Untitled

Abhijit Dasgupta

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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:

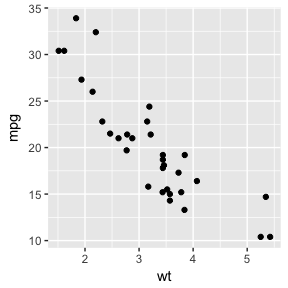
knitr::kable(head(mtcars))

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 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 |
| Valiant | 18.1 | 6 | 225 | 105 | 2.76 | 3.460 | 20.22 | 1 | 0 | 3 | 1 |

## Including Plots

You can also embed plots, for example:

library(ggplot2)  
ggplot(mtcars, aes(wt, mpg))+geom\_point()



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

library(tidyverse)

lm(mpg~wt, data=mtcars)

##   
## Call:  
## lm(formula = mpg ~ wt, data = mtcars)  
##   
## Coefficients:  
## (Intercept) wt   
## 37.285 -5.344

broom::tidy(lm(mpg~wt, data=mtcars))

## term estimate std.error statistic p.value  
## 1 (Intercept) 37.285126 1.877627 19.857575 8.241799e-19  
## 2 wt -5.344472 0.559101 -9.559044 1.293959e-10

lm(mpg~wt, data = mtcars) %>%   
 broom::tidy() %>%   
 knitr::kable()

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| term | estimate | std.error | statistic | p.value |
| (Intercept) | 37.285126 | 1.877627 | 19.857575 | 0 |
| wt | -5.344472 | 0.559101 | -9.559044 | 0 |

You can also add R code inline: The average fuel efficiency of the cars is 20.09 MPG.