

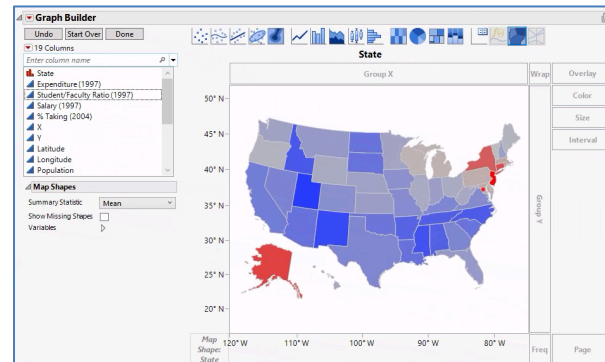
Mapping in Graph Builder

Use the Graph Builder to create interactive maps of U.S. states, U.S. counties, and worldwide countries and provinces. JMP® ships with these shape files. Other shape files (e.g., ESRI) can be used or you create your own custom maps.

Basic Mapping

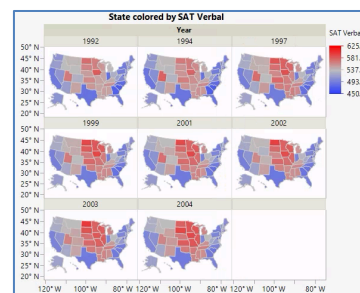
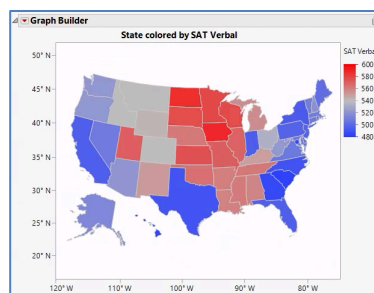
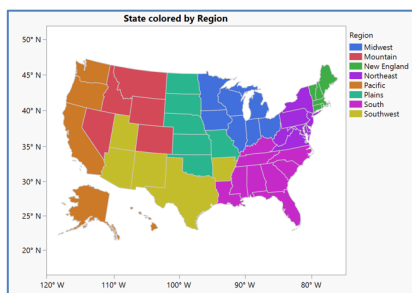
1. From an open JMP data table, select **Graph > Graph Builder**.
2. Drag a shape variable from the **Variables** list (for example, State) to main drop zone.
3. Drag variables into other drop zones until the desired map is produced.
4. Use the **Undo** and **Start Over** buttons to try several options. Click **Done** when finished.

SATbyYear.jmp (Help > Sample Data Folder)



The resulting display depends on the modeling type of the variables and the drop zone(s) used. Examples:

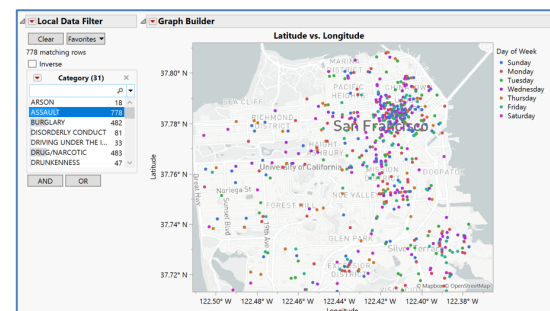
- Left: Region (Nominal) was dropped in the Color zone.
- Middle: SAT Verbal (Continuous) was dropped in the Color zone.
- Right: Total Rate was dropped in the Color zone, and Year (Continuous) was dropped in the Wrap zone.



Tips:

- Right-click on the legend to change the color gradient or transparency.
- Use the **Local Data Filter** accessed under the **Red Triangle** in a report to dynamically select, show and include values of selected variables. The Local Data Filter applies to only the active report. See **Discovery JMP > Work with Data Tables > Example of Filtering Data in a Report** and in **Using JMP > JMP Reports > The Data Filter in JMP Help** to learn more.
- If your data set contains latitudinal and longitudinal data, you can add a background map or image. Drag these latitude and longitude variables to the Y and X zones, right-click on the graph, select **Graph > Background Map** and choose the desired image (e.g., street map of San Francisco in the example to the right). In this example, *Day of Week* was placed in the **Color Role**, and "Assault" chosen from the variable *Category* that was selected for the **Local Data Filter**.

San Francisco Crime.jmp (Help > Sample Data Folder)



Visit **Essential Graphing > Maps** in **JMP Help** to learn more.