

Vectorized Operations

Vectorized operation on vectors

```
x<-1:4;y<-6:9  
x+y
```

```
## [1]  7  9 11 13
```

```
x>2
```

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

```
x>=2
```

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

```
x*y
```

```
## [1]  6 14 24 36
```

```
x/y
```

```
## [1] 0.1666667 0.2857143 0.3750000 0.4444444
```

Vectorized operation on matrices (elementwise)

```
x<-matrix(1:4,2,2);y<-matrix(rep(10,4),2,2)  
x*y
```

```
##      [,1] [,2]  
## [1,]   10   30  
## [2,]   20   40
```

```
x/y
```

```
##      [,1] [,2]  
## [1,]  0.1  0.3  
## [2,]  0.2  0.4
```

Vectorized operation on matrices (true Operations)

```
x<-matrix(1:4,2,2);y<-matrix(rep(10,4),2,2)  
x %*% y
```

```
##      [,1] [,2]  
## [1,]   40   40  
## [2,]   60   60
```