

# day 2 data visualization

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2023-02-28

## 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>.

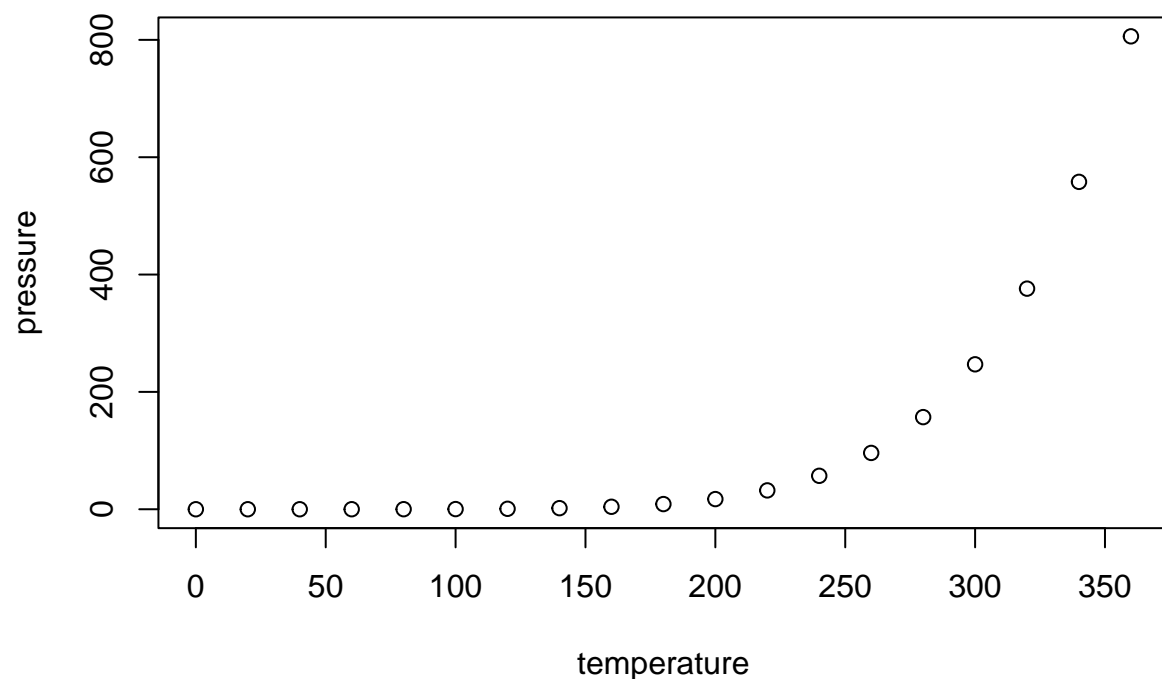
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
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.

```
acacia <- read.csv(file = "../data-raw/ACACIA_DREPANOLOBIUM_SURVEY.txt",
  sep = "\t",
  na.strings = 'dead')
```

```
head(acacia)
```

##	SURVEY	YEAR	SITE	BLOCK	TREATMENT	PLOT	ID	HEIGHT	AXIS1	AXIS2	CIRC
## 1	1	2012	SOUTH	1	TOTAL	S1TOTAL	581	2.25	2.75	2.15	20
## 2	1	2012	SOUTH	1	TOTAL	S1TOTAL	582	2.65	4.10	3.90	28
## 3	1	2012	SOUTH	1	TOTAL	S1TOTAL	3111	1.50	1.70	0.85	17
## 4	1	2012	SOUTH	1	TOTAL	S1TOTAL	3112	2.01	1.80	1.60	12
## 5	1	2012	SOUTH	1	TOTAL	S1TOTAL	3113	1.75	1.84	1.42	13
## 6	1	2012	SOUTH	1	TOTAL	S1TOTAL	3114	1.65	1.62	0.85	15
##	FLOWERS	BUDS	FRUITS	ANT							
## 1	0	0	10	CS							
## 2	0	0	150	TP							
## 3	2	1	50	TP							
## 4	0	0	75	CS							
## 5	0	0	20	CS							
## 6	0	0	0	E							

```
library(ggplot2)
ggplot(data = acacia, mapping = aes(x = HEIGHT, y = FRUITS, color = ANT)) +
  geom_point(size = 3, alpha = 0.5) +
  facet_wrap(~ANT)
```

## Warning: Removed 4 rows containing missing values ('geom\_point()').

