

# Interactive Graphing with Graph Builder

Use Graph Builder to interactively create graphs for one or more variables, including line plots, splines, box plots, bar charts, histograms, mosaic plots, maps and more.

## Drag and Drop to Visualize Data

1. From an open JMP® data table select **Graph > Graph Builder**.
2. Drag a variable from the **Variables** list and drop it in the desired drop zone. In the examples (right), Weight is in the **X** zone and Height is in the **Y** zone.
3. To add a grouping variable, drag and drop a variable in the **Group X** or **Group Y** zone. In the example, Sex is in the **Group X** zone.
4. To change the graphical display, **click on a graph element icon**. Here, Line of Fit has been selected.
5. Change **Summary Statistics** and other display options for the selected graph elements.
6. Click the **Done** button (top left) when finished.

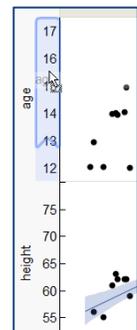
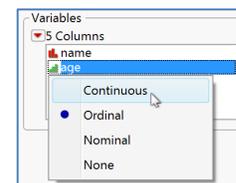
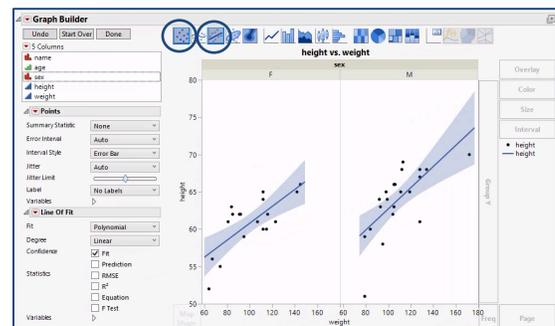
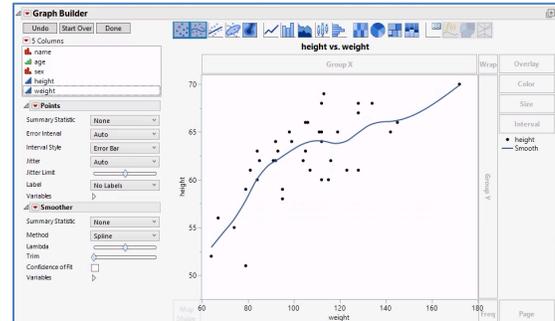
### Tips:

- Right-click in the graph to change graph properties.
- To replace a variable with a new variable, drag the new variable and drop it in the center of the drop zone.
- By default, Graph Builder displays data points. If continuous variables are in both the X and Y zones a smooth spline will also be displayed by default (lambda = 0.05).
- More than one variable can be assigned to an X or Y zone, or to a group zone. Drag a variable to either side of the existing variable in the zone – a blue ribbon will indicate where the new variable will be placed when dropped.
- To change the modeling type to utilize different graph types, right-click on the variable and select the new data type (if available).

### Other Drop Zones:

- Drop a variable in **Wrap** to trellis the graph horizontally and vertically.
- Drop a variable in **Color** to create a legend and color by values of the variable.
- Drop a variable in **Overlay** to color and overlay graphs for each value of the variable on one graph.
- If data has been summarized (a frequency variable exists), drag the variable to the **Freq** zone.
- If a column defines a physical shape, drag the variable to **Shape** to create a map (shape files must exist).
- Drop a variable in **Size** to scale markers or map shapes according to the value of the size variable.

Big Class.jmp (under Help > Sample Data Folder)



Visit **Discovering JMP > Visualize Your Data, Essential Graphing > Graph Builder** in **JMP Help** to learn more.