

Mosaic Plot

Use to examine the relationship between categorical variables. A mosaic plot is a type of stacked bar graph that displays the proportion of data for each level of a variable across the levels of one or more other variables.

Mosaic Plot – 2 variables

1. Select **Graph > Graph Builder**.
2. Place a categorical variable on the **Y axis** and one on the **X axis**. (note: categorical variables have red or green bars).
3. Select the **Mosaic Plot icon** in the graph palette.
4. Select to **label by** count or percent if desired.

- The height of each of the three levels of 'size' (Small, Medium, Large) is the percentage of each within each level of 'type' (Family, Sporty, Work).
- The width of the bars displays the percentage of data within each level of the variable on the **X axis**.
- The plot can be transposed by selecting the X variable to use on the **Response axis**.
- Alternative colors can be chosen for the groups by right-clicking on each colored square in the legend.

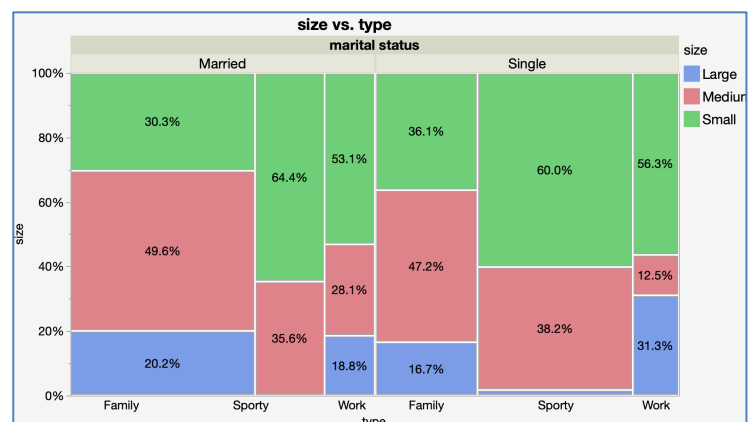
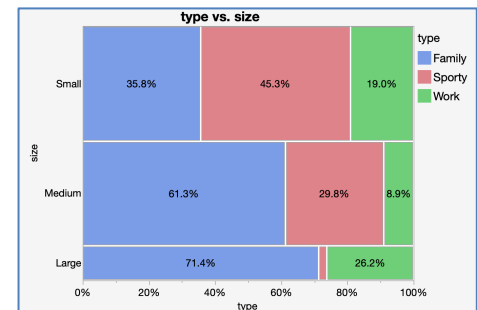
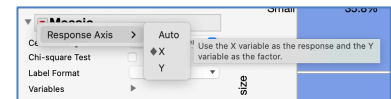
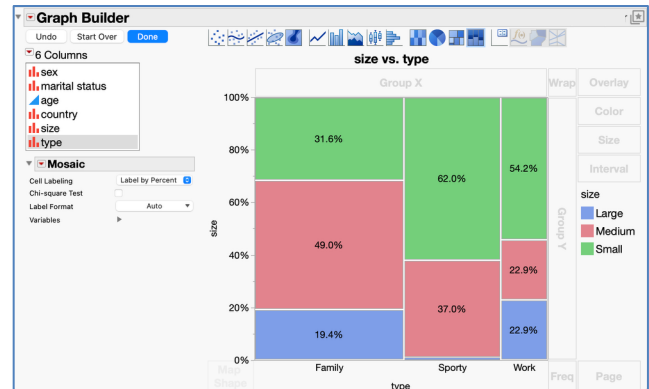
Note: Mosaic plots can also be made using the **Analyze > Fit Y by X** platform. See the Guide "Chi-Square Tests for a Two-Way Table".

Mosaic Plot – 3 or more variables

Additional variables can be added by placing them on the **X axis** within or outside of the variable already there, or placing in the **Group X** or **Wrap zone**.

Here we placed 'marital status' in the **Group X zone**.

Car Poll.jmp (Help > Sample Folder)



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