Project:Extreme Plotting in R

Code

This is a R markdown on plots in R with variations.

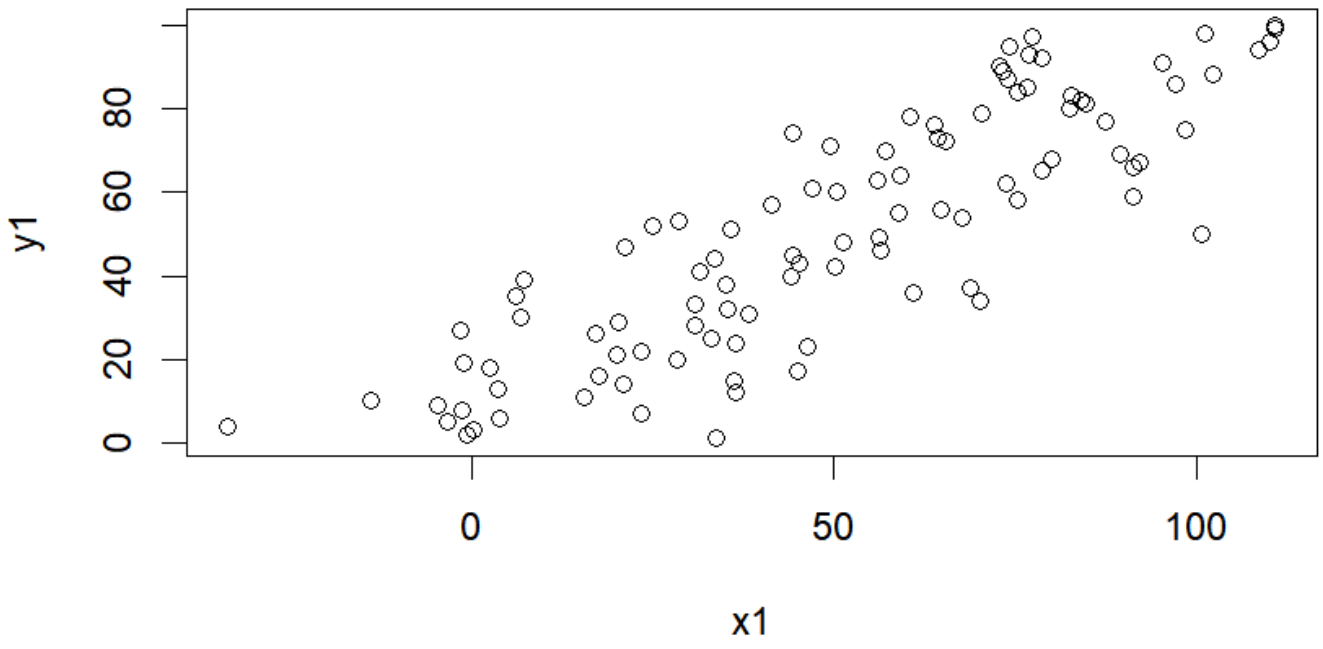
DATASET

Hide

```
set.seed(1001)
x1 = 1:100 + rnorm(100, mean = 0, sd = 15)
y1 = 1:100
```

Hide

```
plot(x = x1, y = y1)
```

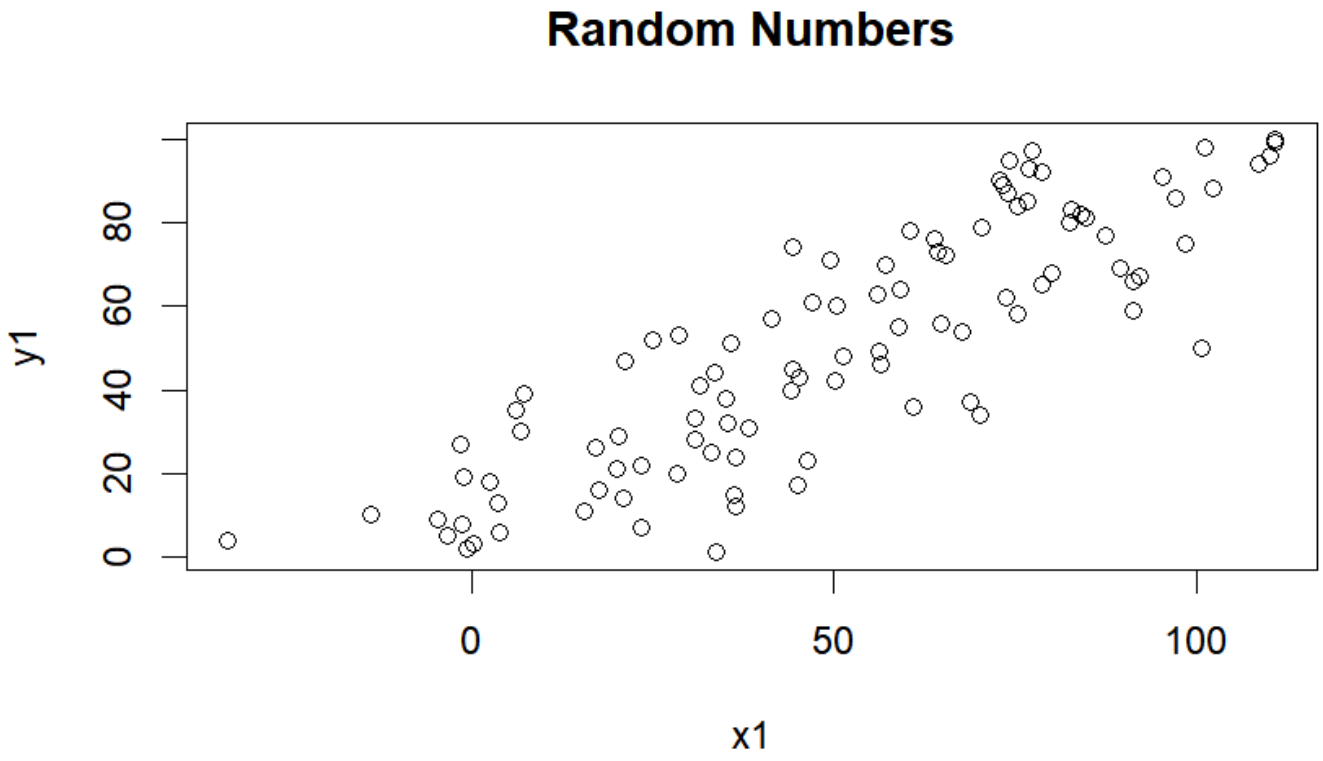


Hide

```
# mtext(side = 2, text = 'hi there')
```

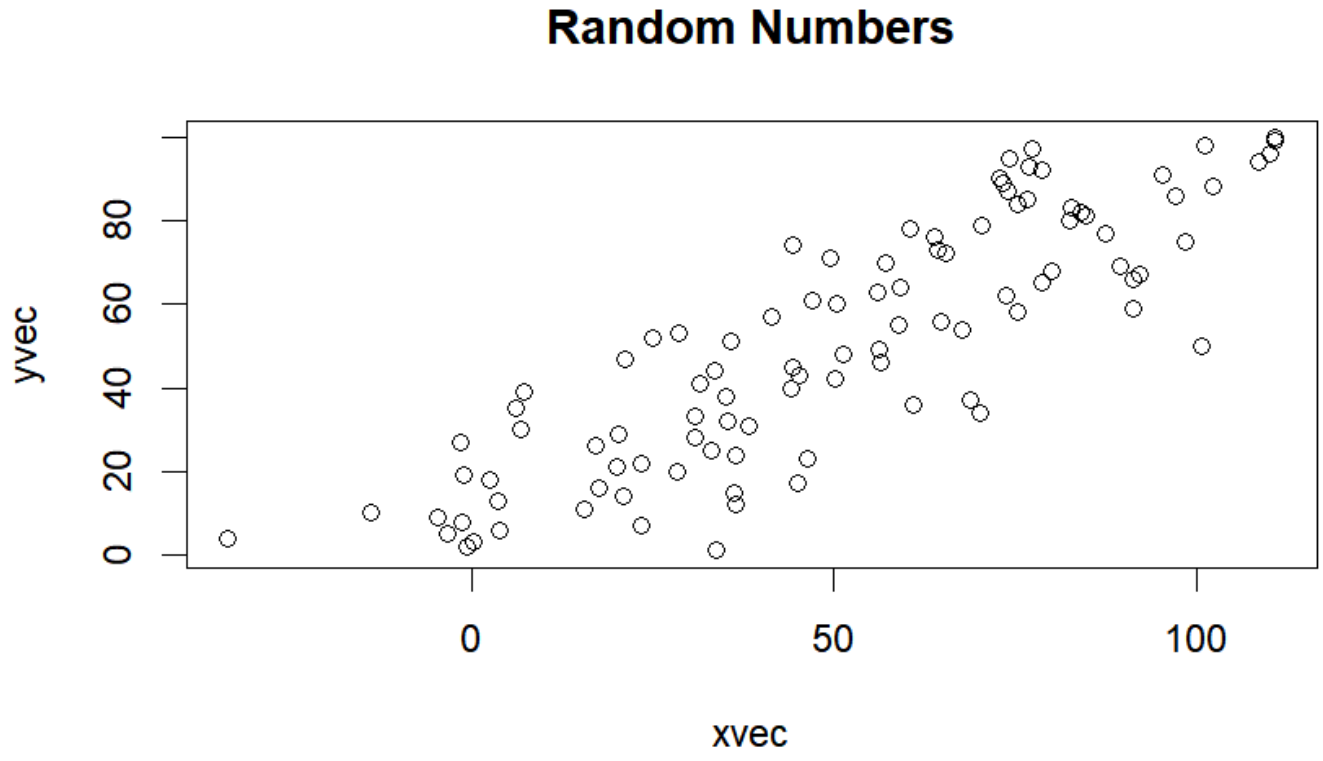
Hide

```
plot(x = x1, y = y1, main = 'Random Numbers')
```



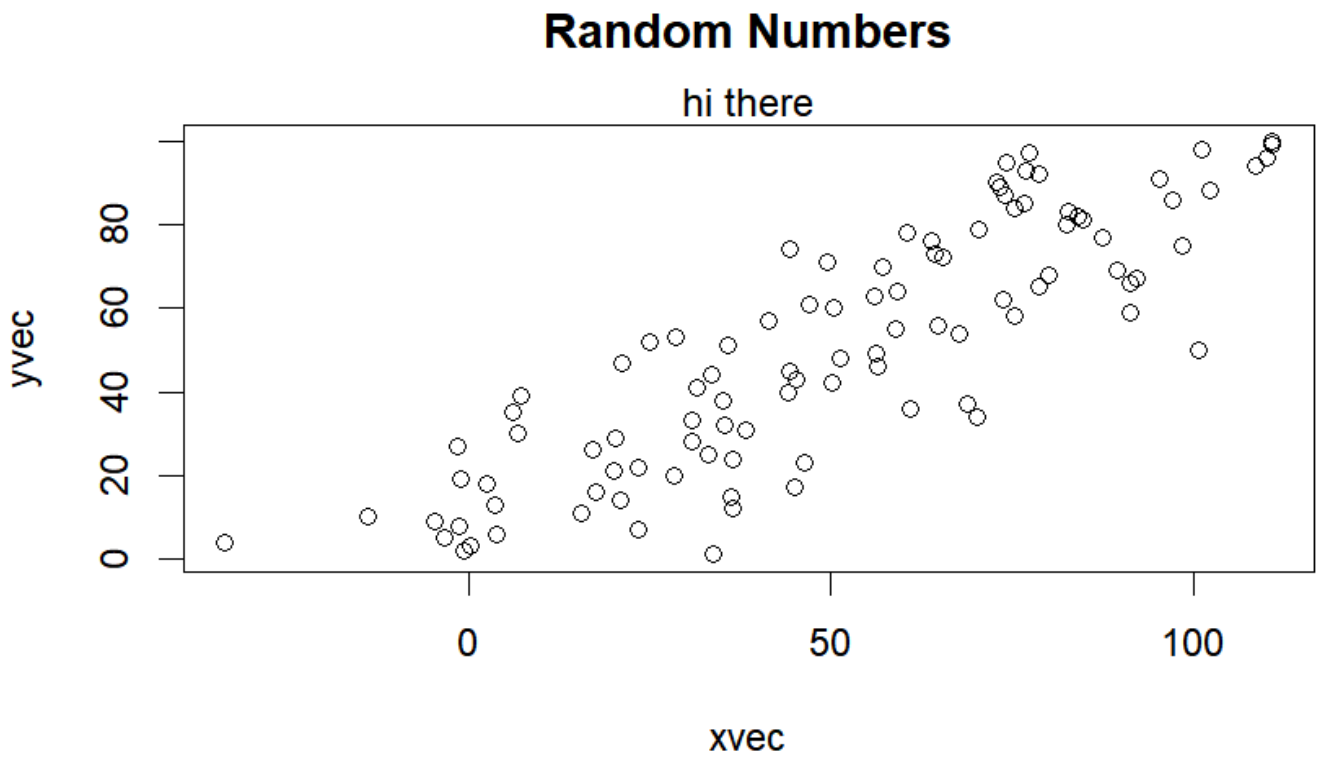
Hide

```
plot(x = x1, y = y1, main = 'Random Numbers', xlab = 'xvec', ylab = 'yvec')
```



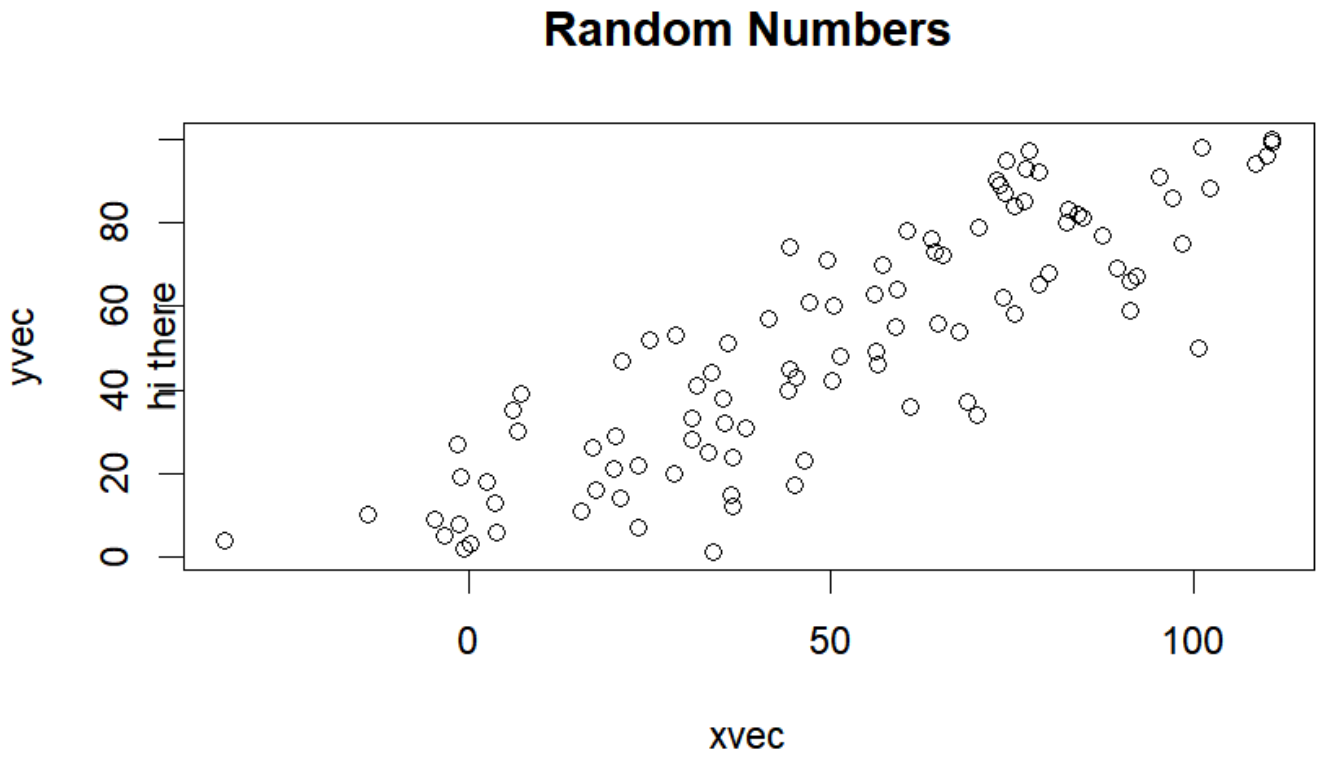
Hide

```
plot(x = x1, y = y1, main = 'Random Numbers', xlab = 'xvec', ylab = 'yvec')
mtext(side = 3, text = 'hi there')
```



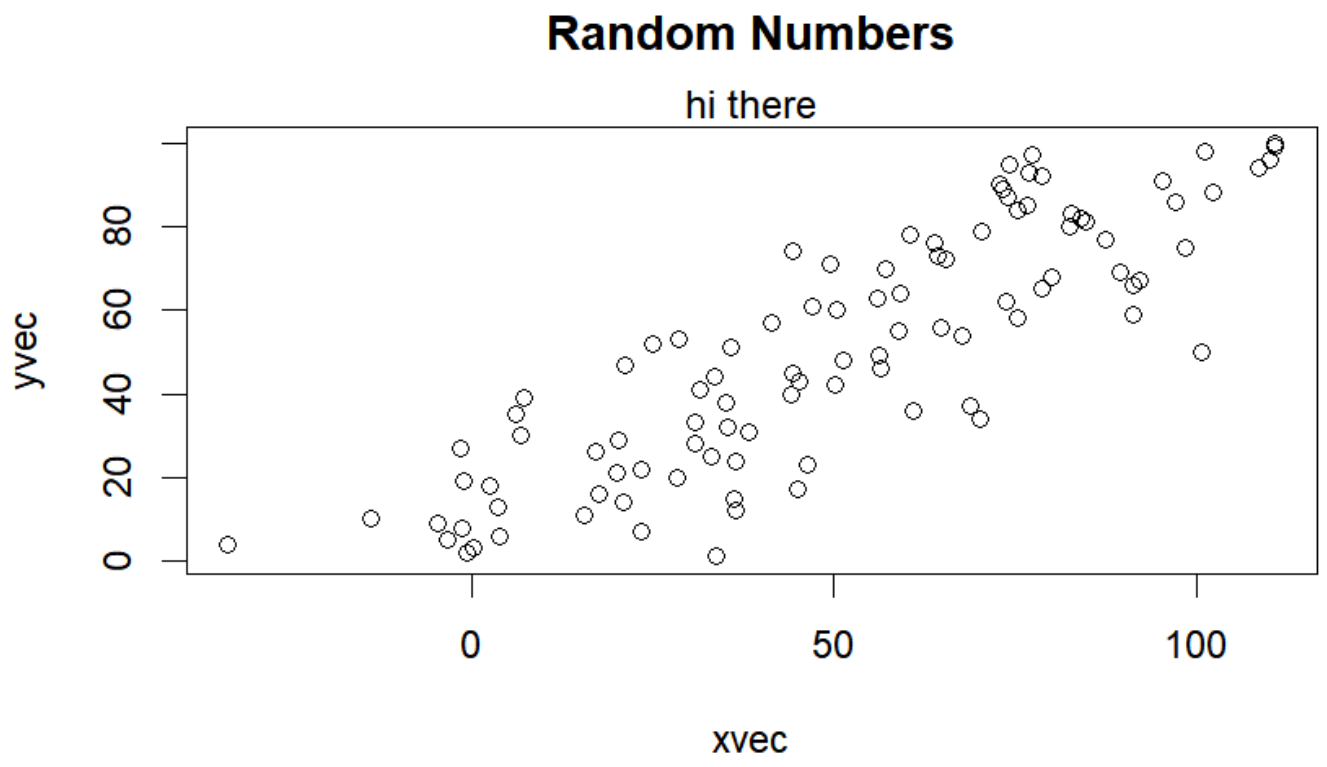
Hide

```
plot(x = x1, y = y1, main = 'Random Numbers', xlab = 'xvec', ylab = 'yvec')
mtext(side = 2, text = 'hi there')
```



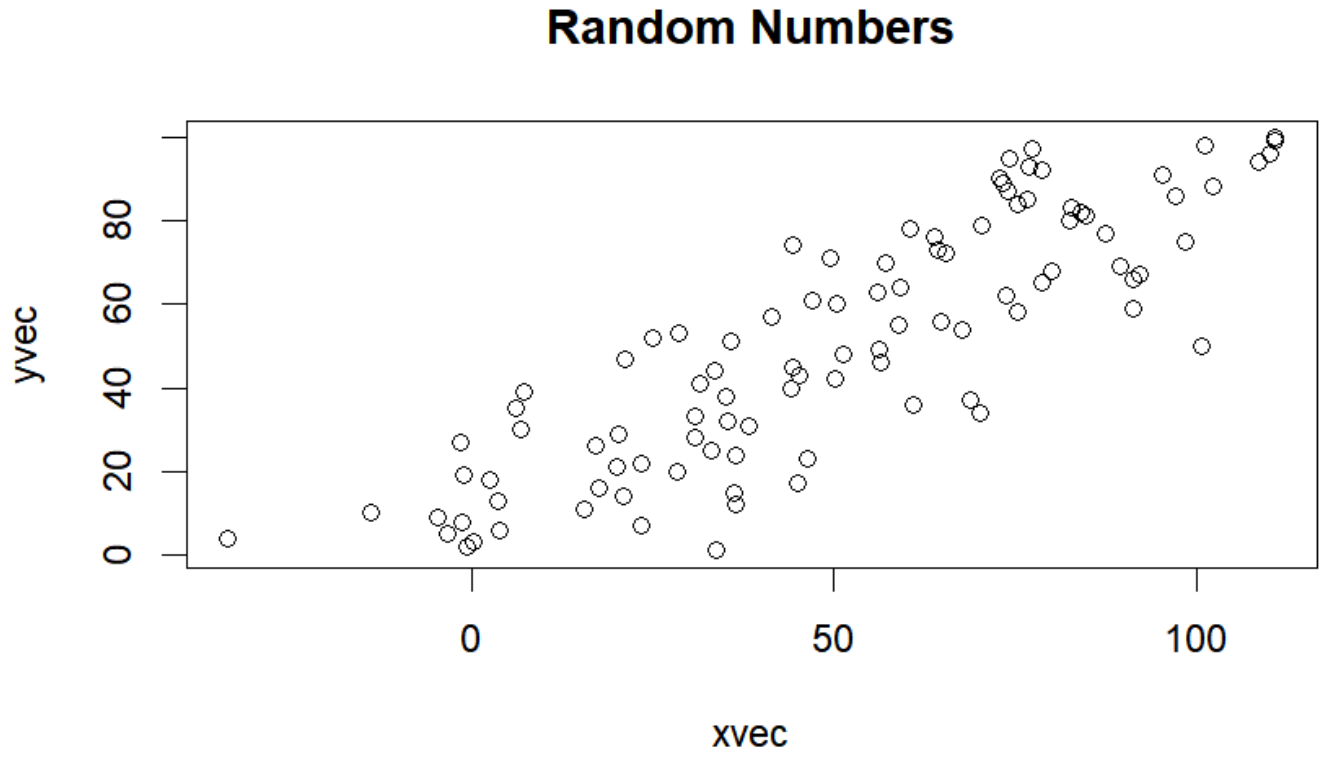
Hide

```
plot(x = x1, y = y1, main = 'Random Numbers', xlab = 'xvec', ylab = 'yvec')
mtext(side = 3, text = paste('hi there'))
```



Hide

```
plot(x = x1, y = y1, main = 'Random Numbers', xlab = 'xvec', ylab = 'yvec')
```

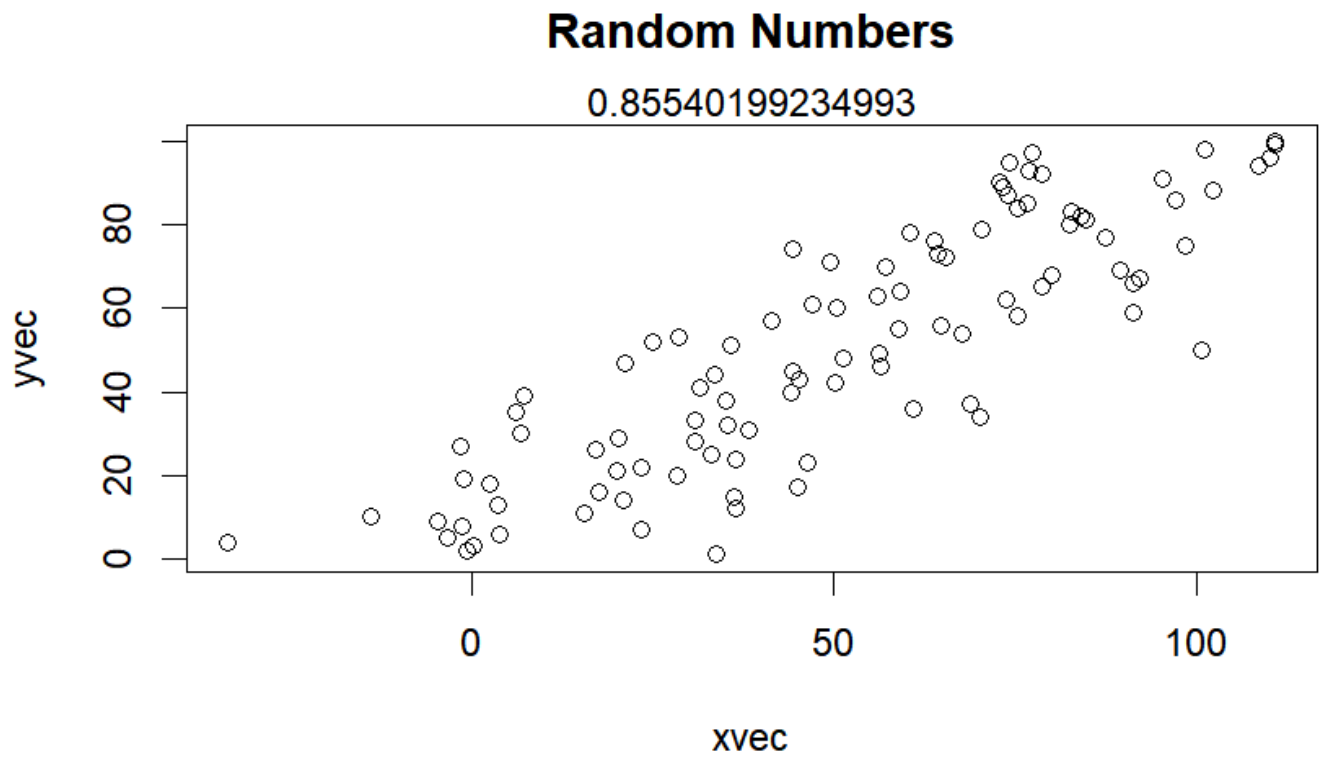


Hide

```
# mtext(side = 3, text = 'hi there')

cor_mea <- cor(x1, y1, method = 'pearson')
```

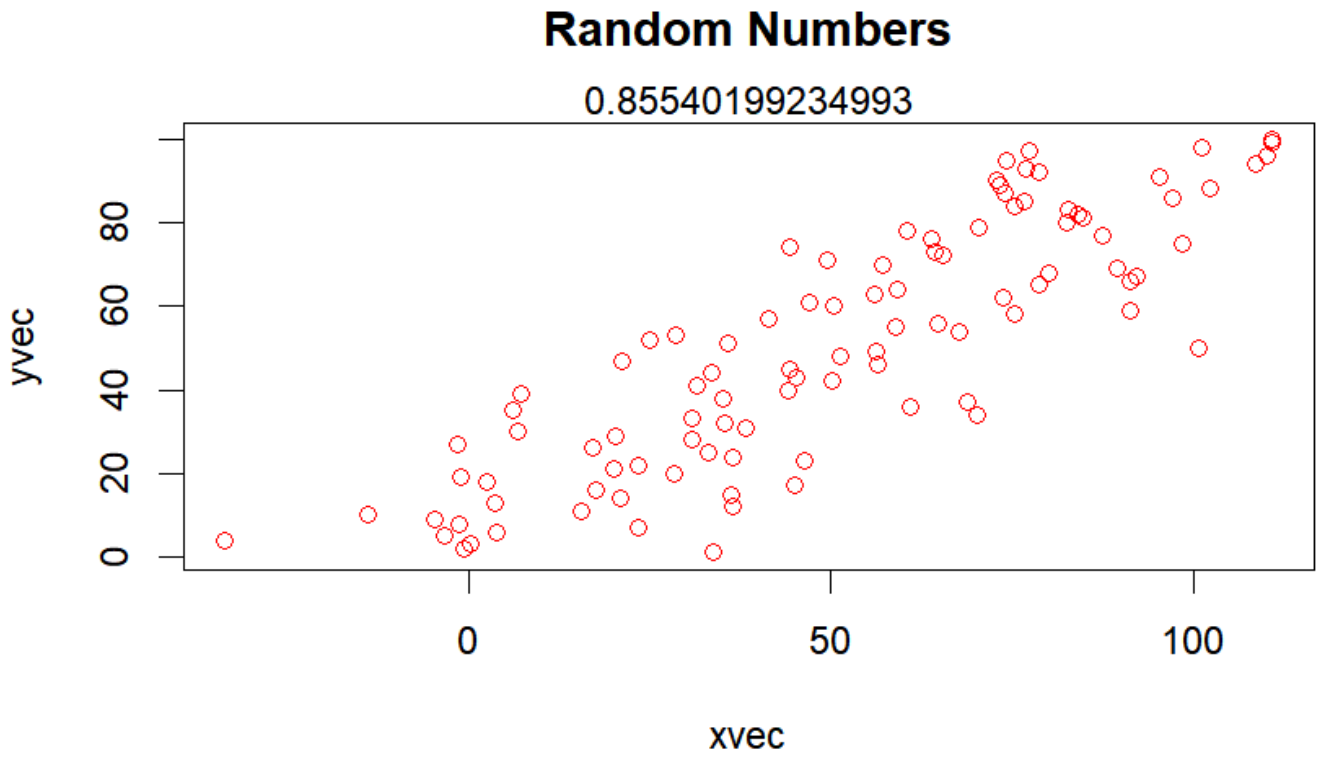
Hide

```
plot(x = x1, y = y1, main = 'Random Numbers', xlab = 'xvec', ylab = 'yvec')

cor_mea <- cor(x1, y1, method = 'pearson')
mtext(side = 3, text = paste(cor_mea))
```



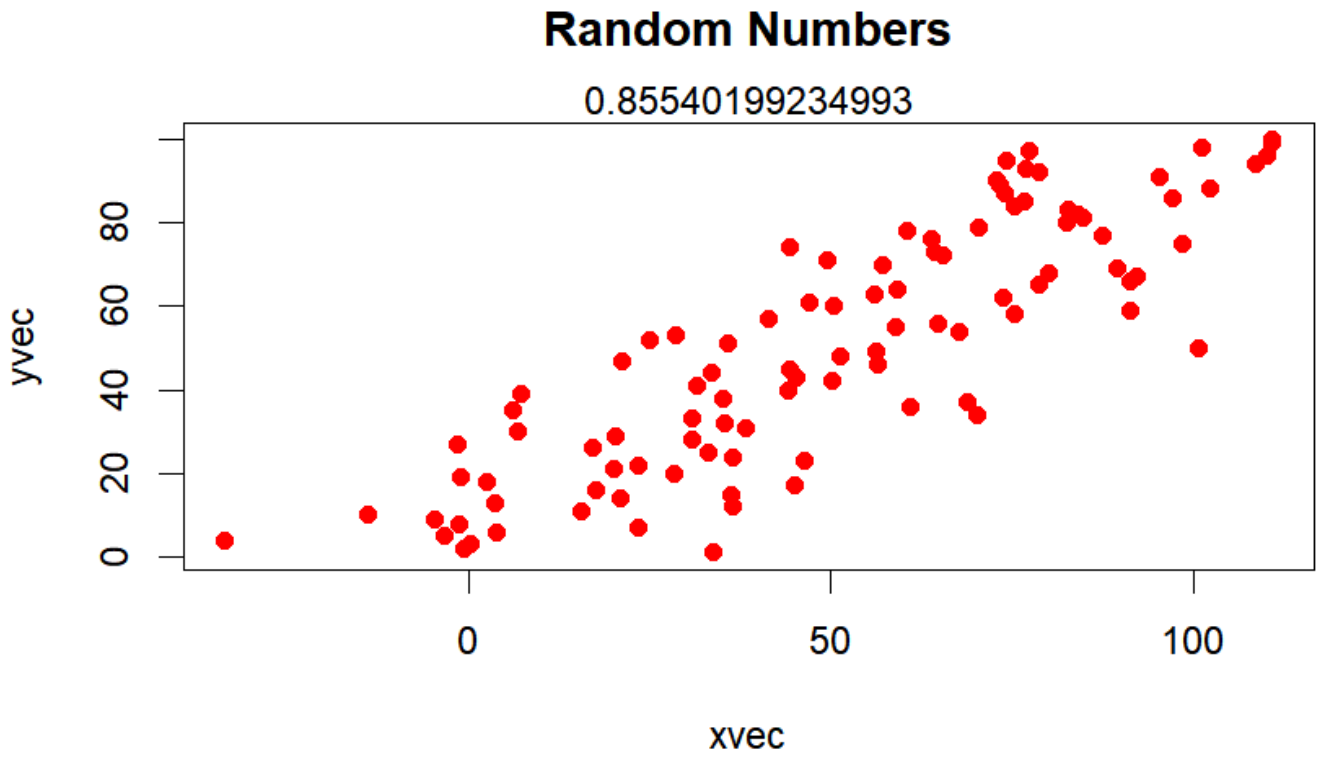
Hide

```
plot(x = x1, y = y1, main = 'Random Numbers', xlab = 'xvec', ylab = 'yvec', col = 'red')

cor_mea <- cor(x1, y1, method = 'pearson')
mtext(side = 3, text = paste(cor_mea))
```



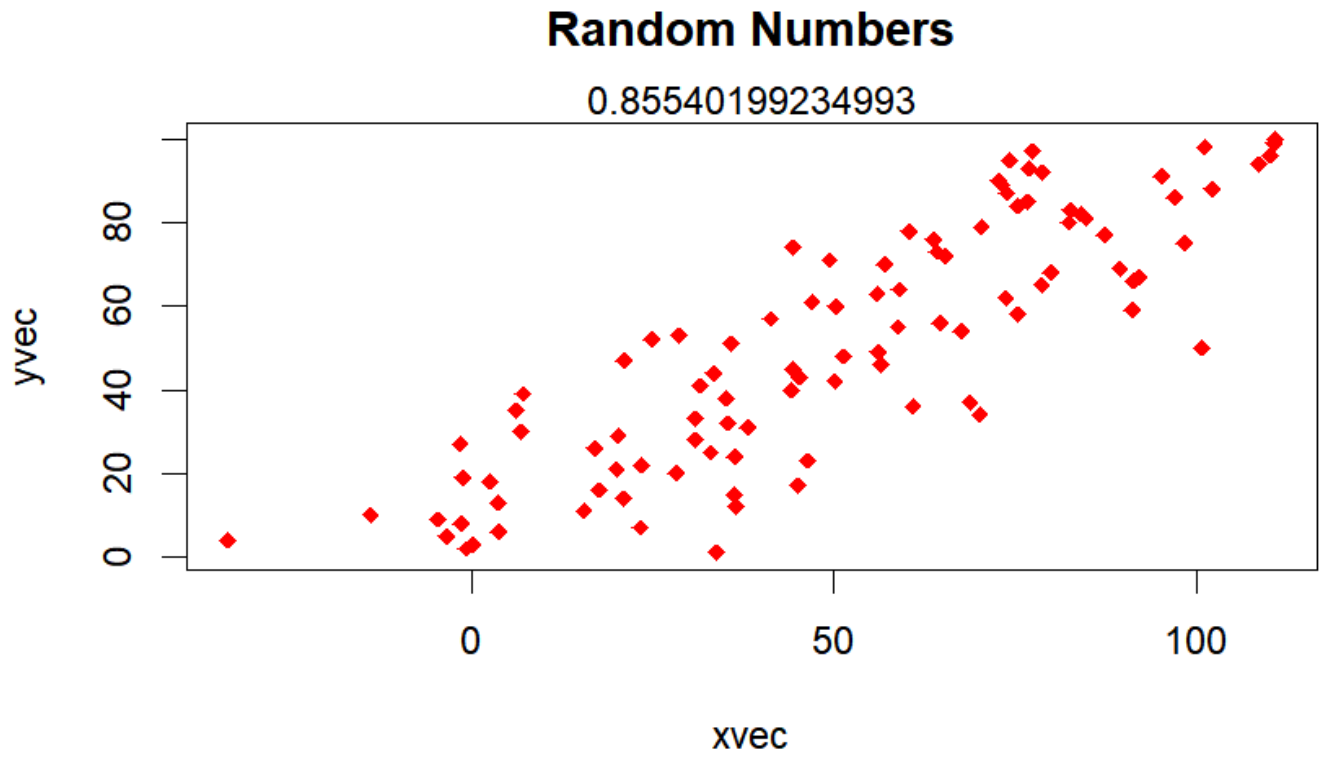
Hide

```
plot(x = x1, y = y1, main = 'Random Numbers', xlab = 'xvec', ylab = 'yvec', col = 'red', pch = 1
9)

cor_mea <- cor(x1, y1, method = 'pearson')
mtext(side = 3, text = paste(cor_mea))
```



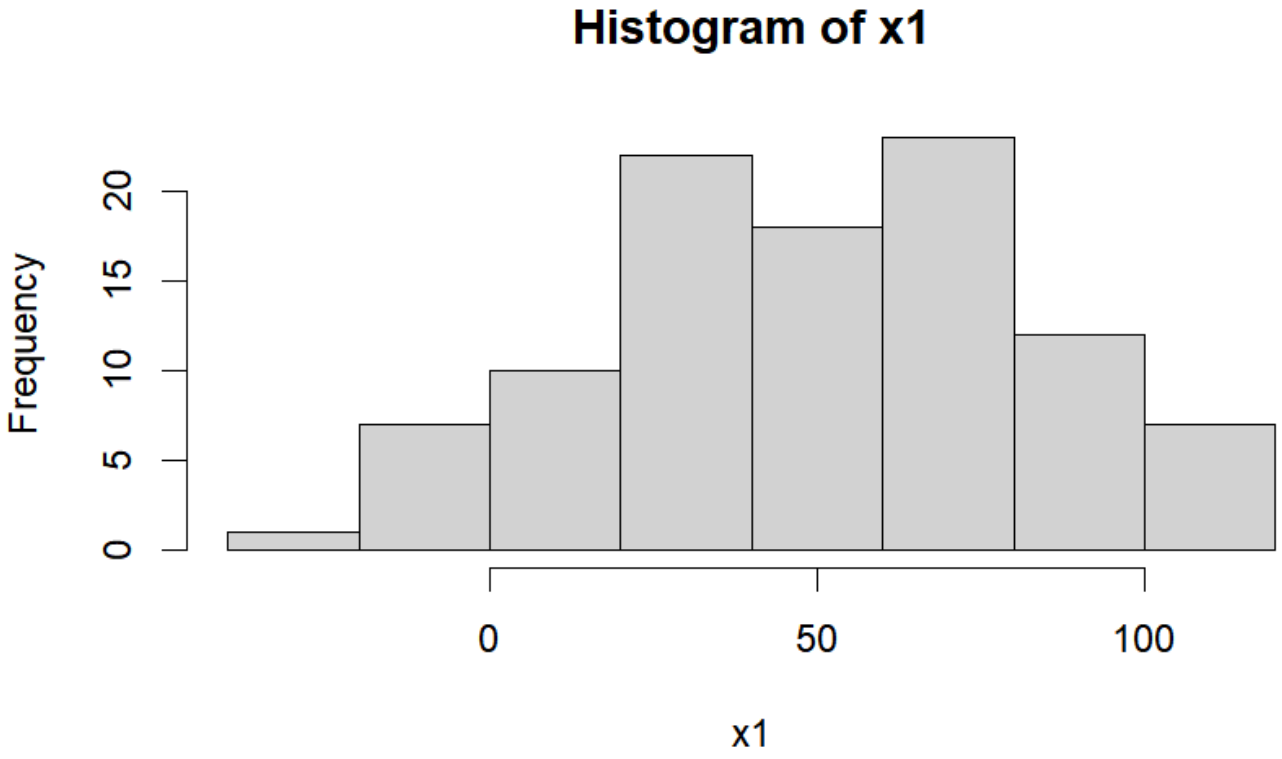
Hide

```
plot(x = x1, y = y1, main = 'Random Numbers', xlab = 'xvec', ylab = 'yvec', col = 'red', pch = 1
8)

cor_mea <- cor(x1, y1, method = 'pearson')
mtext(side = 3, text = paste(cor_mea))
```


Random Numbers
0.85540199234993
yvec
0
20
40
60
80
0
50
100
xvec

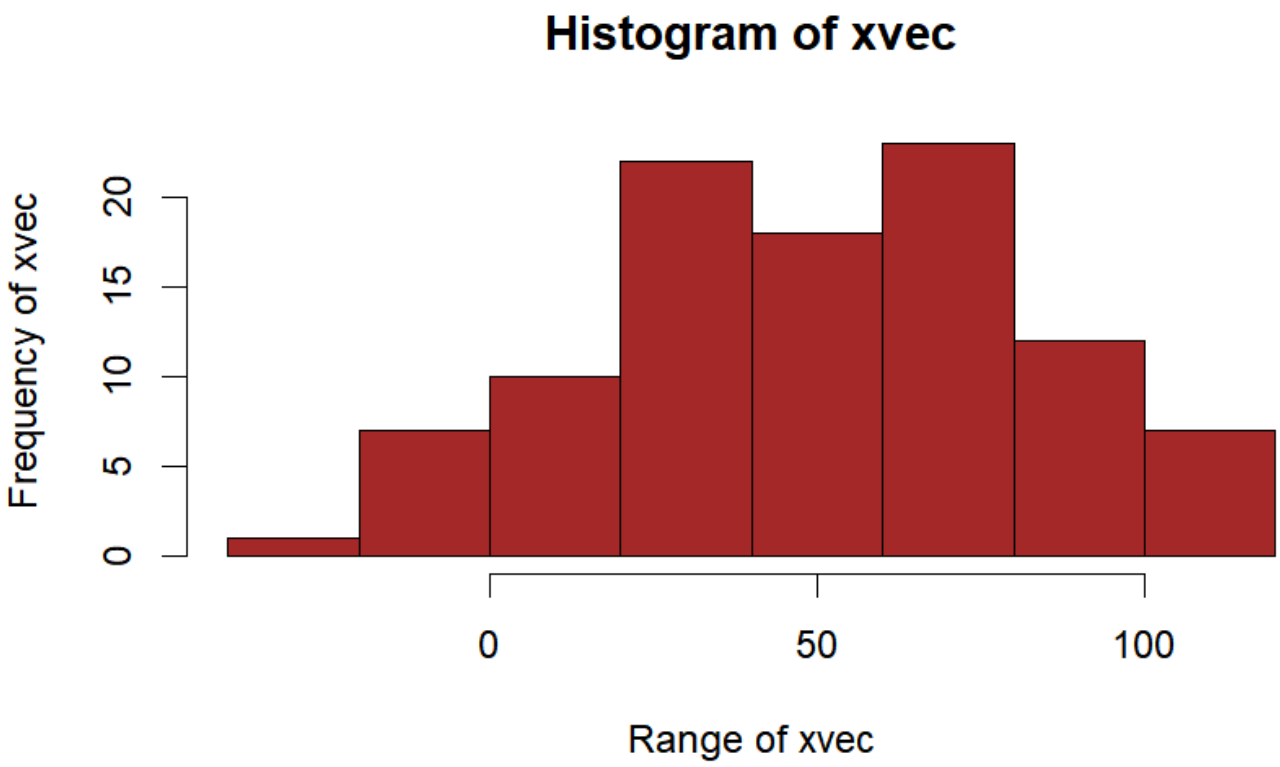
Hide

```
hist(x1)
```


Histogram of x1
Frequency
0
5
10
15
20
0
50
100
x1

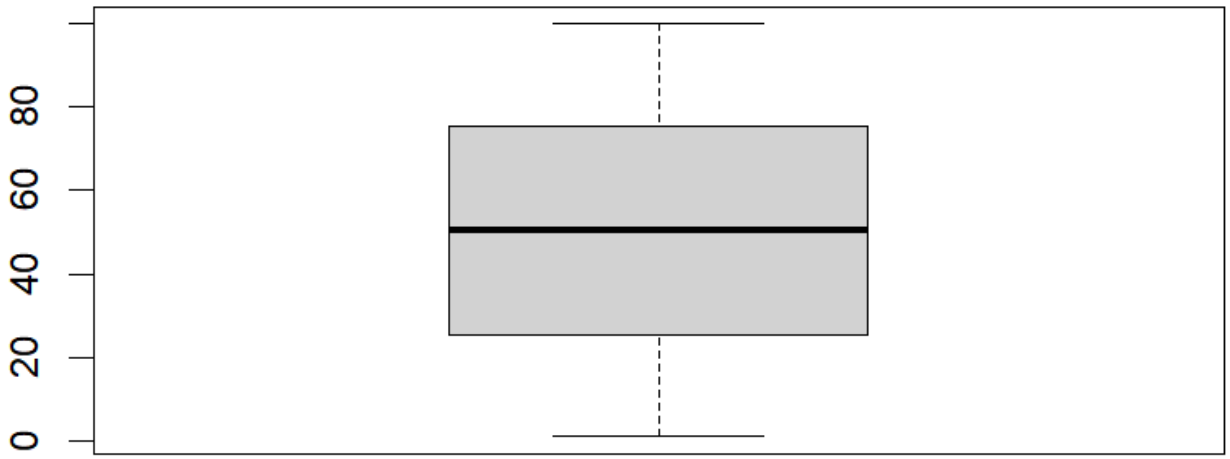
Hide

```
hist( x1, main = 'Histogram of xvec', xlab = 'Range of xvec', ylab = 'Frequency of xvec', col = 'brown')
```



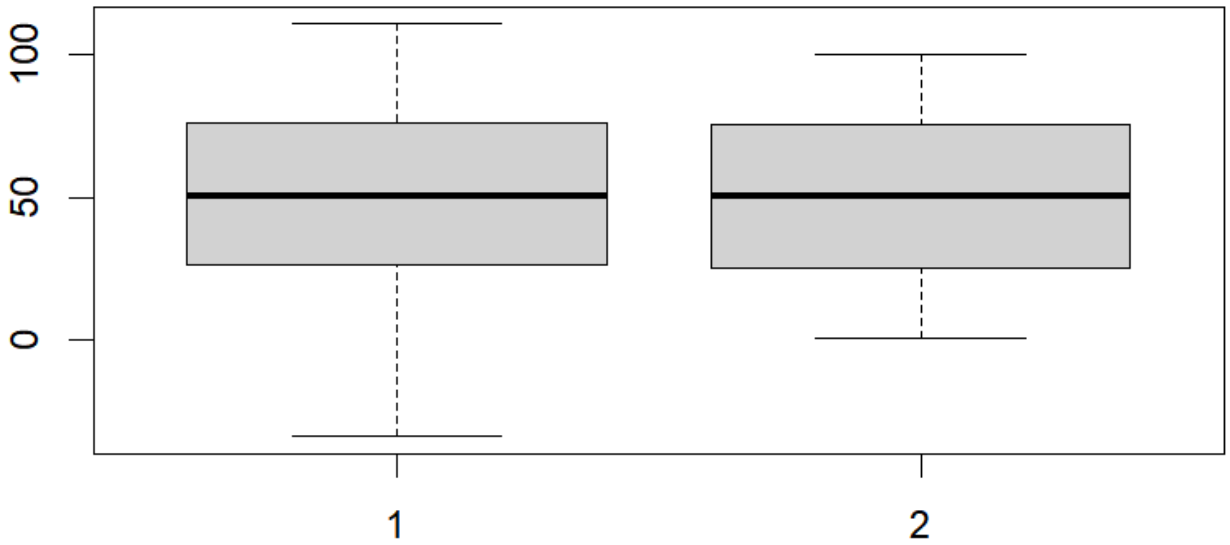
Hide

```
boxplot(y1)
```



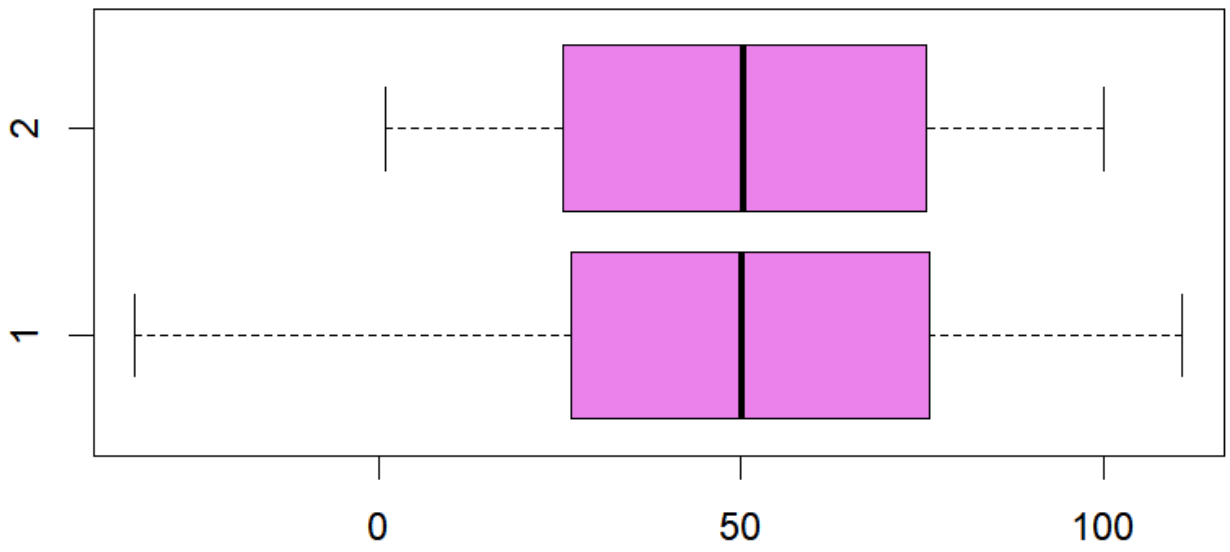
Hide

```
boxplot(x1, y1)
```



Hide

```
boxplot(x1, y1, horizontal = TRUE, col = 'violet')
```

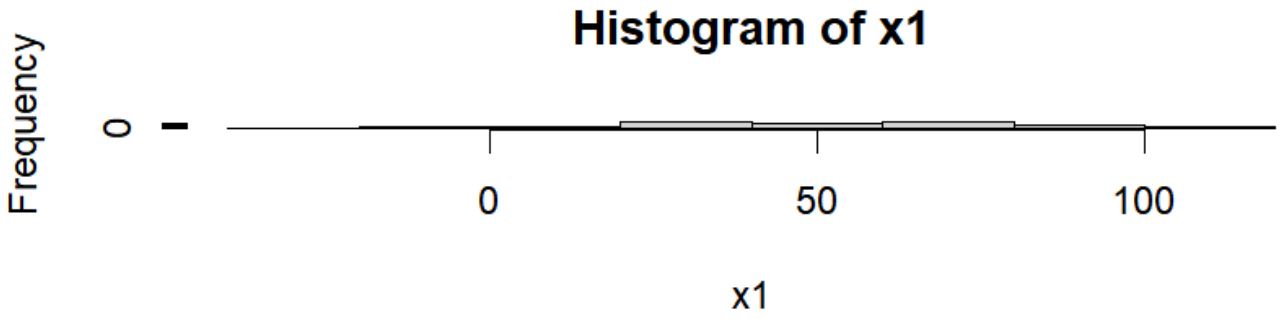


Hide

```
par(mfrow = c(2,1))
```

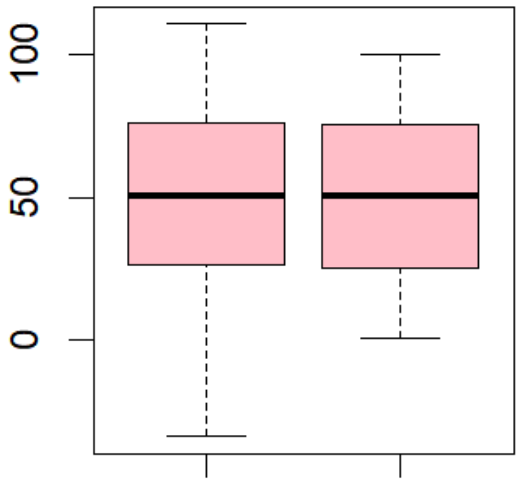
Hide

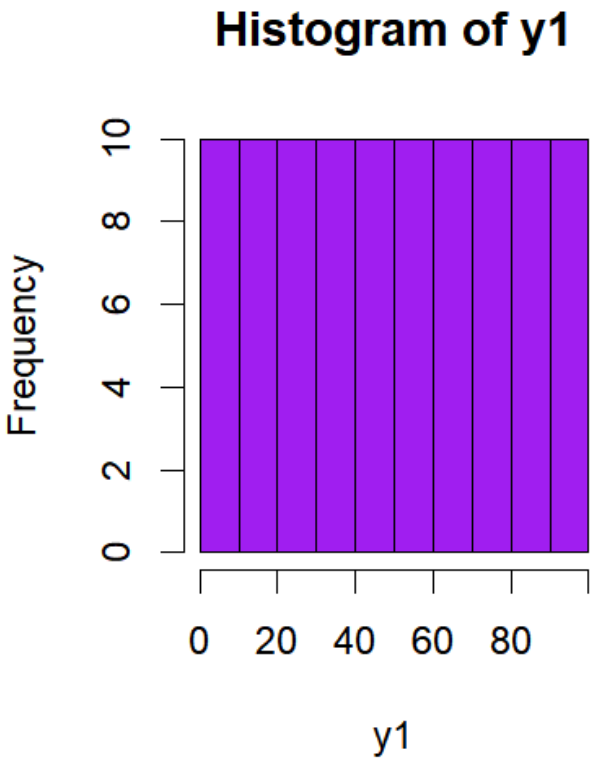
```
par(mfrow = c(2,1))

boxplot(x1, y1)
hist(x1)
```



Hide

```
par(mfrow = c(1,2))

boxplot(x1, y1, col = 'pink', bg = 'red')
hist(y1, col = 'purple', bg = 'orange')
```


100
50
0


Histogram of y1
Frequency
0
2
4
6
8
10
0
20
40
60
80
y1