R_Markdown_Tutorial_2022

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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.

2 ## gives the largest title
1 # gives a smaller title
and no # provides supporting text
2 trailing spaces provides a new line of text

Links to Themes

https://www.datadreaming.org/post/r-markdown-theme-gallery/

Knit a document

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.

Import libraries

```r
library(ggplot2)
library(dplyr)
```

```
## Warning: package 'dplyr' was built under R version 3.5.2
```

Chunk options

Chunk Options Chunk output can be customized with knitr options, arguments set in the {} of a chunk header. Above, we use five arguments:

include = FALSE prevents code and results from appearing in the finished file. R Markdown still runs the code in the chunk, and the results can be used by other chunks. echo = FALSE prevents code, but not the results from appearing in the finished file. This is a useful way to embed figures. message = FALSE prevents messages that are generated by code from appearing in the finished file. warning = FALSE prevents warnings that are generated by code from appearing in the finished. fig.cap = "..." adds a caption to graphical results.

Embedding R code

You can embed an R code chunk like this:

Import files

Import CSV files

You can import your data files like this:

```r
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
```

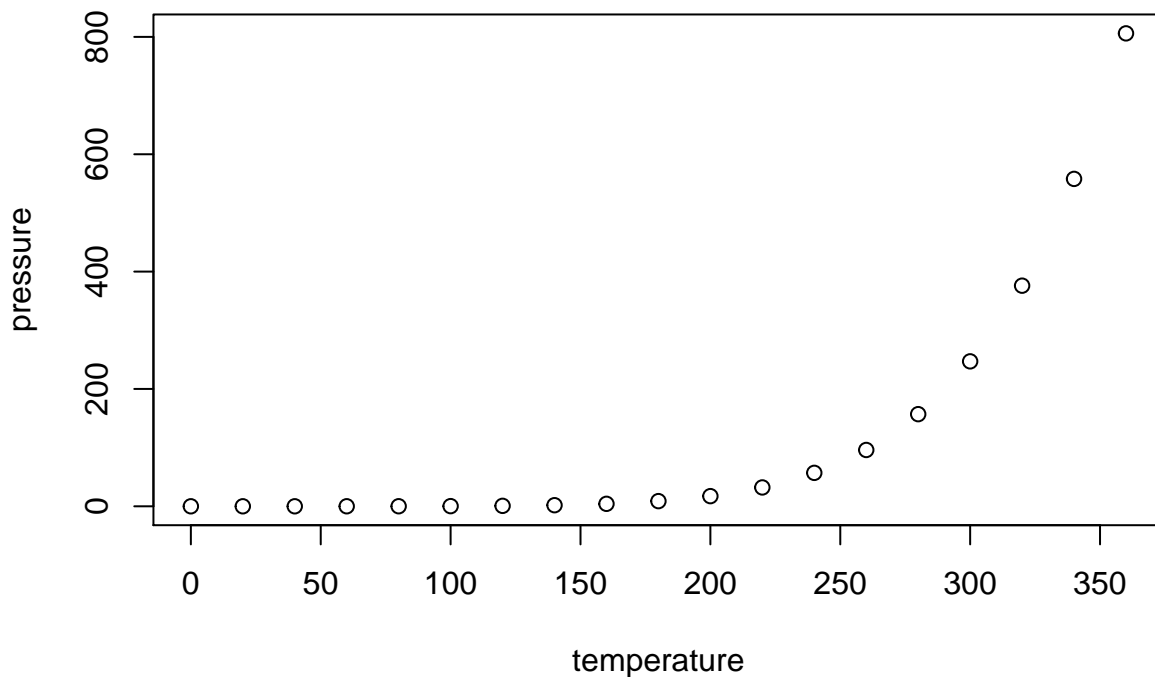### Import previous R code

You can import previous R code:

```r
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.