

Create a Box and Whisker Plot

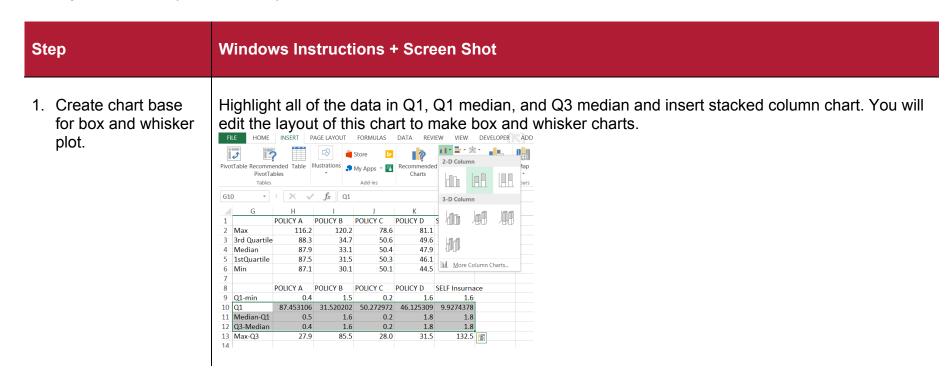
Excel Step-by-Step How-to for Windows

Excel for Mac Instructions on page 8

Instructions: Use this guide to create a box and whisker plot.

Data requirement: five number summary, quantitative data

Sample Data: multiple insurance policies

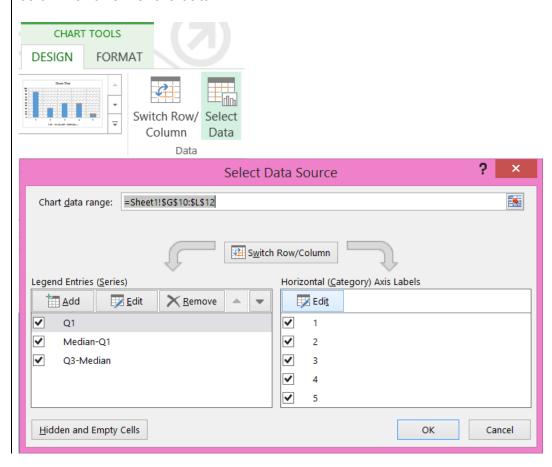




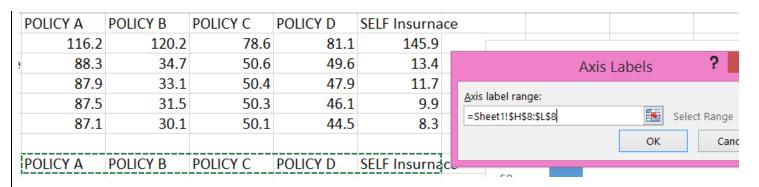
2. Change the chart labels.

Under the Design tab, press Select Data. Under the Horizontal Axis Label category, select edit. When prompted for a range of cells, select the cells with your category labels.

The range of cells are taken as A:B where A is the first column and row of the data and B is the last column and row of the data.

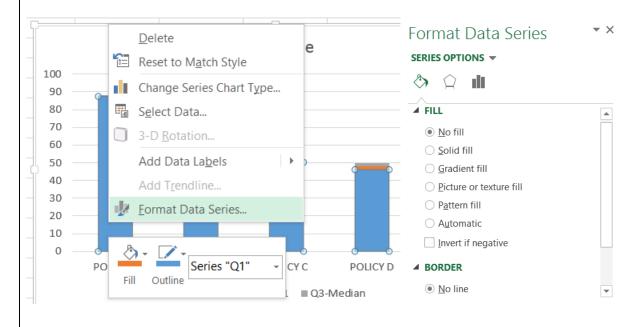






3. Format stacked columns.

Right click on any of the Q1 boxes in the chart and select Format Data Series. Set the fill to be No fill. Set the border to be No line.





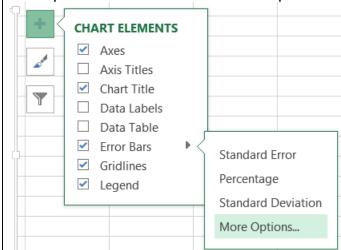
TIP: To quickly move between the stacks:

Use the up and down arrows on keyboard to navigate between the stacks of the column.



4. Add error bars to the stacked columns to look like bottom whiskers.

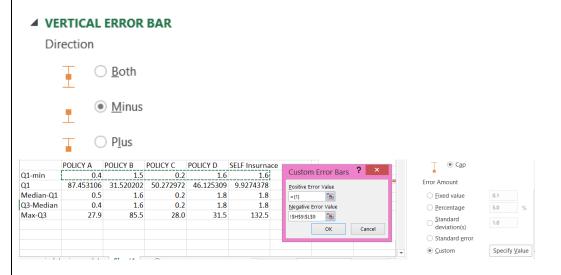
Click on the Q1 space on the chart and select the plus button. Click on add error bars. Navigate to the expansion arrow and click More Options.





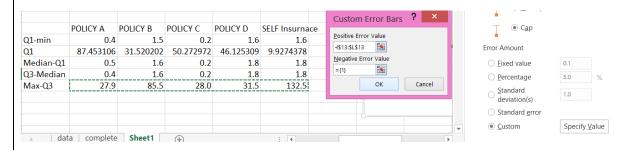
5. Customize the error bars.

Make the direction minus. Make the error amount a custom, specified value. Make the negative error the values of Q1-min by selecting all of the cells in that row of your five number summary.



6. Add error bars to look like top whiskers.

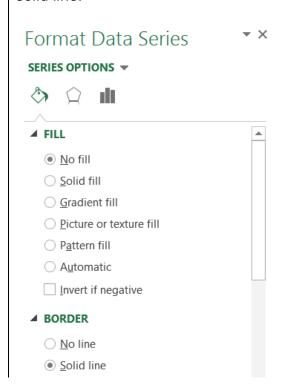
Click on the Q3 space on the chart and select the plus button. Click on add error bars. Navigate to the expansion arrow and click More Options. Make the direction plus. Make the error amount a custom, specified value. Make the positive error the values of max-Q3 by selecting all of the cells in that row of your five number summary.





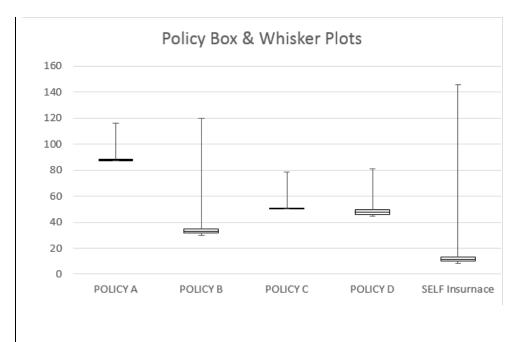
7. Format the remaining stacks into boxes.

Right click the data series and select Format Data Series. Change the fill to no fill and the border to solid line.





8. Format and label the chart.





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Data requirement: five number summary, quantitative data

Sample Data: multiple insurance policies

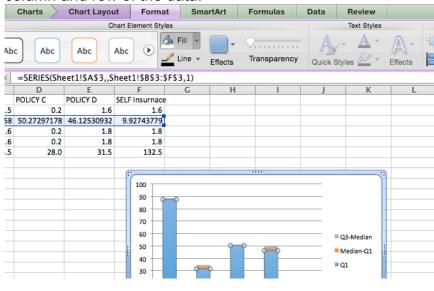
Mac Instructions + Screen Shot Step 1. Create chart base Highlight all of the data in Q1, Q1 median, and Q3 median and insert stacked column chart. for box and whisker plot. 2-D Column **P** Clustered Stacked 100% Stacked "" Column Column 3-D Column olumn Win/Loss 3-D Clustered 3-D 100% 5 Q3-Med Cylinder 6 Max-Q3 8 9 10 11 12 13 100% Stacked 3-D Cylinder Clustered Stacked Cylinder



2. Change the chart labels.

Under the Charts tab, press Select Data. Under the Horizontal Axis Label category, select edit. When prompted for a range of cells, select the cells with your category labels.

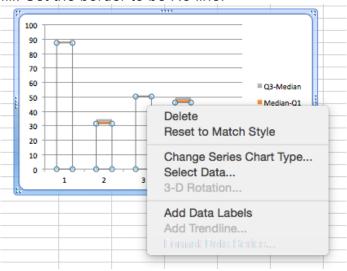
The range of cells are taken as A:B where A is the first column and row of the data and B is the last column and row of the data.





3. Format stacked columns.

Control-click on any of the Q1 boxes in the chart and select Format Data Series. Set the fill to be No fill. Set the border to be No line.



TIP: To quickly move between the stacks:

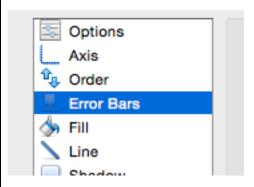


Use the up and down arrows on keyboard to navigate between the stacks of the column.



4. Add error bars to the stacked columns to look like bottom whiskers.

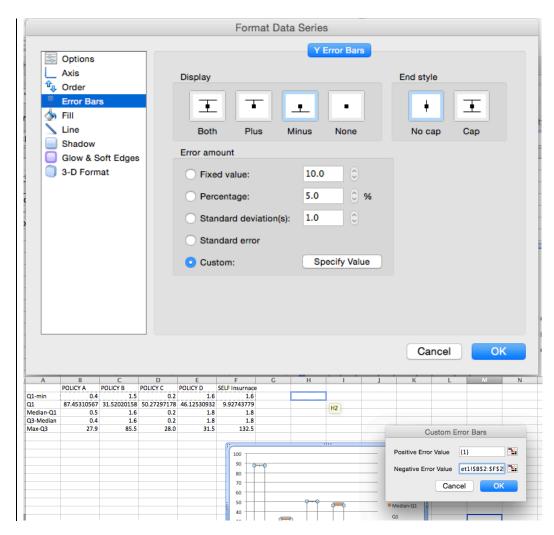
Under Format Data Series, select error bars.



.5. Customize the error bars.

Make the direction minus. Make the error amount a custom, specified value. Make the negative error the values of Q1-min by selecting all of the cells in that row of your five number summary.

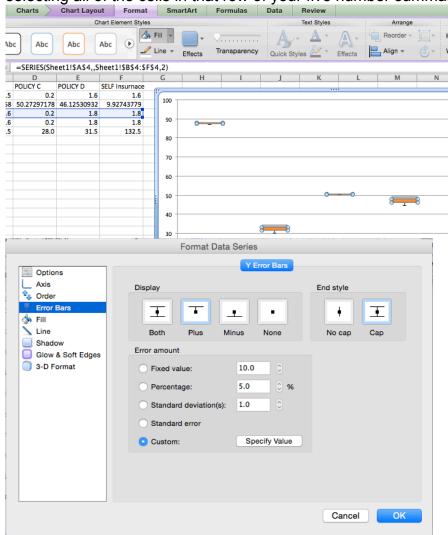






6. Add error bars to the stacked columns to look like top whiskers.

Control-click on the Q3 space on the chart and navigate to error bars. Make the direction plus. Make the error amount a custom, specified value. Make the positive error the values of max-Q3 by selecting all of the cells in that row of your five number summary.

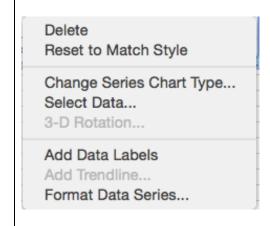






7. Format the remaining stacks into boxes.

Control-click the data series and select Format Data Series. Change the fill to no fill and the border to solid line.





8. Format and label the chart.

