

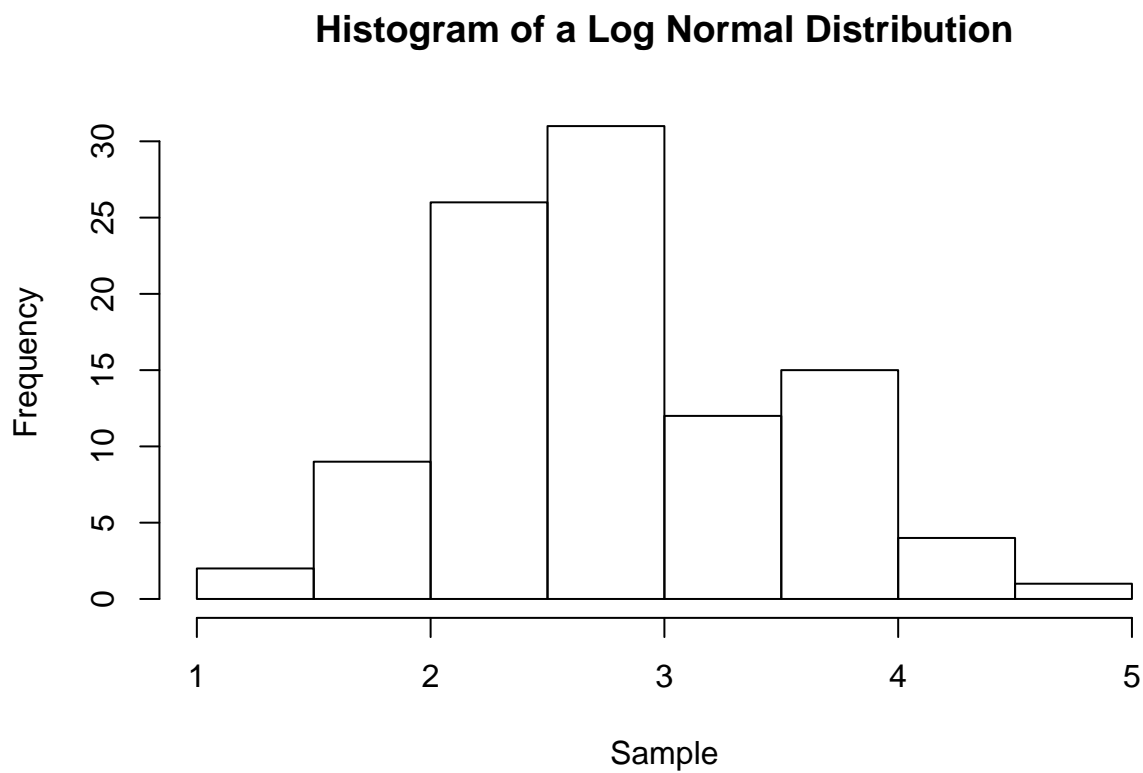
STA426 Week1

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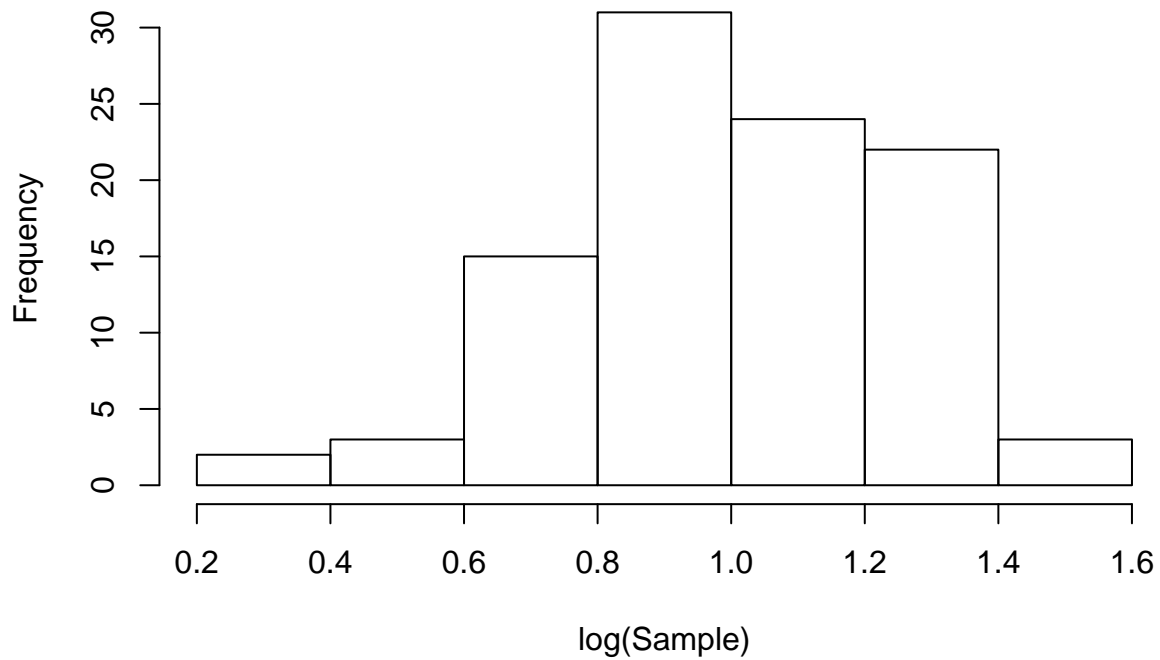
Part 2

```
set.seed(20)
Sample <- rlnorm(n=100, meanlog =1, sdlog=0.25)
hist(Sample, main = "Histogram of a Log Normal Distribution")
```



```
hist(log(Sample), main = "Histogram of a Log Normal Distribution on the log scale")
```

Histogram of a Log Normal Distribution on the log scale



```
mu <- mean(Sample)
var <- var(Sample)
```

I sample a Log Normal Distribution with 100 observations, a mean of 1 and a standard deviation of 0.25. Then I plot a histogram of this sample aswell as the log of the sample.

μ of the Sample =

```
## [1] 2.803637
```

σ^2 of the Sample =

```
## [1] 0.463685
```