## SRT411A0.Rmd

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```
ToDo
3.1

(2018 - 2014) / (2014-1997) * 100

## [1] 23.52941

3.2

a=4
b=(2014-1997)
a/b*100

## [1] 23.52941

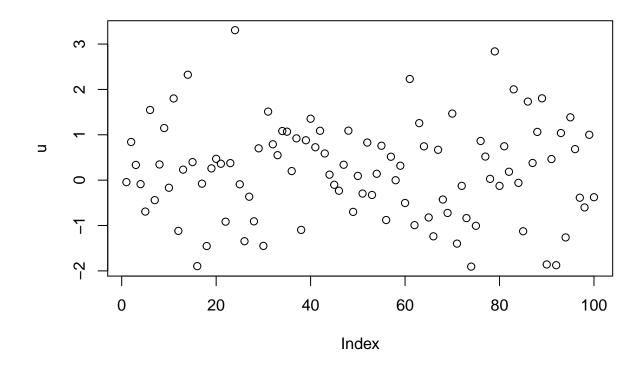
3.4

sum(4,5,8,11)

## [1] 28

3.5

u=rnorm(100)
plot(u)
```

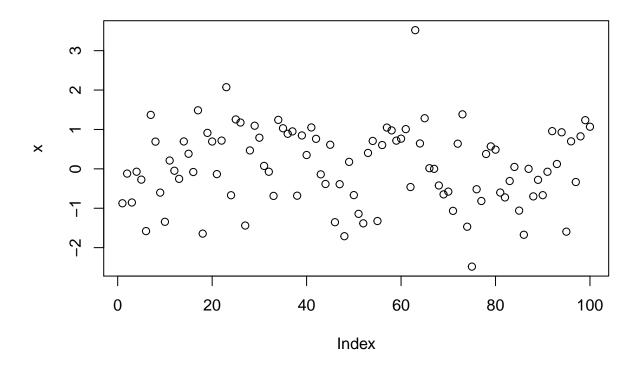


4

## help(sqrt)

5

## source("firstscript.R")



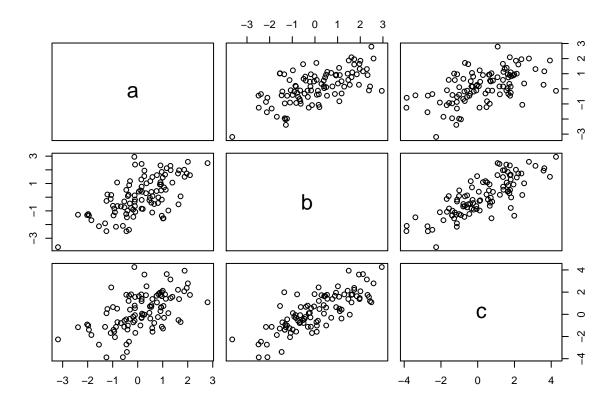
6.2

```
p=seq(from=31, to=60, by=1)
q=matrix(data=p,ncol=5,nrow=6)
q
```

```
[,1] [,2] [,3] [,4]
                                [,5]
##
                 37
## [1,]
           31
                       43
                            49
                                  55
## [2,]
           32
                 38
                       44
                            50
                                  56
## [3,]
           33
                 39
                       45
                            51
                                  57
                 40
## [4,]
           34
                       46
                            52
                                  58
           35
                 41
                                  59
## [5,]
                       47
                            53
## [6,]
           36
                 42
                       48
                            54
                                  60
```

6.3 this just plots a bunch of random number between -3 and +5

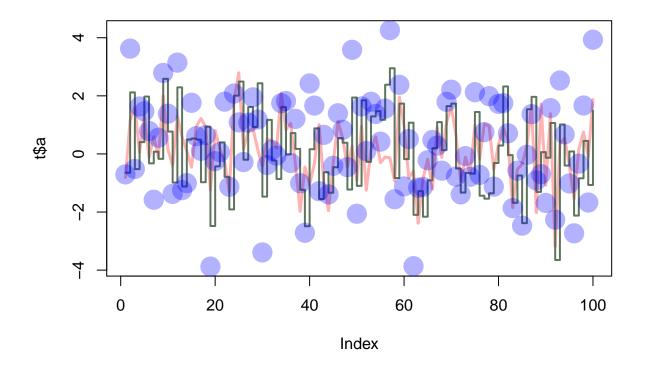
```
x1=c(rnorm(100))
x2=c(rnorm(100))
x3=c(rnorm(100))
t=data.frame(a=x1,b=x1+x2,c=x1+x2+x3)
plot(t)
```



7 the rgb represents the color of whatever the arguemnt is plotting, in this case it could be the plot, the lines, and the points that have a specific colour

lwd seems like it controls the width/thickness of whatever the argument it is describing, if you increase the lwd, the width/size of the line increases

pch seems to change the shape of the points depending on the value and cex changes the overall size of the points depending on the value, the higher the bigger.



```
d1=read.table(file="tst1.txt",header=TRUE)
d2=d1$g*5
write.table(d2,file="tst2.txt",row.names=FALSE,col.names="g")
```

```
d3=data.frame=c(1:100,1)
d3^2
```

```
25
##
     [1]
              1
                      4
                            9
                                  16
                                                36
                                                       49
                                                             64
                                                                    81
                                                                          100
                                                                                 121
##
    [12]
            144
                   169
                          196
                                 225
                                        256
                                               289
                                                      324
                                                            361
                                                                   400
                                                                          441
                                                                                 484
    [23]
            529
                   576
                          625
                                 676
                                        729
##
                                               784
                                                      841
                                                            900
                                                                   961
                                                                         1024
                                                                                1089
##
    [34]
           1156
                  1225
                         1296
                                1369
                                       1444
                                              1521
                                                    1600
                                                           1681
                                                                  1764
                                                                         1849
                                                                                1936
                                                                  2809
##
    [45]
           2025
                  2116
                         2209
                                2304
                                       2401
                                              2500
                                                    2601
                                                           2704
                                                                         2916
                                                                                3025
##
    [56]
           3136
                  3249
                         3364
                                3481
                                       3600
                                              3721
                                                    3844
                                                           3969
                                                                  4096
                                                                         4225
                                                                                4356
           4489
                  4624
##
    [67]
                         4761
                                4900
                                       5041
                                             5184
                                                    5329
                                                           5476
                                                                  5625
                                                                         5776
                                                                                5929
##
    [78]
           6084
                  6241
                         6400
                                6561
                                       6724
                                              6889
                                                    7056
                                                           7225
                                                                  7396
                                                                         7569
                                                                                7744
                  8100
##
    [89]
           7921
                         8281
                                8464
                                      8649
                                             8836
                                                    9025
                                                           9216
                                                                         9604
                                                                                9801
                                                                  9409
## [100] 10000
                      1
```

10.2

```
date1=strptime(c("20140706080000","20150706000000"),format="%Y%m%d%H%M%S")
present=c(10,6)
date1
## [1] "2014-07-06 08:00:00 PDT" "2015-07-06 00:00:00 PDT"
present
## [1] 10 6
11.2
v=seq(from=1, to=100, by=1)
s=c()
for(i in 1:100)
  if(v[i]<5)
    s[i]=v[i]*5;
  else if(v[i]>90)
  {
    s[i]=v[i]*10;
  else
  {
    s[i]=v[i]*0.1;
  }
}
s
                         15.0
                                20.0
                                        0.5
                                                      0.7
##
     [1]
            5.0
                  10.0
                                               0.6
                                                             0.8
                                                                     0.9
                                                                            1.0
##
   [11]
            1.1
                   1.2
                          1.3
                                 1.4
                                        1.5
                                               1.6
                                                      1.7
                                                              1.8
                                                                     1.9
                                                                            2.0
##
   [21]
            2.1
                   2.2
                          2.3
                                 2.4
                                        2.5
                                               2.6
                                                      2.7
                                                             2.8
                                                                     2.9
                                                                            3.0
##
  [31]
            3.1
                   3.2
                          3.3
                                 3.4
                                        3.5
                                               3.6
                                                      3.7
                                                             3.8
                                                                     3.9
                                                                            4.0
##
   [41]
            4.1
                   4.2
                          4.3
                                 4.4
                                        4.5
                                                      4.7
                                                              4.8
                                                                     4.9
                                                                            5.0
                                               4.6
  [51]
##
            5.1
                   5.2
                          5.3
                                 5.4
                                        5.5
                                               5.6
                                                      5.7
                                                             5.8
                                                                     5.9
                                                                            6.0
##
   [61]
            6.1
                   6.2
                          6.3
                                 6.4
                                        6.5
                                               6.6
                                                      6.7
                                                              6.8
                                                                     6.9
                                                                            7.0
## [71]
            7.1
                   7.2
                          7.3
                                 7.4
                                        7.5
                                               7.6
                                                      7.7
                                                             7.8
                                                                     7.9
                                                                            8.0
   [81]
            8.1
                   8.2
                          8.3
                                 8.4
                                        8.5
                                               8.6
                                                      8.7
                                                              8.8
                                                                     8.9
                                                                            9.0
   [91] 910.0 920.0 930.0 940.0 950.0 960.0 970.0 980.0 990.0 1000.0
##
11.3
f=function(arg1,arg2)
  v[i]=arg1[i];
  for(i in length(v))
  {
  }
}
```

```
## function(arg1,arg2)
## {
##  v[i]=arg1[i];
##  for(i in length(v))
##  {
##
##
## }
```