Berkstats Code Snippets

Ulrich Matter

February 2017

Berkstats: Code Snippets

Hello world

Your first line of R code :)!

```r
print("Hello world!")
```

```
## [1] "Hello world!"
```

R as a Calculator

```r
2 + 2
```

```
## [1] 4
```

```r
4 * 5
```

```
## [1] 20
```

```r
20 / 5
```

```
## [1] 4
```

```r
(3/5) / (4/5)
```

```
## [1] 0.75
```

Variables and Vectors

```r
a <- c(1,22,333)
names(a) <- c("Andy", "Betty", "Claire")
print(a)
```

```
##   Andy  Betty Claire
##      1     22    333
```

```r
print(a[3])
```

```
## Claire
##    333
```

```r
print(a["Betty"])
```

```
## Betty
##    22
```

```
# calculate with variables
b <- 5
c <- 8
b + c
```

```
## [1] 13
```

```
# simple calculations with vectors
a + b
```

```
##   Andy  Betty Claire
##      6     27    338
```
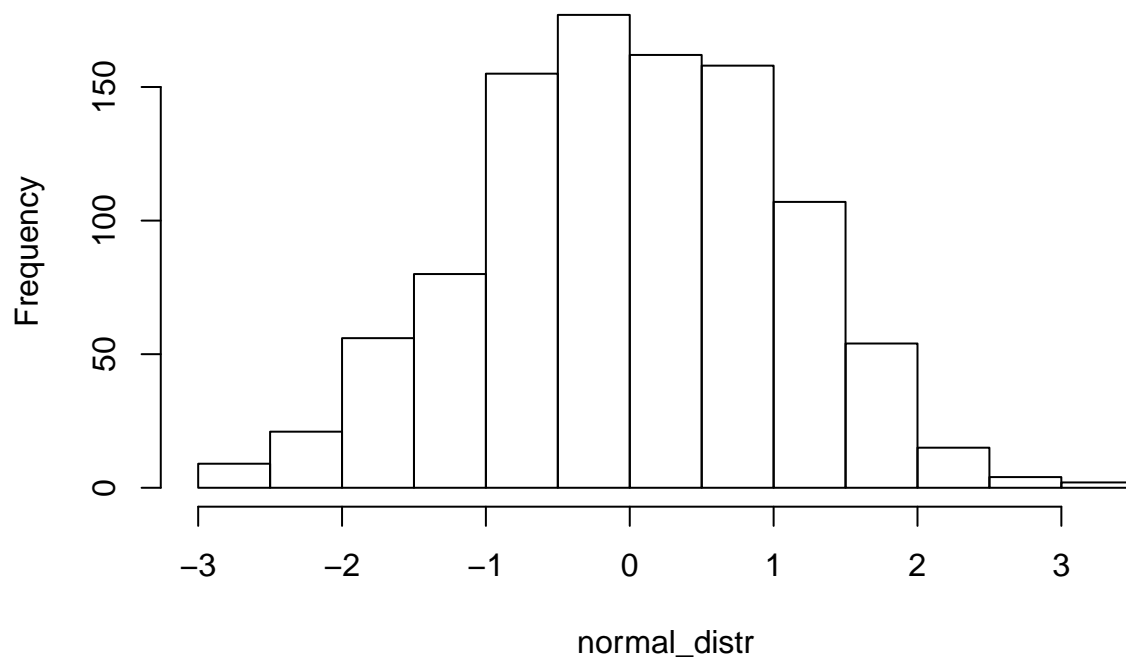
```
a * c
```

```
##   Andy  Betty Claire
##      8    176   2664
```

Random Draws and Distributions

```
normal_distr <- rnorm(1000)
hist(normal_distr)
```


Histogram of normal_distr

Compute the Mean

```
a <- c(1,22,333)
sum(a) / length(a)
```

```
## [1] 118.6667
```

```r
# or simpler, with an R function
mean(a)
```

```
## [1] 118.6667
```