semana-14.R

Usuario

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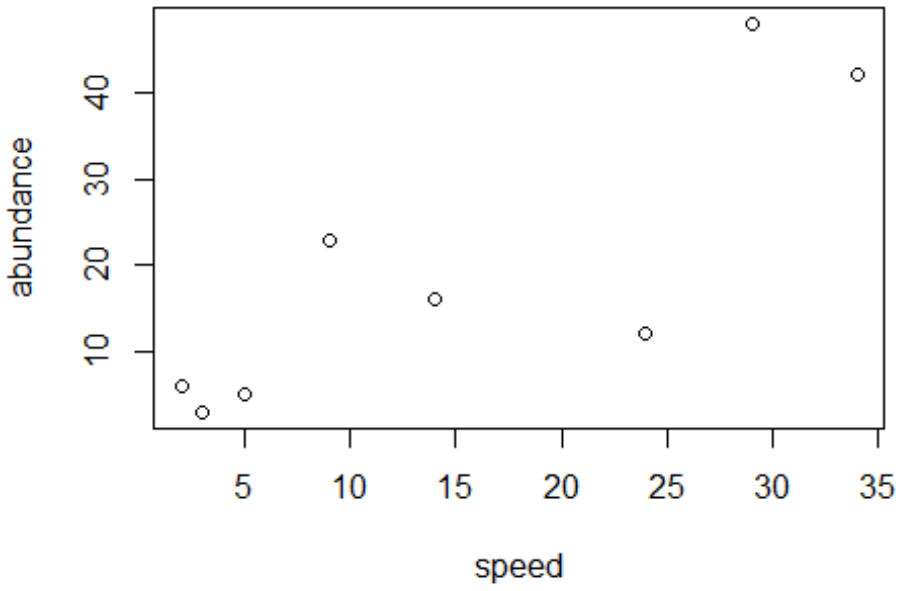
```
#MZZ
#SEMANA 14
#Examen

suelo <- read.csv("suelo.csv", header = TRUE)


speed <- c(2, 3, 5, 9, 14, 24, 29, 34)

abundance <- c(6, 3, 5, 23, 16, 12, 48, 42)

plot(speed, abundance)
```




```
cor.test(speed, abundance)

##
##  Pearson's product-moment correlation
##
```

```
## data:  speed and abundance
## t = 3.8051, df = 6, p-value = 0.008914
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.3341725 0.9704847
## sample estimates:
##      cor
## 0.840842
```

```
suelo <- read.csv("suelo.csv", header = TRUE)
```

```
cor.test(suelo$pH, suelo$N)
```

```
##
##  Pearson's product-moment correlation
##
## data:  suelo$pH and suelo$N
## t = 5.5994, df = 46, p-value = 1.149e-06
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.4303716 0.7797377
## sample estimates:
##      cor
## 0.636654
```

```
cor.test(suelo$pH, suelo$Dens)
```

```
##
##  Pearson's product-moment correlation
##
## data:  suelo$pH and suelo$Dens
## t = -4.9436, df = 46, p-value = 1.062e-05
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.7479775 -0.3661760
## sample estimates:
##       cor
## -0.5890264
```

```
cor.test(suelo$pH, suelo$P)
```

```
##
##  Pearson's product-moment correlation
##
## data:  suelo$pH and suelo$P
## t = 4.9694, df = 46, p-value = 9.74e-06
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.3688348 0.7493286
## sample estimates:
```

```
##       cor
## 0.5910303

cor.test(suelo$pH, suelo$Ca)

##
##  Pearson's product-moment correlation
##
## data:  suelo$pH and suelo$Ca
## t = 9.3221, df = 46, p-value = 3.614e-12
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.6809493 0.8885997
## sample estimates:
##       cor
## 0.8086293

cor.test(suelo$pH, suelo$Mg)

##
##  Pearson's product-moment correlation
##
## data:  suelo$pH and suelo$Mg
## t = -2.923, df = 46, p-value = 0.005361
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.6111857 -0.1257936
## sample estimates:
##        cor
## -0.3957821

cor.test(suelo$pH, suelo$K)

##
##  Pearson's product-moment correlation
##
## data:  suelo$pH and suelo$K
## t = 4.8236, df = 46, p-value = 1.585e-05
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.3536810 0.7415855
## sample estimates:
##       cor
## 0.5795727

cor.test(suelo$pH, suelo$Na)

##
##  Pearson's product-moment correlation
##
## data:  suelo$pH and suelo$Na
## t = -6.5242, df = 46, p-value = 4.724e-08
```

```
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.8165520 -0.5094849
## sample estimates:
##       cor
## -0.6932614

cor.test(suelo$pH, suelo$Conduc)

##
##  Pearson's product-moment correlation
##
## data:  suelo$pH and suelo$Conduc
## t = -8.0515, df = 46, p-value = 2.484e-10
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.8616916 -0.6141322
## sample estimates:
##       cor
## -0.7648104
```