

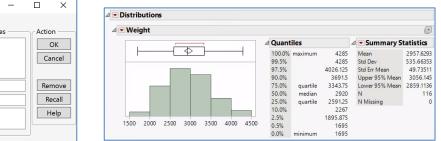
Histograms, Descriptive Statistics, and Stem and Leaf

Use to summarize and display the distribution of continuous variables. Histograms and stem and leaf plots allow you to assess the shape, centering and spread of the data.

Histograms and Descriptive Statistics

- 1. From an open JMP[®] data table, select **Analyze > Distribution**.
- 2. Click on one or more continuous variables from **Select Columns**, and click **Y**, **Columns** (continuous variables have blue triangles).
- 3. Click OK to generate a histogram, outlier box plot and descriptive statistics.
 - The percentiles, including quartiles and the median, are listed under Quantiles.
 - The sample mean, standard deviation and other statistics are listed under Summary Statistics.

E Distribution - JMP			_		×
Displays a histogram and univa	ariate statistics for	each variable.			
- Select Columns	Cast Selecte	d Columns into Role	s ———	Actio	n —
8 Columns	Y, Columns	🔺 Weight		C	к
Model Country Type		optional		Car	ncel
⊿ Weight	Weight	optional numeric		Rem	nove
 Turning Circle Displacement 	Freq	optional numeric		Re	call
 Horsepower Gas Tank Size 	Ву	optional		He	elp
Histograms Only					



Tips:

- To change the display from vertical to horizontal (as shown), click on the **red triangle** next to the variable name and select **Display Options > Horizontal Layout**.
- Many other options on summarizing/analyzing a continuous variable is found under the **red triangle** for that variable.
- To display different summary statistics, use the red triangle next to Summary Statistics.
- To change the default display, go to File > Preferences > Platforms > Distribution and select options.

Stem and Leaf Plot

To generate a stem and leaf plot, click on the **red triangle** for the variable and select **Stem and Leaf**.

Stem	Leaf	Count
4	0003	4
3	555555556666777778999	21
3	000000111111122222333333334444	29
2	555666677777777888888888999999999999999	38
2	122222333333333334444	21
1	789	3

Tips:

- A key to interpret the values is at the bottom of the plot. The bottom three values are 1700, 1800, 1900. The top 4 values in this example is 4000, 4000, 4000, 4300 (Note: values have been rounded to the nearest 100).
- Click on values in the stem and leaf plot to select observations in both the histogram and the data table. Or, select bars in the histogram to select values in the stem and leaf plot and data table.

Visit **Discovering JMP > Visualize Your Data**, **Discovering JMP > Analyze Your Data > Analyze Distributions** and **Basic Analysis > Distributions** in **JMP Help** to learn more.

Car Physical Data.jmp (Help > Sample Data Folder)