Histogram plots

Displaying iris data:

> i	ris				
	Sepal.Length		Petal.Length	Petal.Width	Species
1	5.1	3.5	1.4	0.2	setosa
2	4.9	3.0	1.4	0.2	setosa
3	4.7	3.2	1.3	0.2	setosa
4	4.6	3.1	1.5	0.2	setosa
5	5.0	3.6	1.4	0.2	setosa
6	5.4	3.9	1.7	0.4	setosa
7	4.6	3.4	1.4	0.3	setosa
8	5.0	3.4	1.5	0.2	setosa
9	4.4	2.9	1.4	0.2	setosa
10	4.9	3.1	1.5	0.1	setosa
11	5.4	3.7	1.5	0.2	setosa
12	4.8	3.4	1.6	0.2	setosa
13	4.8	3.0	1.4	0.1	setosa
14	4.3	3.0	1.1	0.1	setosa
15	5.8	4.0	1.2	0.2	setosa
16	5.7	4.4	1.5	0.4	setosa
17	5.4	3.9	1.3	0.4	setosa
18	5.1	3.5	1.4	0.3	setosa
19	5.7	3.8	1.7	0.3	setosa
20	5.1	3.8	1.5	0.3	setosa
21	5.4	3.4	1.7	0.2	setosa
22	5.1	3.7	1.5	0.4	setosa
23	4.6	3.6	1.0	0.2	setosa
24	5.1	3.3	1.7	0.5	setosa
25	4.8	3.4	1.9	0.2	setosa
26	5.0	3.0	1.6	0.2	setosa
27	5.0	3.4	1.6	0.4	setosa
28	5.2	3.5	1.5	0.2	setosa
29	5.2	3.4	1.4	0.2	setosa
30	4.7	3.2	1.6	0.2	setosa
31	4.8	3.1	1.6	0.2	setosa

Display the first few rows of the dataset head(iris)

> head(iris)

	Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
1	5.1	3.5	1.4	0.2	setosa
2	4.9	3.0	1.4	0.2	setosa
3	4.7	3.2	1.3	0.2	setosa
4	4.6	3.1	1.5	0.2	setosa
5	5.0	3.6	1.4	0.2	setosa
6	5.4	3.9	1.7	0.4	setosa
>					

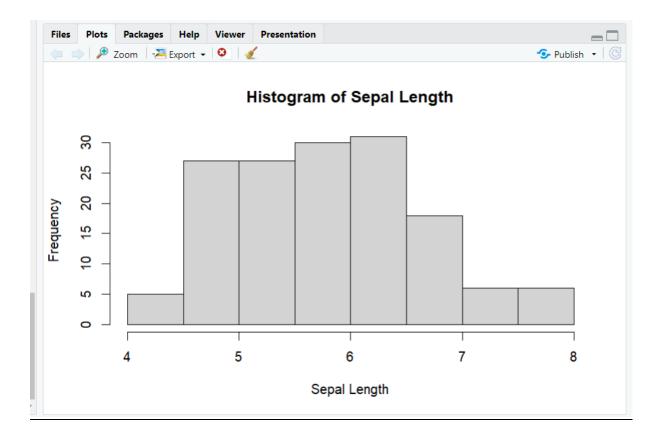
Display the last few rows of the dataset tail(iris)

> tail(iris) Sepal.Length Sepal.Width Petal.Length Petal.Width Species 145 6.7 3.3 5.7 2.5 virginica 2.3 virginica 146 6.7 3.0 5.2 147 6.3 2.5 5.0 1.9 virginica 148 6.5 3.0 5.2 2.0 virginica 149 2.3 virginica 6.2 3.4 5.4 150 5.9 3.0 5.1 1.8 virginica

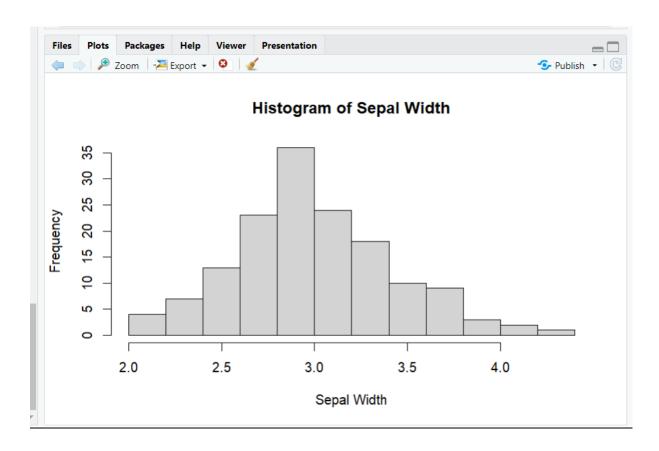
Summary statistics summary(iris)

```
> summary(1r1s)
                 Sepal.Width
                                 Petal.Length
                                                Petal.Width
                                                                      Species
 Sepal.Length
Min.
       :4.300
                Min.
                      :2.000
                                Min.
                                       :1.000
                                                Min.
                                                       :0.100
                                                               setosa
                                                                         :50
1st Qu.:5.100
                1st Qu.:2.800
                                1st Qu.:1.600
                                                1st Qu.:0.300
                                                                versicolor:50
Median :5.800
                Median :3.000
                                Median :4.350
                                                Median :1.300
                                                               virginica:50
Mean
      :5.843
                Mean
                      :3.057
                                Mean :3.758
                                                Mean
                                                       :1.199
                                3rd Qu.:5.100
                                                3rd Qu.:1.800
3rd Qu.:6.400
                3rd Qu.:3.300
       :7.900
                       :4.400
                                       :6.900
                                                       :2.500
Max.
                Max.
                                Max.
                                                Max.
```

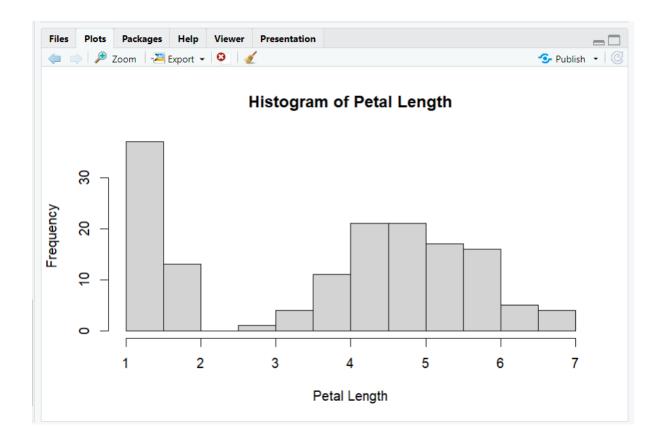
Histogram of Sepal Length hist(iris\$Sepal.Length, main="Histogram of Sepal Length", xlab="Sepal Length")



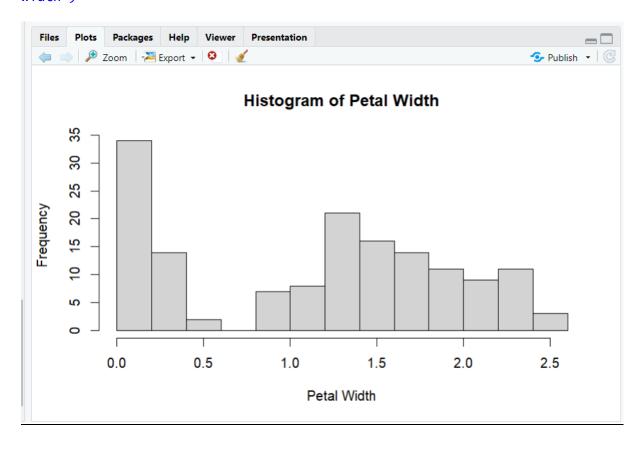
Histogram of Sepal Width hist(iris\$Sepal.width, main="Histogram of Sepal Width", xlab="Sepal width")



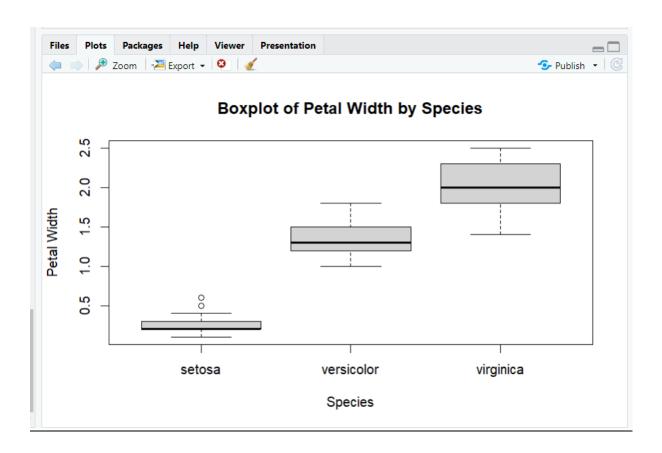
Histogram of Petal Length
hist(iris\$Petal.Length, main="Histogram of Petal Length", xlab="Petal Length")



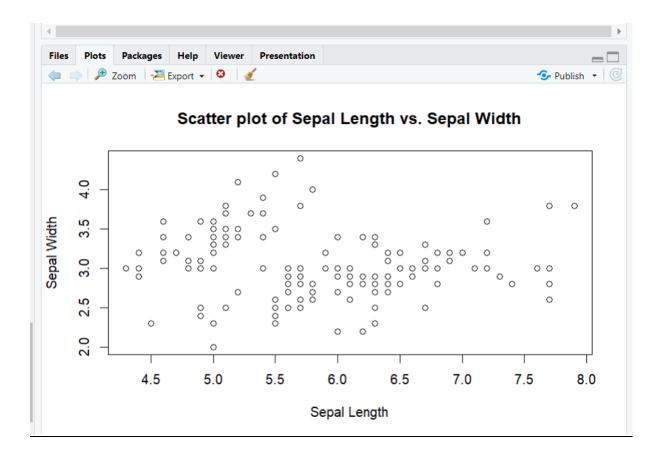
Histogram of Petal Width
hist(iris\$Petal.Width, main="Histogram of Petal Width", xlab="Petal
Width")



Boxplot of Petal Width by Species boxplot(Petal.Width ~ Species, data=iris, main="Boxplot of Petal Width by Species", xlab="Species", ylab="Petal Width")



Scatter plot of Sepal Length vs. Sepal Width plot(iris\$Sepal.Length, iris\$Sepal.Width, main="Scatter plot of Sepal Length vs. Sepal Width", xlab="Sepal Length", ylab="Sepal Width")



Print the t-test result print(t_test_result)