

# Introduction to R Markdown

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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>.

Using the **rmarkdown** package (*pandoc* version 1.12.3 or higher is required), the rendering command is

```
rmarkdown::render("your rmd file")
```

The default is HTML output (because *output* has been specified as such in the heading of the current document). If you would like a markdown (.md) document, add an argument:

```
rmarkdown::render("your rmd file", md_document())
```

The same way, PDF output (*pdflatex* is needed, that is *texlive-base*, *texlive-latex-base*, *texlive-latex-extra*, and *texlive-fonts-recommended*):

```
rmarkdown::render("your rmd file", pdf_document())
```

or OpenOffice or Word document:

```
rmarkdown::render("your rmd file", odt_document())  
rmarkdown::render("your rmd file", word_document())
```

or *beamer* or *slidy* presentation:

```
rmarkdown::render("your rmd file", beamer_presentation())  
rmarkdown::render("your rmd file", slidy_presentation())
```

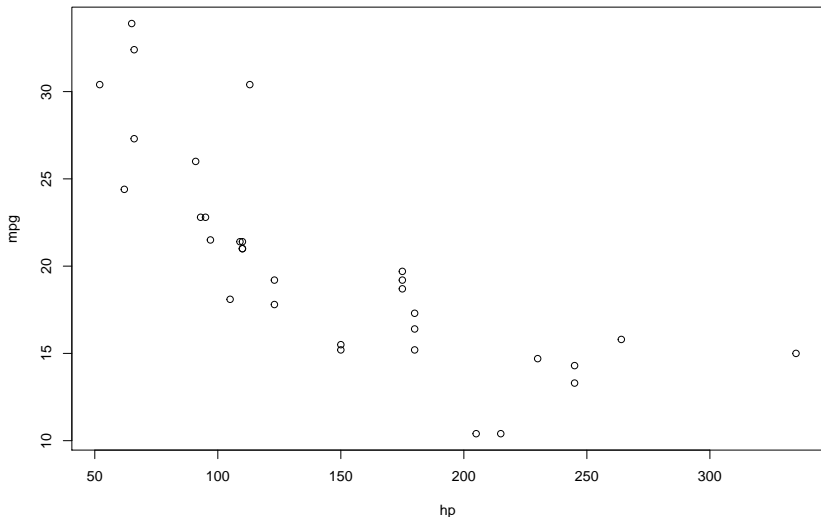
When the document is generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
summary(mtcars)
```

```
##           mpg           cyl           disp           h
##  Min.      :10.40   Min.      :4.000   Min.      : 71.1   Min.
## 1st Qu.:15.43   1st Qu.:4.000   1st Qu.:120.8   1st Qu
## Median :19.20   Median :6.000   Median :196.3   Median
## Mean    :20.09   Mean    :6.188   Mean    :230.7   Mean
## 3rd Qu.:22.80   3rd Qu.:8.000   3rd Qu.:326.0   3rd Qu
## Max.    :33.90   Max.    :8.000   Max.    :472.0   Max.
##           drat           wt           qsec           v
##  Min.      :2.760   Min.      :1.513   Min.      :14.50   Min.
## 1st Qu.:3.080   1st Qu.:2.581   1st Qu.:16.89   1st Qu
## Median :3.695   Median :3.325   Median :17.71   Median
## Mean    :3.597   Mean    :3.217   Mean    :17.85   Mean
## 3rd Qu.:3.920   3rd Qu.:3.610   3rd Qu.:18.90   3rd Qu
## Max.    :4.930   Max.    :5.424   Max.    :22.90   Max.
```

You can also embed plots, for example:

**Mileage per Horsepower**



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