Vectors

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19/12/2020

Vector Creation

a=c(1:15)  
a

## [1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Vector Operation

a+3

## [1] 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

a-2

## [1] -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13

a^2

## [1] 1 4 9 16 25 36 49 64 81 100 121 144 169 196 225

b=c(-4:0)  
a+b

## [1] -3 -1 1 3 5 2 4 6 8 10 7 9 11 13 15

d=c(-4:10)  
a

## [1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

d

## [1] -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10

any(a<d)

## [1] FALSE

all(a<d)

## [1] FALSE

a[4]

## [1] 4

f=c("january","february","march","april","may","june")  
nchar(f)

## [1] 7 8 5 5 3 4

Naming Vectors

c(one="a",two="b",three="c")

## one two three   
## "a" "b" "c"

w=1:3  
names(w)=c("a","b","c")  
w

## a b c   
## 1 2 3