

ggplot2-intro

Paul M. Magwene

9/6/2018

Data frame example

```
head(iris)
```

##	Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
## 1	5.1	3.5	1.4	0.2	setosa
## 2	4.9	3.0	1.4	0.2	setosa
## 3	4.7	3.2	1.3	0.2	setosa
## 4	4.6	3.1	1.5	0.2	setosa
## 5	5.0	3.6	1.4	0.2	setosa
## 6	5.4	3.9	1.7	0.4	setosa

Data + Geometric Representation + Aesthetic qualities

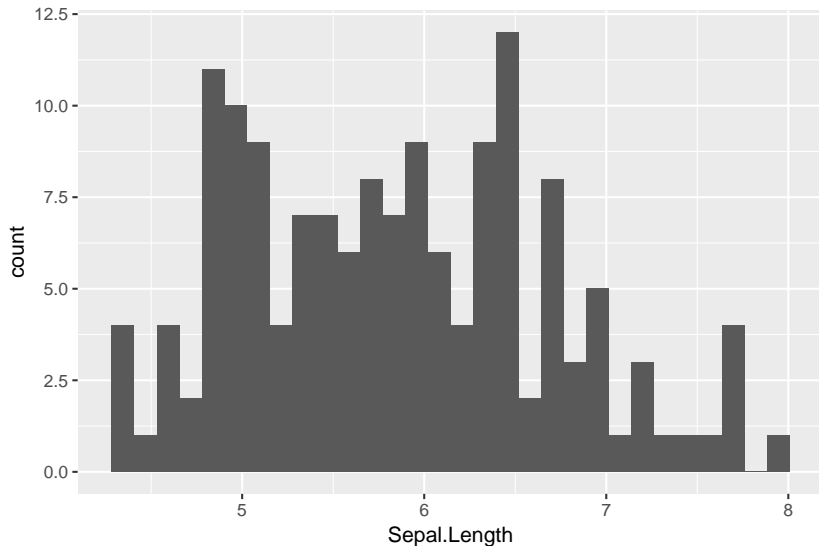
```
library(ggplot2) # import ggplot2 functions
```

```
ggplot(data = <DATA>) + <GEOM_FUNCTION>(mapping = aes(<MAPPINGS>))
```

Example 1

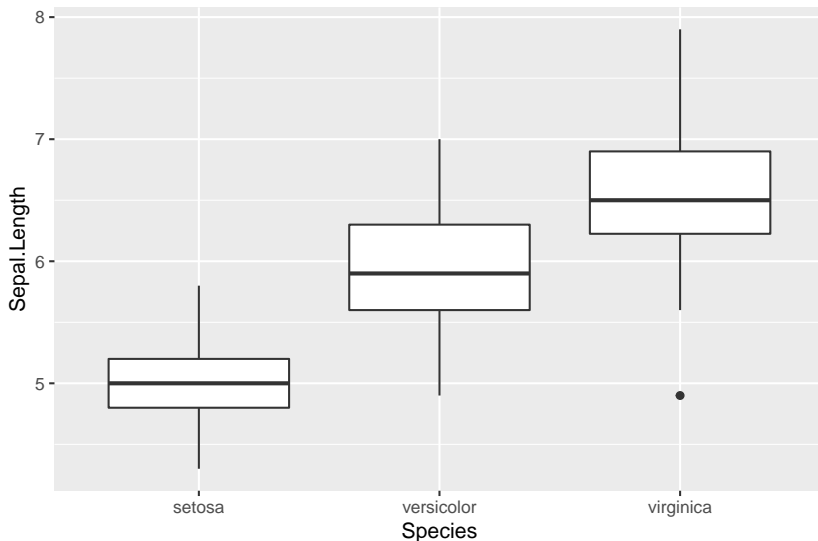
```
ggplot(data = iris) + geom_histogram(mapping = aes(x = Sepal.Length))
```

```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



Example 2

```
ggplot(data = iris) + geom_boxplot(mapping = aes(x = Species,  
                                                  y = Sepal.Length))
```



Example 3

```
ggplot(data = iris) + geom_boxplot(mapping = aes(x = Species,  
                                                  y = Sepal.Length)) +  
  geom_jitter(mapping = aes(x = Species,  
                             y = Sepal.Length,  
                             color = Species),  
              width = 0.2)
```

