## 01 Basic R for Finance

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## R Basic

## Matrix

We can create matrix from one atomic vector.

```
x_vec <- c(9, 4, 6, 20, 19, 29)
x_mat <- matrix(data = x_vec, nrow = 2, ncol = 3, byrow = TRUE)
x_mat

## [,1] [,2] [,3]
## [1,] 9 4 6
## [2,] 20 19 29</pre>
```

```
cor(x_mat)
```

```
## [,1] [,2] [,3]
## [1,] 1 1 1
## [2,] 1 1 1
## [3,] 1 1 1
```

We can also create matrix from 2 vectors.

```
y_vec = rnorm(6, 23, 98)
matrix_yx <- cbind(x_vec, y_vec)
matrix_yx</pre>
```

```
## x_vec y_vec
## [1,] 9 146.17211
## [2,] 4 -64.33708
## [3,] 6 110.61228
## [4,] 20 94.54053
## [5,] 19 34.60247
## [6,] 29 69.91260
```

## cor(matrix\_yx)

```
## x_vec y_vec
## x_vec 1.0000000 0.1729291
## y_vec 0.1729291 1.0000000
```