

# PDF R Markdown Tutorial

*Jennifer Fouquier*

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## R Markdown Demo

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>.

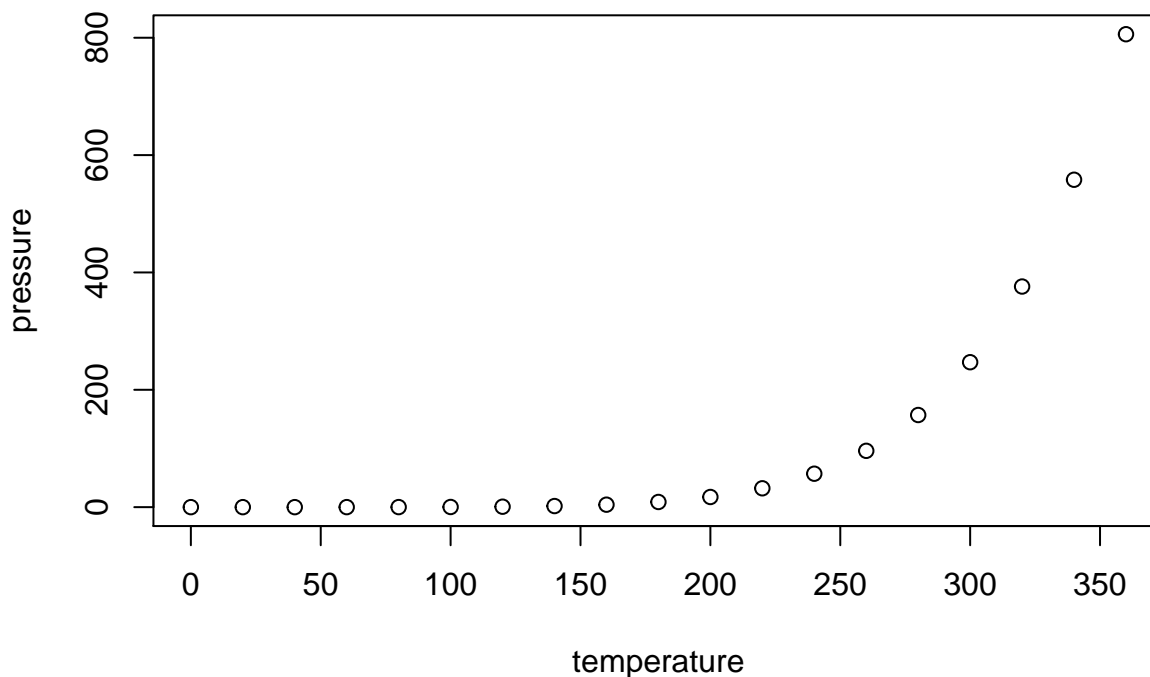
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document.

You can embed an R code chunk like this:

```
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
```

We can include plots



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

We can make different header levels.

Some headers have different line spacing.

## Header 1

### Header 2

#### Header 3

#### Header 4

#### Header 5

#### Header 6

We can add links:

This is a link. Try clicking it!

Show that code can be embeded in text

```
teams = 12
players_per_team = 11
total_players = teams * players_per_team
```

The round has 132 players in total.

We can also make tables very quickly

```
A = c("1", "2", "3", "4")
B = c(5,10,15,20)
Bacteria = c("Prevotella", "Bacteroides", "Pseudomonas", "Borrelia")
dataframe = data.frame(A, B, Bacteria)
knitr::kable(dataframe)
```

A	B	Bacteria
1	5	Prevotella
2	10	Bacteroides
3	15	Pseudomonas
4	20	Borrelia

We can create nice math Typography

We can write nice math like  $A = \pi \times r^2$

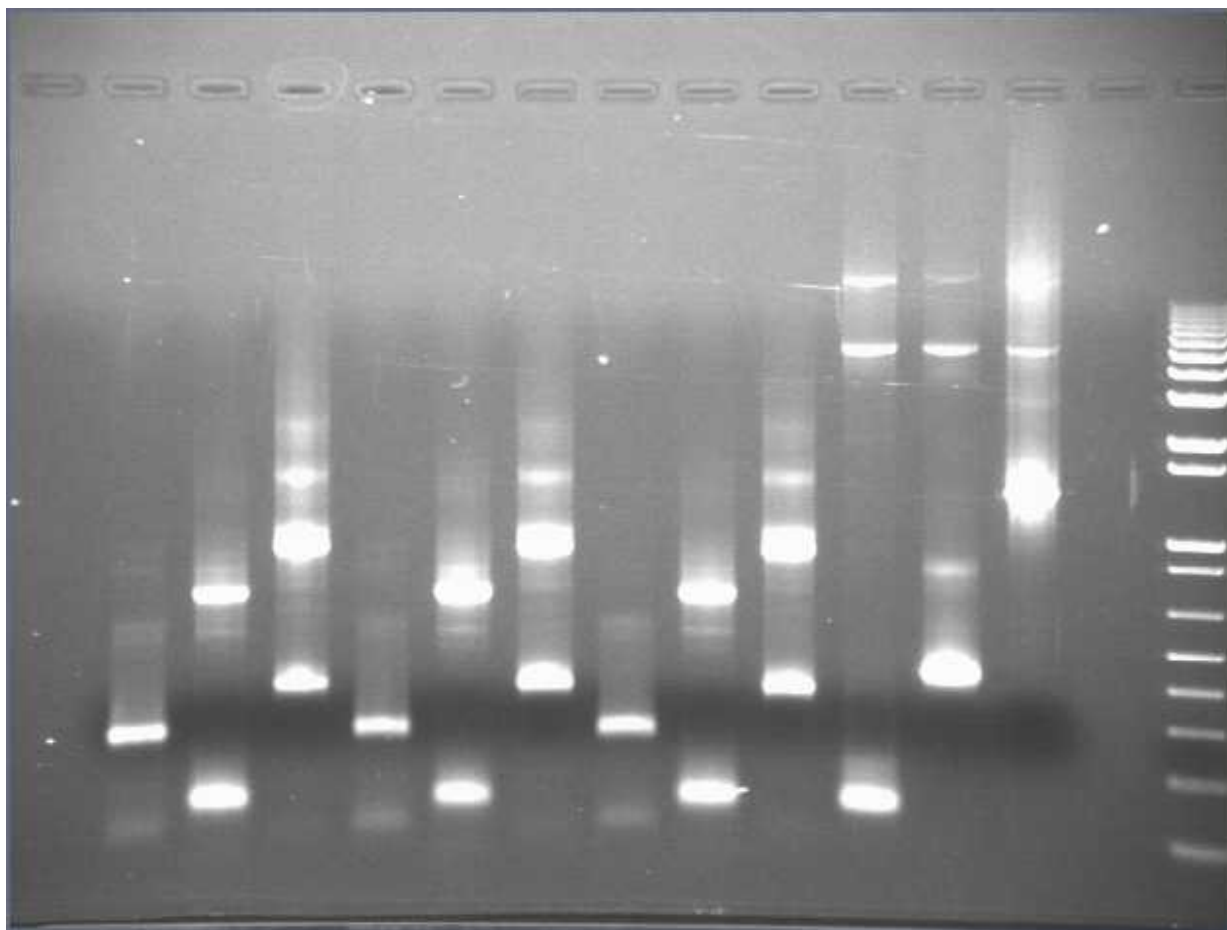


Figure 1: Writing in here will add text to a figure legend.

We can put Python code into Rmarkdown.

```
a = 324
b = 24
c = a-b
print 'a-b is', c
```

```
## a-b is 300
```

Insert photos that are in the PWD

For extra options see this cheat sheet:

<https://www.rstudio.com/wp-content/uploads/2015/02/rmarkdown-cheatsheet.pdf>