```r
mymat <- matrix(1:12,4,3)

mymat <- matrix(1:12,ncol=3,byrow=TRUE)

kenya <- c(460.998, 314.4)
ethiopia <- c(290.475, 247.900)
chad <- c(309.306, 165.8)
geography_matrix <- matrix(c(kenya, ethiopia, chad), nrow = 3, byrow = TRUE)
location <- c("Lat", "Long")
countries <- c("Kenya", "Ethiopia", "Chad")
colnames(geography_matrix) <- location
rownames(geography_matrix) <- countries
geography_matrix
```

```
##              Lat  Long
## Kenya    460.998 314.4
## Ethiopia 290.475 247.9
## Chad     309.306 165.8
```

```r
x <- matrix(c(3, 9, -1, 4, 2, 6), nrow = 2)
y <- matrix(c(5, 2, 0, 9, 3, 4), nrow = 2)
x+y
```

```
##      [,1] [,2] [,3]
## [1,]    8   -1    5
## [2,]   11   13   10
```

```r
x-y
```

```
##      [,1] [,2] [,3]
## [1,]   -2   -1   -1
## [2,]    7   -5    2
```

```r
x*y
```

```
##      [,1] [,2] [,3]
## [1,]   15    0    6
## [2,]   18   36   24
```

```r
x / y
```

```
##      [,1]      [,2]      [,3]
## [1,]  0.6      -Inf 0.6666667
## [2,]  4.5 0.4444444 1.5000000
```