Bar Charts and Frequency Tables

Use to summarize and display the distribution of categorical variables.
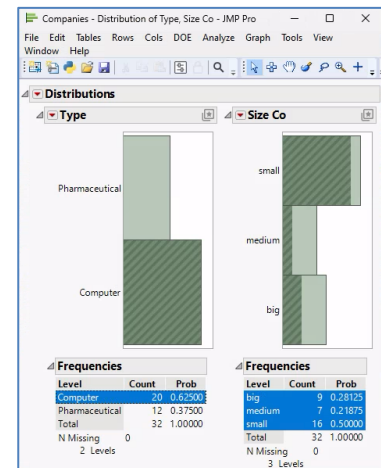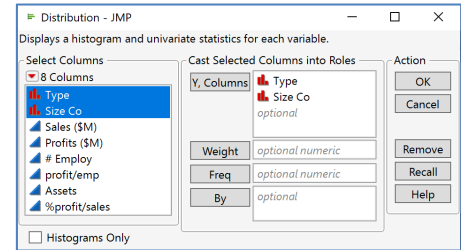
Bar Charts and Frequency Distributions

Companies.jmp (Help > Sample Data Folder)

1. From an open JMP® data table, select **Analyze > Distribution**.
2. Click on one or more nominal or ordinal variables from **Select Columns**, and click **Y, Columns** (nominal variables have red bars, and ordinal variables have green bars).
3. If you have summarized data (a column with counts), enter the count column into **Freq**.
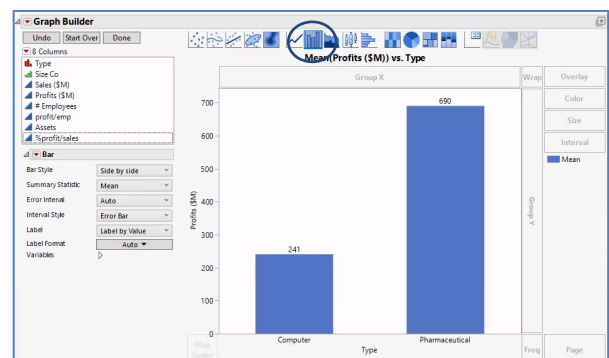4. Click **OK** to generate bar charts and frequency distributions for each variable.

Tips:

- To change the display from vertical to horizontal, click on the top red triangle and select **Stack**.
- To change future output to horizontal, go to **File > Preferences**. Select **Platforms > Distribution**, click **Stack** and **Horizontal Layout**, then click **OK**.
- To change the graphical display for a variable, or to select additional options, click on the **red triangle** for that variable.
- Click on bars in one graph to see the distribution of the variable across other variables (dynamic linking).
- Categorical variables display in alphanumeric order. To change the display order, use the **Value Ordering** or **Row Order Levels** column property (right-click on the column and select **Column Properties**).

Bar Charts – Graph Builder

1. Select **Graph > Graph Builder**.
2. Click, then drag and drop a nominal variable from **Select Columns** to the X zone on the bottom of the graph.
3. Click on the bar chart icon above the graph.
4. Drag and drop a continuous weight variable from **Select Columns** to the Y zone on the left of the graph, or a drag and drop a count or frequency variable to the **Freq** field.
5. Select a statistic to be plotted from list of **Summary Statistics** (bottom left).
6. Right-click on graph and select **Bar > Label > Label by Values** to display the Mean Profit for each Type.

Notes: Bar charts can also be created in the **Chart** platform (**Graph > Legacy > Chart**).

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