

Beamer in R Markdown Highlights

CMDA GTAs

11/12/2018

R Markdown

This is an R Markdown presentation. 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.

Slide with Bullets

- ▶ Bullet 1
- ▶ Bullet 2
- ▶ Bullet 3

Alternative Way Using Asterics

- ▶ Bullet 4
- ▶ Bullet 5

Slide with R Output

```
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
```

```
x=4
```

```
y=5
```

```
x+y
```

```
## [1] 9
```

Table in 2 Ways

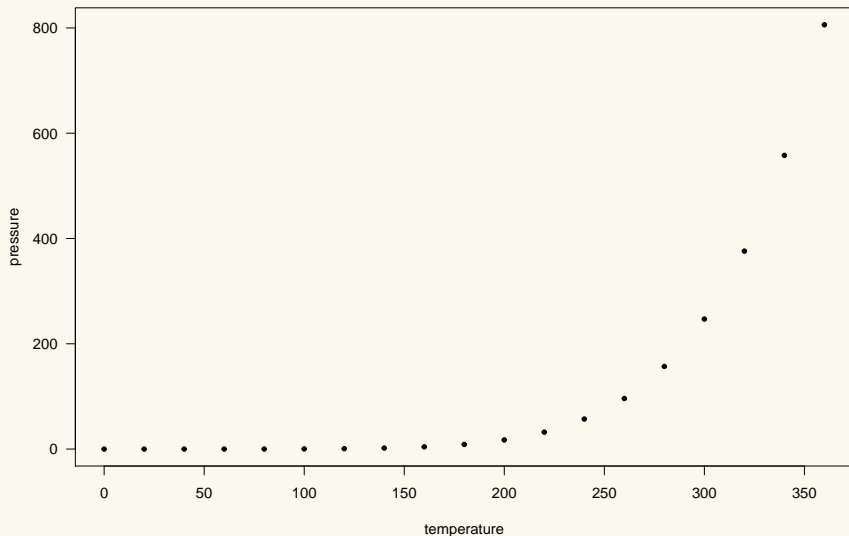
Example	Table	in	HTML
1	2	3	4

```
knitr::kable(mtcars[1:5,1:7], caption='A Knitr Table')
```

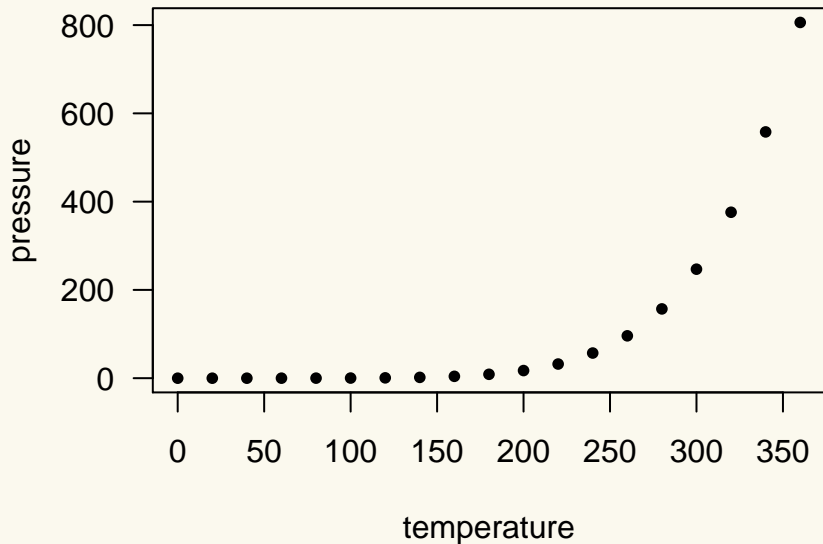
Table 2: A Knitr Table

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

Slide with Plot (No Special Arguments)

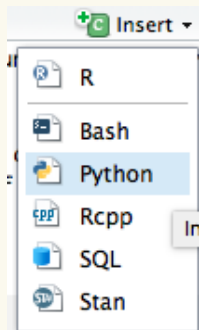


Slide with Plot (With Special Arguments)



Insert an Image

Other languages can be accessed from R studio by:



Other Language Engines

Many other languages are also supported in R markdown, e.g., Python, Julia, C++, and SQL.

```
names(knitr::knit_engines$get())
```

```
## [1] "awk"      "bash"      "coffee"    "gawk"      "groovy"
## [6] "haskell"  "lein"      "mysql"      "node"      "octave"
## [11] "perl"     "psql"      "Rscript"    "ruby"      "sas"
## [16] "scala"    "sed"       "sh"        "stata"     "zsh"
## [21] "highlight" "Rcpp"      "tikz"      "dot"       "c"
## [26] "fortran"  "fortran95" "asy"       "cat"       "asis"
## [31] "stan"     "block"     "block2"    "js"        "css"
## [36] "sql"      "go"        "python"    "julia"
```

Python in R Markdown

```
x = 'Hello, CMDA students !'  
print(x.split(' '))
```

```
## ['Hello,', 'CMDA', 'students', '!']
```

For more information:

- ▶ <https://bookdown.org/yihui/rmarkdown/language-engines.html>
- ▶ <https://blog.rstudio.com/2018/03/26/reticulate-r-interface-to-python/>