Conclusion

Summary

Summary of Statistics Onramp

Import and Prepare Data

Function	Description
readtable	Create a table from a file.
categorical	Create a categorical variable.

Visualizing Data

Function	Example	Description
scatter	`scatter(x,y)`	Create a scatter plot with circular markers at the locations specified by the vectors x and y.
gscatter	`gscatter(x,y,g)`	Create a scatter plot of x and y, grouped by g
histogram	`histogram(x,"BinWidth",0.5)`	Create a histogram of the data in x using 0.5 as the bin width.
boxchart	`boxchart(xgroupdata,ydata)`	Create a box plot of y data according to x groups.
scatterhistogram	`scatterhistogram(x,y)`	Create a scatter plot of x and y with histograms.

Descriptive Statistics

Measures of Center

Function	Description
mean	Average of the data.
median	Middle point of the data.

Measures of Spread

Function	Description
std	Standard deviation of the data.
range	Range of the data, difference between maximum and minimum value.
iqr	Interquartile range, or IQR, range of the middle 50% of the data.

Measures of Shape

Function	Description
skewness	Skewness of the data.
kurtosis	Tailedness of the data.

Normal Distributions

Function	Description
randn	Generate random numbers from the standard normal distribution.
normrnd	Generate random numbers from a normal distribution with known mean and standard

	deviation.
normpdf	Returns the probability density function from the normal distribution evaluated at x.
normcdf	Returns the cumulative density function (cdf) from the normal distribution evaluated at x.
fitdist	Fit a distribution to data.
qqplot	Displays a quantile-quantile plot.

Hypothesis Testing

Function	Description
ttest2	Test for the difference in mean between two populations.
jbtest	Jarque-Bera test for normality.
lillietest	Lilliefors test for normality.