Introduction to GGPlot2

Sina

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Reading data and assign variables

```
df <- read.csv('iris.csv')
names(df)
```

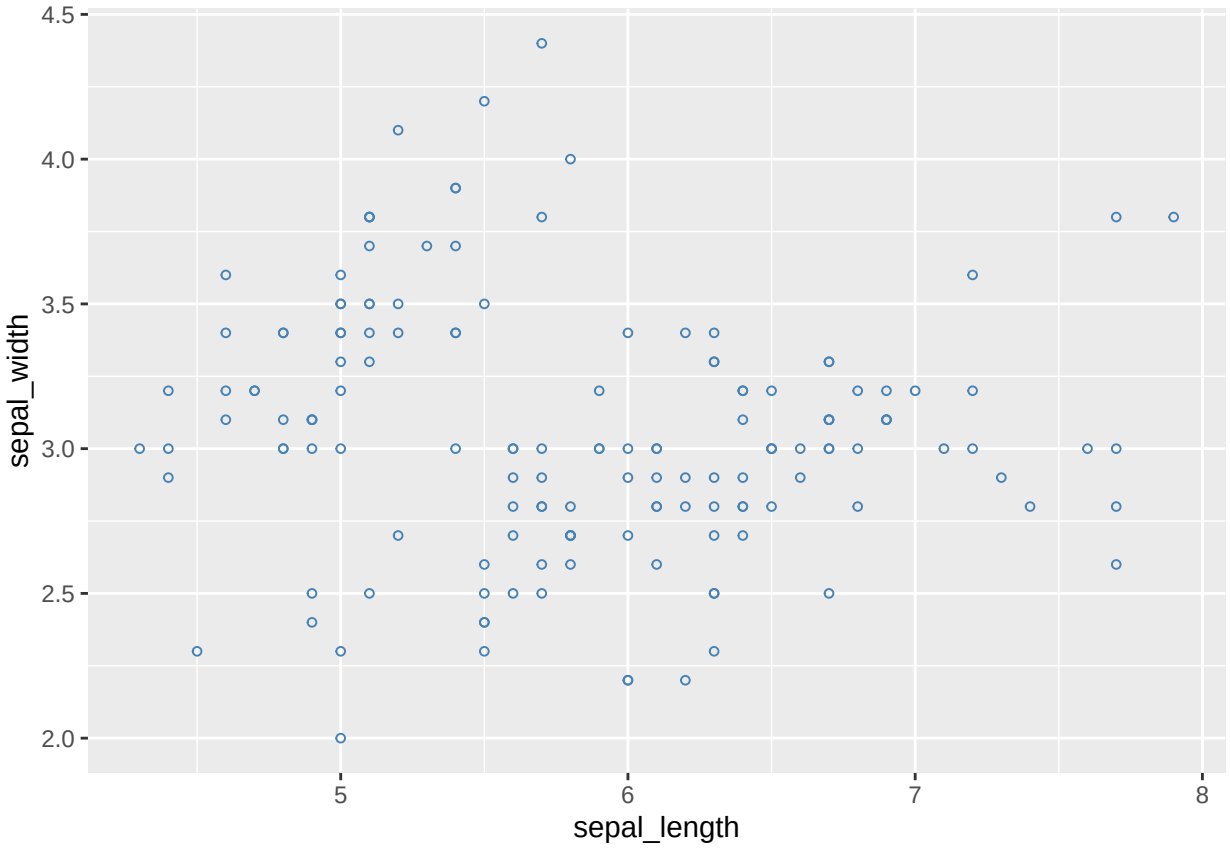
```
## [1] "sepal_length" "sepal_width"  "petal_length" "petal_width"  "species"
```

```
sepal_length <- df[['sepal_length']]
sepal_width <- df[['sepal_width']]
petal_length <- df[['petal_length']]
petal_width <- df[['petal_width']]
species <- df[['species']]
```

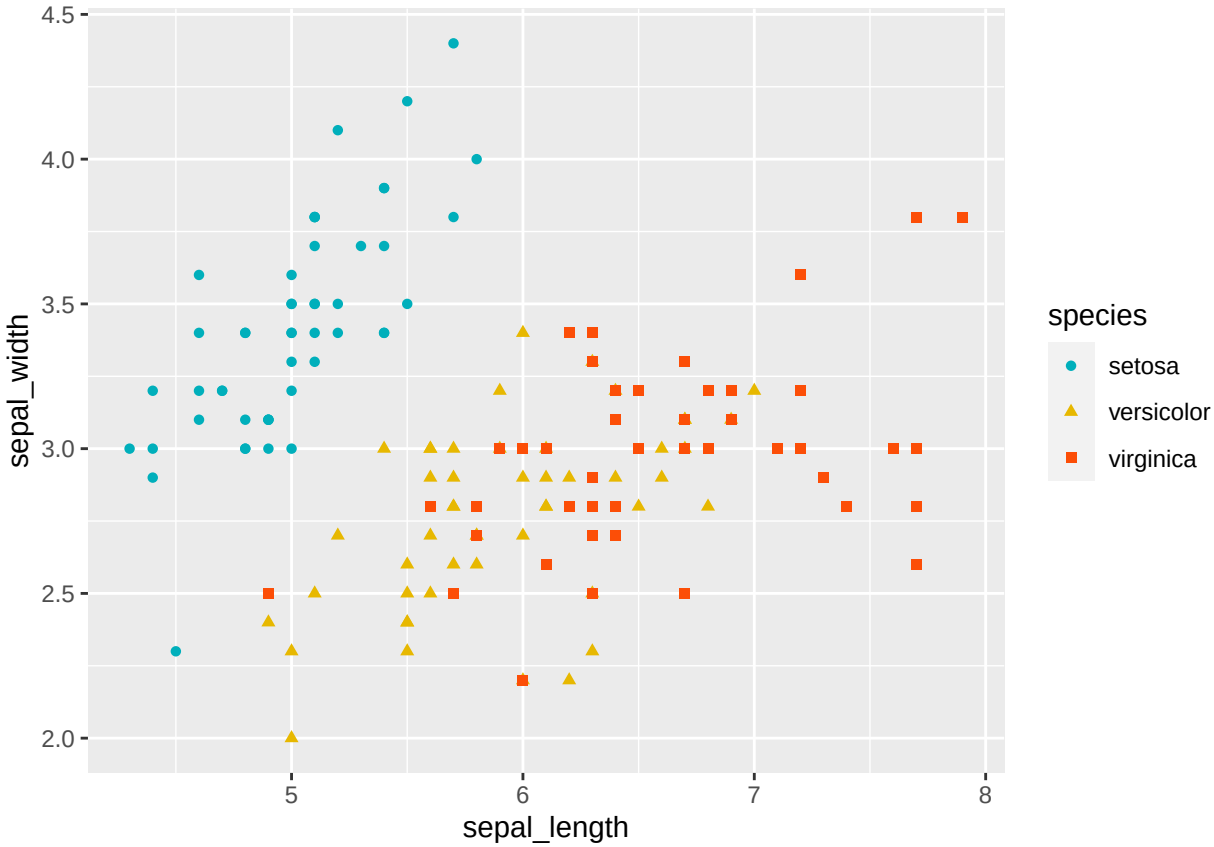
Example of plots

ggplot(data.frame,)

```
# Example 01
# Scatter Plot
library(ggplot2)
ggplot(iris, aes(x=sepal_length, y=sepal_width))+
  geom_point(size=1.2, color='steelblue', shape=21)
```

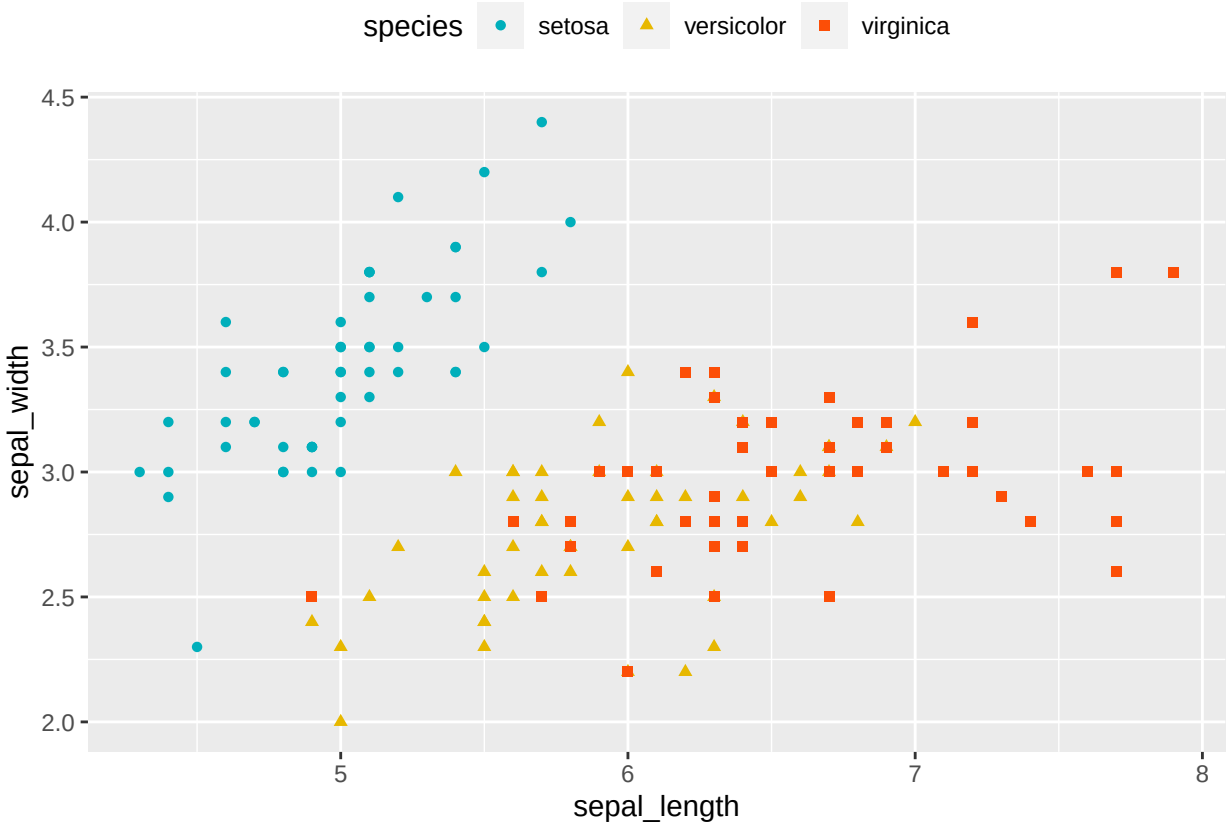



```
#Example 02
p <- ggplot(df, aes(x=sepal_length, y=sepal_width))+
  # Control points color by groups
  geom_point(aes(color=species, shape=species))+
  # Use the scale_color_manual() function
  scale_color_manual(values = c("#00AFBB", "#E7B800", "#FC4E07"))
print(p)
```



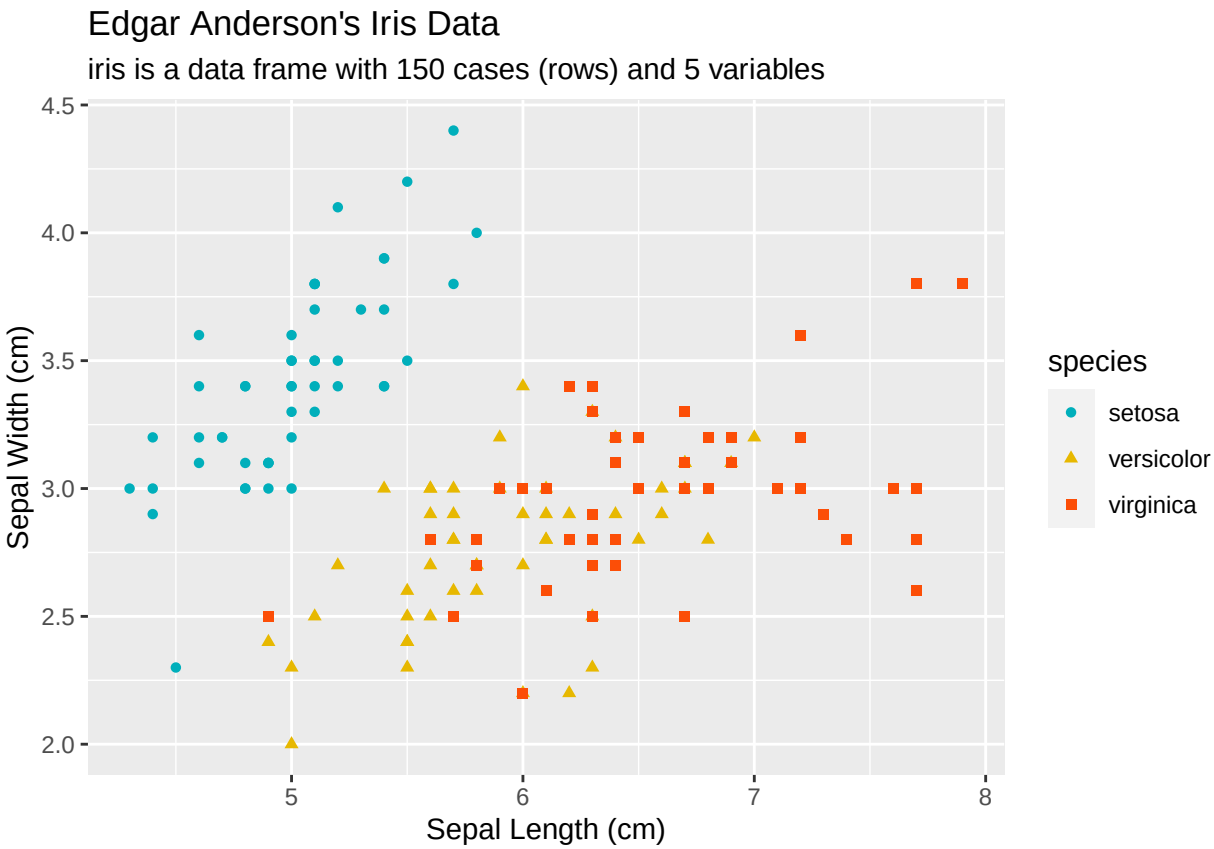
Legend Posision

```
p + theme(legend.position='top')
```



Titles and axis labels

```
p + labs(
  title = "Edgar Anderson's Iris Data",
  subtitle = "iris is a data frame with 150 cases (rows) and 5 variables",
  x = "Sepal Length (cm)", y = "Sepal Width (cm)"
  )
```


Edgar Anderson's Iris Data
iris is a data frame with 150 cases (rows) and 5 variables
Sepal Width (cm)
Sepal Length (cm)
4.5
4.0
3.5
3.0
2.5
2.0
5
6
7
8
species
setosa
versicolor
virginica