

IQ Scores

Your Name

2016-05-25

```
> setwd("C:/Users/parlar/Documents/1R/1ZLC/S1/Normal")
```

```
> Dataset <-  
+ readXL("C:/Users/parlar/Documents/1R/1ZLC/S1/Normal/IQScores-1000.xlsx",  
+ rownames=FALSE, header=TRUE, na="", sheet="IQ Scores x",  
+ stringsAsFactors=TRUE)
```

```
> summary(Dataset)
```

```
      x  
Min.   : 55.0  
1st Qu.: 90.0  
Median :100.0  
Mean   :100.4  
3rd Qu.:110.0  
Max.   :146.0
```

```
> library(abind, pos=14)
```

```
> library(e1071, pos=15)
```

```
> numSummary(Dataset[, "x"], statistics=c("mean", "sd", "IQR", "quantiles"),  
+ quantiles=c(0, .25, .5, .75, 1))
```

mean	sd	IQR	0%	25%	50%	75%	100%	n
100.367	14.84138	20	55	90	100	110	146	1000

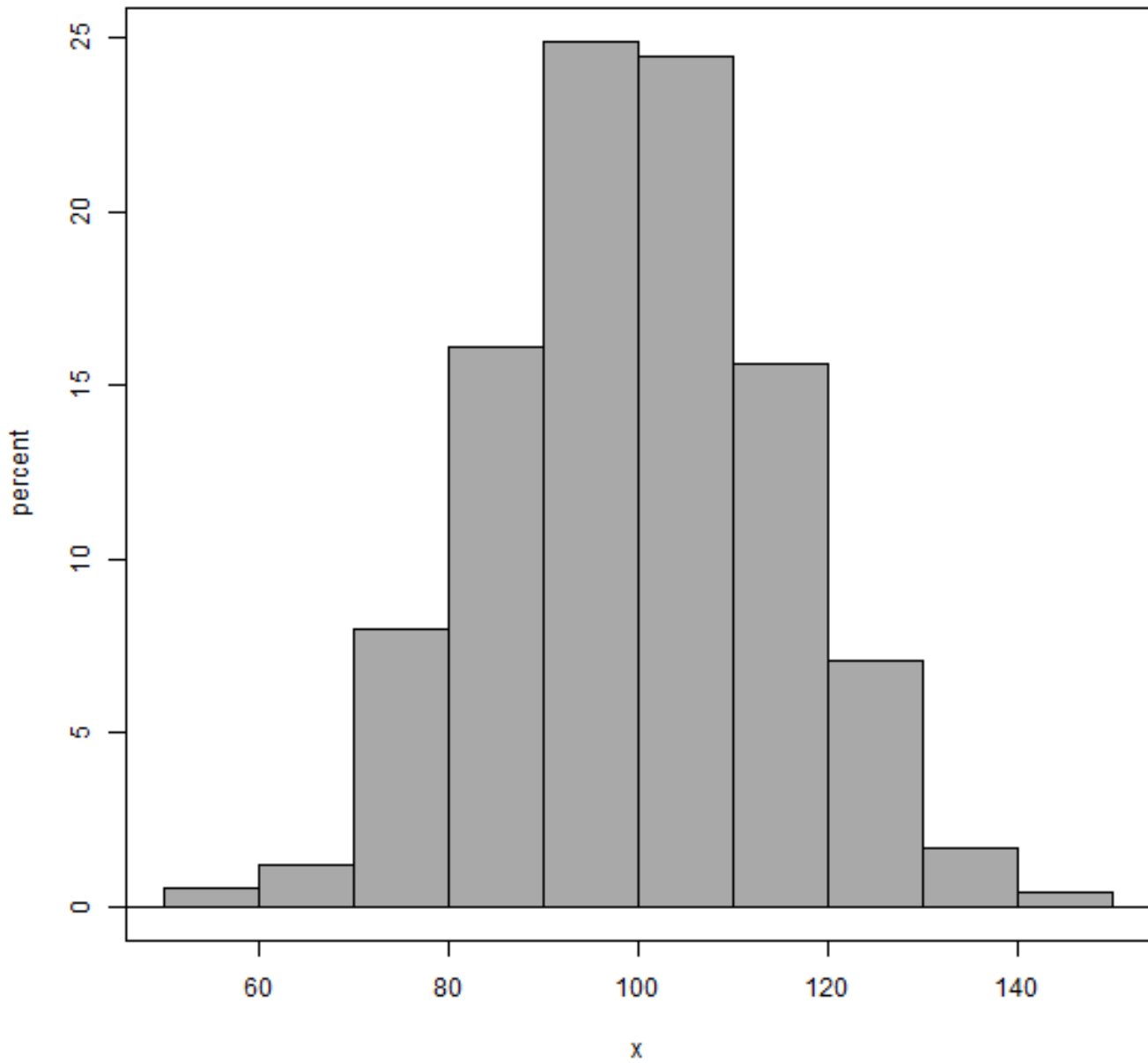
```
> with(Dataset, shapiro.test(x))
```

Shapiro-Wilk normality test

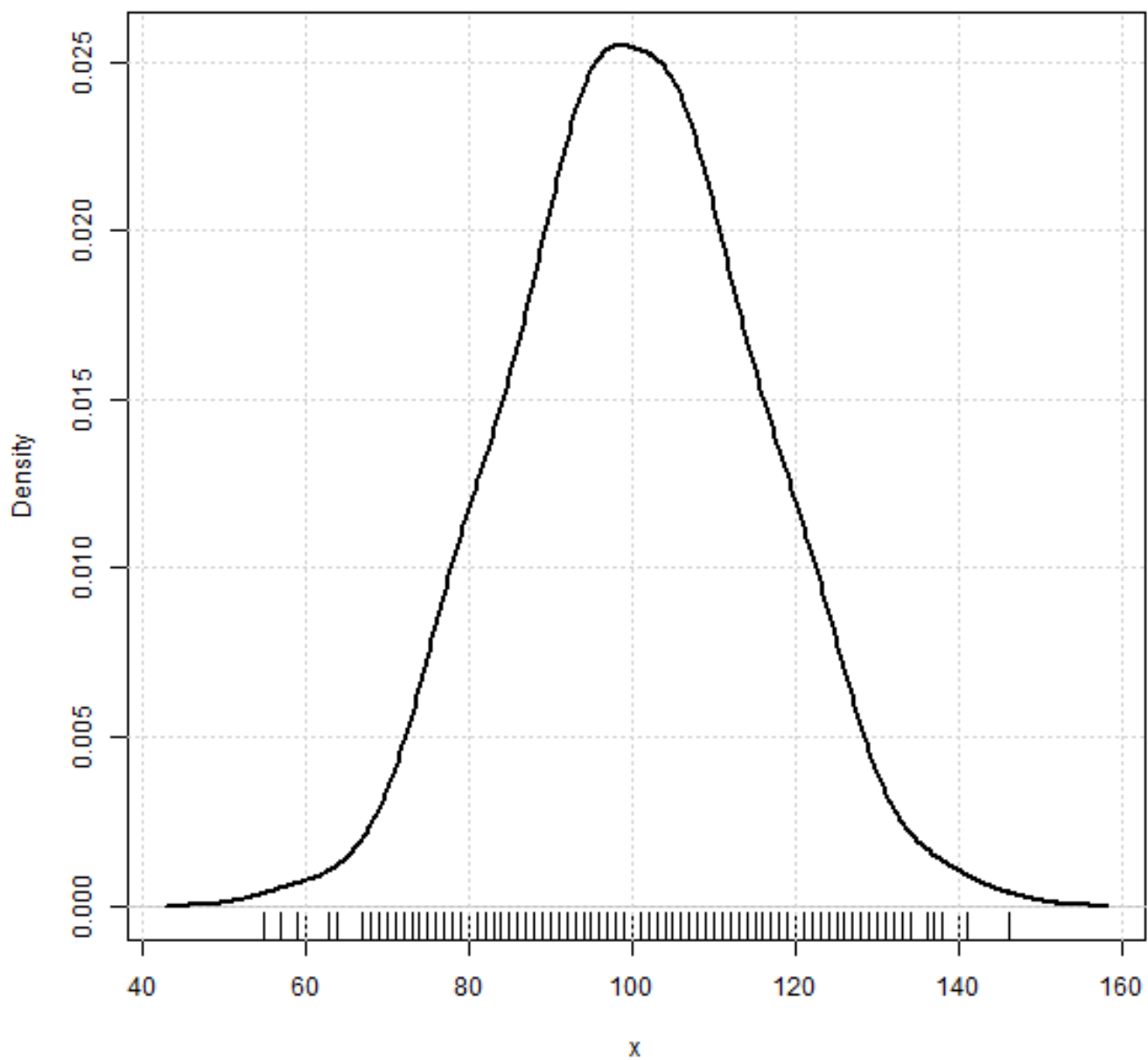
data: x

W = 0.99842, p-value = 0.5032

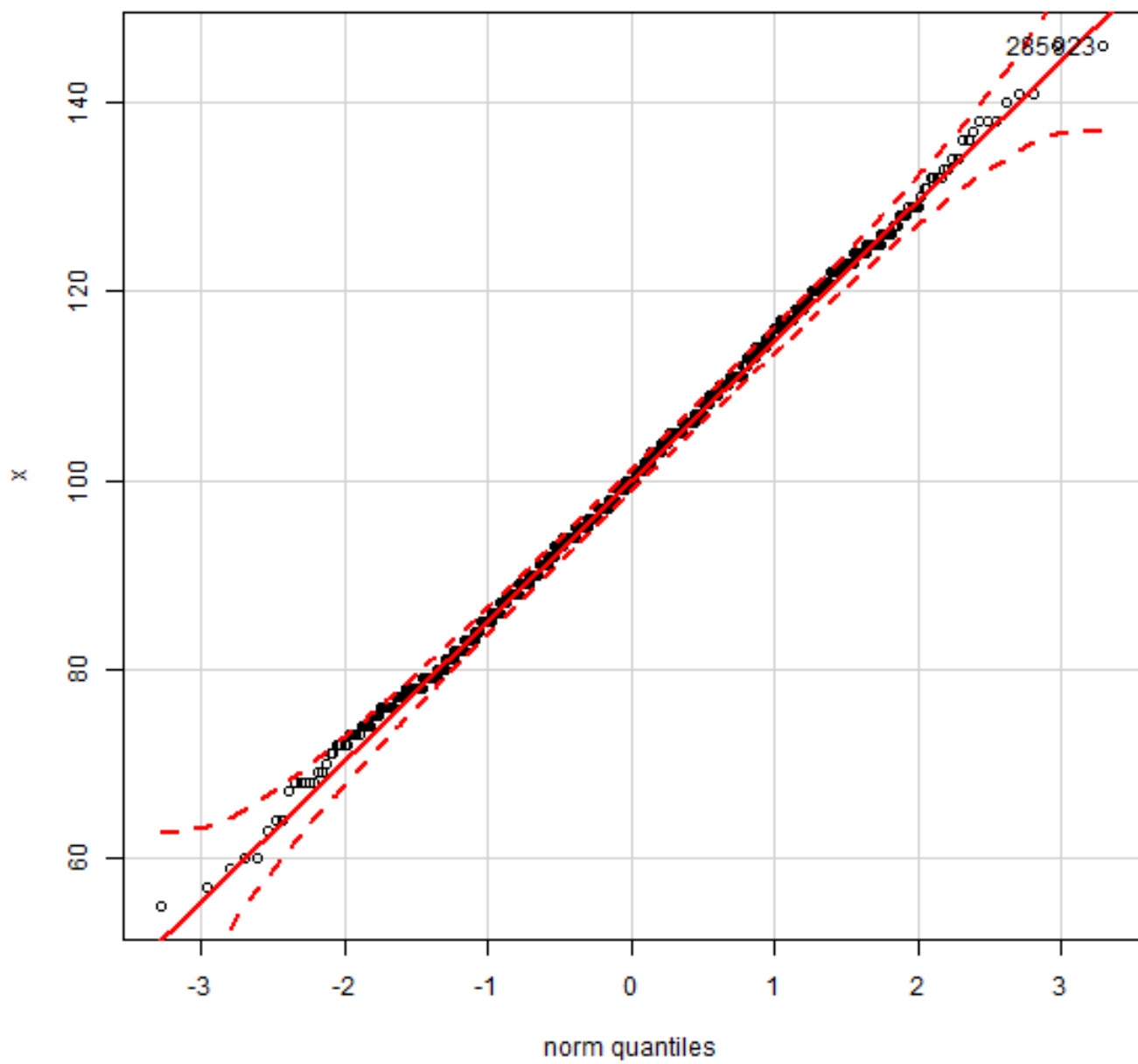
```
> with(Dataset, Hist(x, scale="percent", breaks="Sturges", col="darkgray"))
```



```
> densityPlot( ~ x, data=Dataset, bw="SJ", adjust=1, kernel="gaussian")
```



```
> with(Dataset, qqPlot(x, dist="norm", id.method="y", id.n=2,  
+ labels=rownames(Dataset)))
```



```
285 923  
999 1000
```

```
> pnorm(c(145), mean=100, sd=15, lower.tail=FALSE)
```

```
[1] 0.001349898
```