Introduction to R

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```
### vectors, data, matrices, subsetting
x=c(2,7,5)
## [1] 2 7 5
y=seq(from=4,length=3,by=3)
?seq
У
## [1] 4 7 10
x+y
## [1] 6 14 15
x/y
## [1] 0.5 1.0 0.5
x^y
## [1]
       16 823543 9765625
x[2]
## [1] 7
x[2:3]
## [1] 7 5
x[-2]
## [1] 2 5
x[-c(1,2)]
## [1] 5
z=matrix(seq(1,12),4,3)
     [,1] [,2] [,3]
##
## [1,] 1 5 9
## [2,]
       2 6 10
            7 11
## [3,]
## [4,]
       4 8 12
z[3:4,2:3]
    [,1] [,2]
## [1,] 7 11
## [2,] 8 12
```

```
z[,2:3]
## [,1] [,2]
## [1,] 5 9
## [2,] 6 10
## [3,] 7 11
## [4,] 8 12
z[,1]
## [1] 1 2 3 4
z[,1,drop=FALSE]
## [,1]
## [1,] 1
## [2,] 2
## [3,] 3
## [4,] 4
dim(z)
## [1] 4 3
ls()
## [1] "x" "y" "z"
rm(y)
ls()
```