

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
```

Tables in 2 Ways

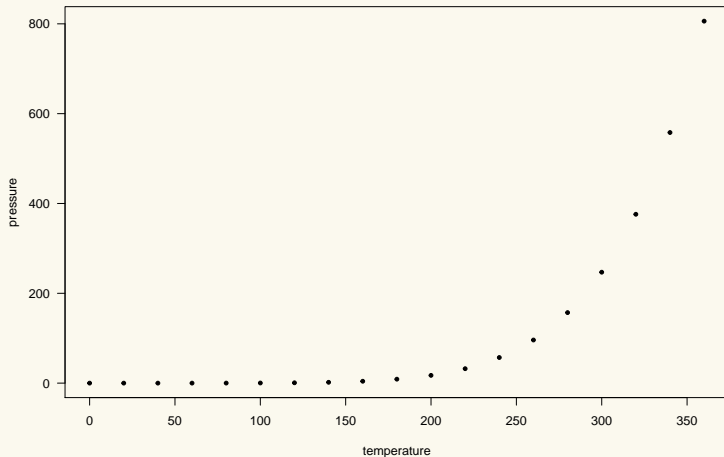
Example	Table	in	HTML
1	2	3	4

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

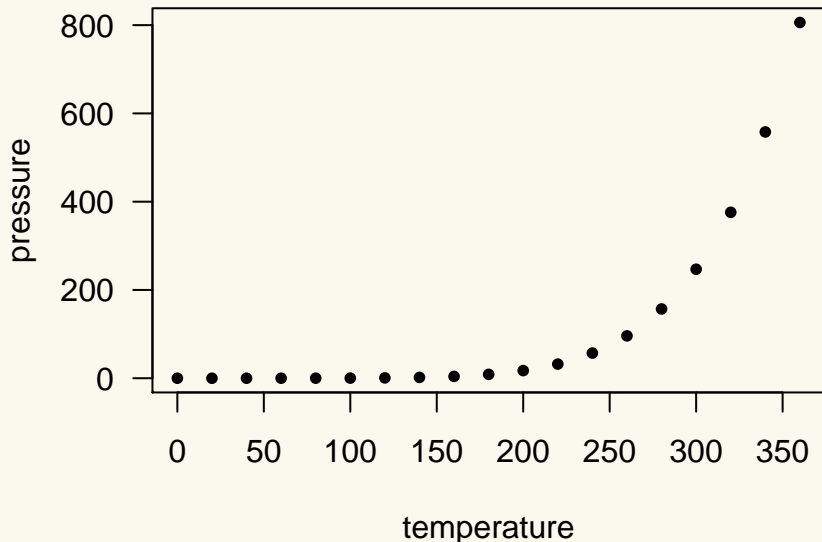
Table 2: A Knitr Table

	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

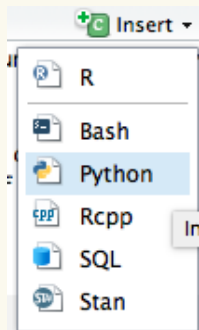
Slide with Plot (No Special Arguments)



Slide with Plot (With Special Arguments)



Insert Images and Other Code Chunk Types



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/>