03-EjemploRMDChunks

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Reticulate

```
library(reticulate)
```

```
## Warning: package 'reticulate' was built under R version 3.6.2
```

```
use_python("C:/ProgramData/Anaconda3/")
np <- import("numpy",convert = FALSE)
print(np$arange(2,8))
```

```
## [2. 3. 4. 5. 6. 7.]
```

```
x <- np$reshape(np$arange(1, 25), c(4L, 3L, 2L))
print(x)
```

```
## [[[ 1.  2.]
##   [ 3.  4.]
##   [ 5.  6.]]
##
##  [[ 7.  8.]
##   [ 9. 10.]
##   [11. 12.]]
##
##  [[13. 14.]
##   [15. 16.]
##   [17. 18.]]
##
##  [[19. 20.]
##   [21. 22.]
##   [23. 24.]]]
```

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.

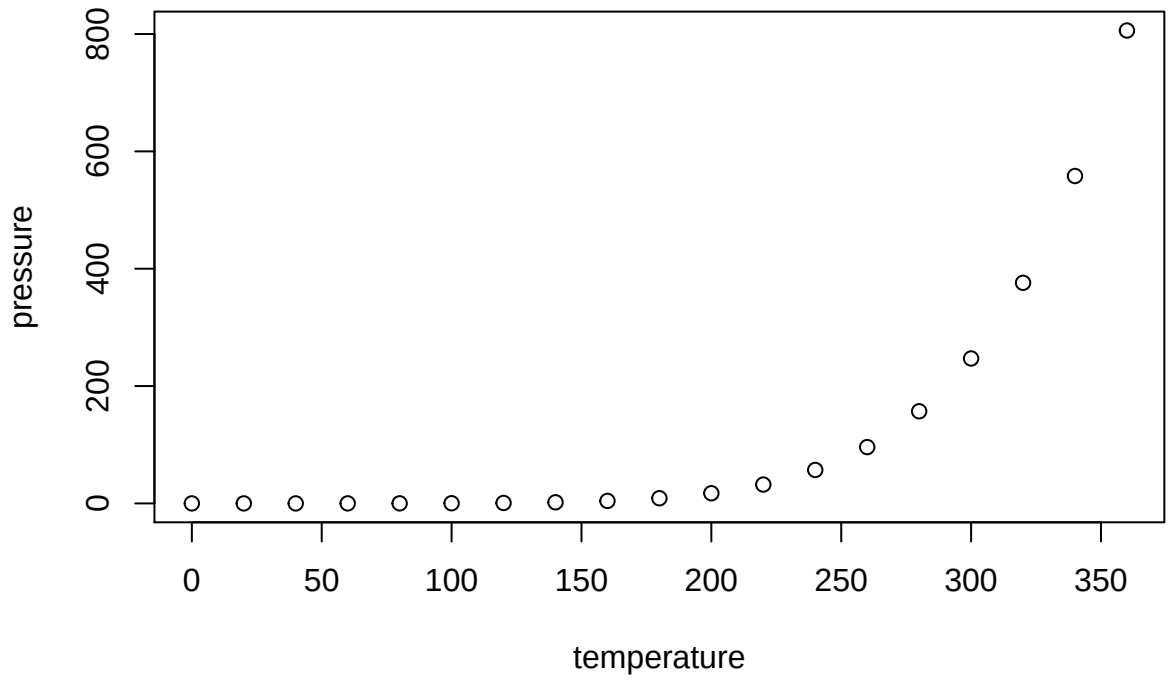
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
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:




```
library(ggplot2)
```

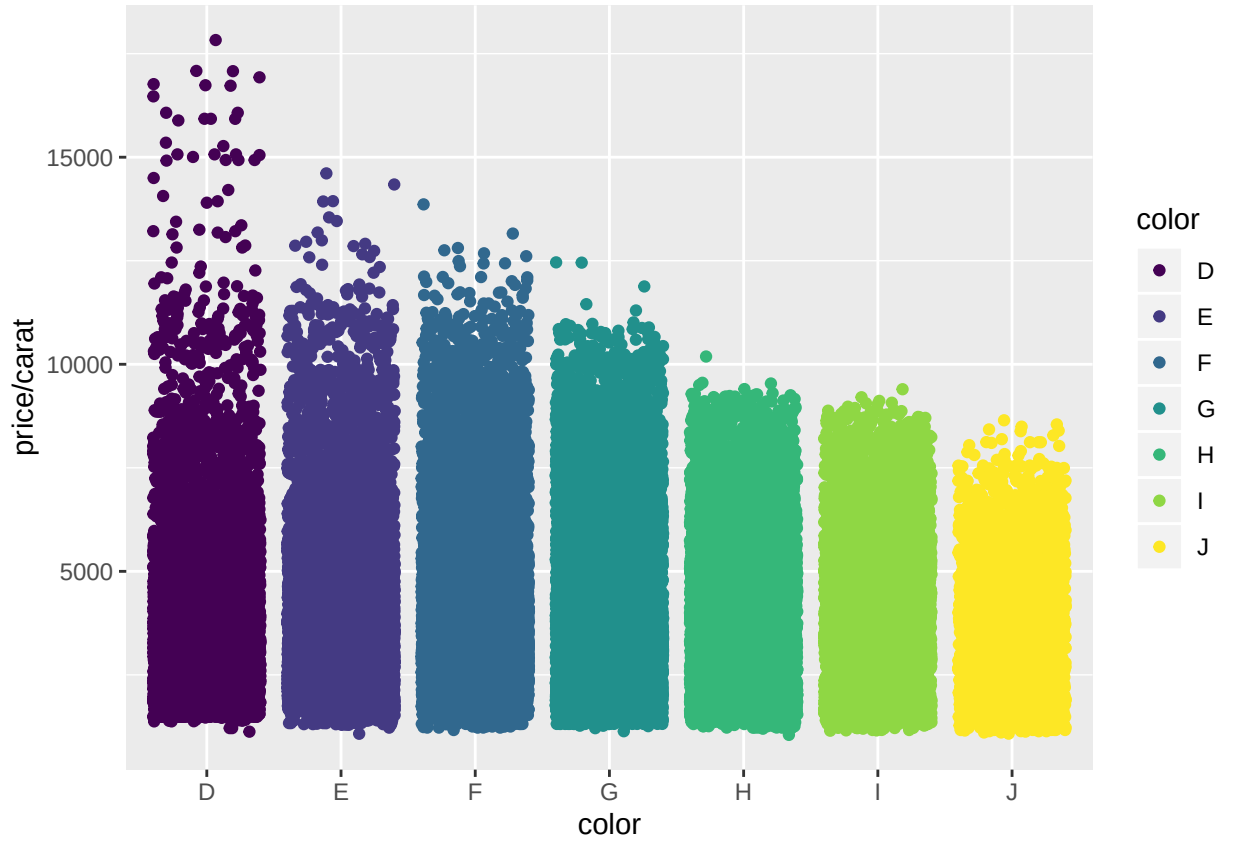
```
## Warning: package 'ggplot2' was built under R version 3.6.2
```

```
set.seed(100)
summary(diamonds)
```

```
##      carat               cut        color        clarity          depth      
##  Min.   :0.2000   Fair      : 1610   D: 6775   SI1    :13065   Min.   :43.00  
```

```
##  1st Qu.:0.4000   Good     : 4906   E: 9797   VS2    :12258   1st Qu.:61.00
##  Median :0.7000   Very Good:12082   F: 9542   SI2    : 9194   Median :61.80
##  Mean   :0.7979   Premium  :13791   G:11292   VS1    : 8171   Mean   :61.75
##  3rd Qu.:1.0400   Ideal    :21551   H: 8304   VVS2   : 5066   3rd Qu.:62.50
##  Max.   :5.0100                     I: 5422   VVS1   : 3655   Max.   :79.00
##                                     J: 2808   (Other): 2531
##      table           price             x                y
##  Min.   :43.00   Min.   :  326   Min.   : 0.000   Min.   : 0.000
##  1st Qu.:56.00   1st Qu.:  950   1st Qu.: 4.710   1st Qu.: 4.720
##  Median :57.00   Median : 2401   Median : 5.700   Median : 5.710
##  Mean   :57.46   Mean   : 3933   Mean   : 5.731   Mean   : 5.735
##  3rd Qu.:59.00   3rd Qu.: 5324   3rd Qu.: 6.540   3rd Qu.: 6.540
##  Max.   :95.00   Max.   :18823   Max.   :10.740   Max.   :58.900
##
##        z
##  Min.   : 0.000
##  1st Qu.: 2.910
##  Median : 3.530
##  Mean   : 3.539
##  3rd Qu.: 4.040
##  Max.   :31.800
##
```

```
qplot(color, price/carat,data=diamonds, geom = "jitter", color = color)
```



Uso de Chunks en Linea de Texto

Para hacer la Raiz Cuadrada de un numero se puede tiene:

- En LaTeX es $\sqrt{x}$
- En `R` es 1.4142136
- La frase completa: $\sqrt{2} = 1.4142136$

El numero π empieza por 3.1415927

Este año he hecho $n = 9$ examenes, con una media $\overline{x} = 6.78$ y una desviación típica de $s = 2.39$.

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