Building Matrices

Pinak Nayak

```
# Matrices----
# rbind() -- row bind
# cbind() -- column bind
my.data <- 1:20
A <- matrix(my.data, 4, 5)
## [,1] [,2] [,3] [,4] [,5]
## [1,] 1 5 9 13 17
## [2,] 2 6 10 14 18
## [3,] 3 7 11 15 19
## [4,] 4 8 12 16 20
B <- matrix(my.data, 4, 5, byrow=T)</pre>
    [,1] [,2] [,3] [,4] [,5]
## [1,] 1 2 3 4
## [2,] 6
            7
                 8 9
                          10
## [3,] 11 12 13 14 15
## [4,] 16 17 18 19
# Get to 10
B[2,5]
## [1] 10
\#rbind
r1 <- c("I", "am", "happy")
r2 <- c("what" ,"a", "day")</pre>
r3 \leftarrow c(1,2,3)
C <- rbind(r1,r2,r3)</pre>
## [,1] [,2] [,3]
## r1 "I" "am" "happy"
## r2 "what" "a" "day"
## r3 "1" "2" "3"
```

```
#cbind
D <- cbind(r1,r2,r3)
D
```

```
## r1 r2 r3
## [1,] "I" "what" "1"
## [2,] "am" "a" "2"
## [3,] "happy" "day" "3"
```