If your data has a changing variable You can use these visualizations Which look like this Line charts Single: Stacked: Individual data points for a changing variable when the changing when the changing variable applies to are connected with a continuous line variable is for a single more than one category and you want category to compare categories Download a stacked line chart in Google Sheets **Column charts** Single: Stacked: Grouped: when the changing when the variable change applies when the variable change applies (vertical bar charts) variable is for a single to more than one category and to more than one category and Individual data points for a changing variable category you want to compare categories you want to compare categories are represented as ve tical columns without the spread of a group Note: If the values being compared are vastly different, a column chart might be too tall. You can use a horizontal bar chart instead.

Download examples in Google Sheets

Horizontal bar charts

Individual data points for a changing variable for one or more categories; these appear like rotated column charts

Download examples in Google Sheets



Single:

when the changing variable is for a single category



Grouped:

when the variable change applies to more than one category and you want to compare categories



Stacked:

when the variable change applies to more than one category and you want to compare categories without the spread of a group



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If your data has a changing variable measured over time				
You can use these visualizations	Which look like this			
Line charts Individual data points for a changing variable are connected with a continuous line Download a <u>stacked line chart</u> in Google Sheets	The line charts are similar to those for a changing variable but time is shown on the x-axis	Single: when the change over time is for a single item or classification	Stacked: when the change over time is for multiple items or classifications	
Area charts Individual data points for a changing variable are connected with a continuous line and the area under the line is filled in Download a <u>stacked area chart</u> in Google Sheets	Single: when the variable change is for a single category over time	Unstacked: when data doesn't align on the x-axis (data is from different time points)	Stacked: when data aligns on the x-axis (data is from the same time points)	

If your data has a numeric trend			
You can use these visualizations	Which look like this		
Histograms Individual data points are categorized into columns that each represent a different range of values Download a <u>histogram</u> in Google Sheets	$\begin{array}{c} 40 \\ 30 \\ 20 \\ 10 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$		
Scatter charts Individual data points are displayed, but without a connecting line like in a line chart Download a <u>scatter chart</u> in Google Sheets			
Bubble charts Individual data points are displayed as bubbles like in a scatter plot, but numeric values are compared relative size of the bubbles Download a <u>bubble chart</u> in Google Sheets	$\begin{array}{c} 30 \\ 25 \\ 20 \\ 15 \\ 10 \\ 5 \\ 0 \end{array}$		

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