R Notebook

This is an R Markdown Notebook. When you execute code within the notebook, the results appear beneath the code.

Try executing this chunk by clicking the *Run* button within the chunk or by placing your cursor inside it and pressing *Ctrl+Shift+Enter*.

```
set.seed(1001)
x1 = 1:100 + rnorm(100, mean=0, sd=15)
y1 = 1:100
pdf("all_plots.pdf", width = 8, height = 10)
```

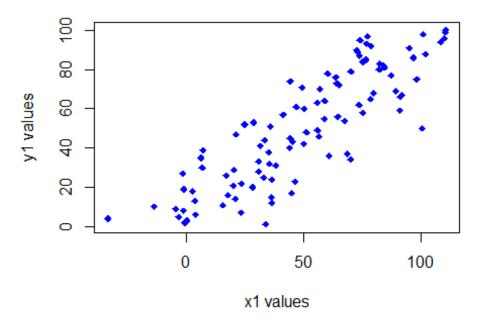
When you save the notebook, an HTML file containing the code and output will be saved alongside it (click the *Preview* button or press *Ctrl+Shift+K* to preview the HTML file).

The preview shows you a rendered HTML copy of the contents of the editor. Consequently, unlike *Knit*, *Preview* does not run any R code chunks. Instead, the output of the chunk when it was last run in the editor is displayed.

Scatter Plot of x1 vs y1 hi there 0 70 0 80 0 100 x1 values

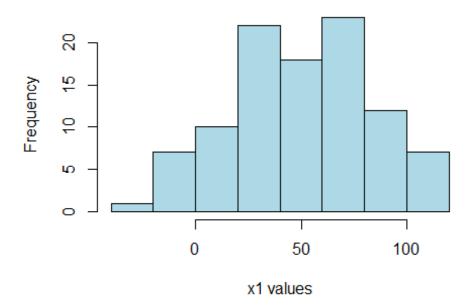
```
plot(x1, y1,
    main = "Scatter Plot with pch=18",
    xlab = "x1 values",
    ylab = "y1 values",
    col = "blue",
    pch = 18)
```

Scatter Plot with pch=18



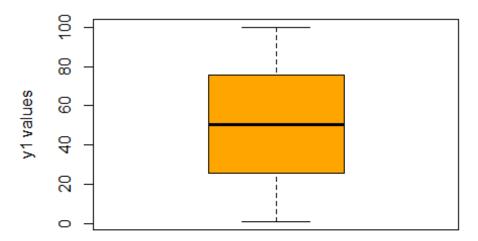
```
hist(x1,
    main = "Histogram of x1",
    xlab = "x1 values",
    col = "lightblue",
    border = "black")
```

Histogram of x1

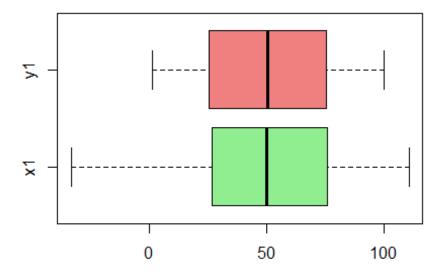


```
boxplot(y1,
    main = "Boxplot of y1",
    ylab = "y1 values",
    col = "orange")
```

Boxplot of y1



Boxplots of x1 and y1

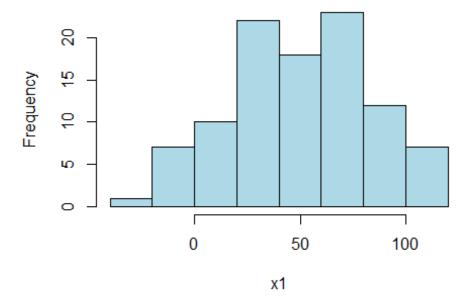


Boxplot of x1 (2,1 layout)

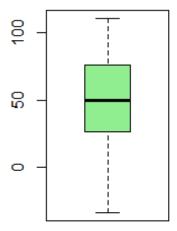


```
hist(x1,
    main = "Histogram of x1 (2,1 layout)",
    col = "lightblue",
    border = "black")
```

Histogram of x1 (2,1 layout)

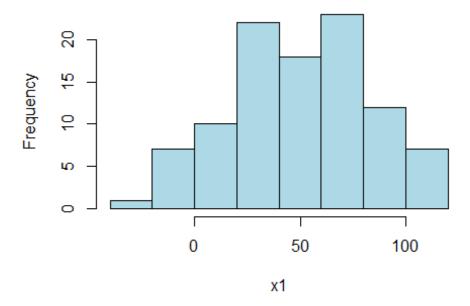


Boxplot of x1 (1,2 layou



```
hist(x1,
    main = "Histogram of x1 (1,2 layout)",
    col = "lightblue",
    border = "black")
```

Histogram of x1 (1,2 layout)



```
pdf("my_plots.pdf")
par(mfrow=c(2,2))
plot(x1, y1, main="Scatter Plot", xlab="x1", ylab="y1", col="blue", pch=19)
hist(x1, main="Histogram of x1", col="lightblue")
boxplot(y1, main="Boxplot of y1", col="orange")
boxplot(x1, y1, names=c("x1", "y1"), main="Boxplots", col=c("lightgreen", "lightcoral"))

dev.off()
## png
## 2
# Ouvrir un fichier PDF pour sauvegarder les graphiques
pdf("mes_graphiques.pdf")
```