The basic R plotting

Step 1:

Load the R01_3_1_plot().R

Step 2:

Run the script

Result:

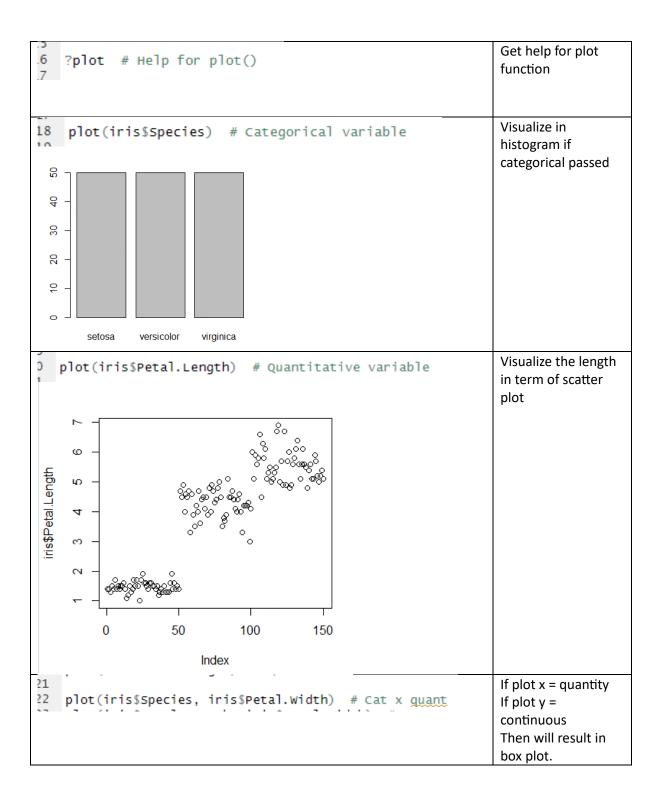
```
In file(file, "rt"):
 cannot open file 'heights.csv': No such file or directory
> library(datasets) # Load/unload base packages manually
> head(iris)
 Sepal.Length Sepal.Width Petal.Length Petal.Width Species
                               1.4 0.2 setosa
         5.1 3.5
2
         4.9
                   3.0
                               1.4
                                         0.2 setosa
         4.7
3
                   3.2
                              1.3
                                         0.2 setosa
4
         4.6
                   3.1
                              1.5
                                         0.2 setosa
5
                                          0.2 setosa
         5.0
                   3.6
                               1.4
                               1.7
6
         5.4
                   3.9
                                          0.4 setosa
> |
```

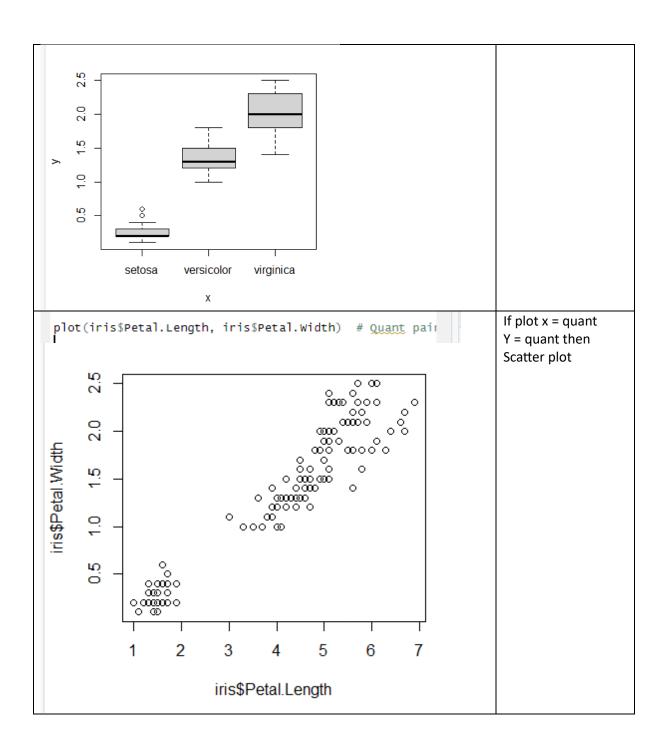
Step 3:

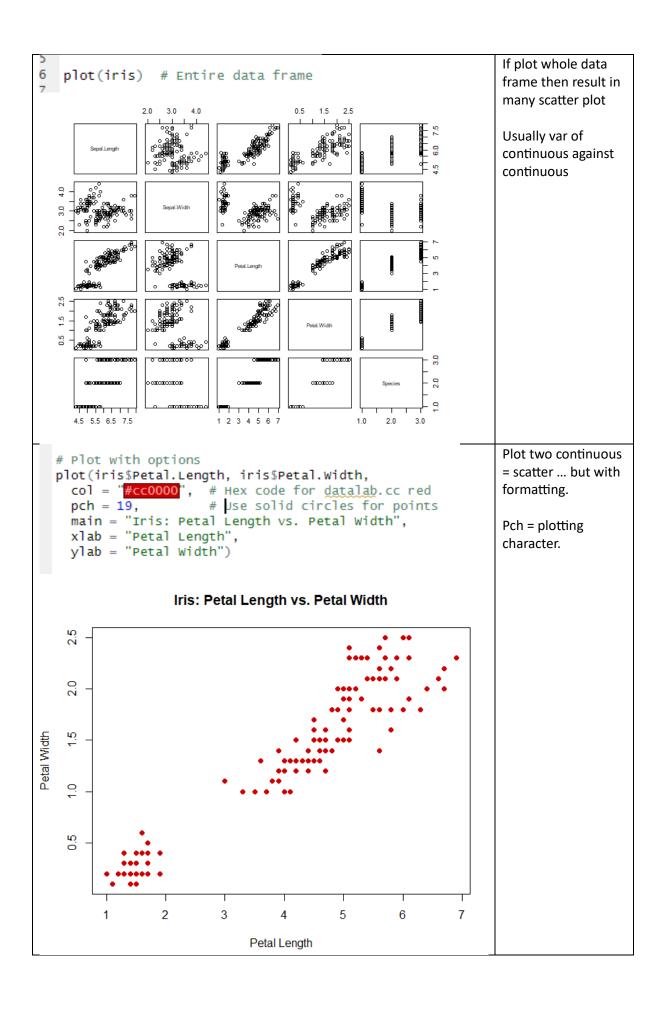
Try run the lines:

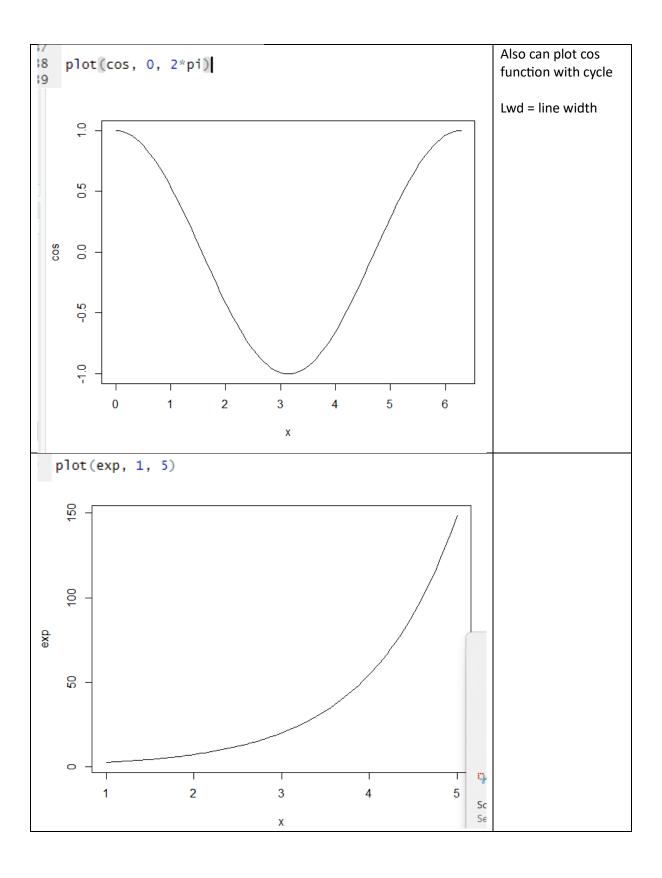
- Click the line you want to run
- Press the run
- R studio run it line by line

```
?plot # Help for plot()
plot(iris$Species) # Categorical variable
plot(iris$Petal.Length) # Quantitative variable
plot(iris$Species, iris$Petal.Width) # Cat x quant
plot(iris$Petal.Length, iris$Petal.Width) # Quant pair
plot(iris) # Entire data frame
# Plot with options
plot(iris$Petal.Length, iris$Petal.Width,
col = "#cc0000", # Hex code for datalab.cc red
pch = 19, # Use solid circles for points
main = "Iris: Petal Length vs. Petal Width",
xlab = "Petal Length",
ylab = "Petal Width")
plot(cos, 0, 2*pi)
plot(exp, 1, 5)
plot(dnorm, -3, +3)
# Formula plot with options
plot(dnorm, -3, +3,
col = "#cc0000",
lwd = 5.
main = "Standard Normal Distribution",
xlab = "z-scores",
ylab = "Density")
# Clear packages
detach("package:datasets", unload = TRUE)
# Clear plots
dev.off() # But only if there IS a plot
# Clear console
cat("\014") # ctrl+L
# Clear mind:)
```









```
2 plot(dnorm, -3, +3)
            4.
    dnorm
           0.2
            0.1
                       -3
                                        -2
                                                         -1
                                                                           0
                                                                                             1
                                                                                                              2
                                                                                                                                3
                                                                           X
# Formula plot with options

plot(dnorm, -3, +3,

col = "#cc0000",

lwd = 5,

main = "Standard Normal Distribution",

xlab = "z-scores",

ylab = "Density")
                                                                                                                                              Col = colour
```

# CLEAN UP ###################################	
# Clear packages	
detach("package:datasets", unload = TRUE)	
# Clear plots dev.off() # But only if there IS a plot	
# Clear console cat("\014") # ctrl+L	
# Clear mind :)	