

A Brief R Markdown Tutorial

Zheng Tian

R Markdown

R Markdown provides an authoring framework for data science. You can use a single R Markdown file to both

- save and execute code
- generate high quality reports that can be shared with an audience

An R Markdown file is a plain text file that has the extension `.Rmd`. In RStudio, you can easily create a new R Markdown file by click **File** -> **New File** -> **R Markdown**. Next, at the left panel in the window jumping up, choose **Document**, and at the right panel, enter the title and author name of the document. Then, choose **HTML** as the default output format and click **OK**. A short R Markdown document is generated with some elements in it as a template.

How it works

To create an HTML document from a R Markdown file, click **Knit** button in RStudio. A built-in HTML browser will be invoked to have a preview of the document. You can also create a PDF file by click the little arrow beside **Knit** button, and choose **Knit to PDF**.

```
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
```

Including Plots

You can also embed plots, for example:



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