

05_ejercicios_correlacion.R

Usuario

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```
#Conjunto de datos para correlacion
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#crear la base de datos

x <- c(10, 8, 13, 9, 11, 14, 6, 4, 12, 7, 5)
y <- c(7.46, 6.77, 12.74, 7.11, 7.81, 8.84, 6.08, 5.39, 8.15, 6.42, 5.73)

#Crear un data.frame

d3 <- data.frame(x,y)

#Estadísticas descriptivas
mean(d3$x); var(d3$x)

## [1] 9
## [1] 11

mean(d3$y); var(d3$y)

## [1] 7.5
## [1] 4.12262

#Aplicar correlacion

cor.test(d3$x, d3$y)

##
## Pearson's product-moment correlation
##
## data: d3$x and d3$y
## t = 4.2394, df = 9, p-value = 0.002176
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## 0.4240623 0.9506547
## sample estimates:
## cor
## 0.8162867
```

```
#Grafica
```

```
plot(d3$x, d3$y, xlab = "x", ylab = "y", pch = 19, col = "red")
```

