My first Markdown Report

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Hello world

Today is my first day to write R Markdown.

My favourite library

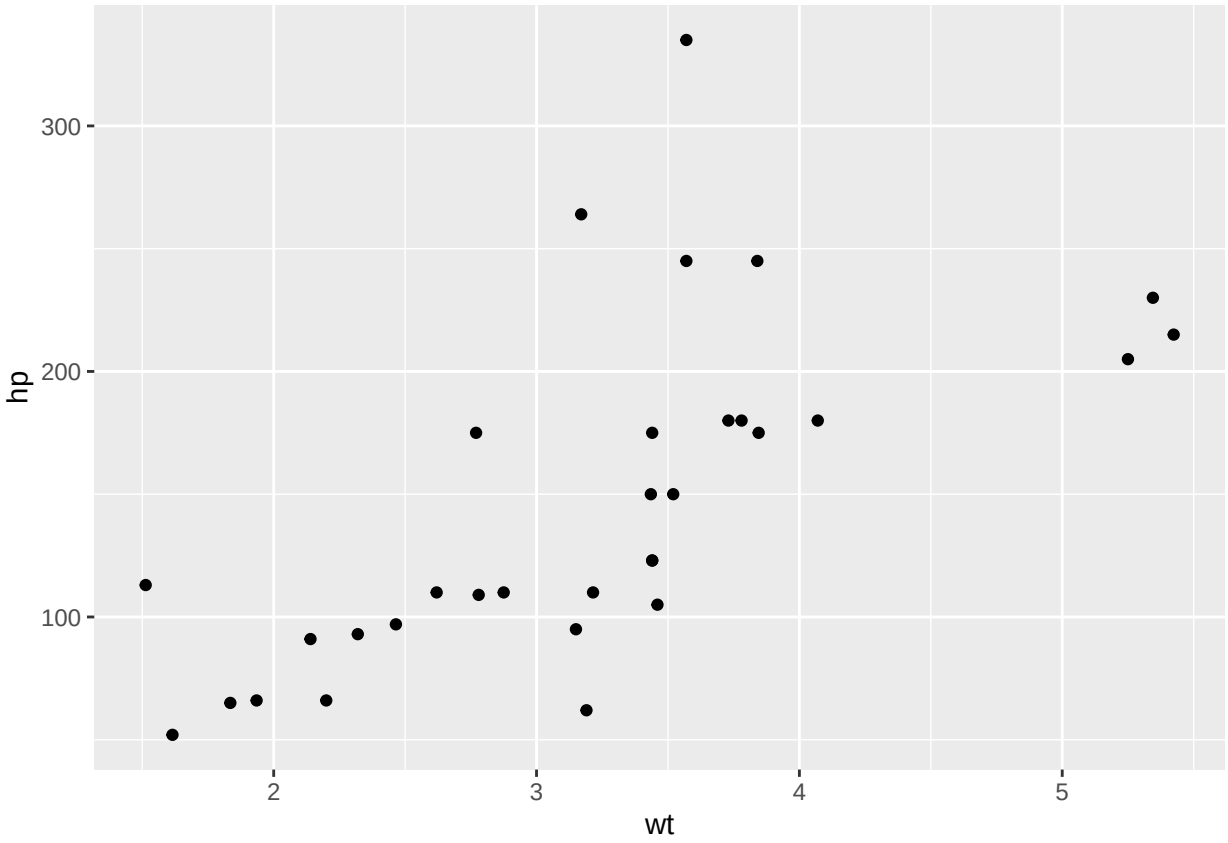
- tidyverse
- plotly
- ggplot2

Test sub

R is cool.

```
##                   mpg cyl disp  hp drat    wt  qsec vs am gear carb
## Mazda RX4         21.0   6  160 110 3.90 2.620 16.46  0  1    4    4
## Mazda RX4 Wag     21.0   6  160 110 3.90 2.875 17.02  0  1    4    4
## Datsun 710        22.8   4  108  93 3.85 2.320 18.61  1  1    4    1
## Hornet 4 Drive    21.4   6  258 110 3.08 3.215 19.44  1  0    3    1
## Hornet Sportabout 18.7   8  360 175 3.15 3.440 17.02  0  0    3    2
```

Graph



My first linear regression model

1. Summary dataset

```
##       mpg             cyl             disp             hp       
##  Min.   :10.40   Min.   :4.000   Min.   : 71.1   Min.   : 52.0  
##  1st Qu.:15.43   1st Qu.:4.000   1st Qu.:120.8   1st Qu.: 96.5  
##  Median :19.20   Median :6.000   Median :196.3   Median :123.0  
##  Mean   :20.09   Mean   :6.188   Mean   :230.7   Mean   :146.7  
##  3rd Qu.:22.80   3rd Qu.:8.000   3rd Qu.:326.0   3rd Qu.:180.0  
##  Max.   :33.90   Max.   :8.000   Max.   :472.0   Max.   :335.0  
##       drat             wt             qsec             vs        
##  Min.   :2.760   Min.   :1.513   Min.   :14.50   Min.   :0.0000  
##  1st Qu.:3.080   1st Qu.:2.581   1st Qu.:16.89   1st Qu.:0.0000  
##  Median :3.695   Median :3.325   Median :17.71   Median :0.0000  
##  Mean   :3.597   Mean   :3.217   Mean   :17.85   Mean   :0.4375  
##  3rd Qu.:3.920   3rd Qu.:3.610   3rd Qu.:18.90   3rd Qu.:1.0000  
##  Max.   :4.930   Max.   :5.424   Max.   :22.90   Max.   :1.0000  
##        am              gear            carb      
##  Min.   :0.0000   Min.   :3.000   Min.   :1.000  
##  1st Qu.:0.0000   1st Qu.:3.000   1st Qu.:2.000  
##  Median :0.0000   Median :4.000   Median :2.000  
##  Mean   :0.4062   Mean   :3.688   Mean   :2.812  
##  3rd Qu.:1.0000   3rd Qu.:4.000   3rd Qu.:4.000  
##  Max.   :1.0000   Max.   :5.000   Max.   :8.000
```

2. Build model

```
##
## Call:
## lm(formula = mpg ~ wt + hp, data = mtcars)
##
## Coefficients:
## (Intercept)           wt           hp
##    37.22727     -3.87783     -0.03177
```

Bash shell

```
ls -l
```

```
## total 1164
## -rw-rw-r-- 1 rstudio-user rstudio-user     763 Jul 26 15:38 First R Markdown.Rmd
## -rw-rw-r-- 1 rstudio-user rstudio-user     763 Jul 26 15:38 First-R-Markdown.Rmd
## -rw-rw-r-- 1 rstudio-user rstudio-user 1130032 Jul 26 15:38 First-R-Markdown.html
## drwxrwxr-x 3 rstudio-user rstudio-user    4096 Jul 26 15:38 First-R-Markdown_files
## -rw-rw-r-- 1 rstudio-user rstudio-user   35109 Jul 26 14:55 Polynomial Regression.JPG
## -rw-rw-r-- 1 rstudio-user rstudio-user    5247 Jul 26 15:30 R Data Visualization.r
## -rw-rw-r-- 1 rstudio-user rstudio-user     205 Jul 26 14:27 project.Rproj
```

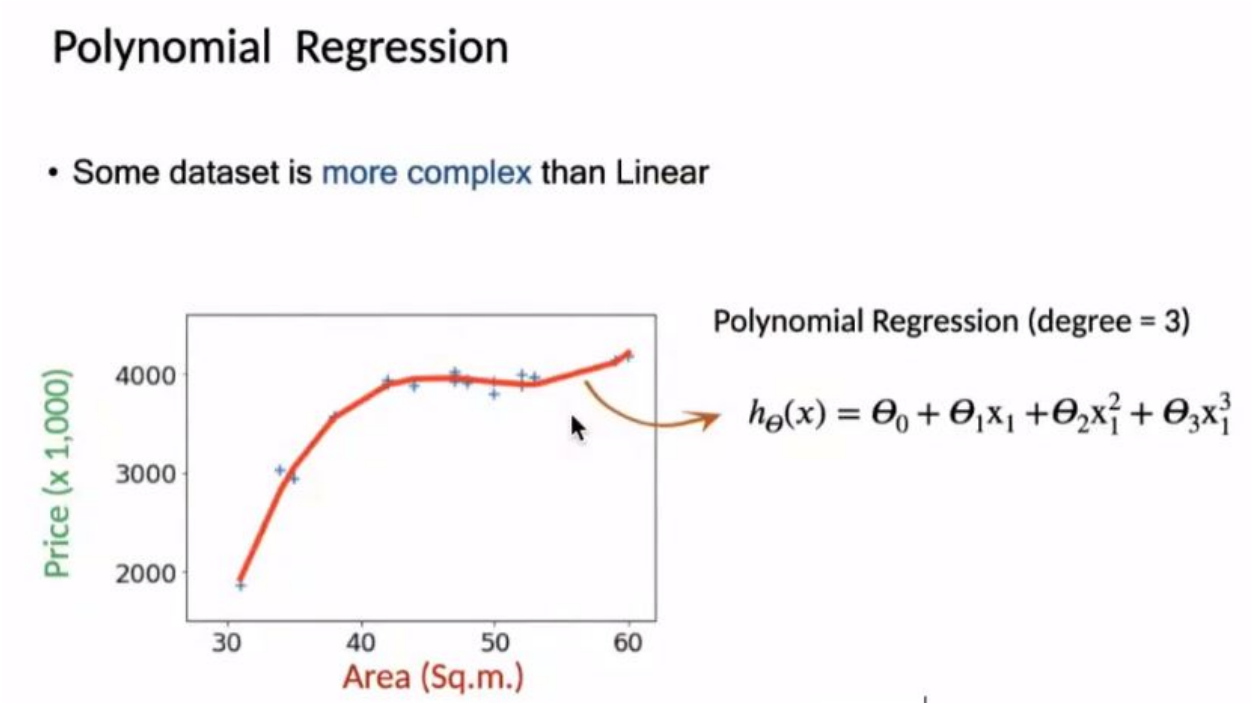


Figure 1: My first pic.