

Task C, practical 9

Relationship between mean age of children in a family and height of Christmas tree was studied

Does the age of children in family affect the height of the Christmas tree bought by the parents?

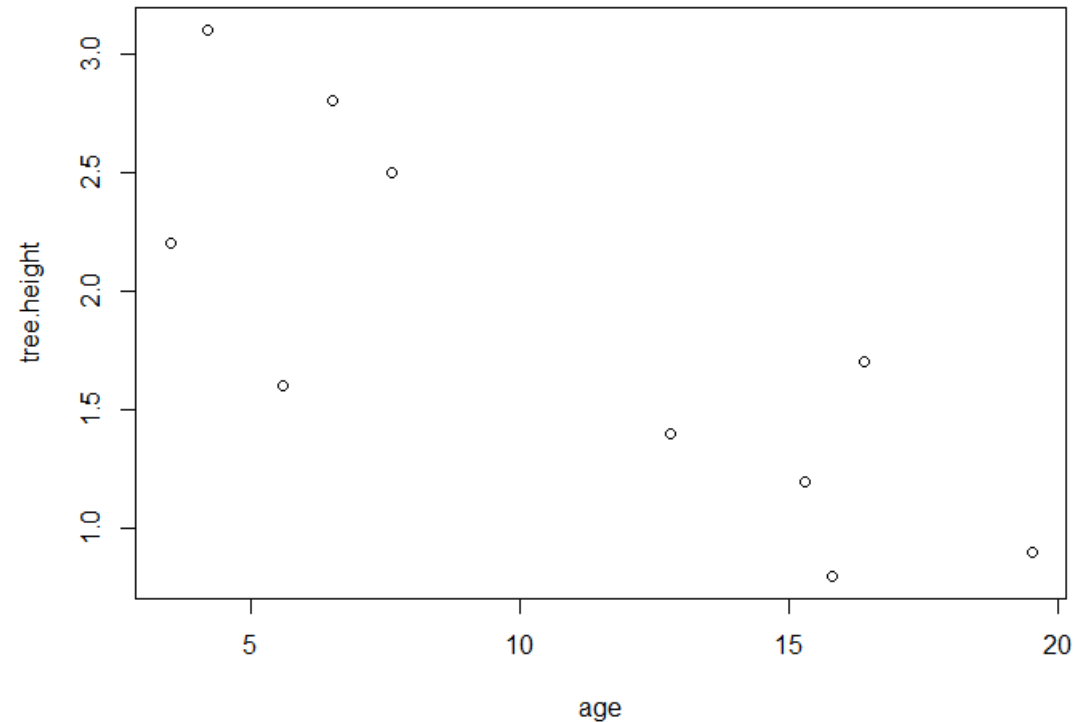
Result

Null-hypothesis: the age of children in family does not affect the height of the Christmas tree bought by the parents.

```
tree<-read.delim("clipboard")
```

```
summary(tree)
```

```
plot(tree.height~age, data=tree)
```



Result

```
cor.test(tree$tree.height, tree$age)
```

We rejected the null-hypothesis.

Pearson's product-moment correlation

data: tree\$tree.height and tree\$age

t = -3.8541, df = 8, p-value = 0.004849

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.9523889 -0.3585995

sample estimates: cor -0.8061992