Untitled

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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.

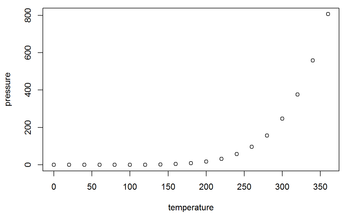
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
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

```
#import library:
library(tidyverse)
```

```
## -- Attaching packages --------------------------------------------------------------------------- tidyverse
1.3.0 --
```

```
## <U+221A> ggplot2 3.3.1     <U+221A> purrr   0.3.4
## <U+221A> tibble  3.0.1     <U+221A> dplyr   1.0.0
## <U+221A> tidyr   1.1.0     <U+221A> stringr 1.4.0
## <U+221A> readr   1.3.1     <U+221A> forcats 0.5.0
```

```
## -- Conflicts ------------------------------------------------------------------------------ tidyverse_conflic
ts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
library(ggplot2)
library(sqldf)
```

```
## Warning: package 'sqldf' was built under R version 4.0.5
```

```
## Loading required package: gsubfn
```

```
## Warning: package 'gsubfn' was built under R version 4.0.5
```

```
## Loading required package: proto
```

```
## Warning: package 'proto' was built under R version 4.0.5
```

```
## Loading required package: RSQLite
```

```
## Warning: package 'RSQLite' was built under R version 4.0.5
```

```
library(janitor) #for clean_names()
```

```
## Warning: package 'janitor' was built under R version 4.0.5
```

```
##
## Attaching package: 'janitor'
```

```
## The following objects are masked from 'package:stats':
##
##     chisq.test, fisher.test
```

```
library(lubridate)
```

```
##
## Attaching package: 'lubridate'
```

```
## The following objects are masked from 'package:base':
##
##     date, intersect, setdiff, union
```

```
library(dplyr)
library(ggcorrplot)
```

```
## Warning: package 'ggcorrplot' was built under R version 4.0.5
```

```
library(here)
```

```
## Warning: package 'here' was built under R version 4.0.5
```

```
## here() starts at C:/Users/Home/Desktop
```

```
library(knitr) #for prop table
library(zoo) #tranfom data : yearqtr
```

```
## Warning: package 'zoo' was built under R version 4.0.5
```

```
##
## Attaching package: 'zoo'
```

```
## The following objects are masked from 'package:base':
##
##     as.Date, as.Date.numeric
```

```
library(leaflet) #library for basic map
```

```
## Warning: package 'leaflet' was built under R version 4.0.5
```

```
library(ggrepel) #library to avoid overlapping between label on map
```

```
## Warning: package 'ggrepel' was built under R version 4.0.5
```

```
library(ggmap)
```

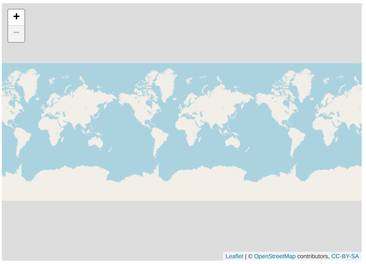
```
## Warning: package 'ggmap' was built under R version 4.0.5
```

```
## Google's Terms of Service: https://cloud.google.com/maps-platform/terms/.
```

```
## Please cite ggmap if you use it! See citation("ggmap") for details.
```

```
theme_set(theme_minimal())
```

```
### visualization
# Initialize the leaflet map with the leaflet() function
m <- leaflet()
# Then we Add default OpenStreetMap map tiles
m <- addTiles(m)
m
```




```
# Same stuff but using the %>% operator
m <- leaflet() %>%
  addTiles()
m
```