Module2 - RMarkdown Document 1

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This is a level 1 header

R Markdown

This is a level 3 header

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.

Here is a link to GOOGLE

Here is a word in **bold** and another word in **bold**.

Here is a word in *italics* and another word in *italics*.

when we comoile our document, we are using the rmarkdown package.

Here are some example R commads:

```
2+2 mean(c(1,2,3,4,5))
```

Here is an example of a non-numbered list:

- Breakfast
 - food
 - * eggs
 - * toast
 - * bacon
 - drink
 - * apple juice
- Lunch
 - taco
- Dinner
 - baked chicken
 - broccoli
 - rice

Here is an example of a non-numbered list:

- 1. Breakfast
 - a. food
 - i. eggs
 - ii. toast

- iii. bacon
- b. drink
 - i. apple juice
- 2. Lunch
 - a. taco
- 3. Dinner
 - a. baked chicken
 - b. broccoli
 - c. rice

Here is an example of blockquote:

This is a block quote. This paragraph has two lines.

- 1. This is a list inside a block quote.
- 2. Second item.

Here is an example of nested blockquote:

This is a block quote. This paragraph has two lines.

This text is nested

Here is an example of blockquote:

```
2+2 mean(c(1,2,3,4,5))
```

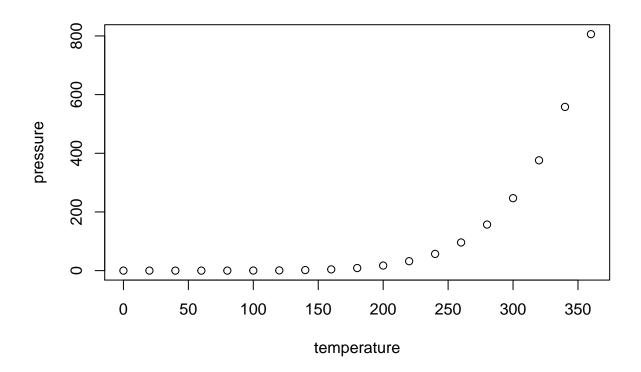
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

summary(cars)

```
##
        speed
                         dist
          : 4.0
                   {\tt Min.}
                              2.00
                           :
##
   Min.
##
   1st Qu.:12.0
                    1st Qu.: 26.00
                    Median : 36.00
##
   Median:15.0
                           : 42.98
##
   Mean
           :15.4
                    Mean
                    3rd Qu.: 56.00
##
    3rd Qu.:19.0
   Max.
           :25.0
                    Max.
                           :120.00
```

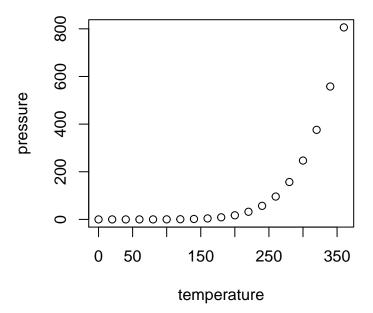
Including Plots

You can also embed plots, for example:



Note that the $\mbox{\it echo} = \mbox{\it FALSE}$ parameter was added to the code chunk to prevent printing of the R code that generated the plot.

plot(pressure)



Insert Tables

with kable () function

Table 1: Top 6 Rows of Cars Dataset

dist	speed
2	4
10	4
4	7
22	7
16	8
10	9

knitr::kable(head(mtcars), digits =2, align = c(rep("l", 4), rep("c", 4), rep("r", 4)))

	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
Mazda RX4	21.0	6	160	110	3.90	2.62	16.46	0	1	4	4
Mazda RX4 Wag	21.0	6	160	110	3.90	2.88	17.02	0	1	4	4
Datsun 710	22.8	4	108	93	3.85	2.32	18.61	1	1	4	1
Hornet 4 Drive	21.4	6	258	110	3.08	3.21	19.44	1	0	3	1

	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
Hornet Sportabout	18.7	8	360	175	3.15	3.44	17.02	0	0	3	2
Valiant	18.1	6	225	105	2.76	3.46	20.22	1	0	3	1

with pandoc formats

Centered Header	Default Aligned	$\begin{array}{c} {\rm Right} \\ {\rm Aligned} \end{array}$	Left Aligned
First	row	12.0	Example of a row that spans multiple lines.
Second	row	5.0	Here's another one. Note the blank line between rows.

Centered	Default	Right	
Header	Aligned	Aligned	Left Aligned
First	row	12.0	Example of a row that spans
			multiple lines.
Second	row	5.0	Here's another one. Note the
			blank line between rows.

With stargazer() for summarizing regresion models and others (see stargazer_models, help page)

Dependent variable:

mpg

model 1

 $\bmod el\ 2$

model 3

(1)

(2)

(3)

xx7+

-5.344***

- -3.878***
- -3.801***
- (0.559)
- (0.633)
- (1.066)

hp

- -0.032***
- -0.031**
- (0.009)
- (0.011)
- disp
- -0.001
- (0.010)

Constant

- 37.285***
- 37.227***
- 37.106***
- (1.878)
- (1.599)
- (2.111)

 ${\bf Observations}$

- 32
- 32
- 32
- R2
- 0.753
- 0.827
- 0.827

Adjusted R2

- 0.745
- 0.815
- 0.808

Residual Std. Error

- 3.046 (df = 30)
- 2.593 (df = 29)
- 2.639 (df = 28)

```
F Statistic 91.375^{***} \text{ (df} = 1; 30) 69.211^{***} \text{ (df} = 2; 29) 44.566^{***} \text{ (df} = 3; 28) Note: p < 0.1; \ p < 0.05; \ p < 0.01
```

correlation matrix with stargazer() function

```
library(stargazer, quietly = TRUE)
#change type according output : latex, html
correlation.matrix <- cor(attitude[,c("rating","complaints","privileges")])
stargazer(correlation.matrix, title="Correlation Matrix", type = 'html')</pre>
```

Correlation Matrix

rating

complaints

privileges

rating

1

0.825

0.426

complaints

0.825

1

0.558

privileges

0.426

0.558

1

Insert an equation

$$Y = \beta_0 + \beta_1 x$$

Insert images

Here is an image inserted

r logo



Figure 1:

Insert an Animated GIF and video (only works in html formats)

#![sunstar](sunstar/sunstar.gif)

Insert text with some footnotes

Here is footnote reference $^{\rm 1}$ and another $^{\rm 2}$

Here is an inline footnote 3

 $^{^1\}mathrm{Here}$ is a footnote.

 $^{^2\}mathrm{Here}$'s one with multiple blocks.

³Inline notes are easier to write, since you don't have to pick an identifier and move down to type the note.