

Vectors

```
x<-c(0.5,0.6)      ##numeric
y<-c(TRUE,FALSE)   ##logical
z<-c(T,F)           ##logical
a<-c("a","b","c")  ##character
b<-c(9:29)           ##integer
c<-c(1+0i,2+4i)     ##complex
x;y;z;a;b;c;
```

```
## [1] 0.5 0.6
```

```
## [1] TRUE FALSE
```

```
## [1] TRUE FALSE
```

```
## [1] "a" "b" "c"
```

```
## [1] 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29
```

```
## [1] 1+0i 2+4i
```

Vector using vector function

```
x<-vector("numeric", length=10)
x
```

```
## [1] 0 0 0 0 0 0 0 0 0 0
```

convert data types

```
x<-0:6
class(x)
```

```
## [1] "integer"
```

```
as.numeric(x)
```

```
## [1] 0 1 2 3 4 5 6
```

```
as.logical(x)
```

```
## [1] FALSE TRUE TRUE TRUE TRUE TRUE TRUE
```

```
as.character(x)
```

```
## [1] "0" "1" "2" "3" "4" "5" "6"
```

Non-sensical coercion

```
x<-c("a","b","c")  
as.numeric(x)
```

```
## Warning: NAs introduced by coercion
```

```
## [1] NA NA NA
```

```
as.logical(x)
```

```
## [1] NA NA NA
```

```
as.complex(x)
```

```
## Warning: NAs introduced by coercion
```

```
## [1] NA NA NA
```

Lists

```
x<-list(1,"a",TRUE,1+4i)  
x
```

```
## [[1]]  
## [1] 1  
##  
## [[2]]  
## [1] "a"  
##  
## [[3]]  
## [1] TRUE  
##  
## [[4]]  
## [1] 1+4i
```