

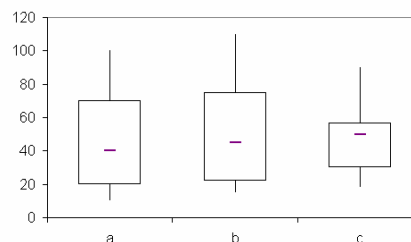
How to create a BoxPlot/Box and Whisker Chart in Excel

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SUMMARY

Microsoft Excel charts do not include a BoxPlot/Box & Whisker chart type. However, you can create a reasonable representation of this type of chart by following the steps outlined in this article.

MORE INFORMATION

To create a sample BoxPlot/Box and Whisker chart, use the appropriate method for your version of Excel.

Excel 2004, X, 2001 and 98

- In a new worksheet, type the following data:

A1: Statistic	B1: a	C1: b	D1: c	A2: median	B2: 40	C2: 45	D2: 50	A3: q1	B3: 20	C3: 22	D3: 30	A4: min	B4: 10	C4: 15	D4: 18	A5: max	B5: 100	C5: 110	D5: 90	A6: q3	B6: 70	C6: 75	D6: 57
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(See matrix below)
- Select cells A1:D6. On the **Insert** menu, click **Chart**.
- On the **Standard** types tab, click **Stock** under **Chart type**, and then click the fourth chart sub-type.

 The following explanation appears below the chart sub-type:
Volume-Open-High-Low-Close. Requires five series of values in this order.
- Click **Next**.
- On the **Data Range** tab, click **Rows** under **Series in**, and then click **Next**.
- On the **Legend** tab, click to *clear* the **Show legend** check box.
- On the **Axes** tab, click to clear the **Value (Y) Axis** check box under **Secondary axis**, and then click **Finish**.
- Click once on any one of the colored columns to select the series. Do not click one of the white columns.
- On the **Chart** menu, click **Chart Type**. Under **Chart type**, click **Line**, and then click **OK**.

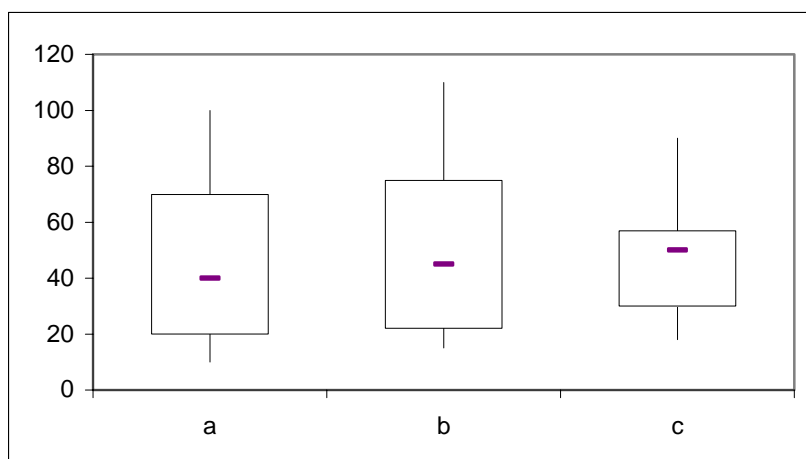
 A line that connects the three white columns appears in the chart.

10. Click once on the line, and then click **Selected Data Series** on the **Format** menu. For Line select NONE; for Marker select CUSTOM, then your preference, a horizontal line works well; default is an "x"

Step 1 Data

statistic	A	b	c
median	40	45	50
q1	20	22	30
min	10	15	18
max	100	110	90
q3	70	75	57

11. You will probably want to right click in the plot area and select Format Plot Area and select Area NONE. Also, get rid of the horizontal lines by clicking near the top and under Chart Options Gridlines, *Clear Value Y Axis Major Gridlines*. (Dr. D. Recc.)



(Acceptable, would be nice to have full line for the median)

In Excel 2004 for Mac

1. Click the **Colors and Line** tab. Under **Line for Color**, click **No Line**.
2. Under **Marker**, select the plus sign (+).
3. In the **Foreground** list, click the black color. In the **Background** list, click **No Color**. Click **OK**.

In Excel X and earlier

1. Click the **Patterns** tab. Under **Line**, click **None**.
2. Under **Marker**, click **Custom**. In the **Style** list, click the plus sign (+)
3. In the **Foreground** list, click the black color.
4. In the **Background** list, click **No Color**. Click **OK**.

Excel 5.0 and Excel 7.0

1. In a new worksheet, type the following data:

A1:	Statistic	B1:	a	C1:	b	D1:	c	A2:	median	B2:	40	C2:	45	D2:	50	A3:	q1		
B3:	20	C3:	22	D3:	30	A4:	min	B4:	10	C4:	15	D4:	18	A5:	max	B5:	100	C5:	110
D5:	90	A6:	q3	B6:	70	C6:	75	D6:	57										
2. Select cells A1:D6. On the **Insert** menu, point to **Chart**, and then click **On This Sheet**.
3. Click and drag the area for the chart. In the **Step 1 of 5** dialog box of the ChartWizard, click **Next**.
4. In the **Step 2 of 5** dialog box, click the **Combination** chart type, and then click **Next**.
5. In the **Step 3 of 5** dialog box, click the sixth chart style, and then click **Next**.

The following message appears in an Alert Box:
A volume-open-high-low-close stock chart must contain five series
6. Click **OK**.
7. In the **Step 4 of 5** dialog box, click **Rows** under **Data Series in**, and then click **Next**.
8. In the **Step 5 of 5** dialog box, click **No** under **Add a Legend?**, and then click **Finish**.
9. Double-click the chart to activate it. On the **Insert** menu, click **Axes**. Under **Secondary Axis**, click to clear the **Value (Y) Axis** check box, and then click **OK**.
10. Click once on any one of the colored columns to select the series. Do not click one of the white columns.
11. On the **Format** menu, click **Chart Type**. In the list of chart types, click **Line**, and then click **OK**.

A line that connects the three white columns appears in the chart.

12.	Click once on the line, and then click Selected Data Series on the Format menu.
13.	Click the Patterns tab. Under Line , click None .
14.	Under Marker , click Custom . In the Style list, click the plus sign (+). In the Foreground list, click the black color. In the Background list, click None . Click OK .

REFERENCES

Excel X and later versions:

For more information about creating charts, click **Excel Help** on the **Help** menu, type **about charts**, click **Search**, and then click a topic to view it.

Excel 98 and Excel 2001

For more information about creating charts, click the **Office Assistant**, type **charts**, click **Search**, and then click a topic to view it.

Note If the Assistant is hidden, click the **Office Assistant** button on the **Standard** toolbar.

Excel 7.0

For more information about creating charts, click **Answer Wizard** on the **Help** menu and type: **how do I create a chart**

Excel 5.0

For more information about creating charts, choose the **Search** button in Help and type: **charts**

APPLIES TO

- Microsoft Excel 95 Standard Edition
- Microsoft Excel 5.0a
- Microsoft Excel 95a
- Microsoft Excel 5.0 Standard Edition
- Microsoft Excel 5.0c
- Microsoft Excel 98 for Macintosh
- Microsoft Excel 5.0 for Macintosh
- Microsoft Excel 5.0a for Macintosh
- Microsoft Excel 2001 for Mac
- Microsoft Excel 2004 for Mac

Thanks to Laura Bruynell, Rice University STAT 280, 2/10/2005, for providing this reference. Source URL: <http://support.microsoft.com/default.aspx?scid=kb;en-us;155130>