

Scatterplots

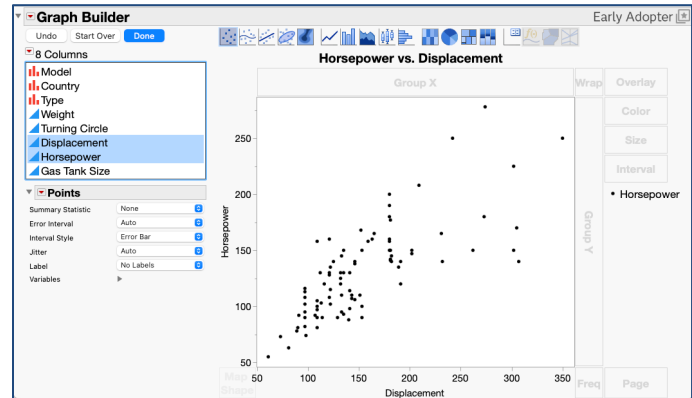
Use to explore and describe the relationship between two continuous variables.

Scatterplots – Two Variables

1. From an open JMP® data table, select **Graph > Graph Builder**.
2. Drag and drop a continuous variable on the **X axis** and one on the **Y axis**.
 - By default, the graph also displays a spline smoother function. Unselecting the smoother icon in the graph palette will remove it.

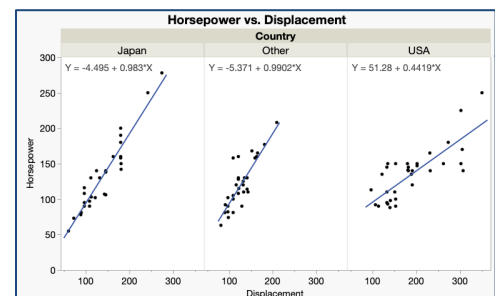
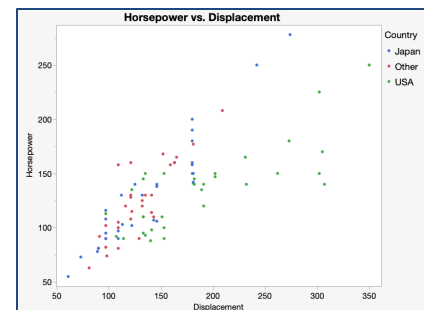
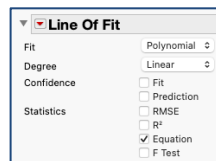


Car Physical Data.jmp (under Help > Sample Data Folder)

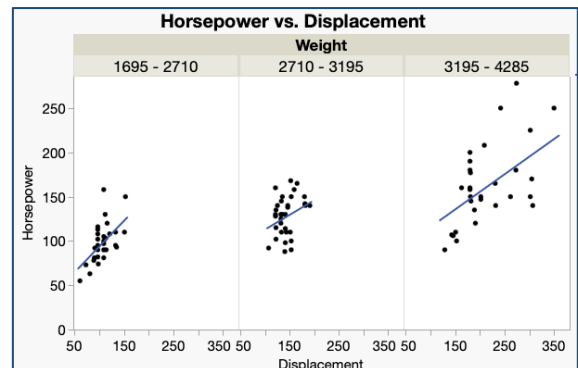


Note: Scatterplots can also be produced in the **Analyze > Fit Y by X** platform.

- A categorical variable can be added to the **Color zone** (1st graph), **Overlay**, **Group X** (2nd graph) or **Wrap zone** to providing means for exploring the relationship across levels of a categorical variable.
- In the 2nd graph, a linear regression along with the equation was added by selecting the **line of fit** icon (while holding the shift key) and selecting **Equation** in the **Line of Fit controls**.



- A continuous variable can be added to the **Group X** or **Wrap zone** (3rd graph) to create multiple scatterplots – one for defined ranges of the continuous variable. Here we placed 'Weight' in the **Group X zone** and chose to use 3 levels (right-click on the variable name and select **Levels > Number of Levels > 3**).



Visit **Discovering JMP > Visualize Your Data > Compare Multiple Variables**, and **Essential Graphing in JMP Help** to learn more about methods to visualize data.