logical") {
    x <- as.numeric(x)
  }
  return(sum(x) / length(x))
}
```

```
my_mean(runif(100))
```

```
## [1] 0.4642245
```

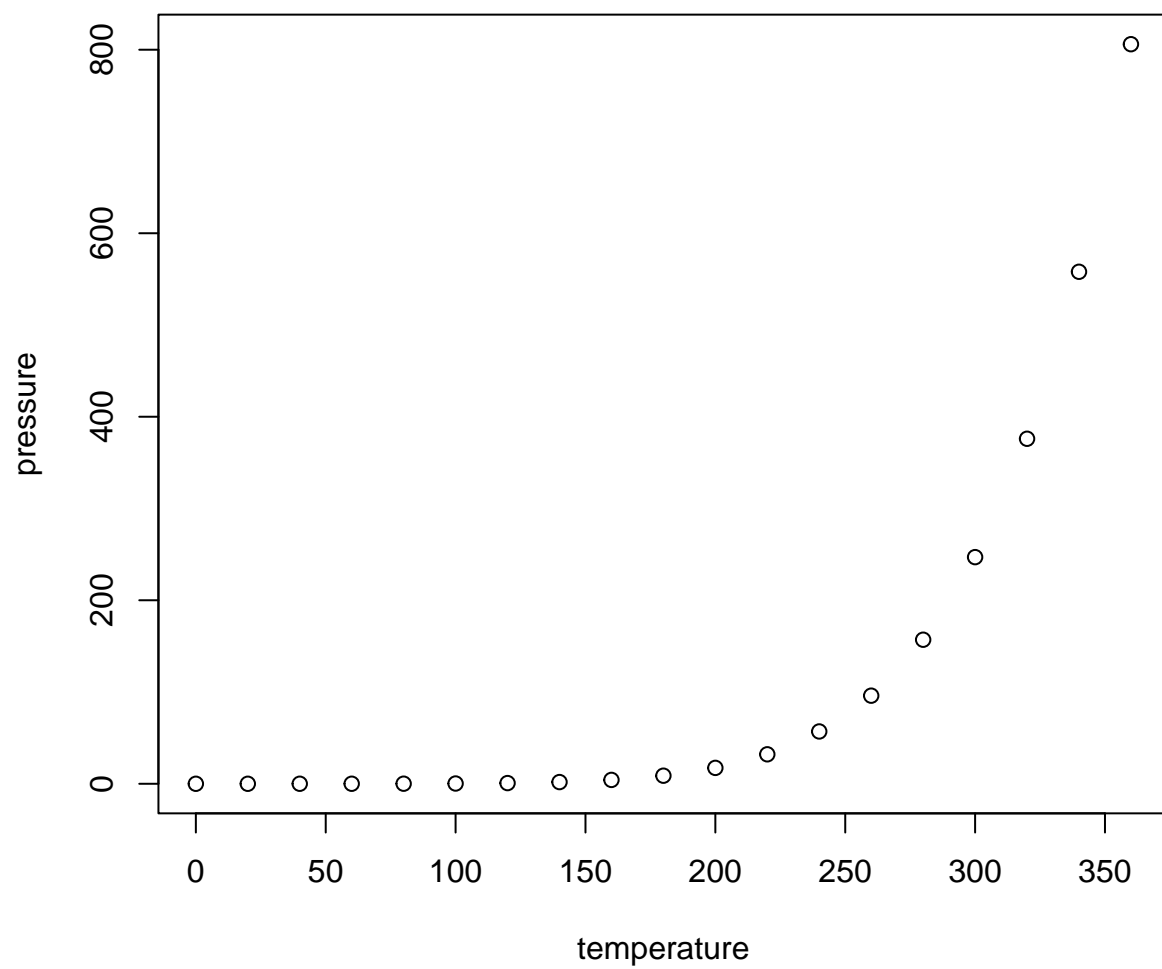


Figure 1: This is a scatterplot!