introduction

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R Markdown

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.

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:

```r
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.

Our own chunk

We will calculate $\sqrt{2} - e^{-2}$:

```r
sqrt(2) - exp(-2)
```

```
## [1] 1.278878
```

```r
library(magic)
```

```
Loading required package: abind
```

```r
magic(6)
```

```
     [,1] [,2] [,3] [,4] [,5] [,6]
[1,]    7    6   35   34   15   14
[2,]    8    5   33   36   16   13
[3,]   27   26   19   18   11   10
[4,]   25   28   20   17    9   12
[5,]   23   22    3    2   31   30
[6,]   21   24    1    4   29   32
```

```r
library(car)
```

```
## Loading required package: carData
```

```r
head(cars,3)
```

```
##   speed dist
## 1     4    2
## 2     4   10
## 3     7    4
```