SRT411A0.Rmd

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February 17, 2018

```r
# ToDo 1
(2016 - 2014) / (2014 - 1997) * 100
```
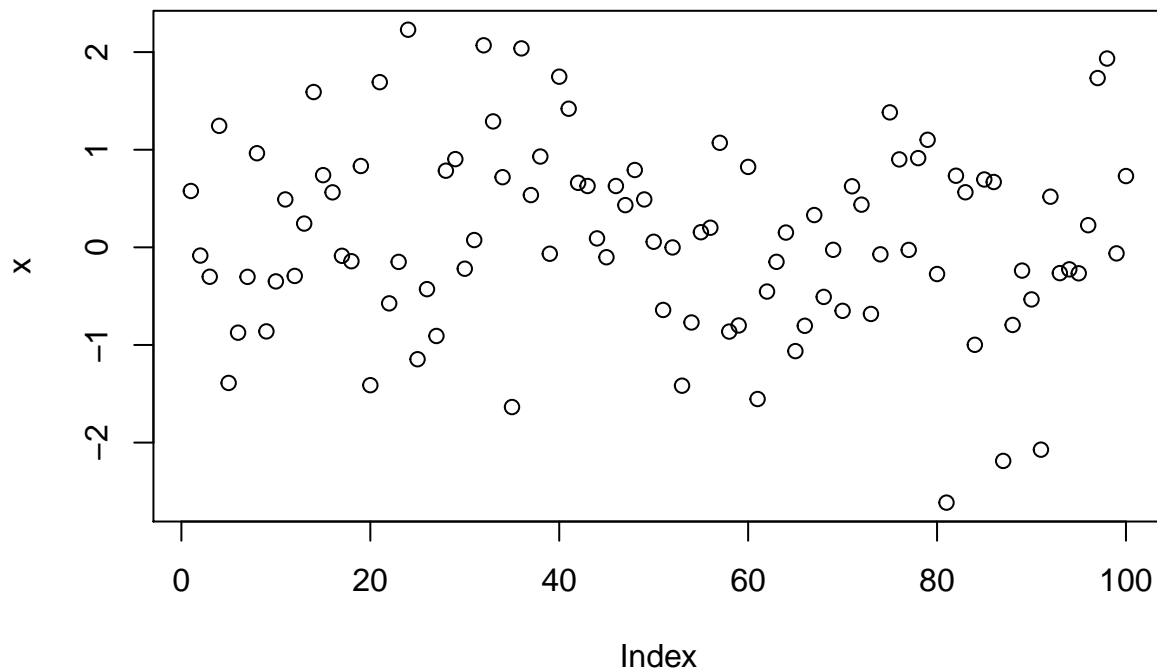
```
## [1] 11.76471
```

```r
# ToDo 2
todo <- (2016 - 2014) / (2014 - 1997) * 100
```
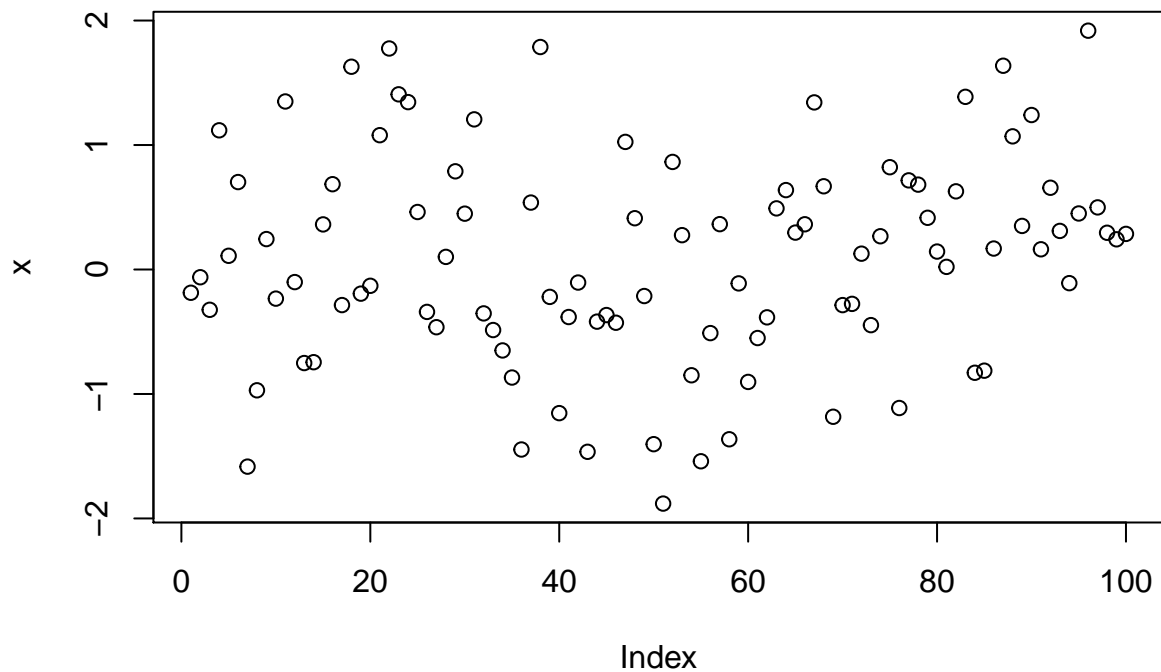
```r
# ToDo 3
b=c(4,5,8,11)
sum(b)
```

```
## [1] 28
```

```r
# ToDo 4
x= rnorm(100)
plot(x)
```



```r
# ToDo 5
help(sqrt)
```

```r
# ToDo 6
# firstscript.R
 source("firstscript.R")
```

```r
# ToDo 7
Q=matrix(data=(P = seq(from=31, to=60, by=1)), ncol=5, nrow=6)
Q
```
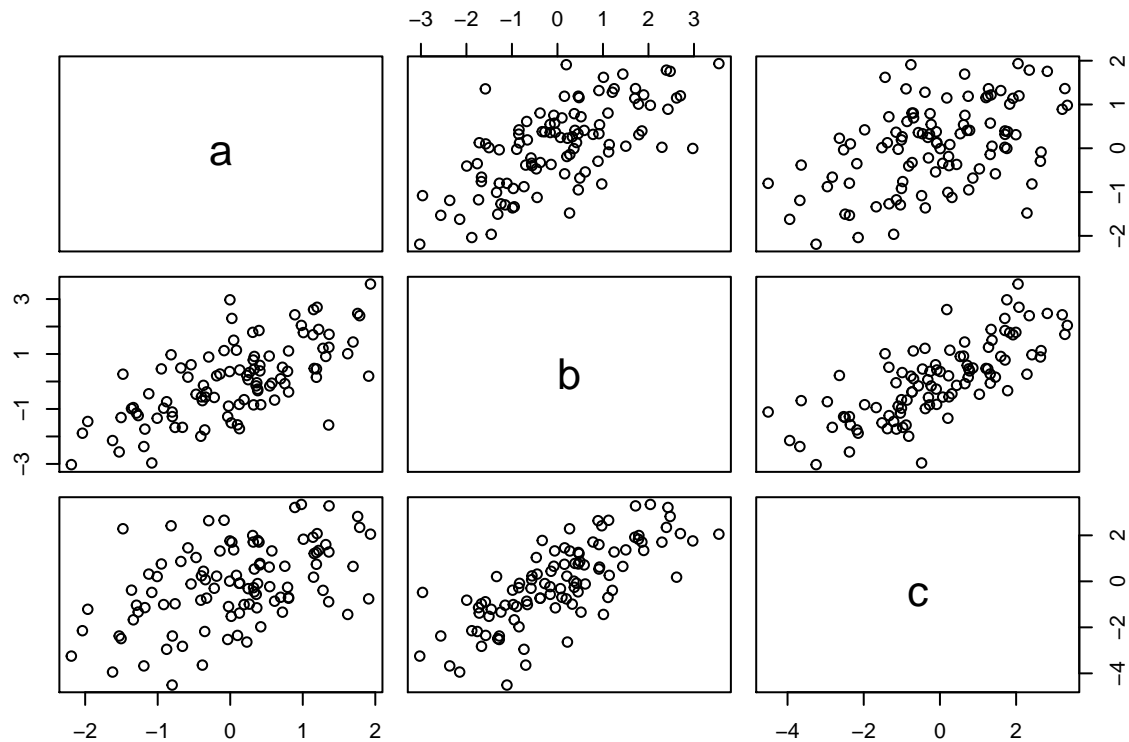
```
##      [,1] [,2] [,3] [,4] [,5]
## [1,]   31   37   43   49   55
## [2,]   32   38   44   50   56
## [3,]   33   39   45   51   57
## [4,]   34   40   46   52   58
## [5,]   35   41   47   53   59
## [6,]   36   42   48   54   60
```

```r
# ToDo 8
x1= rnorm(100)

x2= rnorm(100)

x3= rnorm(100)

t= data.frame(a=x1, b=x1+x2, c=x1+x2+x3)
plot(t)
```
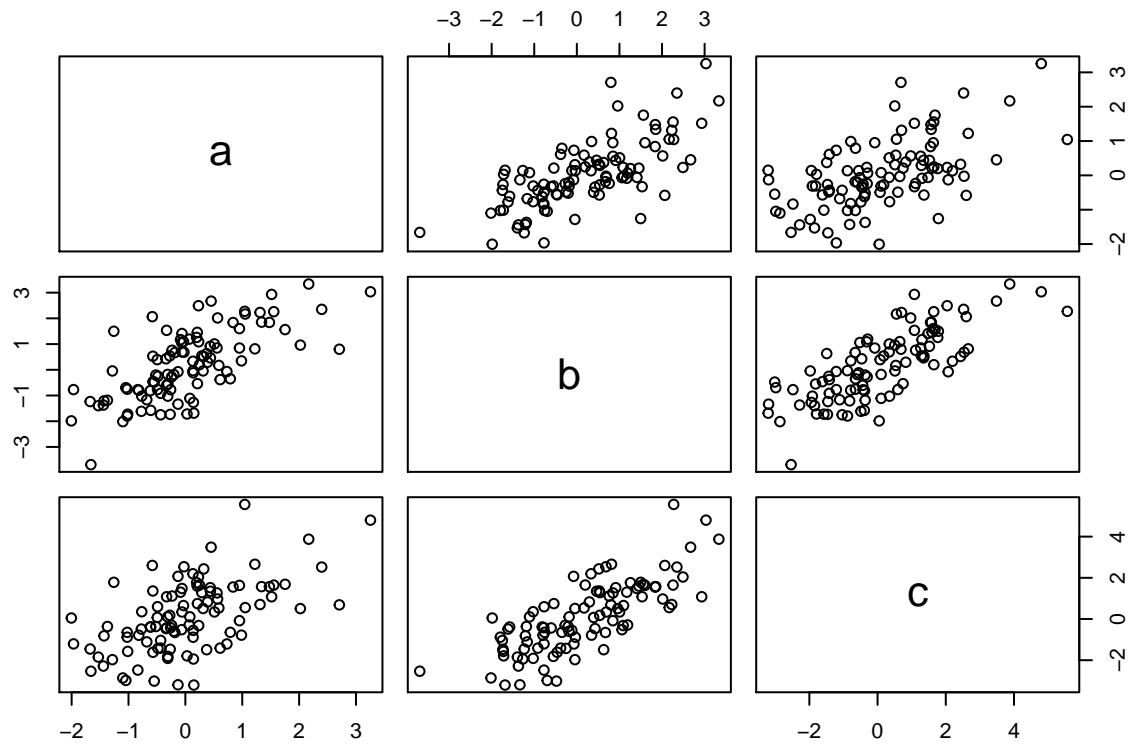
```
# ToDo 9
# lwd:line width relative to the default
# (default=1). 2 is twice as wide.

# pch: option to specify symbols to use
# when plotting points.

# cex: number indicating the amount by
# which plotting text and symbols should
# be scaled relative to the default.

x1= rnorm(100)

x2= rnorm(100)

x3= rnorm(100)

t= data.frame(a=x1, b=x1+x2, c=x1+x2+x3)
plot(t)
```
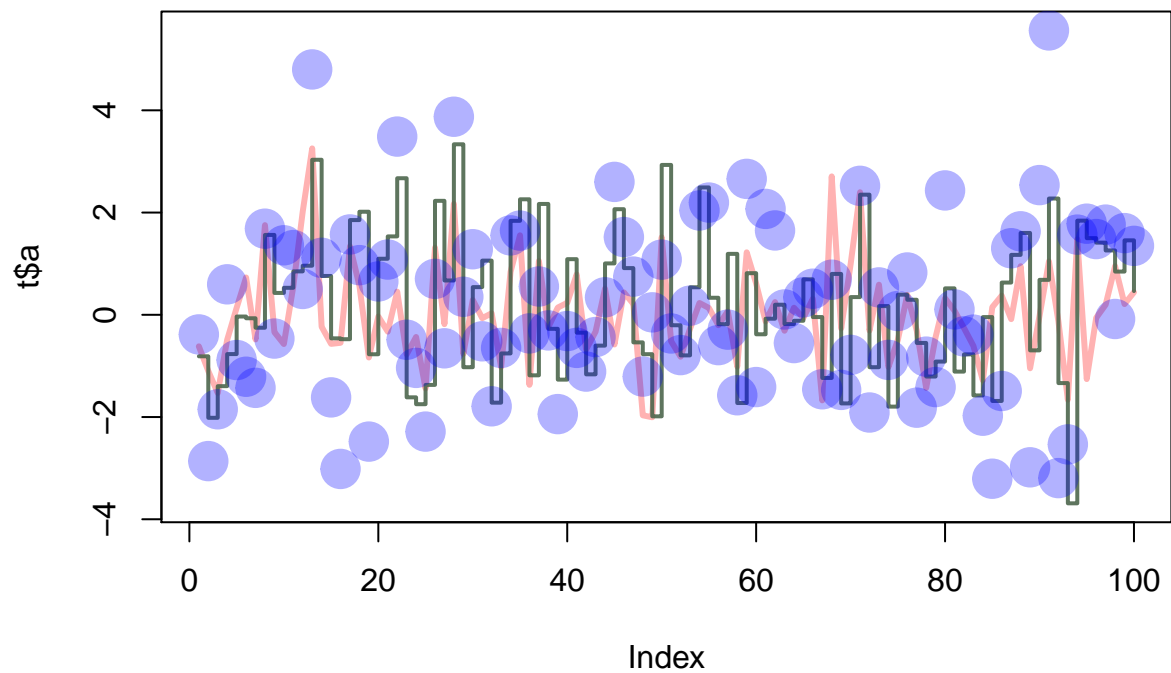
```r
plot(t$a, type="l", ylim=range(t),
     lwd=3, col=rgb(1,0,0,0.3))
lines(t$b, type="s", lwd=2,
      col=rgb(0.3,0.4,0.3,0.9))
points(t$c, pch=20, cex=4,
       col=rgb(0,0,1,0.3))
```



```r
# ToDo 10
d = data.frame(g = c(3,4,5),h = c(12,43,54))
```

4

```
write.table(d, file="tst1.txt", row.names=FALSE)
d2 = read.table(file="tst1.txt",header=TRUE)
d2$g*5
```
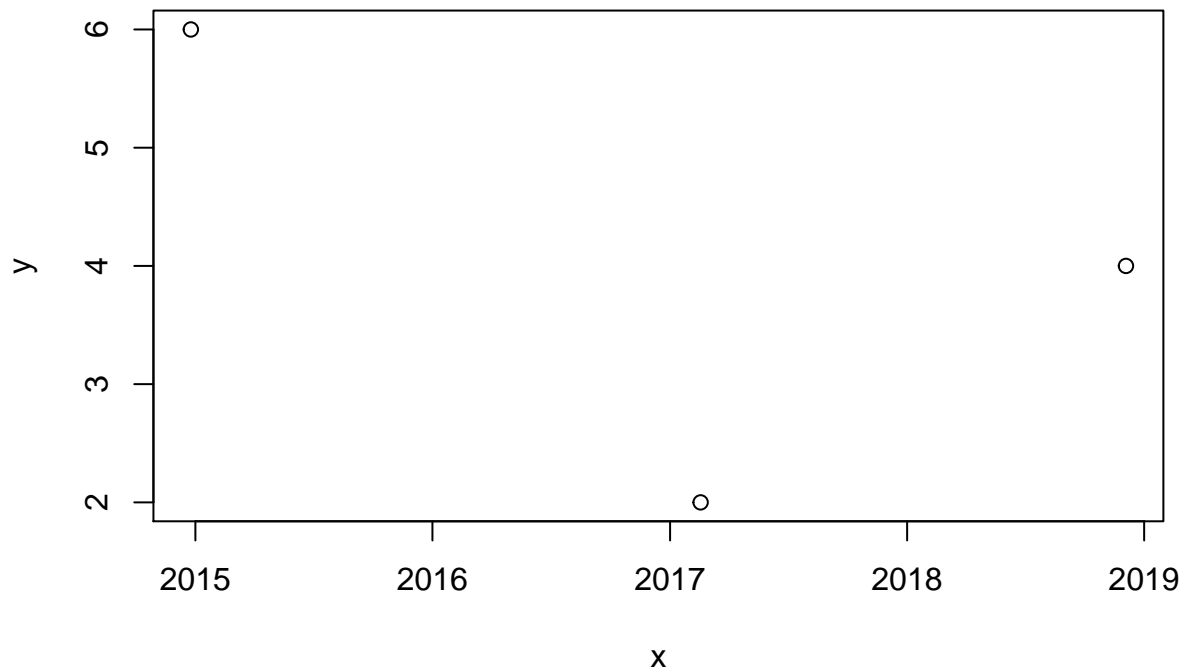
```
## [1] 15 20 25
```

```
# ToDo 11
x= rnorm(100)
mean(sqrt(x))
```

```
## Warning in sqrt(x): NaNs produced
```

```
## [1] NaN
```

```
# ToDo 12
#Make a graph with on the x-axis: today, Sinterklaas
#2014 and your next birthday and on
#the y-axis the number of presents you expect on
#each of these days. Tip: make two vectors first.
date2=strptime(c("20170217000000", "20141225000001", "20181204000000"), format = "%Y%m%d%H%M%S")
x=date2
y=c(2,6,4)
plot(x,y)
```



```
# ToDo 13
fun= function(arg1,arg2 )
{
  vector[i]=arg1[i];
  for(i in length(vector))
  {

  }
}
```