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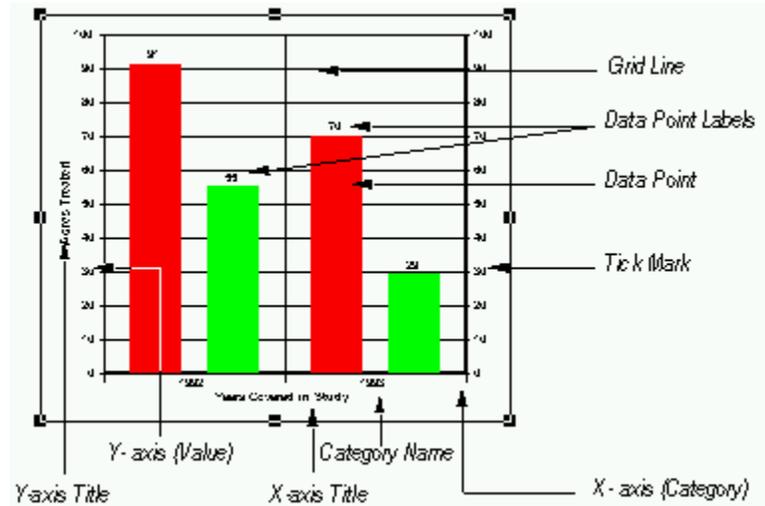
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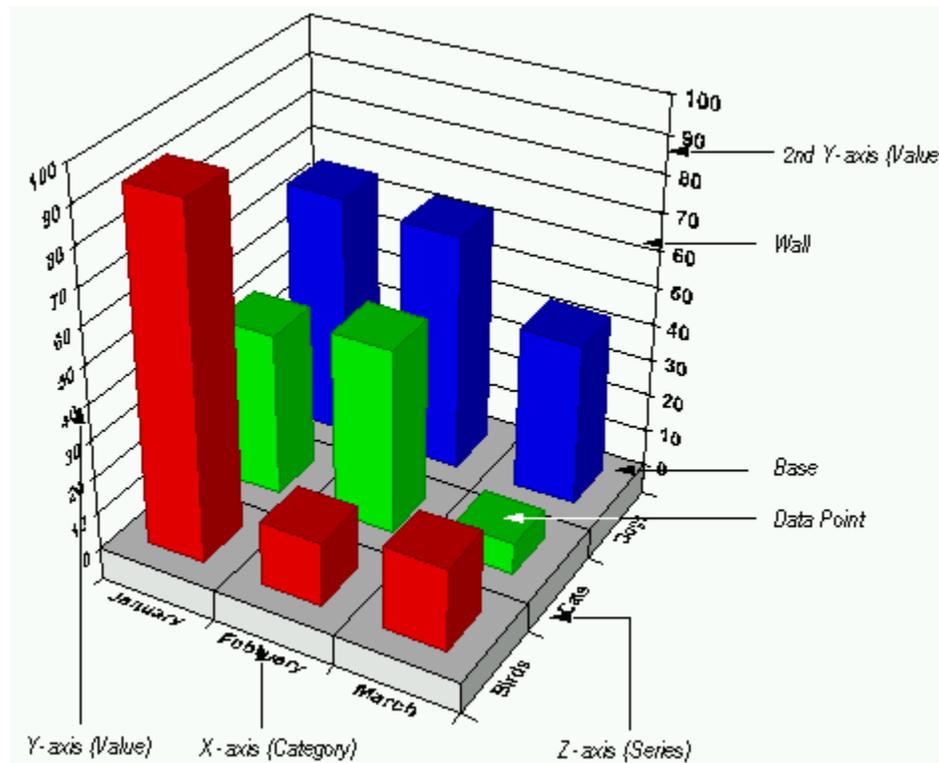
Chart Terminology

Charts provide a graphical representation of data. Values or data points are displayed in formats such as: bars, lines, markers, filled areas, bubbles, or pie slices. These data points are grouped into series that are identified with unique colors or patterns. In many chart types, one data point from each series is grouped together by category along an axis. Charts can also have titles, backdrops, legends, plots, and footnotes.

The following illustration identifies the elements in a typical 2D chart.



The following illustration identifies the elements in a typical 3D chart.



Selecting Chart Elements

You can click the left mouse button once on a chart element to select it. The following table provides information about selecting each chart element.

To select...	Click...	Effect
Chart	In the chart, but not on a specific chart element.	Selection handles appear around the chart.
Chart title	Anywhere in the title area.	Selection handles appear around the title. You can resize or reposition it.
Footnote	Anywhere in the footnote area.	Selection handles appear around the footnote. You can resize or reposition it.
Legend	In the legend, but not the legend keys.	Selection handles appear around the legend. You can resize or reposition it.
Series	On an element in an unselected series, or on the legend key identifying the series.	Selection handles appear on all elements of chart series. Handle also appears on legend key.
Series Label	Anywhere in the series label.	Selection handles appear around the label. You can reposition it.
Plot	In the plot, but not on a specific chart element.	Selection handles appear around the chart plot. You can resize or reposition it.
Axis	On the axis text, axis line, or axis ticks.	Selection handles appear on the axis. You cannot manually resize the axis.
Axis title	Anywhere in the axis title area.	Selection handles appear around the axis title.
Chart grid	On any grid line.	Selection handles appear around the grid.
2D wall and 3D wall or base	Any part of the base or wall other than a grid line.	Selection handles appear around the wall in a 2D chart, and the base and wall in a 3D chart.
Data point	Click on a data point in a selected series, or on a data point in the same series as another selected data point.	Selection handles appear on the single data point only.
Data point label	Anywhere in the data point label.	Selection handles appear around the data point label. You can reposition it.

Formatting Chart Elements

You can format any element of a First Impression chart by changing settings in a dialog box. First Impression dialog boxes can be displayed by making a selection from a menu or by double clicking the appropriate chart element.

First Impression Floating Menu

Click the right mouse button anywhere within a First Impression chart to display the floating menu. Once the menu appears, use the left mouse button to select a menu item. Clicking on menu items followed by three periods displays a submenu.

The following table describes the purpose of each item on the floating menu.

Item	Dialog Box Displayed	Purpose
General	<u>Format Chart</u>	Formats the fill, frame, and shadow displayed in the chart backdrop and provides a convenient place to toggle on and off the display of the title, the legend, the footnote or the 2nd Y axis.
Plot	<u>Format Plot</u>	Changes the chart type, stacks or unstacks chart series, turns lines and markers on or off, controls the location of the plot, formats the plot backdrop, reorders series, sets chart-type specific options, and controls 3D chart formatting and lighting.
Series/Series	<u>Format Series</u>	Controls the display of series, plots a series on a secondary axis, formats series appearance such as bar shape, line style, markers, and fill colors, sets series smoothing, and formats statistics lines and guidelines.
Series/Label	<u>Format Series Label</u>	Controls the series label location and line style, edits the label text, formats the label text and position, and formats the label backdrop.
Series/Data Point	<u>Format Data Point</u>	Formats the fill and marker for an individual data point.
Series/Data Point Label	<u>Format Data Point Label</u>	Controls the type and location of the label on an individual data point, formats the font and layout of the label text, and formats the label backdrop.
Axis/Axis	<u>Format Axis</u>	Formats the width and color of the axis, axis grid, and axis ticks, and changes axis scale.
Axis/Label	<u>Format Axis Label</u>	Formats the axis label backdrop and font, and controls the positioning and alignment of the axis labels.
Axis/Title	<u>Format Axis Title</u>	Formats the axis title backdrop and font, edits the axis title text, and controls the display of the axis title and its location.

Legend	Format Legend	Formats the legend backdrop, changes the font used to display the legend text, and controls the legend location.
Title	Format Title	Formats the title backdrop and font, edits the title text, and controls the display of the title and the its location.
Footnote	Format Footnote	Formats the footnote backdrop and font, edits the footnote text, controls the display of the footnote and the its location.
Copy	None	Places a copy of the current chart on the clipboard in Windows Metafile (.wmf) format.
Paste	None	Takes a graphic in Windows Bitmap (.bmp) or Windows Metafile (.wmf) format from the clipboard and places it in the selected elements backdrop or fill.
Print	Print	Displays the Print dialog box.
Save As	Save As	Saves the current file as a chart file (.vtc), a bitmap (.bmp), or a metafile (.wmf)
Load	Load Chart	Loads an existing chart file into the current chart control. The chart you load replaces the chart already in the control.

If you use the menu to display the Format Axis, Format Axis Title, Format Axis Label, Format Series, Format Series Label, Format Data Point, or Format Data Point Label dialog boxes, you are prompted to identify the specific axis, series, or data point you want to modify.

Double Clicking on Chart Elements

You can also display First Impression dialog boxes by double clicking chart elements. The following table lists the dialog box displayed when you double click various chart elements.

To format...	Double-click...	Dialog Box	Tab
Chart Backdrop	The chart but not on a specific chart element.	Format Chart	Backdrop
Footnote	Any part of the footnote	Format Footnote	Text
Title	Any part of the title	Format Title	Text
Legend Backdrop	Anywhere in the legend area other than the text or keys.	Format Legend	Backdrop
Legend Text	The legend text.	Format Legend	Font
Plot	Anywhere in the plot area, but not on a specific chart element.	Format Plot	Type
Axis Label	An axis label.	Format Axis Label	Font
Axis Line or Ticks	The line or ticks on an axis.	Format Axis	Scale
Axis Title	The axis title text.	Format Axis Title	Text
Grid	Any grid line.	Format Axis	Grid
3D Base or Wall	Anywhere on the base or wall other than a grid line.	Format Plot	Base & Walls
Series	A chart element in an unselected series or the legend key identifying the series.	Format Series	Line for line type series Fill for all others
Data Point	A selected data point, or a point in the same series as a selected data point.	Format Data Point	Options or Fill if series defaults have been overridden.
Series Label	The series label.	Format Series Label	Options or Text if series defaults have been overridden.
Data Point Label	The data point label.	Format Data Point Label	Options or Text if series defaults have been overridden

Using Dialog Boxes

Most First Impression dialog boxes provide sets of options grouped on separate tabs. As you click each

tab, the controls in the dialog box change to allow you to edit a different set of options. Any options that are not appropriate for the current chart type or situation are grayed.

Close

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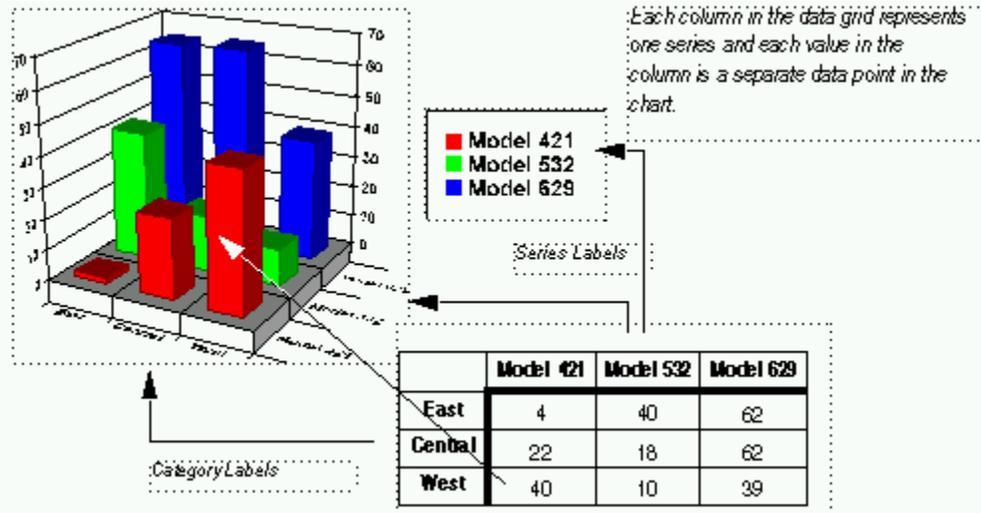
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Chart Data Grid

Each chart is associated with a data grid. This data grid is a table that holds the data being charted. The data grid can also include labels used to identify series and categories on the chart. The person who designs your chart application fills the data grid with information by inserting data, or by importing data from a spreadsheet or array.

The following illustration shows the relationship between a data grid and a chart.



In most cases, each column in the data grid translates to one series on the chart. However, First Impression supports a number of chart types that require two or more columns of data to chart a series. These chart types include XY, polar, bubble, hi-lo, and gantt charts.

Note You may be formatting a chart in an application designed for you by someone else. To use one of the chart types that requires more than one column of data for a series, you may need to have the chart designer familiarize you with the structure of the chart data.

Chart Types

Click on the chart name in the following list general usage information about each chart type.

[Area Charts](#)

[Bar Charts](#)

[Horizontal Bar Charts](#)

[Clustered Bar Charts](#)

[Line Charts](#)

[Step Charts](#)

[Combination Charts](#)

[Pie and Doughnut Charts](#)

[Radar Charts](#)

[XY Charts](#)

[Polar Charts](#)

[Bubble Charts](#)

[Hi-Lo Charts](#)

[Gantt Charts](#)

Area Charts

Use area charts to emphasize the relative importance of values over a period of time. An area chart focuses on the magnitude of change rather than the rate of change. Each filled-area on the chart represents a series and is identified by a different color or pattern. Values are plotted on the vertical (Y) axis and categories are plotted on the horizontal (X) axis. You can also chart one or more series against the secondary Y axis instead of the primary axis.

Bar Charts

Use bar charts to compare one item to another, or to compare a number of items over a period of time. These charts are particularly effective at showing large changes from one category to another. Each 2D or 3D bar represents a value in the data grid. Bars representing a series are located at the same position in each category and have the same color and pattern.

In 2D charts, values are grouped on the vertical (Y) axis, and bars are grouped by category along the horizontal (X) axis. On 3D charts, values are plotted on the vertical (Y) axis, categories are grouped along the horizontal (X) axis, and the depth (Z) axis shows series.

Horizontal Bar Charts

Horizontal bars are similar to standard bar charts except that the categories are organized on a vertical (Y) axis and the values are plotted on a horizontal (X) axis.

Clustered Bar Charts

Series and data points in a clustered bar chart are displayed as they are in a 2D bar chart, however the chart and all the chart elements are displayed in 3D.

Line Charts

Use line charts to show trends or changes in data over a period of time. These charts emphasize time flow and rate of change rather than amount of change.

In 2D line charts, values are plotted along the vertical (Y) axis and categories are displayed on the horizontal (X) axis. In 3D charts, values are plotted on the vertical (Y) axis, categories are grouped along the horizontal (X) axis, and the depth (Z) axis shows series.

Step Charts

Use step charts to compare items that do not show trends. Step charts display distinct points along the value (Y) axis, with vertical lines showing the difference between each point. The horizontal (X) axis shows categories.

Combination Charts

Use combination charts to visually highlight the differences between multiple series of data. A different method can be used to draw each data series.

Pie and Doughnut Charts

Use pie or doughnut charts to show the relationship of parts to the whole. Each pie or doughnut represents a category. Each slice of the pie or doughnut represents a value in that category. You can separate or explode slices in a chart by clicking a slice and dragging it away from the rest of the pie or doughnut.

Radar Charts

Use radar charts to show changes or frequencies of each series relative to a center point and to one another. Lines connect all the data markers in the same series. You can choose to fill the lines, thereby creating a radar area chart.

XY Charts

Use XY charts to plot two groups of numbers as one series of XY coordinates. Each series on the chart requires two columns of data in the data grid. The first column holds the X coordinate and the second column the Y coordinate. The column label on the first column in each series is used to identify the series in the legend. Additionally, any formatting applied to the first column is used to display the series on the chart. Any formatting applied to the second column is ignored. You can use markers or lines or both to draw the XY points.

Polar Charts

Use polar charts to show cyclical trends. The polar chart requires two columns in the data grid for each chart series: the first column holds the distance from the center of the chart (the radius), and the second column contains the angle on the perimeter of the chart. The column label on the first column in each series identifies the series in the legend. Additionally, any formatting applied to the first column is used to display the series on the chart. Any formatting applied to the second column is ignored.

Bubble Charts

Use bubble charts to show a visual comparison using three coordinates. Each bubble requires three columns of data in the data grid. The first column holds the X coordinate, the second the Y coordinate, and the third the bubble size. All the coordinates in a bubble chart measure values; therefore, the vertical (Y) axis and the horizontal (X) axis both show values. The column label on the first column in each series identifies the series in the legend. Additionally, any formatting applied to the first column is used to display the series on the chart. Any formatting applied to the second and third columns is ignored.

Hi-Lo Charts

Hi-lo charts are most commonly used to show stock market information. However, these chart types can also be used for scientific data such as indicating changes in readings over a period of time. The vertical (Y) axis shows values and the horizontal (X) axis shows categories or dates.

First Impression supports a number of variations to the hi-lo charts. These include: hi-lo-close with the close marker crossing the data point or extending to the right of the data point, open-hi-lo-close, and open-hi-lo-close bar.

The data in the data grid must be organized appropriately for each variation of the hi-lo chart.

- A hi-lo chart requires two columns for each data series: the first column is used for the high point and the second is used for the low point.
- A hi-lo-close chart requires three columns for each data series: the first column is used for the high point, the second for the low point, and the third for the closing point.
- An open-hi-lo-close or a open-hi-lo-close bar chart (sometimes called candle stick charts) requires four columns of data for each data series: the first column is used for the open point, the second for the high point, the third for the low point, and the fourth for the closing point.

The column label on the first column in each series identifies the series in the legend. Additionally, any formatting applied to the first column is used to display the series on the chart. Any formatting applied to the remaining columns that make up the series are ignored.

Gantt Charts

Use gantt charts to display a range of bars that indicate the relative time required for various activities within a project. The horizontal axis (Y) shows dates and the vertical axis (x) shows categories. This chart type requires two columns of data for each series. The first column holds the start date, and the second column holds the duration.

Close

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Changing the Chart Type

Format Plot Dialog Box

To change the chart type:

1. Double click the chart plot; or, use the right mouse button to display the floating menu and select Plot.

The Format Plot dialog box is displayed.

2. If necessary, click the Type tab.
3. Click the 2D or 3D button to display a list of 2D or 3D chart types in the Chart Type list box.
4. Select a chart type in the Chart Type list box.
3. When you have made all necessary changes, click OK or Apply to redraw the chart to reflect the new settings.

Creating Combination Charts

[Changing the Chart Type](#)

[Format Plot Dialog Box](#)

If you select Combination as the chart type, you must also specify the type used to display each series in the chart.

To change a series type:

1. Double click the chart plot; or, use the right mouse button to display the floating menu and select Plot.

The Format Plot dialog box is displayed.

2. If necessary, click the Type tab.
3. Click the 2D or 3D button to display a list of 2D or 3D chart types in the Chart Type list box.
4. Select Combination in the Chart Type list box.
5. Select a series in the Series Names list box.

The Series Types list now shows the valid types for the selected series.

6. Select the type you want to use for the selected series.

You can also select All Series to set the same type for all series in the chart.

Continue specifying types for each series as necessary.

Radar Charts

[Format Plot Dialog Box](#)

If you select Radar as the chart type, you can specify whether each series is displayed as a line or filled area.

To change the variation of a radar chart:

1. Double click the chart plot; or, use the right mouse button to display the floating menu and select Plot.

The Format Plot dialog box is displayed.

2. If necessary, click the Type tab.
3. Select the 2D radio button to display a list of 2D chart types.
4. Select Radar in the Chart Type list box.
5. Select a series in the Series Name list.
6. Select a type for the series in the Series Type list.

Continue selecting types for additional series as necessary.

Hi-Lo Charts

[See Also](#)

[Format Plot Dialog Box](#)

When you select Hi-Lo as the chart type, you can specify the variation of hi-lo chart you want to display as well as assign different types to other series.

To specify a Hi-Lo-Close chart with Volume information:

1. Double click the chart plot; or, use the right mouse button to display the floating menu and select Plot.

The Format Plot dialog box is displayed.

2. If necessary, click the Type tab.
3. Select the 2D radio button to display a list of 2D chart types.
4. Select Hi-Lo in the Chart Type list.
5. If a column in the data grid holds dates, select that series name and then select the Dates series type.

This instructs First Impression to use the values in this column to create a date axis for this chart. The series is automatically excluded so that it is not actually charted.

6. Select the first series that holds stock information in Series Names list.
7. Select one of the Hi-Lo-Close variations in the Series Type list box.

The second and third column in every series are indented to show that the series requires three columns of data to chart a Hi-Lo-Close chart.

8. Select the series that contains volume information in the Series Name list box.
9. Select the series type you want to use to display volume data.

Bar, Line, or Area would be typical choices for displaying volume data.

10. Click OK or Apply to redraw the chart.

Since volume information is usually very different from the high, low, and close price of stock you may need to take the following steps to finish the chart.

11. Double-click the Volume series in the chart; or, use the right mouse button to display the floating menu and select Series/Series to display the Format Series dialog box.

If you use the menu, you must specify which series you want to format.

12. If necessary, click the Options tab.
13. Check the Plot on 2nd Y Axis check box.
14. Click OK.

See Also

[Date Axis Scaling](#)

[Format Series Dialog Box](#)

Reordering Series

[Format Plot Dialog Box](#)

You can change the order in which the series in a chart are displayed. This can be particularly useful if one series obscures the view of the data in another series. By rearranging the series, you can find the most aesthetically pleasing way to present your data.

To reorder the series in a chart:

1. Double-click the chart plot; or, use the right mouse button to display the floating menu and select Plot.
2. Click the Order tab.
3. Select a series in the Series Order list box.
4. Click Up to move the series up in the drawing order. Click Down to move the series down in the drawing order.
5. Click OK or Apply to redraw the chart.

You can also use buttons on the Order tab to stack and unstack series and to change the order of stacked series.

To stack series in the Order tab:

1. Select the last series in the Series Order list box.
2. Click Stack.

The series you highlighted is shown as stacked with the preceding series.

3. Click Stack again.

The two stacked columns are now stacked with the preceding series. The order in which they appear in the stacked list is the order in which they are drawn, first series on the bottom of the stack.

4. Click Apply to redraw the chart.
5. To unstack the series, select the Stack associated with the series in the Series Order list and click Unstack.

Adding Chart Elements

In addition to the plot, the major chart elements are titles, legends, and footnotes. The following information explains how to add these elements to a chart.

To add a title to a chart:

1. Use the right mouse button to display the floating menu.
2. Select Title to display the Format Title dialog box.
3. Check the Visible check box to display the title.
4. Select the Text tab.
5. Type the title text in the Text field.
6. Click OK or Apply to redraw the chart to include the new title.

To add a legend to a chart:

1. Use the right mouse button to display the floating menu.
2. Select Legend to display the Format Legend dialog box.
3. Check the Visible check box to display the legend.

By default, series labels are used to identify each series in the legend.

4. Click OK or Apply to redraw the chart to include the legend.

To add a footnote to a chart:

1. Use the right mouse button to display the floating menu.
2. Select Footnote to display the Format Footnote dialog box.
3. Check the Visible check box to display the footnote.
4. Select the Text tab.
5. Type the footnote text in the Text field.
6. Click OK or Apply to redraw the chart to include the new footnote.

Optimizing Text Display

You can optimize the display of text on a chart. First Impression offers two modes for displaying text. One mode optimizes the appearance of text on the screen, and the other mode optimizes text for printed output.

To optimize text:

1. Use the right mouse button to display the floating menu.
2. Select General from the floating menu.
3. Select the Options Tab.
4. In the Text Metrics section of the dialog box, select one of the following radio buttons.

Printing. Choose this radio button to use TrueType virtual font metrics to layout text so that text is laid out exactly where it is printed. TrueType virtual font metrics are not very accurate for text displayed on the screen. Text display on the screen may be a larger or smaller than the virtual metrics predicted. Larger text may not fit where it is suppose to and part of a character, a whole character, or even in some cases words may be clipped.

Screen Display. Choose this radio button to layout the text for the screen instead of using the virtual font metrics. Charts layouted out this way do not print exactly as they appear on the screen but the text is not clipped on the screen. The printed text is generally a bit smaller and so the text may appear in slightly different places.

5. Click Ok to redraw the chart.

Controlling the Display of Chart Elements

[Format Chart Dialog Box](#)

First Impression provides a quick and easy way to turn off or on the display of existing chart elements such as the title, the legend, the footnote, and the second Y axis.

To hide or show a title, footnote, legend, or second Y axis:

1. Click the right mouse button to display the floating menu.
2. Select General to display the Format Chart dialog box with the Options tab selected.
3. Check the Show Title, Show Footnote, Show Legend, or Show 2nd Y Axis check box to display any of those elements. Uncheck those items to hide any of those elements.

Note If you have not created a title or footnote, checking the Show Title or Show Footnote check box displays default text.

4. Click OK or Apply to redraw the chart.

Automatic Chart Layout

[Location Tab](#)

[Positioning Chart Elements](#)

By default, First Impression operates in automatic layout mode. As you add elements such as a title or legend to a chart, the existing chart elements are resized and repositioned to make room for the new elements.

In automatic layout, the chart plot, title, legend, and footnote are all drawn within their individual areas of the chart. The size of text used for the title, legend, footnote, and the axis labels and titles determines the size of each area. If you use very large fonts or long text, elements may be cropped and the axis labels and titles may be dropped from the plot.

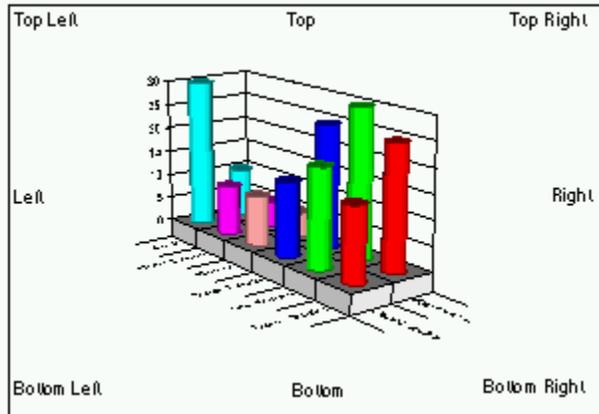
Positioning Chart Elements

[Custom Chart Element Positions](#)

[Automatic Chart Layout](#)

By default, when you add a title, legend, or footnote, First Impression puts the object in a specific location.

First Impression has nine preset locations for placing these objects. These positions are identified in the following illustration.



To move a chart element to a new predefined position:

1. Double click an element to display the appropriate dialog box.
2. Select the Location tab.
3. Select one of the position radio buttons and click OK or Apply.

Custom Chart Element Positions

[Positioning Chart Elements](#)

[Location Tab](#)

You can override the size and layout of chart elements by selecting and dragging elements on the screen or by making settings in a dialog box. When you manually reposition an element, it is no longer in automatic layout mode. First Impression no longer considers the element when allocating space for the remaining chart elements that use automatic layout.

To resize or reposition objects manually:

1. Select the title, footnote, plot, or legend.
2. Once the object is surrounded by selection handles you can drag it to a new location or resize it as desired.

Bear in mind that what you are actually resizing is not the text or plot itself, but the bounding rectangle around the object. Based on the size you make the object, First Impression may have to resize or clip objects to fit the space.

To resize or reposition objects using dialog box settings:

1. Double click the title, footnote, plot, or legend.

The appropriate dialog box is displayed.

2. Select the Location tab.
3. Select the Custom radio button.
4. Enter values in the Top, Left, Height, and Width fields to describe the coordinates of the upper left corner of the object and its height and width.

First Impression uses the measurement unit specified in your Windows default settings.

Formatting Text

[Text Tab](#)

Similar methods are used to format most of the text on a chart. This section discusses the formatting of fonts used to display all chart text as well as the orientation and alignment of chart titles, footnotes, legend text, and axis titles.

Formatting Fonts

[Font Tab](#)

[Formatting Text](#)

You can specify the font, font style, font size, font color, and special effects used to display a text element on a chart.

To format text:

1. Double-click the left mouse button on the text you want to format.

You can also use the right mouse button to display the floating menu and select the appropriate item for the chart element you are formatting.

The appropriate dialog box is displayed with the Font or Backdrop tab selected.

2. Select the Font tab.

The dialog box tabs used to format fonts for the chart titles, legends, footnotes, and axis titles are all the same.

Aligning and Orienting Text

[Text Tab](#)

You can also control the justification, orientation, and alignment of chart text. The horizontal and vertical alignment of text is only observed if you enlarge the rectangle holding the text.

Editing Backdrops

[Backdrop Tab](#)

You can enhance a chart's appearance by placing a backdrop on the chart itself, and on individual chart elements. A backdrop can include a frame or box around the chart or chart element, a shadow behind the element, and a pattern, gradient, or graphic picture behind the element.

The following illustration shows the various chart elements that can be assigned a backdrop.

To edit a backdrop:

1. Double click the left mouse button on the chart element whose backdrop you want to edit.

You can also use the right mouse button to display the floating menu and select the appropriate command for the chart element you are formatting.

2. Once the appropriate dialog box is displayed, select the Backdrop tab if necessary.

The dialog box tabs used to format the backdrops for the chart control, chart plot, title, legend, labels, series labels, data point labels, and footnotes are all the same.

3. When you have finished making any necessary changes to the backdrop, click OK or Apply to redraw the chart to reflect the changes.

Resetting To Default Formats

[Format Chart Options Tab](#)

You can reset a chart to the First Impression default formats. All chart options, except the chart type are returned to their default values.

To reset the chart:

1. Click the right mouse button to display the floating menu.
2. Select General to display the Format Chart dialog box with the Options tab selected.
3. Click the Reset button.
4. Click OK or Apply to redraw the chart.

Close

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Format Chart Dialog Box

This dialog allows you to turn on or off the display of some common chart elements, reset any chart formatting to its default values, and specify a backdrop for the entire chart.

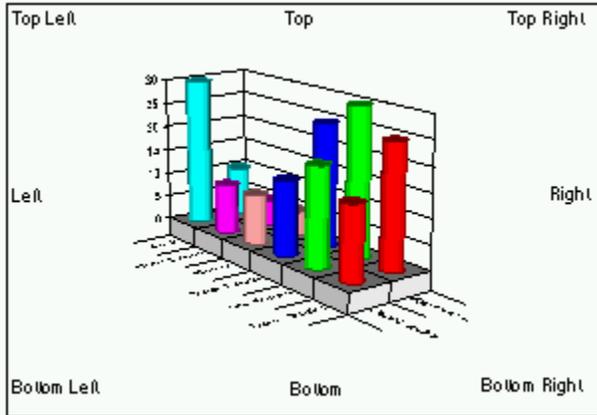
For information about the options on a specific tab of the Format Chart dialog box, select the tab name from the following list.

[Options](#)

[Backdrop](#)

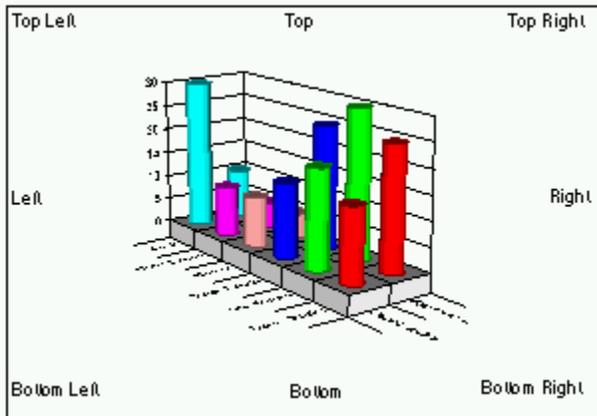
Format Chart Options Tab

Options on this tab control the display of the title, footnote, legend and second Y axis on the current chart. This tab also gives you a means to reset the chart to its default display settings.



Show Title. Check this box to display a title on

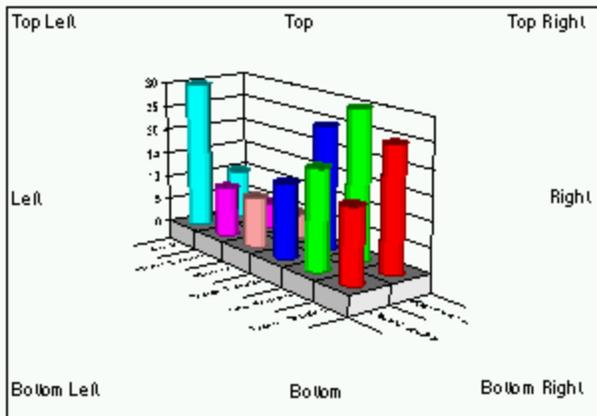
the chart. Uncheck this box to hide the title



Show Footnote. Check this box to display a

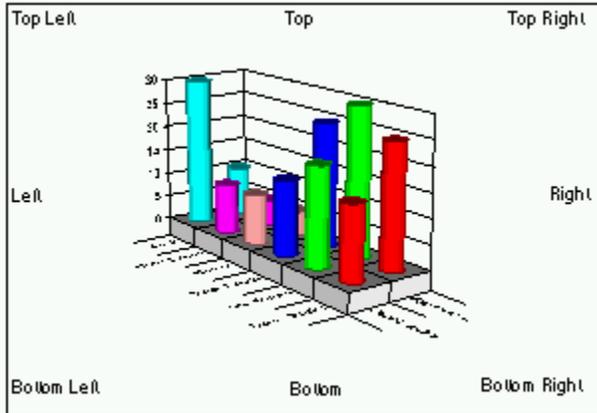
footnote on the chart. Uncheck this box to hide the footnote.

Note If you have not defined a title or footnote for a chart default text is displayed when you check these boxes.

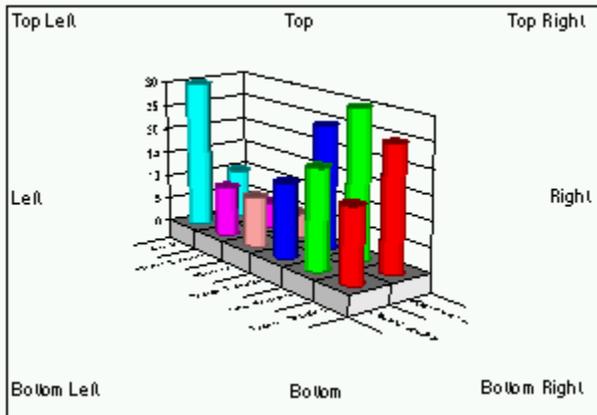


Show Legend. Check this box to display a

legend on the chart. Uncheck this box to hide the footnote.



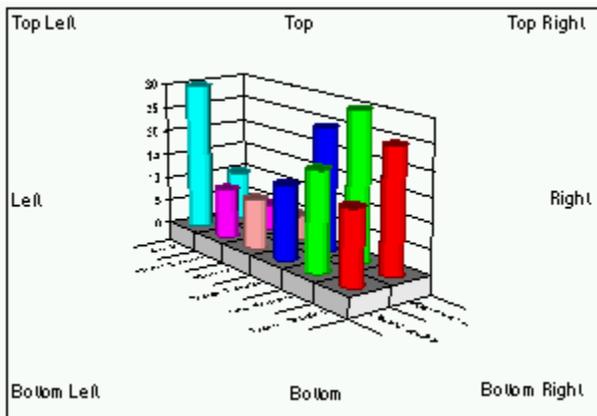
Show 2nd Y Axis. Check this box to display a second Y axis on the chart. Uncheck this box to hide the second axis.



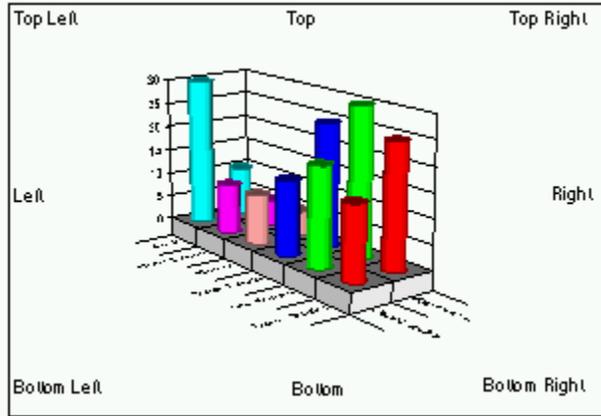
Reset. Click this button to discard any formatting you have applied to the chart except for a change in chart type. All other formats are reset to their default values.

You can optimize the display of text on a chart. First Impression offers two modes for displaying text. One mode optimizes the appearance of text on the screen, and the other mode optimizes text for printed output.

Text Metrics. Select one of the following radio buttons to determine how text on a chart is optimized.



Printing. Choose this radio button to use TrueType virtual font metrics to layout text so that text is laid out exactly where it is printed. TrueType virtual font metrics are not very accurate for text displayed on the screen. Text display on the screen may be a larger or smaller than the virtual metrics predicted. Larger text may not fit where it is suppose to and part of a character, a whole character, or even in some cases words may be clipped.



Screen Display. Choose this radio button to layout the text for the screen instead of using the virtual font metrics. Charts layouted out this way do not print exactly as they appear on the screen but the text is not clipped on the screen. The printed text is generally a bit smaller and so the text may appear in slightly different places.

Format Plot Dialog Box

The options in this dialog box control the location and appearance of the chart plot, formatting of 3D charts and formatting and ordering that affects all series or data points in the chart.

For information about the options on a specific tab of the Format Plot dialog box, select the tab name from the following list.

[Type](#)

[Location](#)

[Backdrop](#)

[Order](#)

[Options](#)

[3D View](#)

[3D Lighting](#)

[Base and Walls](#)

Format Plot Type Tab

The options grouped in the Chart section of this tab control the chart type and whether the chart is stacked.

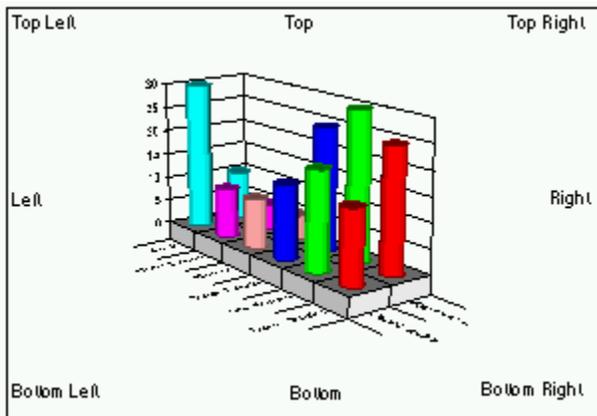


Chart Radio Buttons. Select the 2D radio button to display a list of the 2D chart types in the Chart Type list box. Select the 3D radio button to display the 3D chart types.

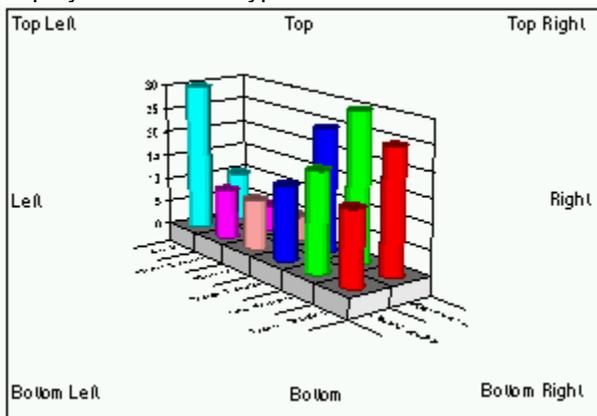
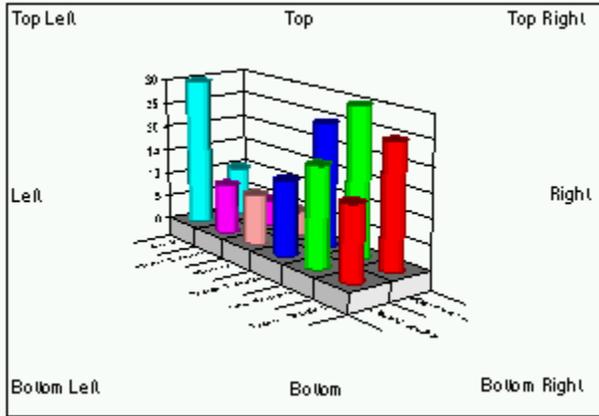


Chart Type List Box. Select a type from the list.

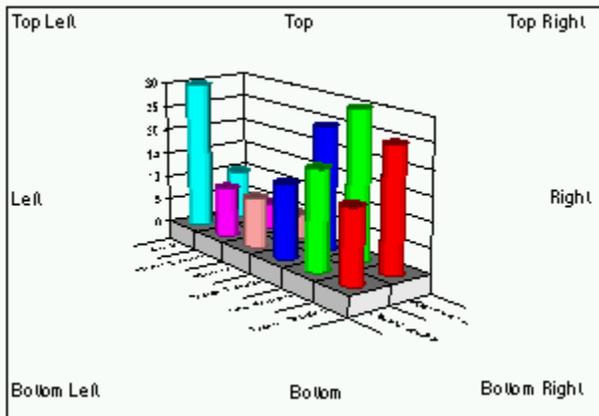


Stacked Check Box. Click this box to stack all

the series of the current chart.

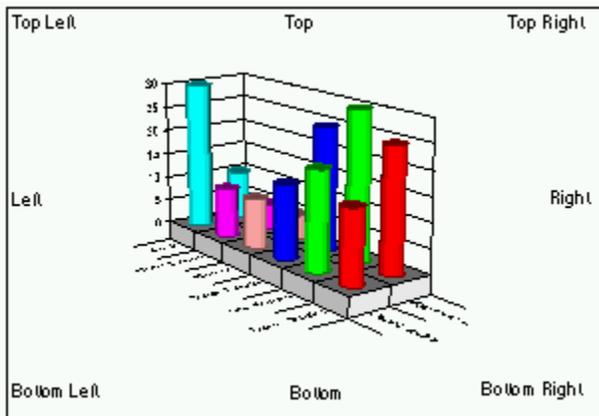
You can stack series in a bar, line, area, step, combination, clustered bar, horizontal bar, and gantt chart. Stacking places the data points from the same category on top of each other. Each bar still represents the same value.

Stacking data shows how all categories in a series compare over time, or compares each part to the total.



% Axis Check Box. Check this check box to add together all the values in each category. That value is considered 100 percent. Then each data point in the category is drawn as a percentage of that sum.

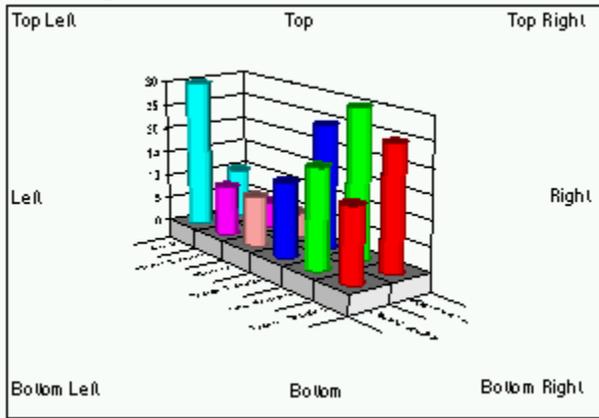
Options in the Series section of this tab control the type used to display each series and whether lines or markers are displayed on the series.



Series Name List Box. All series in the current

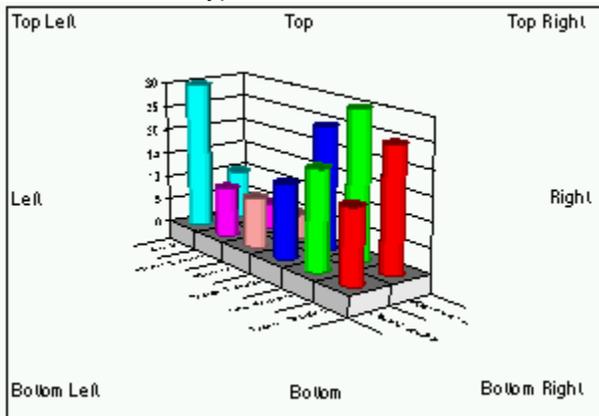
chart are listed in this list box. If the current chart is a type that requires more than one column of data in

the data grid to chart a series, one or more series may be indented in the dialog box.



Series Type List Box. The valid series types for

the current chart type are listed here.



Lines or Markers Check Boxes. These check boxes are enabled if the current chart type is a 3D chart or a 2D chart type other than pie or bubble. Markers can represent the data points on the chart for all 2D types other than bubble and pie charts. Markers and lines can both represent all data points on 2D line, XY, Radar, and Polar charts.

To display lines, select the Lines check box.

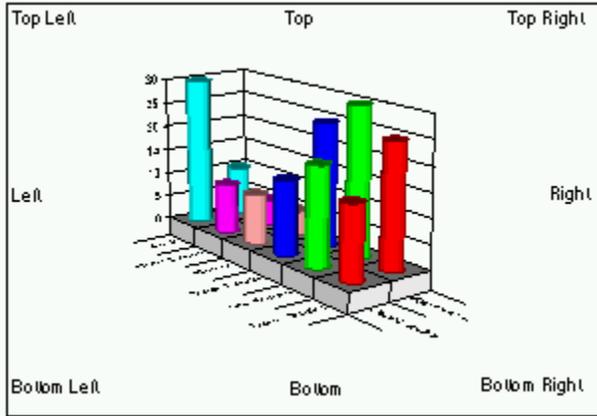
To display markers, select the Markers check box.

To display both markers and lines, select both check boxes.

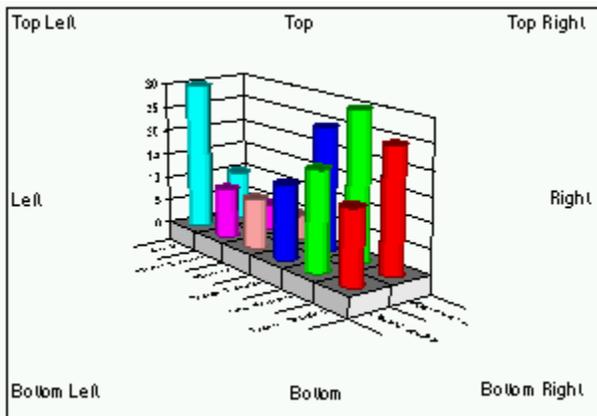
Location Tab

[See Also](#)

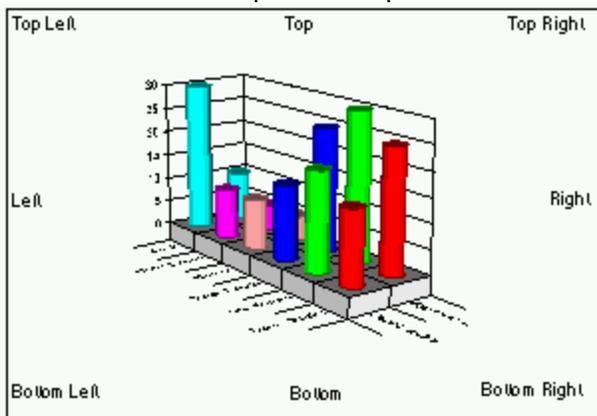
A number of dialog boxes contain the Location Tab. Options on this tab control the display and position of the footnote, legend, plot or title of the chart.



Visible check box. Check this box to display the chart element. Uncheck this box to hide the chart element.



Top Left, Top, Top Right, Right, Bottom Right, Bottom, Bottom Left, and Left radio buttons. Select one of these buttons to place the chart element in one of the predefined positions



Custom radio button. Select this radio button to enable the four positioning fields below the custom radio button. Enter values in points in the Top, Left, Height, and Width fields to describe the coordinates of the upper left corner of the object and its height and width.

See Also

[Format Footnote Dialog Box](#)

[Format Legend Dialog Box](#)

[Format Plot Dialog Box](#)

[Format Title Dialog Box](#)

[Positioning Chart Elements](#)

[Custom Chart Element Positions](#)

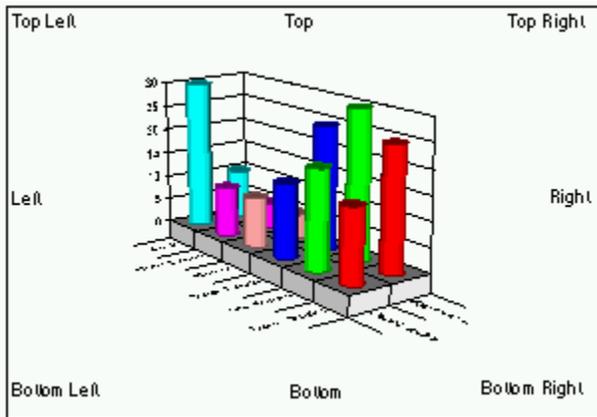
Backdrop Tab

[See Also](#)

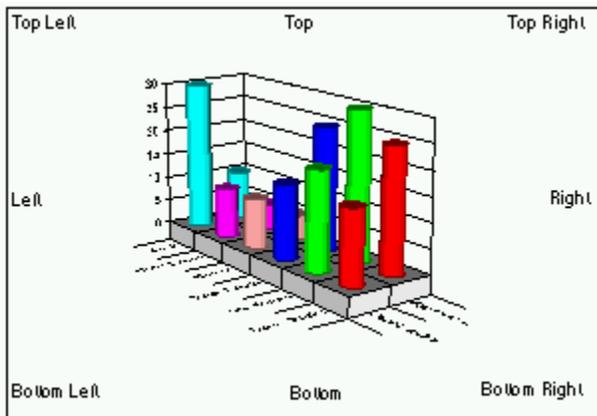
A number of dialog boxes contain a Backdrop Tab. The options on this tab control the appearance of the fill, frame and shadow around elements such as the chart itself, the chart plot, title, footnote, legend, series label, data point label, and axis labels.

Backdrop Fills

The controls in the Fill section of the dialog box allow you to set the fill type, color, and pattern.

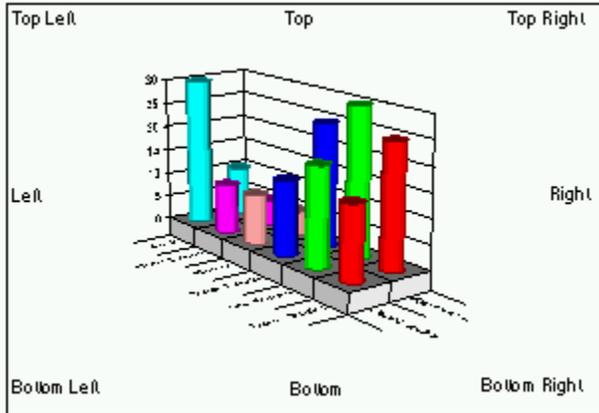


No Fill. The chart control or chart elements have no fill, so any formatting applied to the surface behind them shows through. A picture can still be applied to a element with no fill.



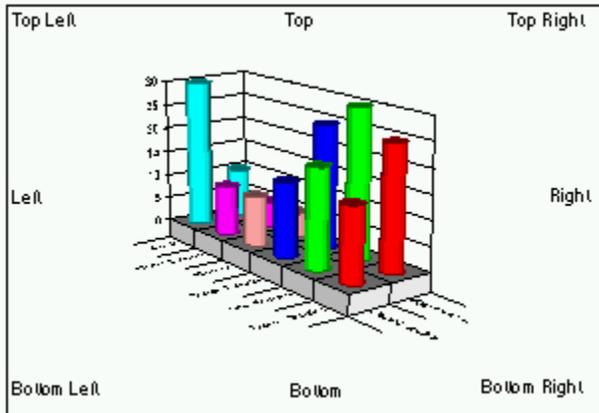
pattern in the chart control or chart element.

Pattern. One or two colors are used to display a

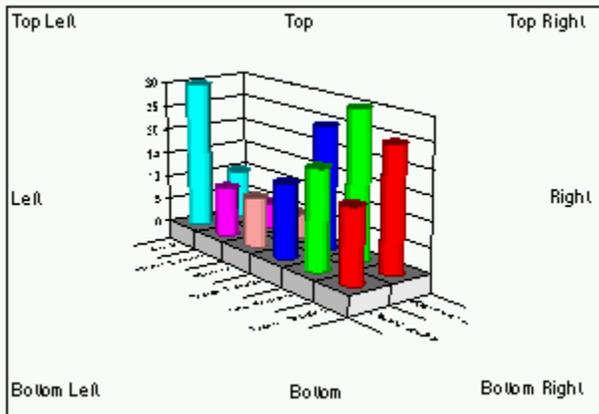


Pattern Picker. Click the control to display the pattern picker. Click one of the patterns, click None to have no fill on the object, or Solid to use only the fill color to fill the object.

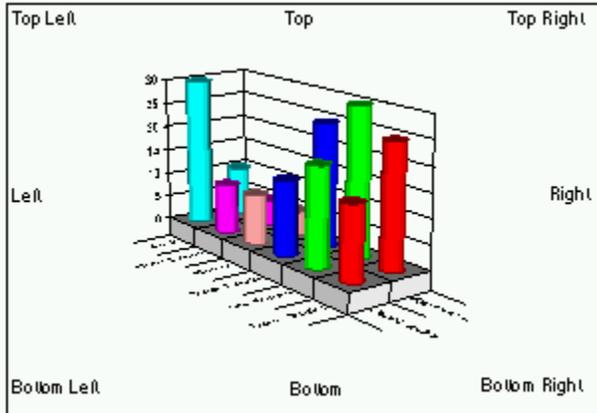
Patterns are bitmaps. A low resolution version of each bitmap displays the pattern on the screen. When you print a chart, a high resolution version of the bitmap is used if the output device prints at more than 144 dpi. The higher the resolution of the output device, the smaller the copies of the bitmaps that make up the patterns are reproduced. At high resolutions, First Impression adjusts the patterns to prevent the lines from getting too close together. Hatches are not bitmaps, but actual lines drawn to fill the object. They always appear the same regardless of the output resolution. Hatches can be used to output First Impression charts on a plotter. The last row of patterns in the pattern picker are hatch patterns.



Gradient. A gradient blends two colors to create the fill. The colors can be blended from top to bottom, left to right, in concentric rectangles, or concentric ovals.



Gradient Picker. Select a gradient type from the popup menu.



Fill/From Color and Pattern/To Color. Click the

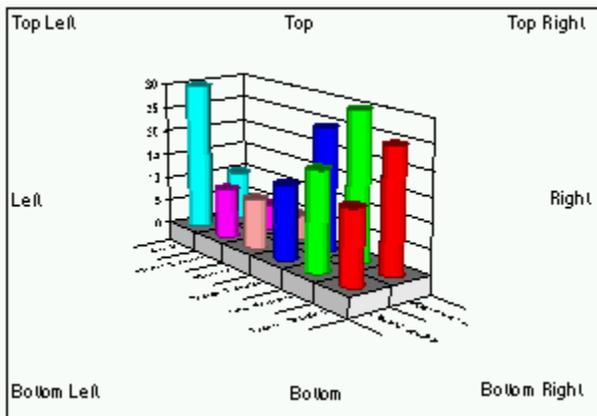
control to display the color picker. Choose a predefined color or click Custom to create your own color.

The fill color is used to create a solid pattern. For a pattern fill, the pattern color is drawn on top of the fill color.

For a gradient fill, use the Fill/From Color popup to specify the color used as the top color in a horizontal gradient, the left color in a vertical gradient, and the center color in a rectangle or oval gradient. Use the Pattern/To Color popup to specify the color used as the bottom color in a horizontal gradient, the right color in a vertical gradient, and the outer color in a rectangle or oval gradient.

Picture Fills

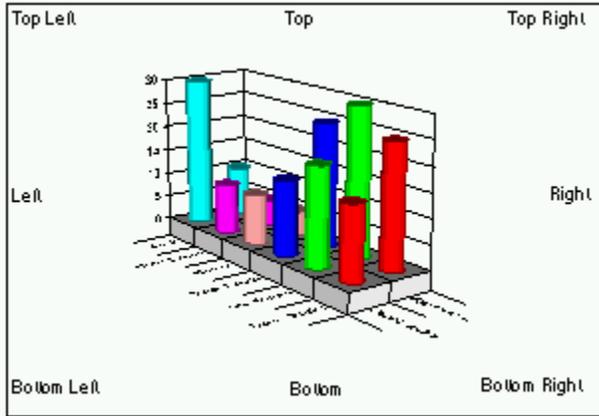
The controls in the Picture section of the dialog box allow you to specify a graphic image to use as the picture fill, preview the picture, select a method for fitting the picture into the background, and specify whether the graphic is saved with the chart. You can use a picture fill on an element regardless of its pattern or gradient setting. If the graphic does not cover the entire backdrop area, any specified pattern or gradient covers the remaining area.



Picture. This control displays a preview of the

graphic. When you enter a valid path and file name into the File text box, or paste a graphic from the clipboard, the picture is previewed in the Picture control. Only the Windows Bitmap (.bmp) and Windows Metafiles (.wmf) graphic formats are supported.

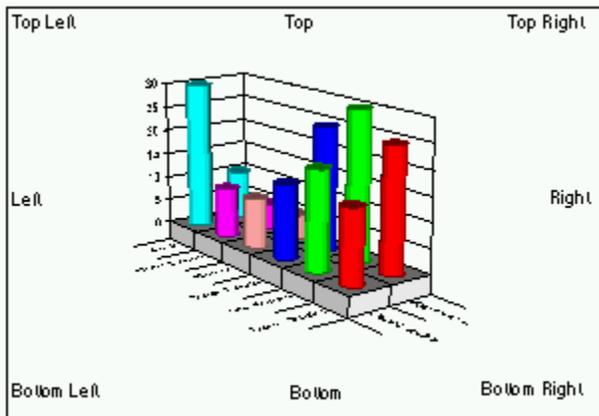
Note If you use a Windows metafile for the graphic, it does not show up if you use the copy command to copy the chart to the clipboard. Windows limits you from having a metafile that contains a metafile. If you plan to copy the chart to the clipboard, use a bitmap for the graphic instead of a metafile.



Fit Method. You can also choose how to fit the

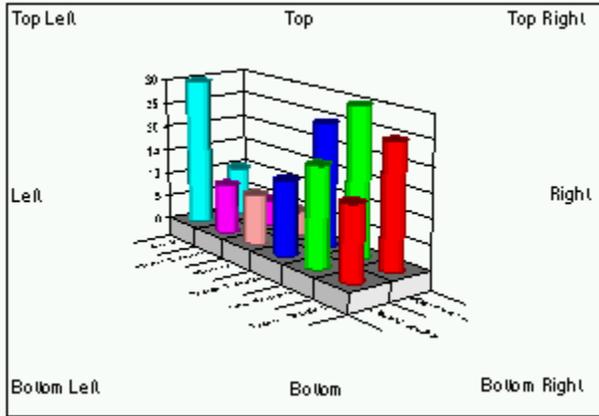
graphic into the backdrop space. The following table lists the options for fitting graphics.

Constant	Description
Actual Size	Displays the graphic at the original size it was created. If the original size of the graphic is too large to display in the backdrop, the graphic is cropped. If the original size of the graphic is too small to fill the backdrop, it is centered in the backdrop.
Best Fit	Scales the graphic proportionally to fit entirely within the backdrop.
Stretch to Fit	Scales the graphic to fit backdrop regardless of its original proportions.
Tiled	Duplicates the graphic repeatedly to fill the backdrop.
Crop Fitted	Centers the graphic and scales it proportionally to fill the backdrop. Any part of the image that falls outside the backdrop is cropped.

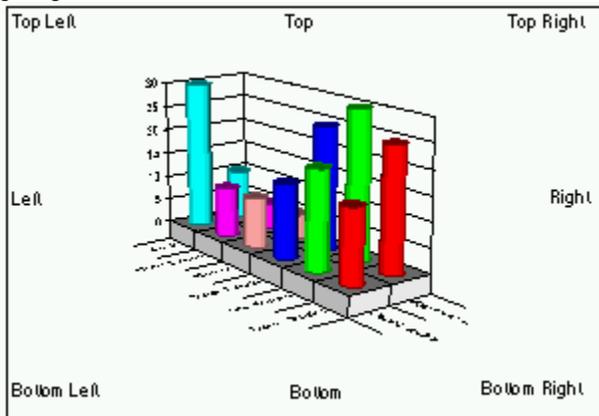


File. To add a picture to the backdrop, type the

full path to the graphic file in the File field or press the Browse button to display an Open dialog box. When you specify a valid path, a preview of the graphic appears in the dialog box.



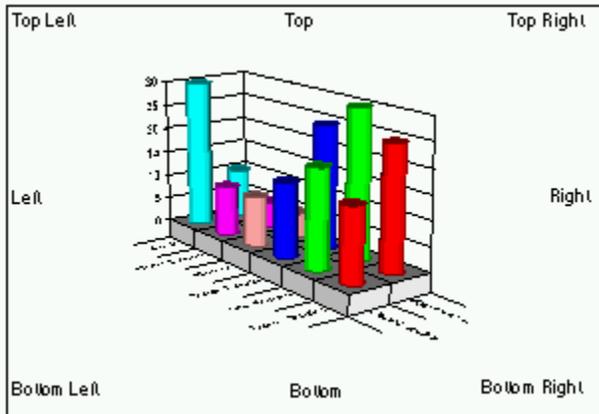
Embed. To save the picture file with the chart, select the Embed check box. In order to save space, it is better not to embed charts unless they are not going to be available later.



picture from the backdrop.

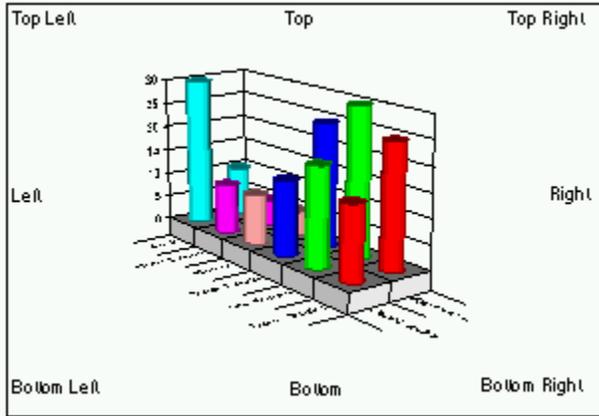
Clear. Click this button to clear an existing

Note Some graphics files can be very large. In order to minimize performance problems on some systems, it is recommended that you always clear one picture from the backdrop before specifying a new one. This prevents the system from having to deal with two large graphics files simultaneously.



file from the clipboard into the current backdrop.

Paste. Click this button to paste a .wmf or .bmp

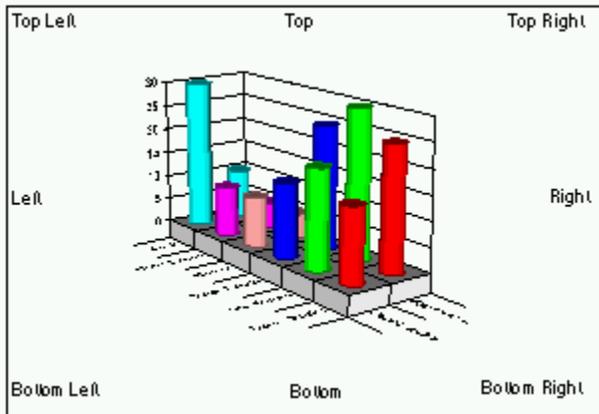


Browse. As an alternative to typing the path and filename for the graphic file, you can click Browse to display a standard Open dialog box. Select the file to display and click OK. The pathname and file then appear in the File field and a preview of the graphic appears in the Picture control.

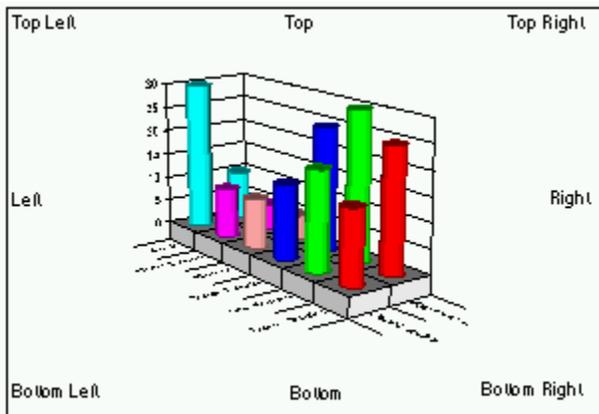
Note You can also paste a graphic into an existing backdrop by selecting the backdrop on the screen and selecting the Paste command from the floating menu. Select the graphic file you want to paste into the backdrop and Click OK.

Backdrop Frames

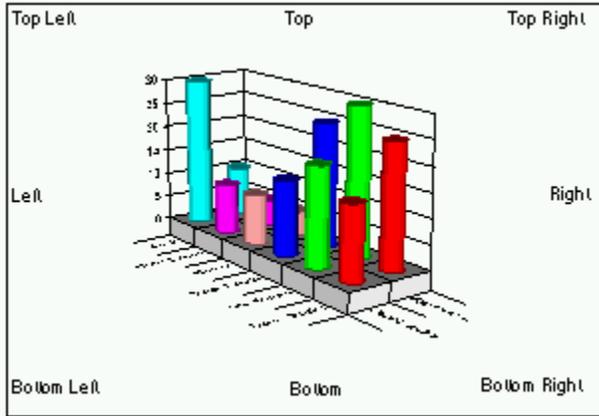
The controls in the Frame section of the dialog box allow you to create a frame and shadow for the current backdrop.



Style. Select a frame style from the popup.

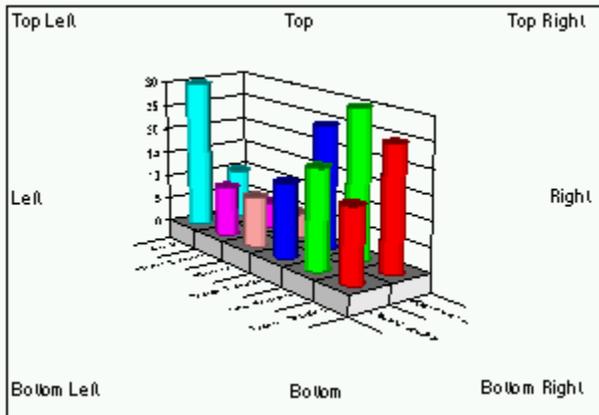


Width. Enter the number of points to be used as the width for the frame lines. A point is 1/72 of an inch. For the Thick Inner and Thick Outer frames, the width sets the thick line.

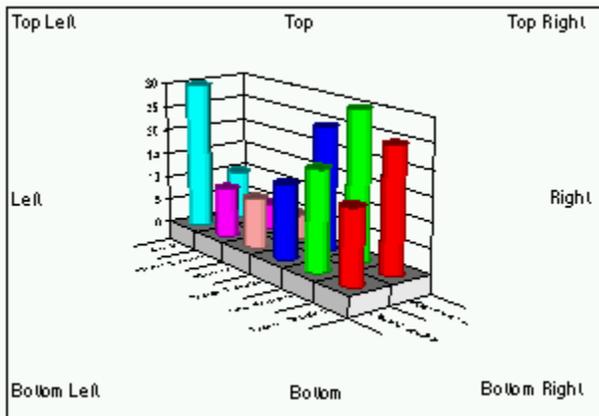


Color. Select a color for the frame lines from the

Color picker.



Shadow. Select this check box to place a shadow on the frame. The following chart shows shadows around the chart control, plot, title, legend, and footnote.



Shadow Offset. Specify the number of points the shadow is offset from the frame. You can specify negative values to offset the shadow to the left and top of the element instead of the bottom and right of the element.

See Also

[Editing Backdrops](#)

[Format Axis Label Dialog Box](#)

[Format Axis Title Dialog Box](#)

[Format Chart Dialog Box](#)

[Format Data Point Label Dialog box](#)

[Format Footnote Dialog Box](#)

[Format Legend Dialog Box](#)

[Format Plot Dialog Box](#)

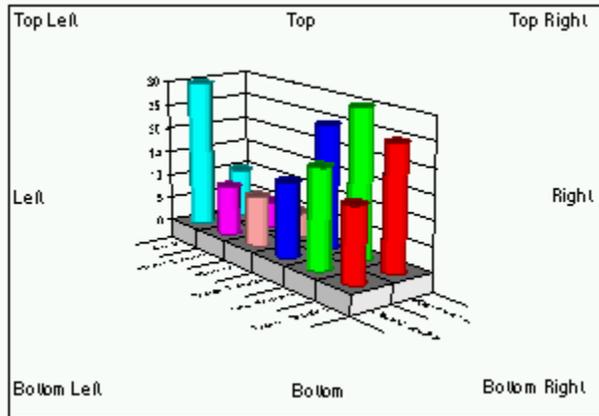
[Format Series Label Dialog Box](#)

[Format Title Dialog Box](#)

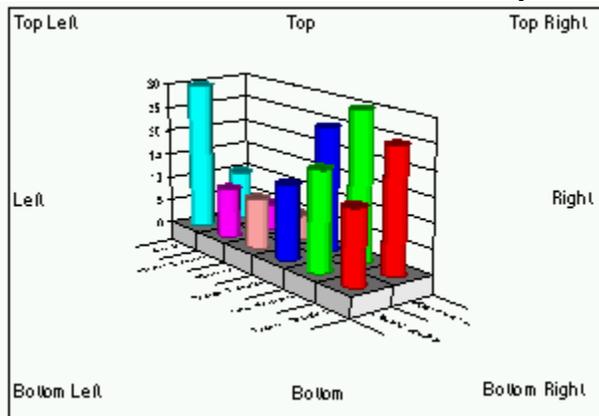
Format Plot Order Tab

Reordering Series

The options in this tab control the order in which series are drawn on the chart and allows you to stack or unstack series individually.

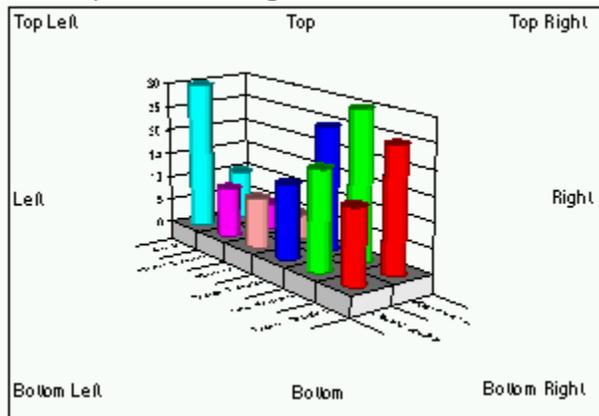


Series Order List Box. This list displays all series in the current chart. Select the series you want to move or stack.



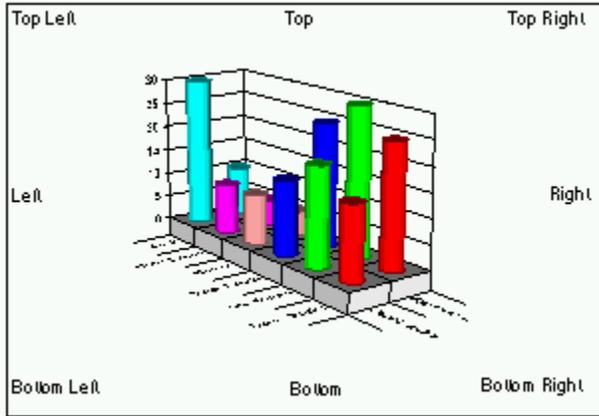
series up in the drawing order.

Up. Click Up to move the currently highlighted

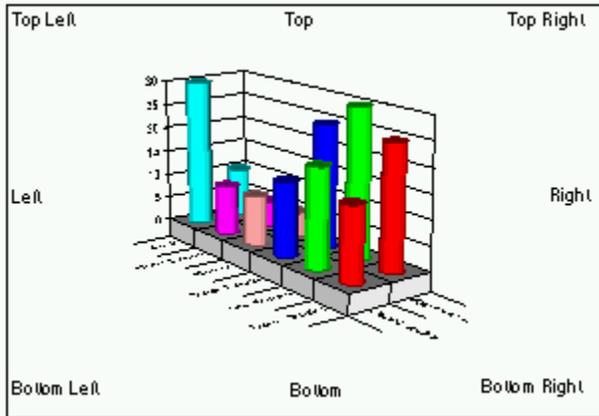


highlighted series down in the drawing order.

Down. Click Down to move the currently



Stack. Click Stack to stack the currently highlighted series on top of the series that precedes it in the drawing order. The word Stack appears in the Series order list and the stacked series are indented.



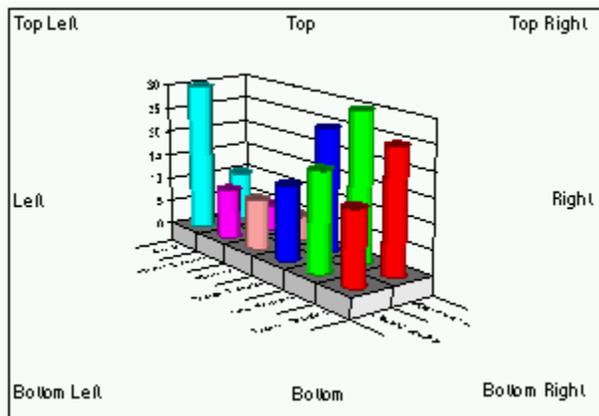
Unstack Highlight an occurrence of the word Stack in the Series order list box and click Unstack to unstack the series in that stack group.

Format Plot Options Tab

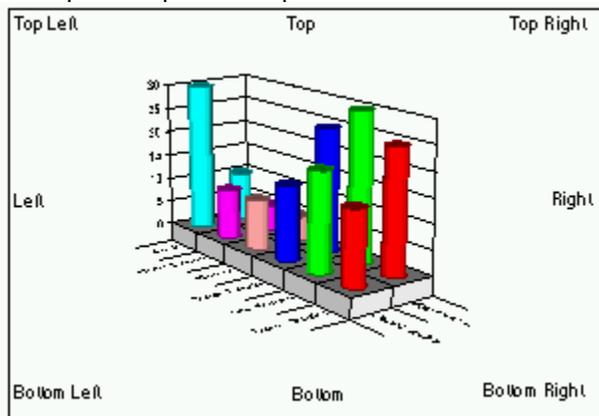
The options in this tab control the appearance of the plot chart as a whole.

Controlling Bar Spacing

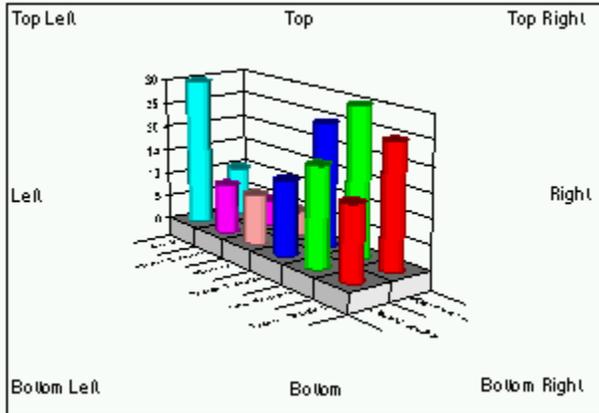
There are three settings that control the spacing between bars on bar and hi-lo charts. The Bar Gap Ratio applies only to 2D bar charts, the Z Gap Ratio applies only to 3D charts, and the X Gap Ratio applies to both 2D bar and 3D bar charts. For all three of these settings, enter a value that represents the distance between bars as a percentage of the bar width.



Bar Gap Ratio. The Bar Gap Ratio controls the distance between bars within a category. Enter any value between -100 and 10,000. The default bar gap of 50 percent places a space between each bar that is half as wide as the bars.



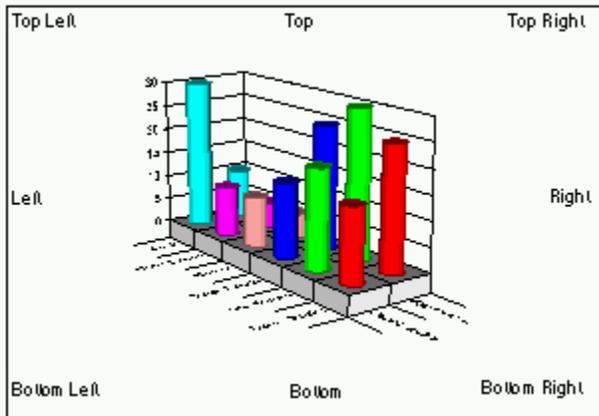
X Gap Ratio. The X Gap Ratio controls the distance between individual bars on the X axis of a 3D bar chart and the space between categories of bars on 2D bar and hi-lo charts. Enter any value between 0 and 10,000.



Z Gap Ratio. The Z Gap Ratio controls the distance between series of bars on the z axis of a 3D chart. Enter any value between 0 and 10,000.

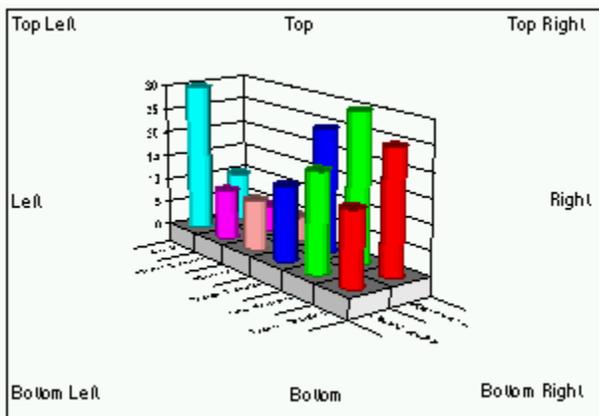
Controlling Chart Direction

The options in the Rotation section of the Options tab control how pie, doughnut, polar, and radar charts are drawn.



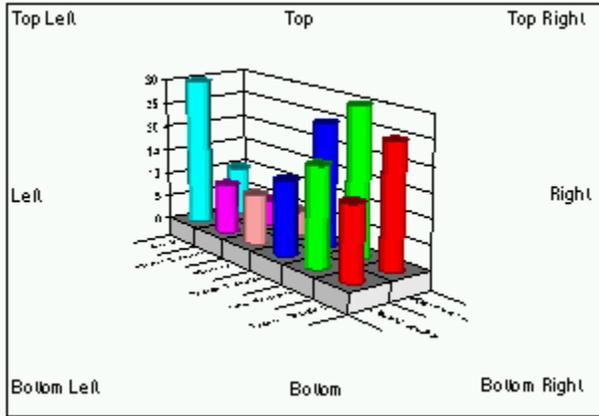
Clockwise. Check this box to draw pie, doughnut, polar, and radar charts in a clockwise direction. Uncheck the box to draw the charts in a counterclockwise direction.

doughnut, polar, and radar charts in a clockwise direction. Uncheck the box to draw the charts in a counterclockwise direction.



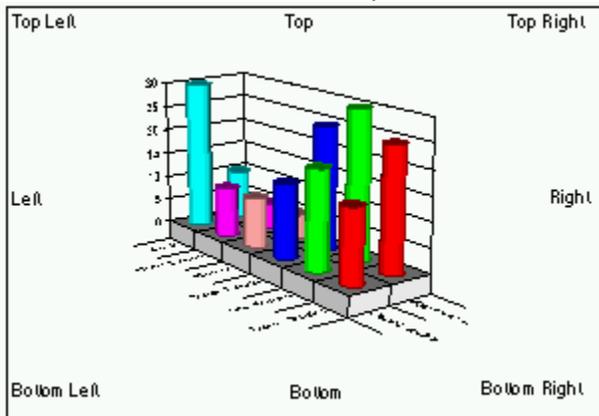
Starting Angle. Enter a value between 0 and 360 degrees to indicate the point on a circle at which drawing starts for pie, doughnut, polar, and radar charts. Enter 0 to indicate the 3 o'clock position. A starting angle of 90 degrees moves the starting position to 12 o'clock if the direction is set to counterclockwise, or to 6 o'clock if the direction is set to clockwise. The value is displayed in degrees, radians, or grad, depending on the setting in the Angle Units option.

360 degrees to indicate the point on a circle at which drawing starts for pie, doughnut, polar, and radar charts. Enter 0 to indicate the 3 o'clock position. A starting angle of 90 degrees moves the starting position to 12 o'clock if the direction is set to counterclockwise, or to 6 o'clock if the direction is set to clockwise. The value is displayed in degrees, radians, or grad, depending on the setting in the Angle Units option.



Scale Angle. Choose where you want to display

the scale on the chart. Angles are measured in the direction specified by the Clockwise check box. A value of 0 starts at the 3 o'clock position.

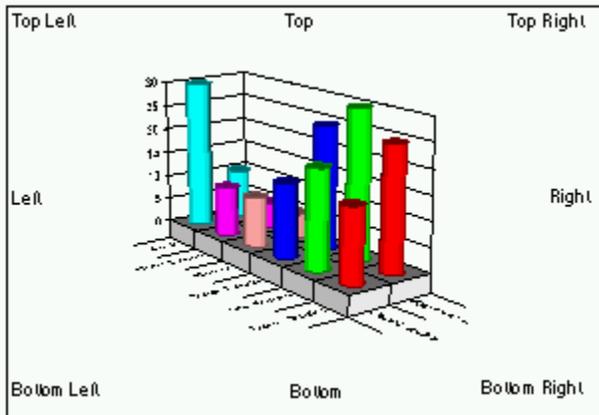


Angle Units. Choose the unit of measure for all

angles in the chart. This affects the unit of measure used for: drawing the angle (Y coordinate) in a polar chart; the starting angle for polar, pie and doughnut charts; scale angle for radar and polar charts; and the rotation and elevation of 3D charts. Choose degrees, radians, or grads.

Formatting Chart Elements

The settings in the Element section of the Options tab are settings that affect all elements of the chart.



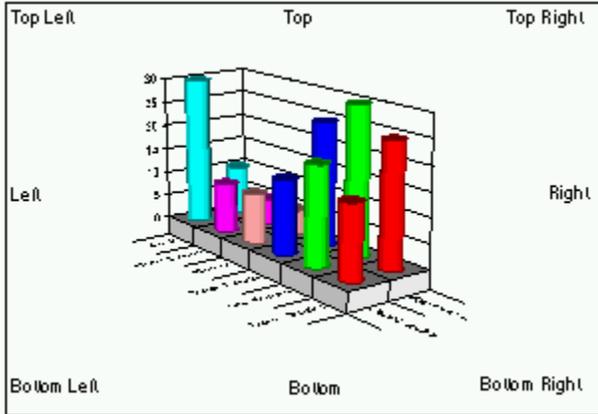
Sorting. This setting controls the order in which

the slices of pie and doughnut charts are drawn. The following table lists the options for this setting.

Setting	Description
None	Pie slices are drawn in the order the data appears in the data grid.

Ascending Pie slices are drawn from the smallest to the largest slice, starting at the defined starting angle.

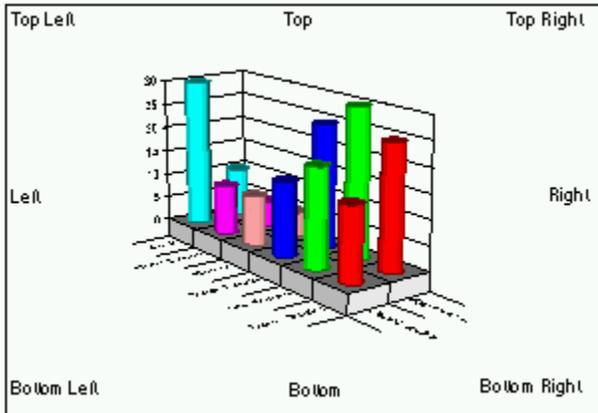
Descending Pie slices are drawn from the largest to the smallest slice, starting at the defined starting angle.



Weighting. This setting controls the size of each

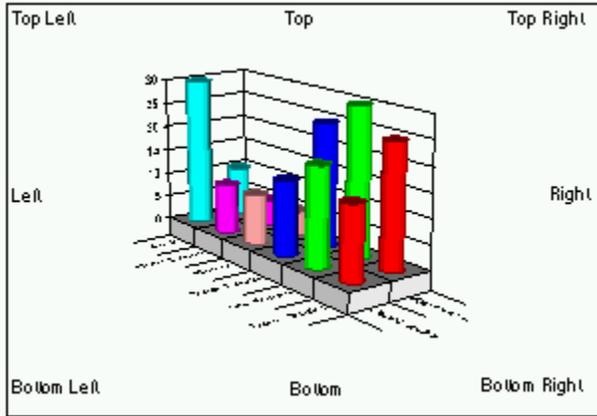
pie or doughnut in relation to the other pies or doughnuts in the same chart. The following table lists the options for this setting.

Setting	Description
None	All pies and doughnuts are drawn the same size.
Pie Total	The slice values in each pie are totaled and the pie with the highest total identified. The size of each pie in the chart is determined by the ratio of its total value compared to the largest pie.
First Series	The size of a pie is determined by the relationship of values in the first series of each pie. The larger the value in the first series, the bigger the pie. It is most common to exclude this first series so that the values are not drawn as pie slices.

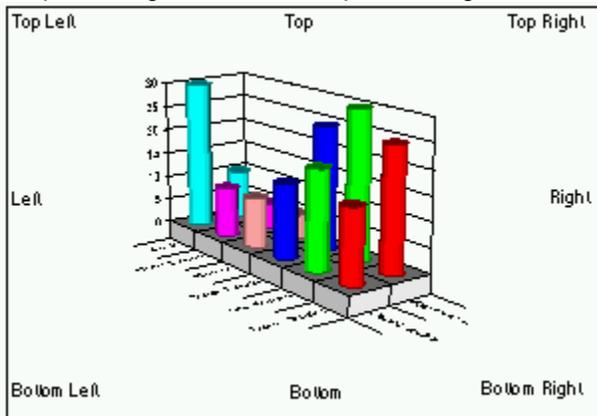


Weighting Radio Buttons. Select the Area

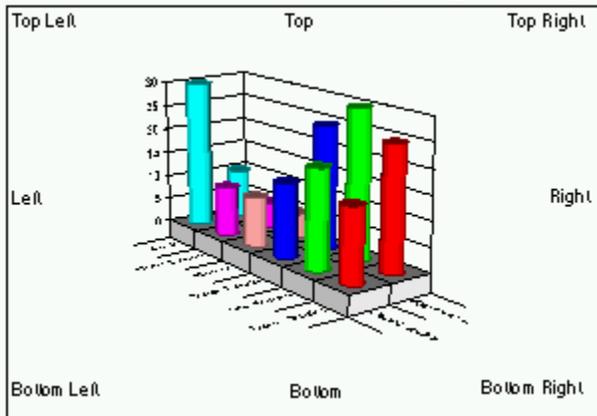
radio button to weight pies and doughnuts by the area of the chart element. Select the Diameter radio button to weight pies and doughnuts by the diameter of each chart element.



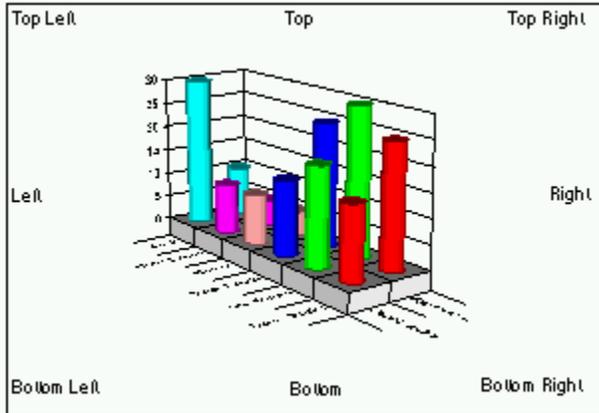
Thickness Ratio. This setting specifies the percentage of the pie or doughnut radius that determines the height of a 3D pie or doughnut. The higher the percentage, the taller the pie or doughnut. You can enter a value between 0 and 100 percent.



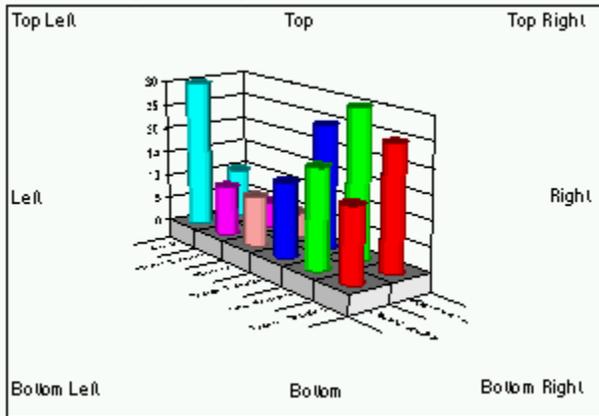
Top Radius Ratio. This setting specifies the percentage of the pie radius that is used to draw the top of a 3D pie. A ratio of 100 draws a cylinder; values less than 100 result in a tapering of the top of the pie. A value of 0 results in a cone.



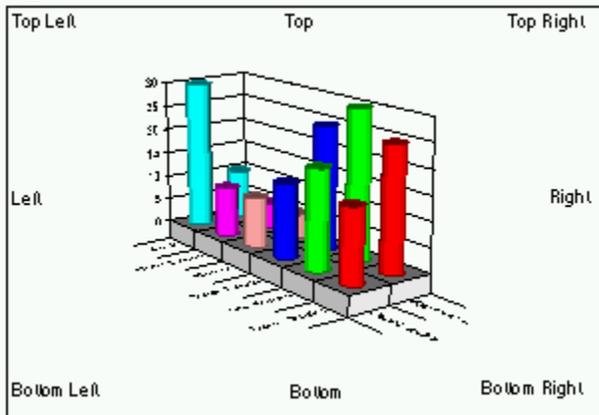
Interior Ratio. This setting describes the ratio of the entire doughnut size that is used to display the interior "hole" of the doughnut. You can enter any number between 1 percent and 100 percent for this setting.



Sides. This setting controls the number of sides used to draw a doughnut. More sides give the doughnut a rounder, smoother appearance. A doughnut must have at least two sides. Enter a value between 1 and 360. If you enter 1, First Impression determines how many sides are needed to draw a round bar at the given bar size. Entering a very large number may impact performance.



Largest Bubble Ratio. This setting controls the appearance of bubbles in a bubble chart. It describes the percentage of the shortest chart axis that is used as the diameter of the largest bubble. All other values are then sized in their relationship to the largest bubble. Enter a value between 2 and 50.



Pie/Doughnut Label Position. This setting controls where the labels for each pie or doughnut are placed on the chart. These labels are actually category labels. They use the font and backdrops defined for the X axis labels. The following table lists the options for this setting.

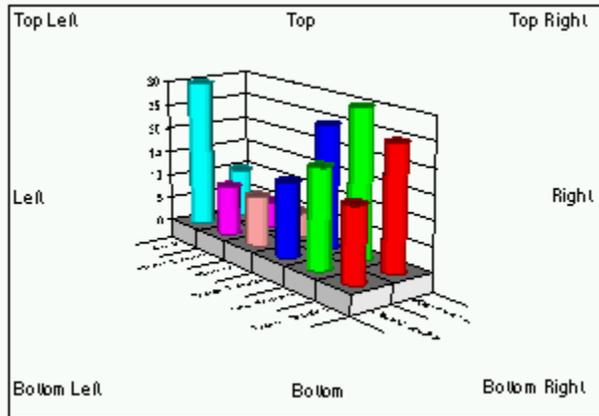
Setting	Description
None	No label is displayed.

- Above The label is displayed above the pie or doughnut.
- Below The label is displayed below the pie or doughnut.
- Center The label is centered on the pie or doughnut.

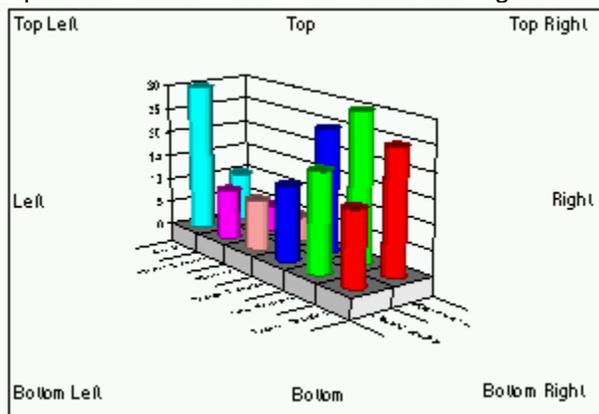
Format Plot 3D View Tab

[Formatting 3D Charts](#)

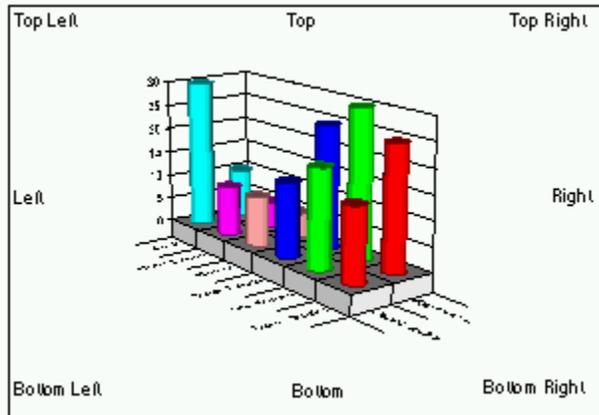
Options on this tab control the rotation, elevation, viewing distance, and projection of a 3D chart, as well as the height to width and depth to height ratios used to display a chart.



Elevation. Enter a number between 0 and 90 degrees in this control to describe the relative height from which a chart is viewed. If you set the elevation to 90, you look directly down on the top of the chart. If you set the elevation to 0, you look directly at the side of the chart. If you are using an angle measurement other than degrees, enter the proper equivalents. The default elevation is 30 degrees.



Rotation. Enter a number between 0 and 360 degrees to specify the angle that the chart is turned from the viewer. If you are using an angle measurement other than degrees, enter the proper equivalents. Rotation does not apply to 3D pie or doughnut charts.



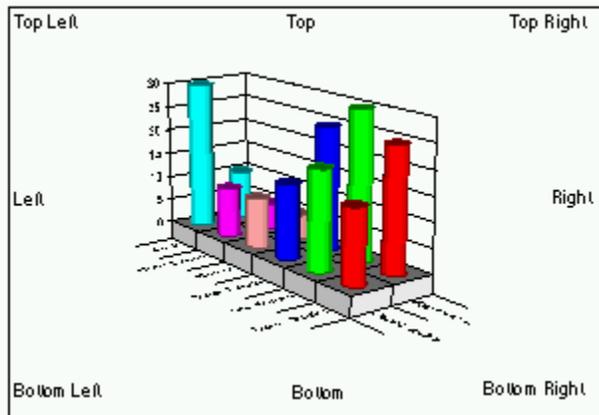
Projection. Select a projection type from the

popup menu.

When you look at a 3D chart on a computer screen or a printed piece of paper, you are looking at an object that is specially drawn to give a 3D appearance in a 2D plane. Projection is a mathematical process used to display a 3D chart in a 2D plane. The following table describes the various types of projection.

Projection	Description
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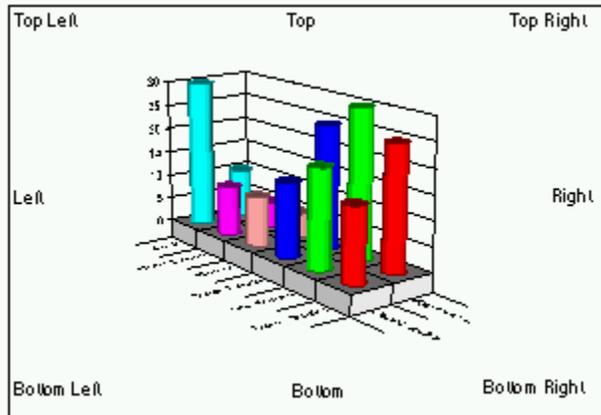
Oblique	This is sometimes referred to as 2.5 dimensional. The chart has depth, but the XY plane does not change when the chart is rotated or elevated.
Orthogonal	Perspective is not applied to the chart. The advantage of using this type of projection is that vertical lines remain vertical, making some charts easier to read.
Perspective	This provides the most realistic 3D appearance. Objects farther away from you converge toward a vanishing point.



Viewing Distance. Enter a positive number that

represents the distance from which the chart is viewed as a percentage of the depth of the chart.

The perspective of an object changes as you move closer to it or farther away from it. The same is true of a 3D chart. By default, 3D charts are viewed from a distance of 200 percent of the charts depth.

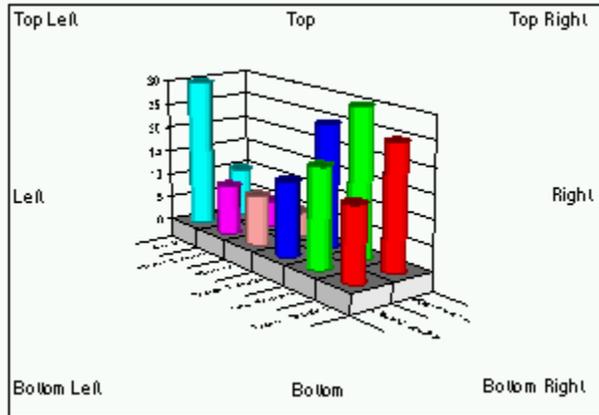


Width To Height and **Depth To Height**. Enter a positive number in each of these fields to represent the percentage of the charts height used to draw the charts width and depth.

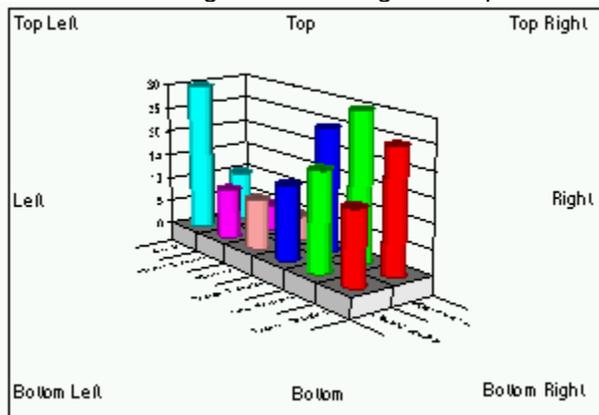
Format Plot 3D Lighting Tab

[Formatting 3D Charts](#)

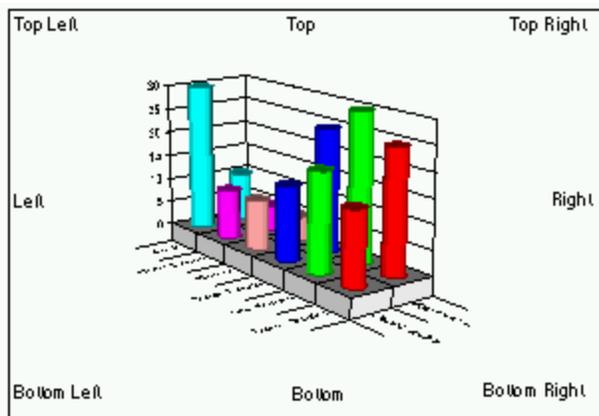
The options on this tab control the amount and type of light used to illuminate a 3D chart.



Ambient Light. This type of light shines on all sides of chart elements and is cast in addition to light from fixed light sources. If ambient light is set to 100 percent, all sides of the chart elements are illuminated equally no matter what light sources you turn on. If ambient light is set to 0, only the sides of chart elements facing the active light sources are illuminated. The default setting for ambient light is 15 percent.

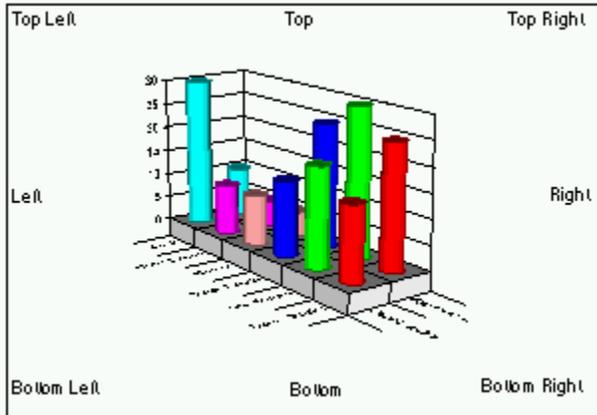


Use Edge Lights. Controls whether an edge pen is used on 3D objects. Check the box to turn edge lighting on. Uncheck the box to turn edge lighting off.



Edge Intensity. Enter a number between 0 and 100 percent to specify the amount of lighting applied to the edges of 3D objects such as bars, lines, pies or doughnuts. An edge light intensity of 0 draws the edges as black lines. An edge light intensity of 100

percent fully illuminates the edges using the edge pens color. The default edge pen color is the same as the series fill color.



Light Source Intensities. You can "turn on" or

"turn off" up to nine preset infinite light sources on your chart. An infinite light source means that while there is a direction towards which the light shines, there is not a fixed distance from which the light is shone. The position of the light source is at infinity with reference to the chart. This allows a more uniform illumination and shading of the chart surfaces. For each of the light sources, enter a value between 0 and 100 percent. At an intensity of 100 percent, chart surfaces perpendicular to the light source are fully illuminated. At an intensity of 50 percent, these surfaces receive 50 percent illumination from this light. A setting of 0 turns off the light source.

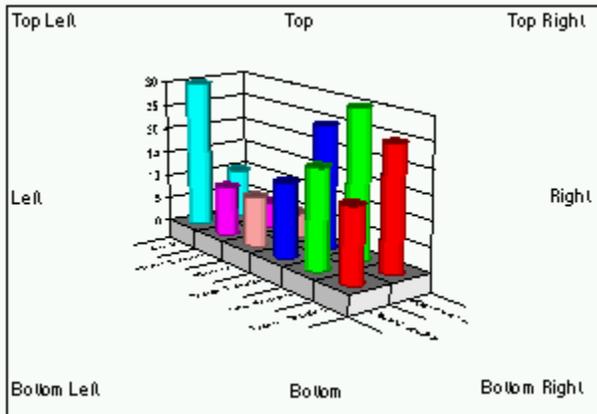
Important A chart surfaces total illumination is the sum of the contributions of the ambient light and each of the infinite lights.

Format Plot Base and Walls Tab

The options on this tab control the appearance of the base and walls of 3D charts and the background behind the axis grid on 2D charts.

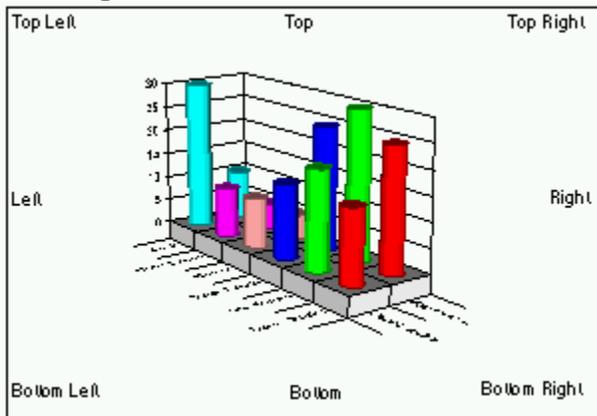
Base Height and Wall Width

Use these controls to specify the thickness of the base and the walls. These controls only affect 3D charts.



base height.

Base Height. Enter the number of points for the

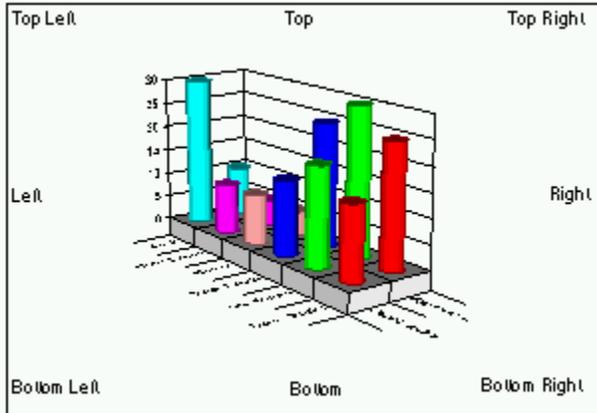


wall width.

Wall Width. Enter the number of points for the

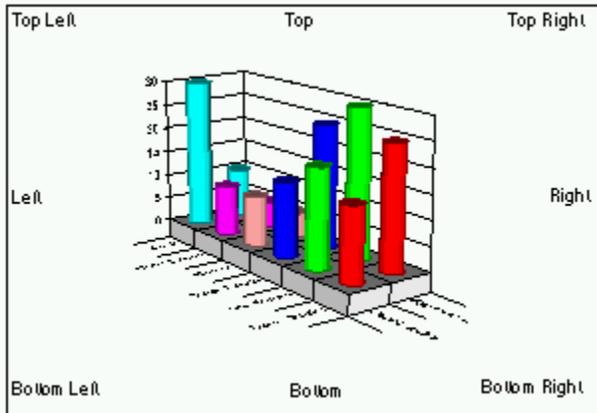
Base Fill and Wall Fill

Use these controls to specify the colors and patterns used to draw the base and walls of a chart. The Base Fill is not used for a 2D chart.



Pattern. Click the control to display the pattern picker. Select one of the patterns, click None to have no pattern on the object, or click Solid to use only the fill color to fill the object.

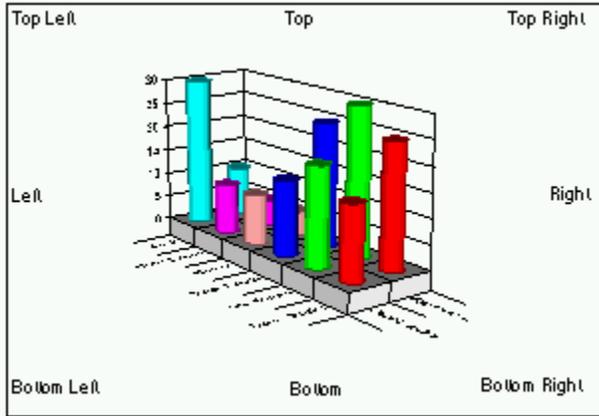
Patterns are bitmaps. A low resolution version of each bitmap displays the pattern on the screen. When you print a chart, a high resolution version of the bitmap is used if the output device prints at more than 144 dpi. The higher the resolution of the output device, the smaller the copies of the bitmaps that form the patterns are reproduced. At high resolutions, First Impression adjusts the patterns to prevent the lines from getting too close together. Hatches are not bitmaps, but actual lines drawn to fill the object. They are always drawn at the same resolution, regardless of the output device. Hatches can be used to output First Impression charts on a plotter. The last row of patterns in the pattern picker are hatch patterns.



Fill Color and Pattern Color. Click any of these controls to display the Color Picker. Select one of the predefined colors or click Custom to mix your own color.

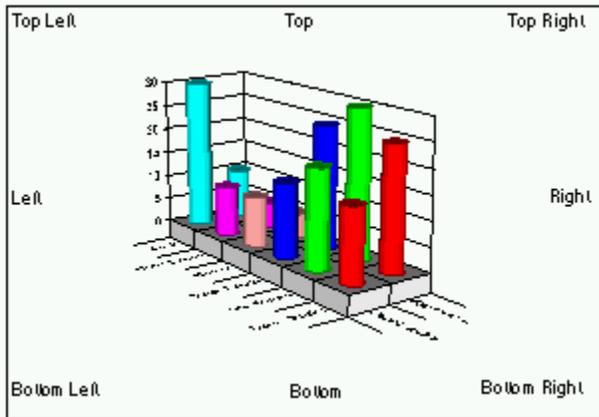
Base Pen and Wall Pen

Use these controls to format the lines used to draw the base and wall edges. The Base Pen is not used on 2D charts.



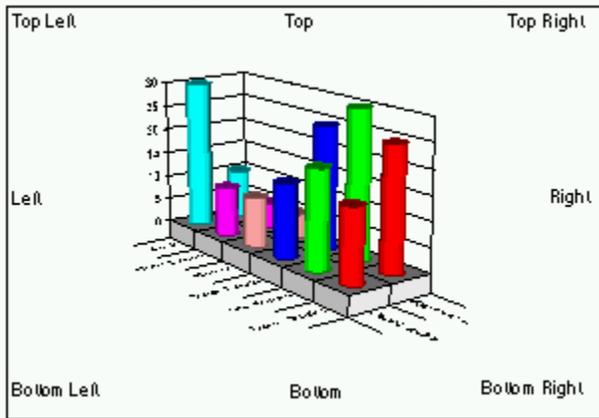
the walls or base.

Style. Select a line style for the lines that frame



walls or base; or, select Custom to specify your own line width.

Width. Select a width for the lines that frame the



Picker. Select one of the predefined colors to draw the lines that make up the base or walls; or, click Custom to mix your own color.

Color. Click the control to display the Color

Format Series Dialog Box

This dialog box controls the appearance of individual series in the chart. If you use the menu to display this dialog box, you are prompted to identify the series you want to format. For information about the options on a specific tab of the Format Series dialog box, select the tab name from the following list.

[Options](#)

[Fill](#)

[Line](#)

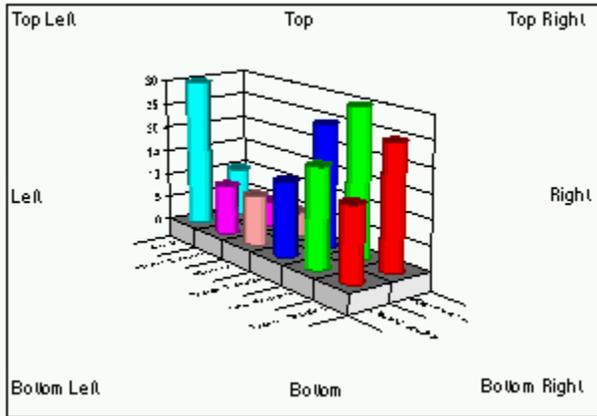
[Markers](#)

[Statistics](#)

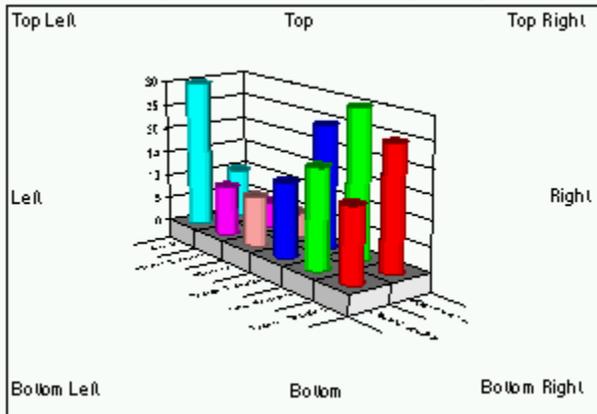
[Guidelines](#)

Format Series Options Tab

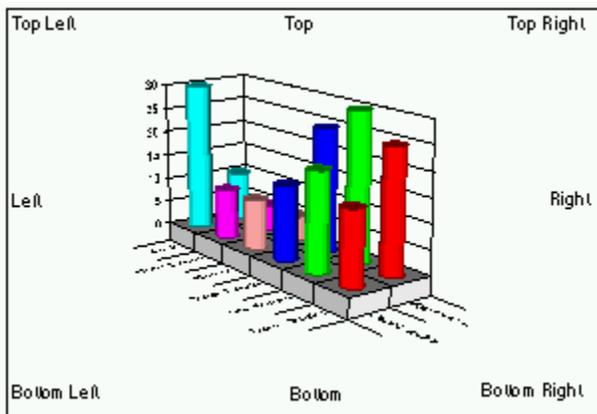
The options in the Options tab hide or exclude a series, plot the series on a secondary Y axis, change style of bars on a bar chart, set the gain and loss colors used in a hi-lo chart, and control smoothing for line and area series types.



Hide. Check this box to turn off display of the current series. The space occupied by the series is still shown on the chart, but the data is not displayed. Uncheck this box to redisplay a hidden series. In pie and doughnut charts, room is still reserved for hidden series pie slices, even though they are not displayed.



Exclude. Check this box to remove a series from a chart. The data is not displayed and the space occupied by the series is removed from the chart. Uncheck this box to return an excluded series to the chart.

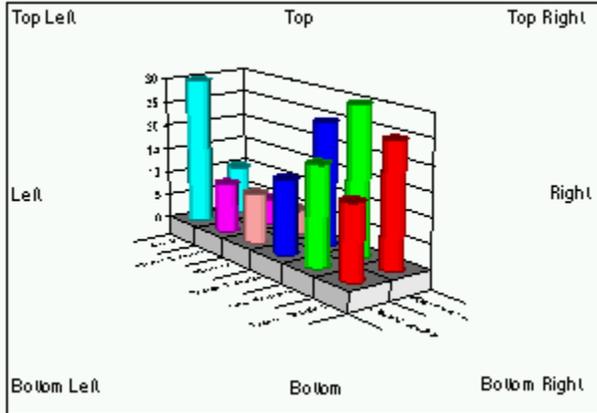


Plot On 2nd Y Axis. Check this box to plot the current series on the secondary Y axis instead of the primary axis. You may then want to change the scale, type, or format of the secondary axis to best display the series data. Uncheck this box to plot the

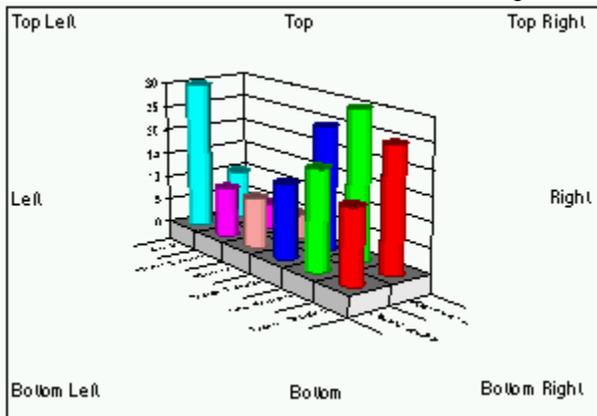
data on the primary axis.

Bar Shapes

The options in this section of the tab control the appearance of bars in 3D bar charts; including horizontal bar charts, gantt charts, and clustered bar charts.



Sides. Enter a value between 3 and 360 to indicate the number of sides for the bars. Higher numbers of sides give the bars a rounder appearance.

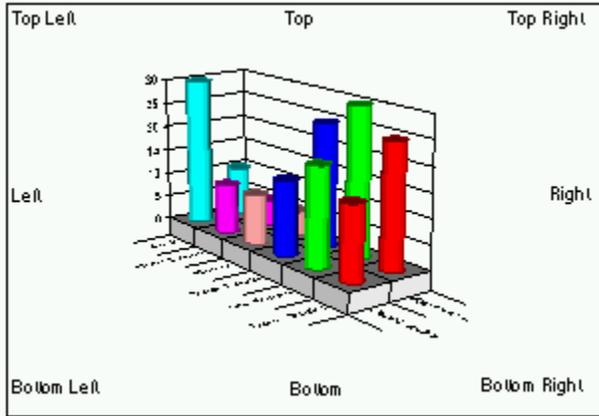


Top Ratio. Enter a positive number to indicate the percent of the bottom diameter used to draw the top of the chart. Values less than 100 result in a top smaller than the bottom. Values greater than 100 result in the top wider than the bottom.

Smoothing Series Data

The options in this section of the tab control the smoothing of series data. Smoothing is the process of using one of several mathematical formulas to divide the chart data into a number of facets. When the chart is drawn using these facets, the result is a smoother curve to the series lines.

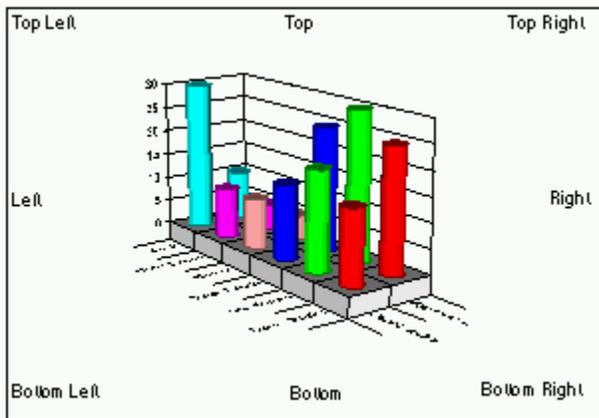
You can smooth line and area series types.



Function. Select a smoothing type from the

popup menu. The following table describes the smoothing type.

Smoothing Type	Description
None	No smoothing is applied to the data.
QuadraticBSpline	A quadratic B-spline formula determines the smoothing applied to the data. This form of smoothing results in a less-smooth curve that stays closer to the data points.
CubicBSpline	A cubic B-spline formula determines the smoothing applied to the data. This form of smoothing results in a smoother curve, but varies further from the data point than a QuadraticB spline curve.

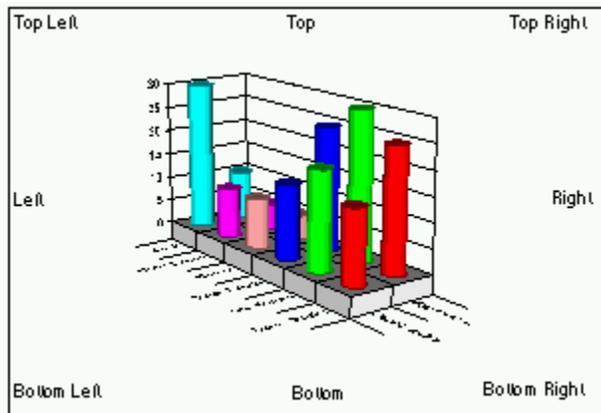


Factor. Specify the number of facets or points

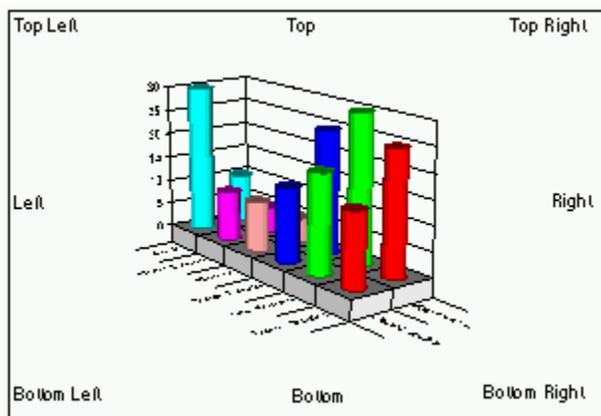
sampled between the chart data points to create the smoothing effect. The higher the number, the more smoothing occurs.

Hi-Lo-Close Colors

The controls in this section of the tab control the colors used to display the elements of a hi-lo chart.



Gain Color. Click the control to display the color picker and select the color used to indicate a gain in value. Select a predefined color or click Custom to mix your own color. Select Automatic to have all elements that reflect a gain in value use the fill color defined for the series.



Loss Color. Click the control to display the color picker and select the color used to indicate a loss in value. Select a predefined color or click Custom to mix your own color. Select Automatic to have all elements that reflect a loss in value use the fill color defined for the series.

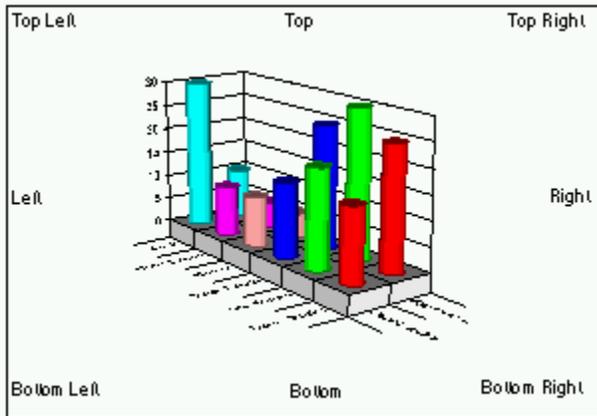
Note Gains and losses are calculated differently between open-hi-lo-close bar charts and other variations of hi-lo-close charts. A hi-lo-close chart calculates whether the close value for a point was a gain or a loss from the close point of the previous point. In other words, the first data point never has a gain or loss color, but sets the basis for deciding if the next data point displays a gain or loss. The open-hi-lo-close bar chart calculates whether the close point was a gain or loss from the open value for the same point.

Fill Tab

The options in this tab control color, pattern, and edge pen used to display the series elements or individual data points. If the series is a 2D bar type, you can also specify a graphic image to use as the fill for the bars.

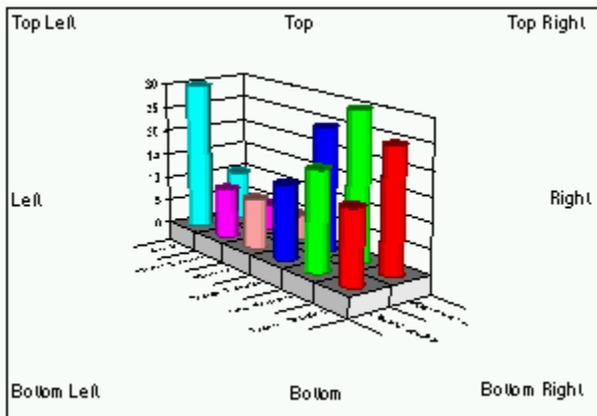
Setting Fill Color and Pattern

The options in the Fill section of the tab control the color and pattern used to display a chart element.

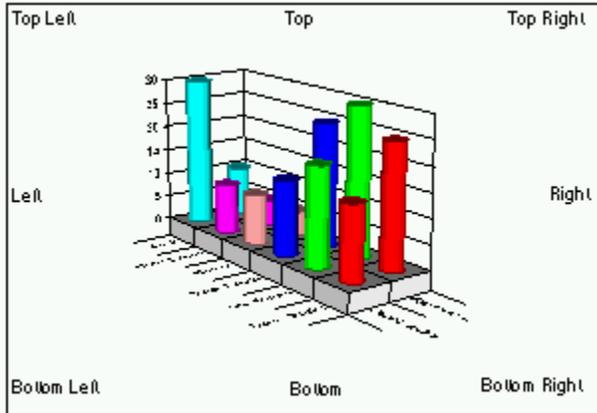


Pattern. Click the control to display the pattern picker. Select the pattern or hatch you want to use to fill the chart element.

Patterns are bitmaps. A low resolution version of each bitmap is used to display the pattern on the screen. When you print a chart, a high resolution version of the bitmap is used if the output device prints at more than 144 dpi. The higher the resolution of the output device, the smaller the copies of the bitmaps that make up the patterns are reproduced. At high resolutions, First Impression adjusts the patterns to prevent the lines from getting too close together. Hatches are not bitmaps, but actual lines drawn to fill the object. They are always drawn at the same resolution, regardless of the output device.



Fill Color. The fill color is used as the color for solid patterns. It is used as the background color for any other type of pattern. By default, the line color for an element matches this fill color.



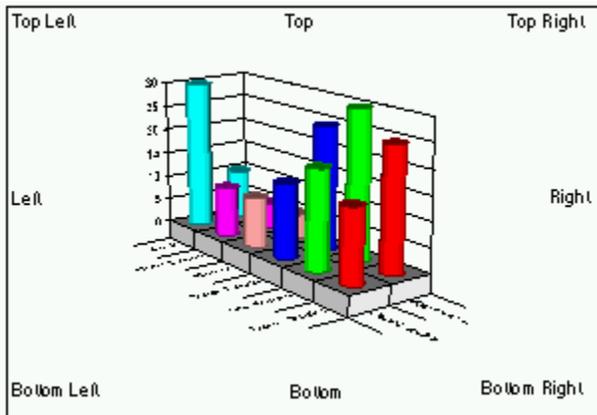
Pattern Color. The pattern color is used to draw

the pattern over the fill color if any pattern other than solid is selected.

For both color controls, click the control to display the color picker. Select the color you want to use. You can choose Custom to display a color mixer and create your own color.

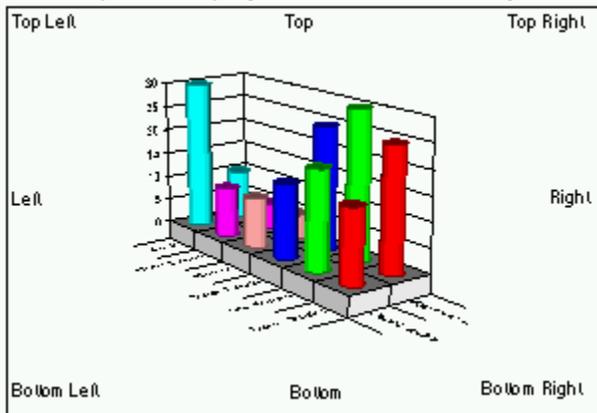
Setting Edge Color and Width

The edge pen outlines all 3D objects and all 2D elements except the lines in line, XY, hi-lo, radar, and polar charts.



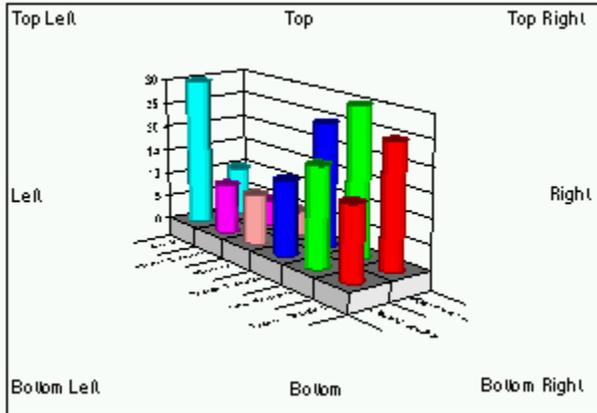
Style. Click the control to display the line picker.

The line picker displays the available line styles. Select the style you want to use to outline objects.



Width. Click the control to display the available

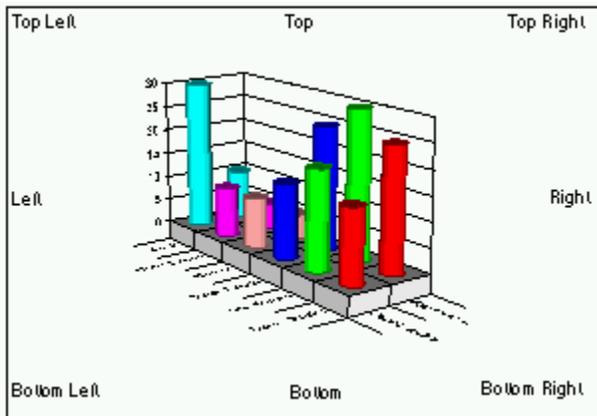
line widths. Select a width from the list or click Custom to specify your own width.



Color. Click the control to display the color picker. Select a predefined color, or select Automatic to have the outline drawn in the same color as the objects fill color. You can also click Custom to mix a new color.

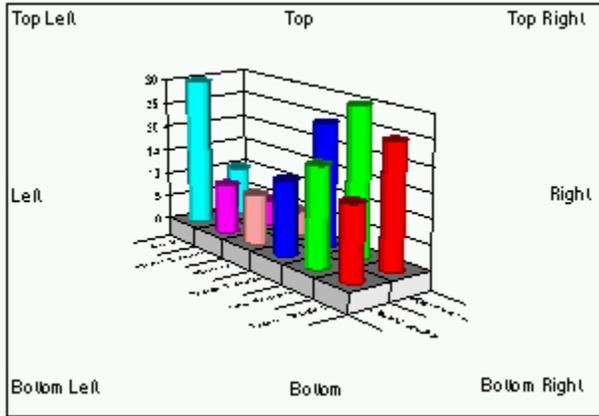
Picture Bars

The controls in the picture section of the dialog box allow you to specify a graphic image to use as the fill for a series of 2D vertical or horizontal bars or gantt charts.



Picture. This control displays a preview of the graphic. When a valid path and file name are entered in the File text box, the picture is displayed in the Picture control. Only Windows Bitmap (.bmp) and Windows Metafiles (.wmf) are supported graphic formats.

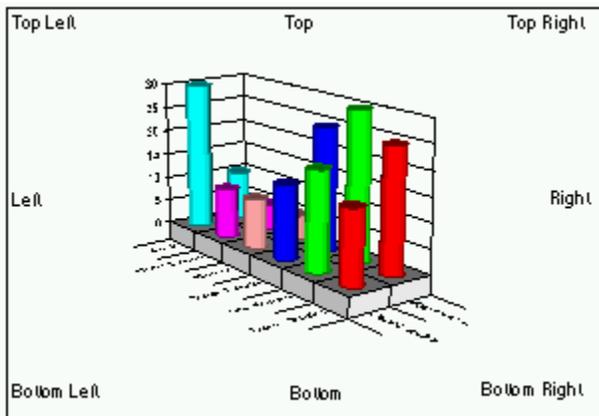
Important If you create picture bars using a Windows metafile, the pictures will not appear if you save the chart as a metafile. This is a Windows limitation that prevents a metafile from containing another metafile. If you plan to copy the chart to the clipboard, or save the chart as a metafile, use a bitmap for the picture bars instead of a metafile.



Fit Method. You can choose how to fit the

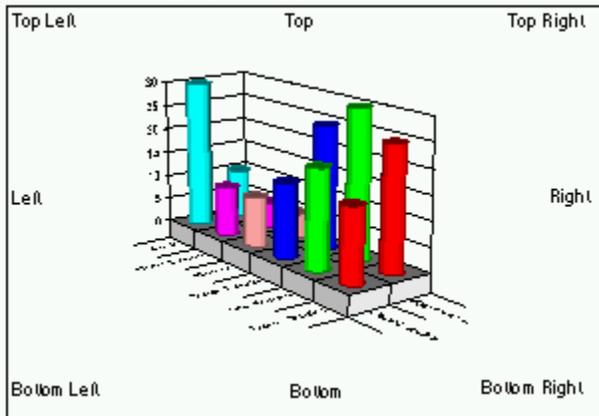
graphic into the bar. The following table lists the options for fitting graphics.

Method	Description
Stacked	Duplicates the graphic repeatedly to fill the bars. Since this uses multiple copies of the graphic, it is recommended that you use as small a file as possible.
Stretched To Fit	Scales the graphic to fit the bars regardless of its original proportions.



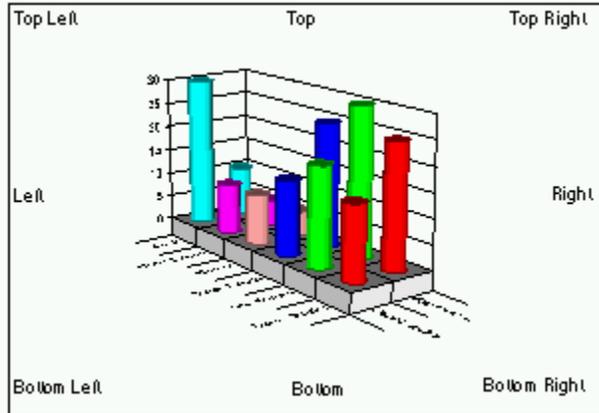
File. Type the full path to the graphic file in the

File field or press the Browse button to display an Open File dialog box. When you specify a valid path, a preview of the graphic appears in the Picture control.



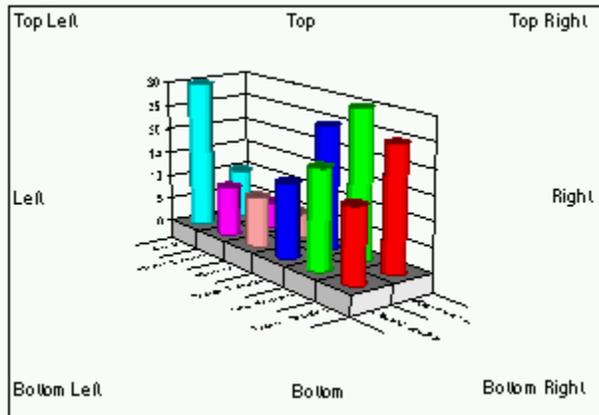
Clear. Click this button to clear an existing

picture from the picture control.



Embed. Select the Embed check box to save

the graphic with the file.



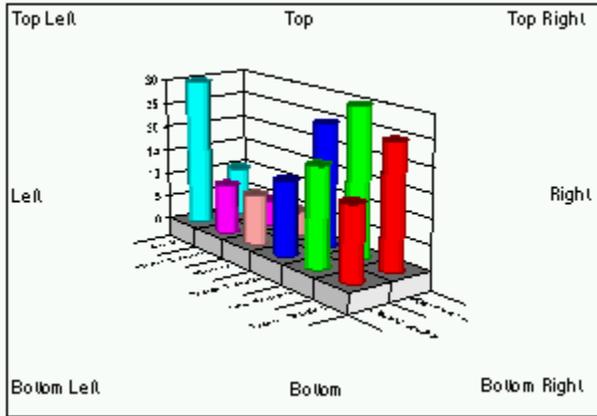
Paste. Click this button to place a .wmf or .bmp

file from the clipboard into the current chart element.

Note You can also fill 2D bars with pictures interactively. Select the bar you want to fill on the chart. Click the right mouse button to display the floating menu and select Paste. Identify the graphic you want to paste into the bar and click OK.

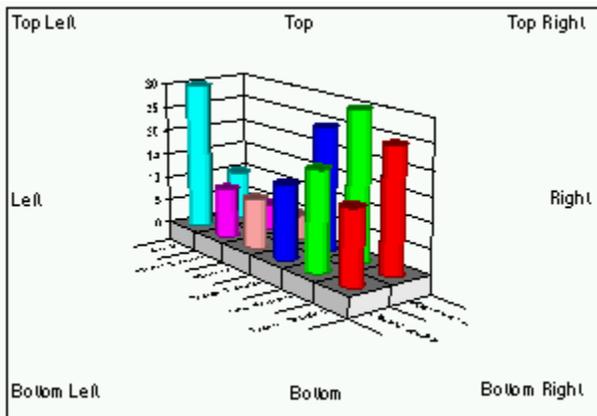
Line Tab

The options on the Line tab format 2D lines and the lines in XY, radar, polar, and hi-lo charts.



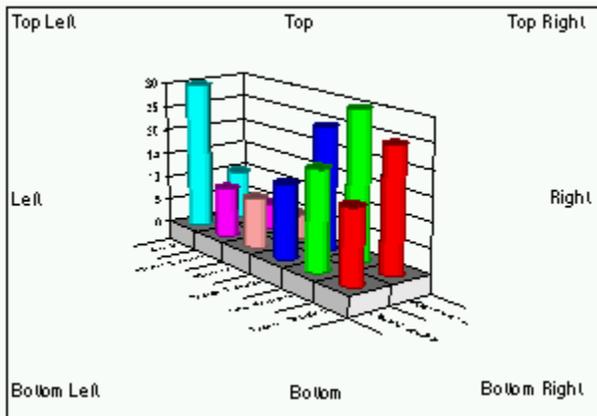
Show Lines. Check this check box to display lines on a 2D chart. Uncheck this check box to hide the lines on the chart.

The remaining controls in the dialog box control the style, width, color, joint, and end caps used to display lines.

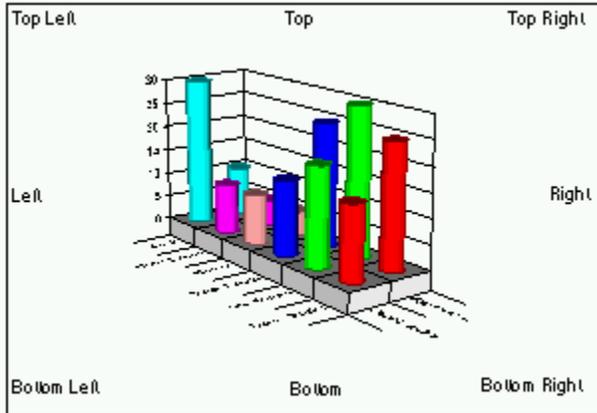


current line.

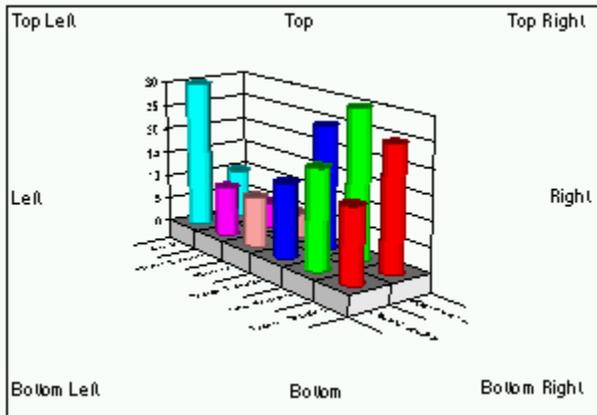
Style. Click the control to select a style for the



Width. Click the control to display the preset line widths. Pick a width, or select Custom to assign your own width.



Color. Click the control to display the Color picker. Select one of the predefined colors, or click Custom to mix your own color.

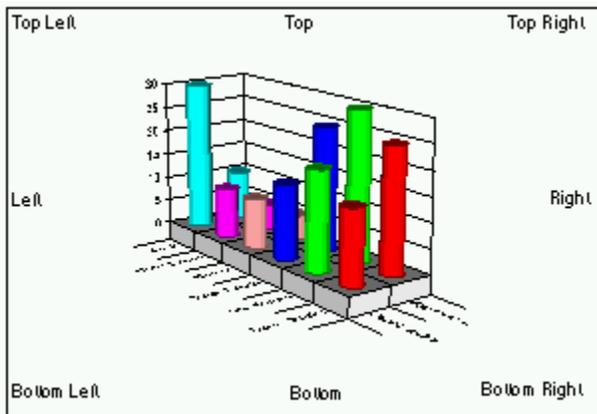


Join. Select a method of joining line segments in the series. Join styles are particularly important when using thick lines.

Join Types	Description
------------	-------------

- | | |
|---------|--|
| Mitered | The outer edges of the two lines are extended until they meet. |
| Round | A circular arc is drawn around the point where the two lines meet. |
| Beveled | The notch between the ends of two joining lines is filled. |

Important Very acute mitered joins are automatically beveled to avoid drawing large spikes along the line.



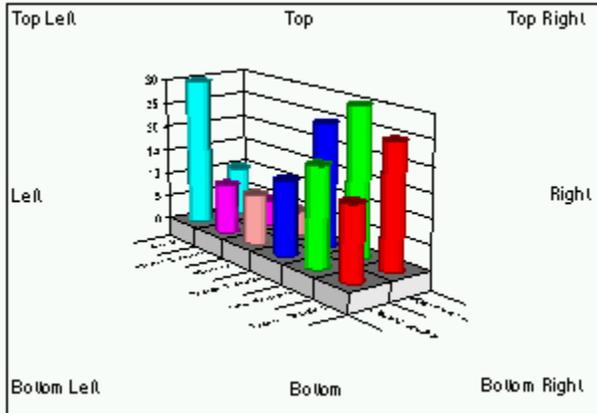
Caps. Select a type to specify how the ends of lines are displayed.

Cap Type	Description
----------	-------------

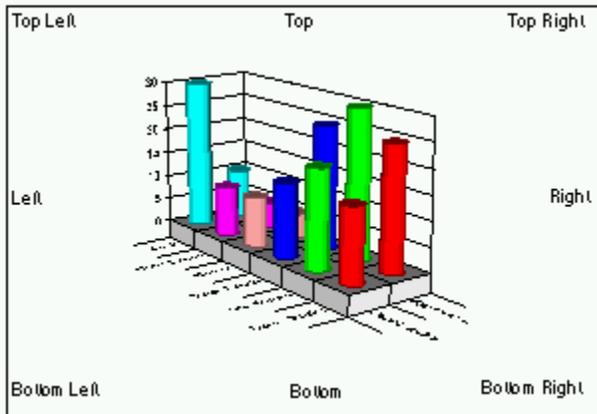
- Butt The line is squared off at the endpoint.
- Round A semicircle with a diameter of the line thickness is drawn at the end of the line.
- Squared The line continues beyond the endpoint for a distance equal to half the line thickness and is squared off.

Markers Tab

The Markers tab controls the style, color, size, and line width used to display markers. Markers can be displayed on all chart types except pies and doughnuts.

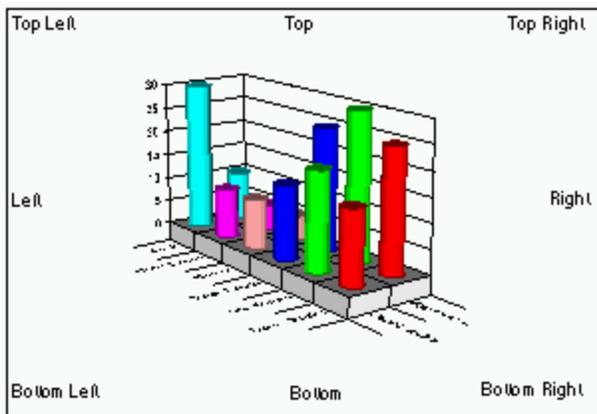


Show Markers. Check this box to display markers on a series. Uncheck this box to remove markers from a series.

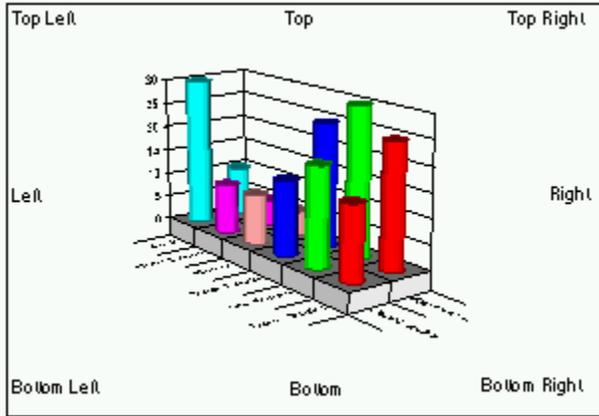


Automatic. Check this box to allow First Impression to use the next available marker to identify the series. Uncheck this box to select your own choice of marker.

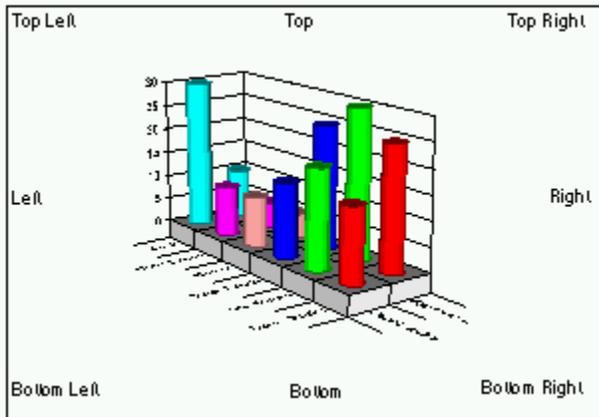
The remaining options in this tab are enabled if you uncheck Automatic so that you can specify a marker style, color, size, and line width.



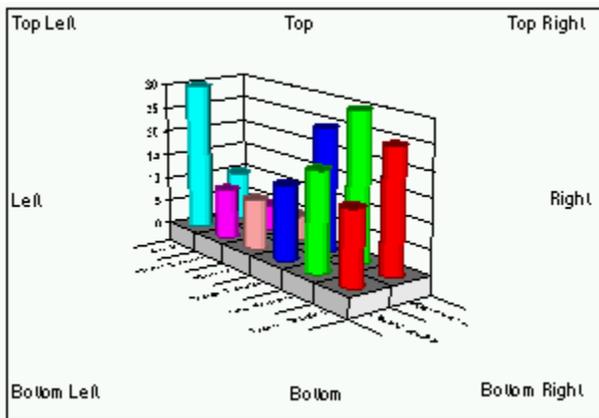
Style. Select a marker type to identify the data points in the current series.



Color. Click the control to display the Color Picker. Select a color for the marker or click Custom and mix your own color.



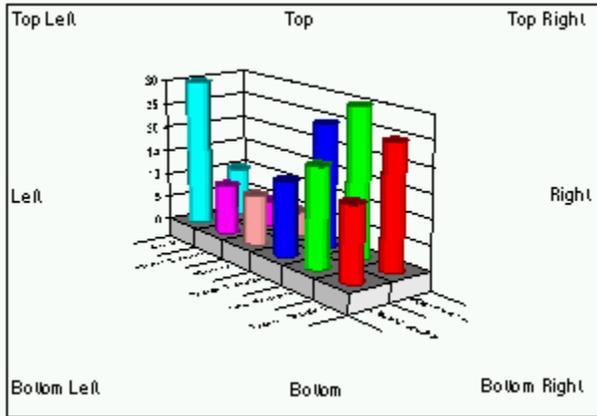
Size. Enter the number of points for the marker diameter.



Pen Width. Select a width for the lines that form the marker, or click Custom and set your own width.

Format Series Statistics Tab

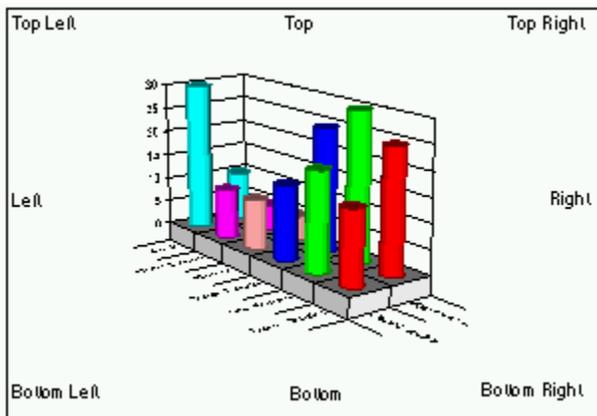
The options in this tab specify the type of statistics lines that are displayed for the current series and the appearance of each line. Statistics lines are useful for analyzing data by showing information such as minimum value, maximum value, mean value, standard deviation, and regression trendlines. You can only display statistics lines on 2D line and XY charts.



Show check boxes. For each type of statistic,

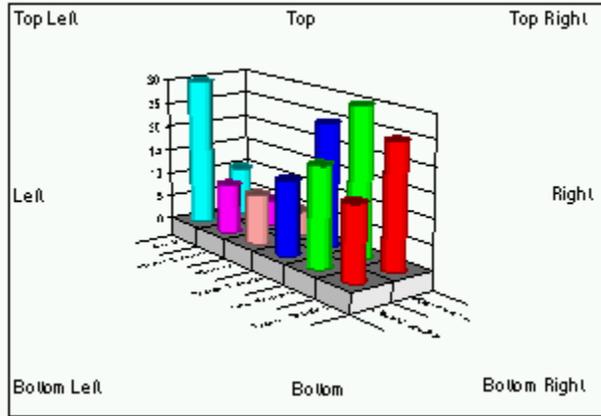
check the box to display the line or uncheck the box to remove the line. The following table describes each type of statistic.

Statistic Type	Description
Minimum	Shows the minimum Y value in the series.
Maximum	Shows the maximum Y value in the series.
Mean	Shows the mathematical mean of the Y values in the series.
Standard Deviation	Shows the standard deviation of the Y values in the series.
Regression	Shows a trend line indicated by the Y values in a series.

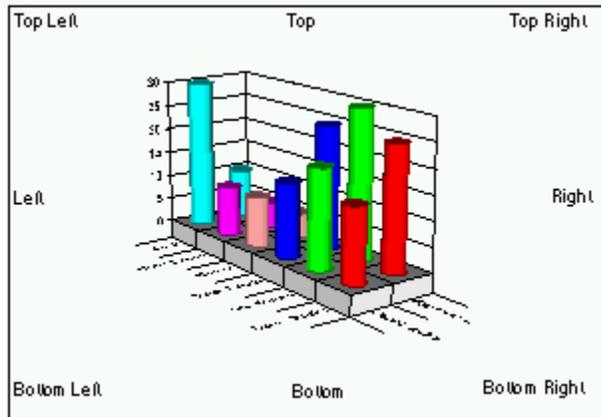


Line Styles. For each type of statistic, select a

line style that uniquely identifies it.



represent the current series.



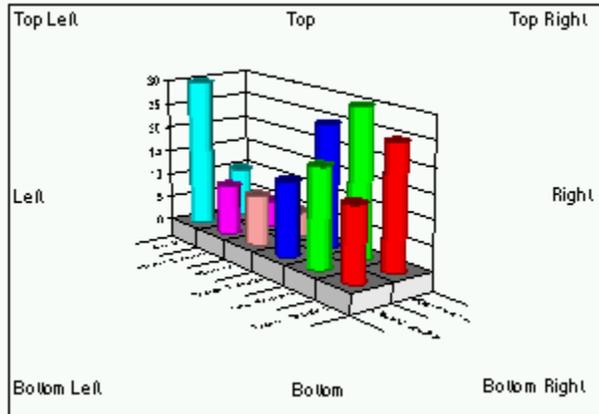
click custom and set a new width.

Color. Select the color for the statistics lines that

Width. Select a width for the statistics lines, or

Format Series Guidelines Tab

The options on the Guidelines tab control the display and format of guidelines for the series in 2D and 3D line, area, and step chart as well as bubble charts. Guidelines are lines that are drawn from a data point to one or more axis to better identify the data point position.



Show Guidelines. Check this box to display guidelines for the series. Uncheck this box to remove guidelines.

The remaining controls in the dialog box control the appearance of the guidelines. You can specify a style, width, color, and cap style for the guidelines. For specific information about each of these settings refer to the discussion of the Line tab.

Format Series Label Dialog Box

This dialog box controls the display and appearance of series labels on area, step, and line charts.

For information about the options on a specific tab of the Format Series Label dialog box, select the tab name from the following list.

[Options](#)

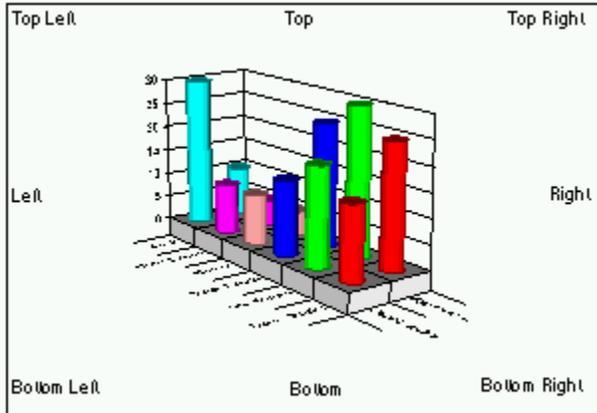
[Font](#)

[Text](#)

[Backdrop](#)

Format Series Label Options Tab

The Options tab controls the display and position of the series label as well as the line style used to connect the label to the series.

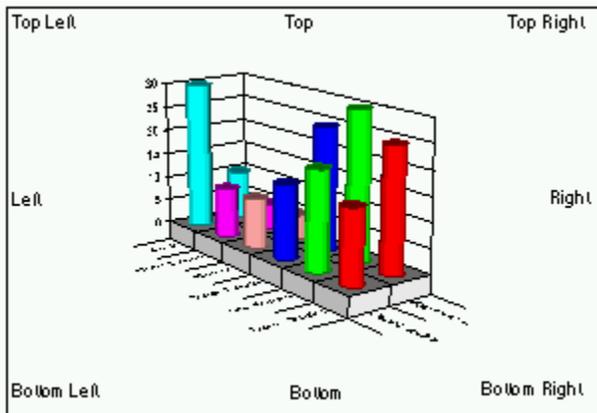


Location. To display a series label on the chart,

select one of the predefined positions. The following table describes the valid positions for series labels.

Positions	Description
-----------	-------------

None	Hides the label.
First	The label is displayed above the first data point in the series.
Last	The label is displayed above the last data point in the series.
Center	The label is displayed above the middle data point in the series.



Label Line Style. To display a line connecting a

label to a series it represents, select one of the Label Line Style radio buttons described in the following table.

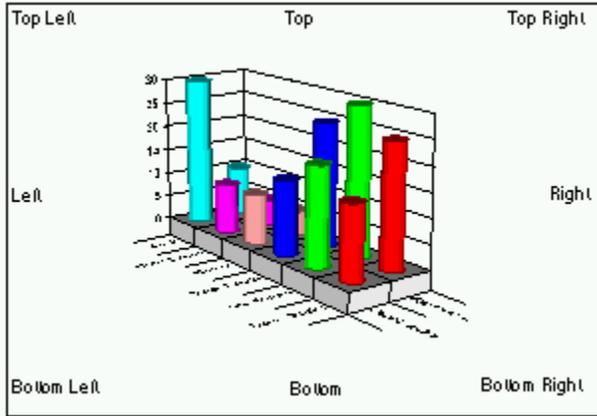
Line Styles	Description
-------------	-------------

None	No line connects the label and series.
Line	A straight line connects the label and series.
Angle Line	An angled line connects the label and series.

Font Tab

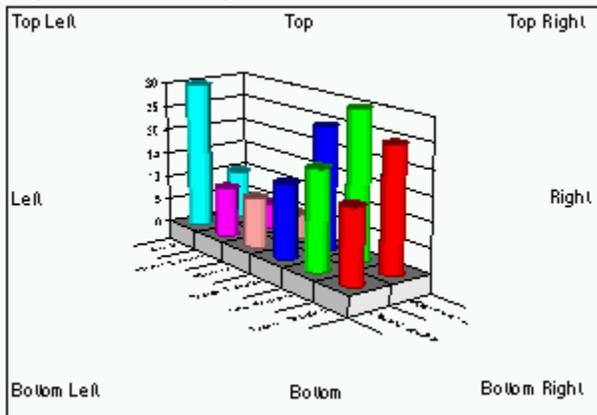
[See Also](#)

A number of dialogs contain the font tab. Options on the font tab control the font, font style, size, color and effects used to display text in a chart element.



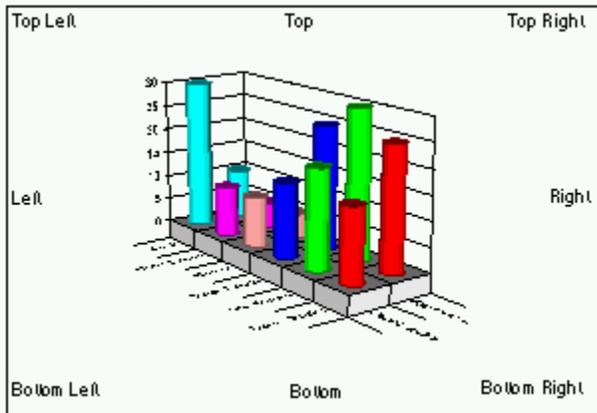
Font. Select a font from the list of fonts installed

on your Windows system.

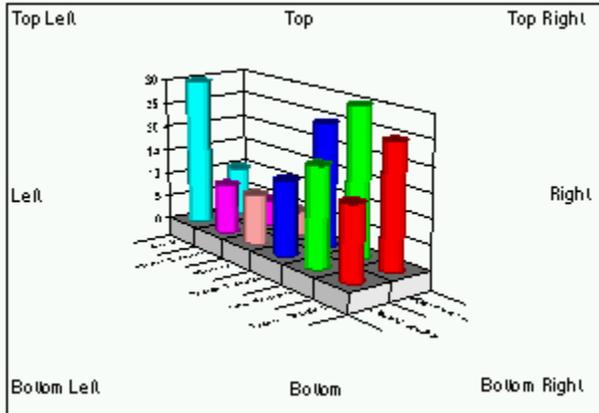


Font Style. Select a style from the list of

supported styles for the font you selected.

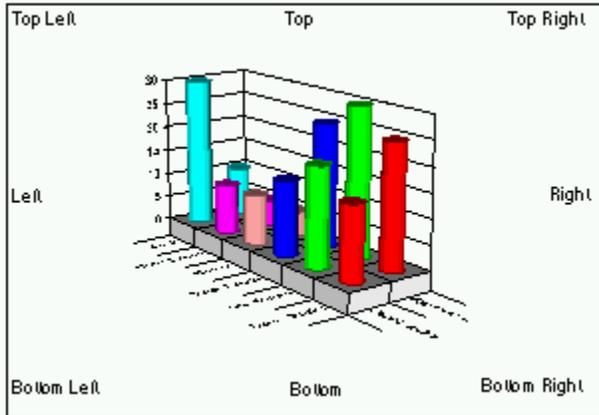


Size. Select a size from the list of valid sizes for the font you selected. You can also type a valid size in the Size field.



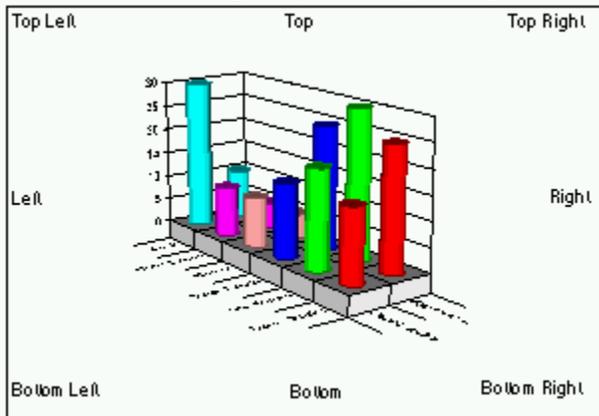
Underline check boxes to apply those effects to the text.

Effects. Check either or both the Strikeout and



Sample. As you make selections from the other controls in this dialog box, the sample is updated to reflect the changes.

Sample. As you make selections from the other



Picker. Select one of the predefined colors, or click Custom to mix your own color.

Color. Click the control to display the Color

See Also

[Format Axis Label Dialog Box](#)

[Format Axis Title Dialog Box](#)

[Format Data Point Label Dialog Box](#)

[Format Footnote Dialog Box](#)

[Format Legend Dialog Box](#)

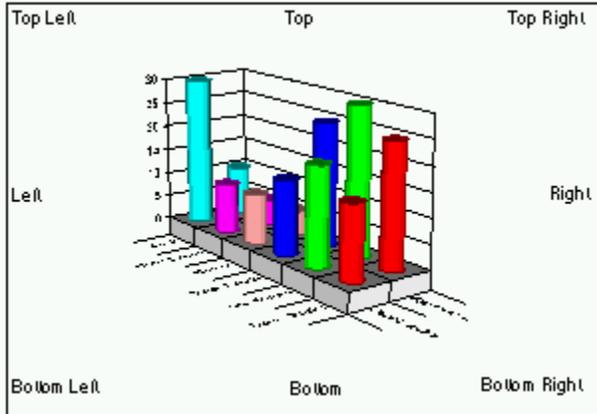
[Format Series Label Dialog Box](#)

[Format Title Dialog Box](#)

Text Tab

[See Also](#)

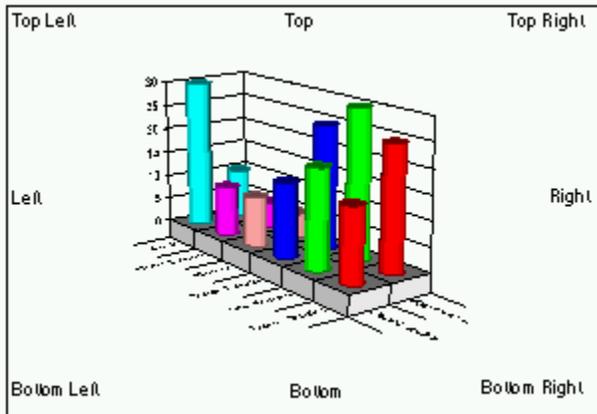
A number of dialog boxes contain the text tab. Options on the Text tab control the alignment and orientation used to display text. It also allows provides a place to enter or modify the text that makes up the chart element you are formatting.



Horizontal Alignment. The following table

describes the horizontal alignment options for text.

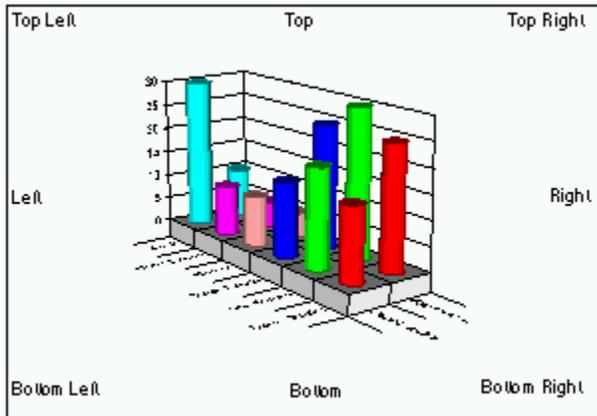
Alignment	Description
Left	All lines of text are aligned on the left margin.
Right	All lines of text are aligned on the right margin.
Center	All lines of text are centered horizontally.



Vertical Alignment. The following table

describes the vertical alignment options for text.

Alignment	Description
Top	All lines of text are aligned at the top margin.
Bottom	All lines of text are aligned at the bottom margin.
Center	All lines of text are centered vertically.



Orientation. The following table describes the

orientation options for text.

Orientation	Description
-------------	-------------

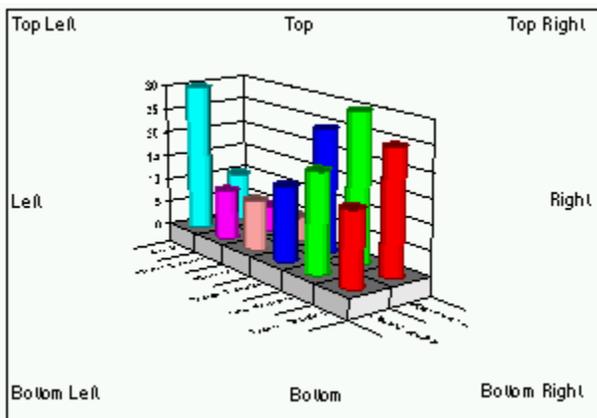
Horizontal	The text is displayed horizontally.
------------	-------------------------------------

Vertical	The text is displayed, one letter on top of each other, reading from top to bottom.
----------	---

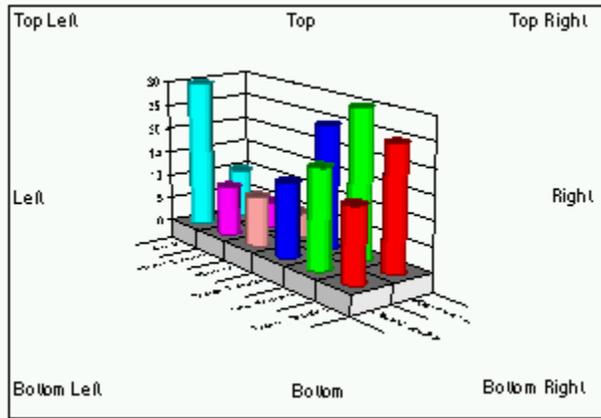
Up	The text is rotated to read from bottom to top.
----	---

Down	The text is rotated to read from top to bottom.
------	---

Note When you rotate text up or down, the vertical and horizontal alignment are still relative to the text and not to the bounding box. In other words, text displayed with up orientation and left alignment is actually flush against the bottom of the bounding box, not the left side.



Word Wrap. Check this box to wrap any text that is too long to fit on one line of the bounding box. You can also insert line breaks manually by pressing CTRL + ENTER anywhere in the text. This option is not available in the Format Data Point Label dialog box or the Format Series Label dialog box.



element you are formatting.

Text. Enter the text to be displayed by the chart

See Also

[Format Axis Label Dialog Box](#)

[Format Axis Title Dialog Box](#)

[Format Data Point Label Dialog Box](#)

[Format Footnote Dialog Box](#)

[Format Series Label Dialog Box](#)

[Format Title Dialog Box](#)

Format Data Point Dialog Box

This dialog box is used to format the appearance of an individual data point. If you use the menu to display this dialog, you are prompted to identify which data point you want to format.

For information about the options on a specific tab of the Format Data Point dialog box, select the tab name from the following list.

[Options](#)

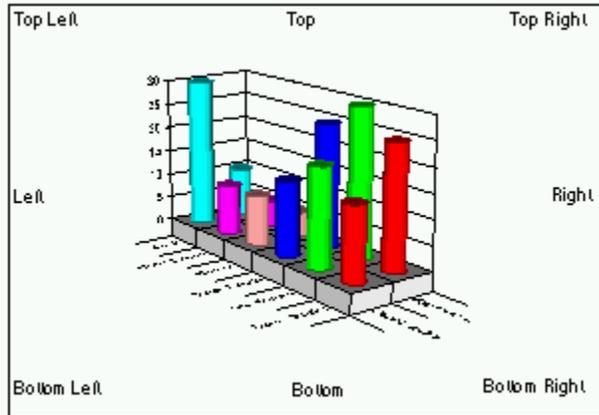
[Fill](#)

[Markers](#)

Format Data Point Options Tab

[See Also](#)

The option on this tab controls whether or not the current data point uses the series display defaults.



Use Series Defaults Check box. Check this box to use the display formats assigned to the current series to display this data point. Uncheck this checkbox to enable the other tabs in this dialog box, allowing you to set specific fill, line or marker formats for the current data point.

See Also

[Fill](#) Tab

[Line](#) Tab

[Marker](#) Tab

Format Data Point Label Dialog Box

This dialog box controls the text or value used to label a data point, as well as the font, format, position and backdrop used to display the label

For information about the options on a specific tab of the Format Data Point Label dialog box, select the tab name from the following list.

[Options](#)

[Text](#)

[Font](#)

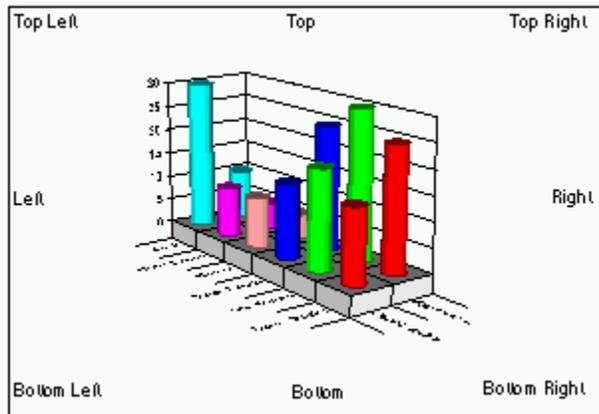
[Backdrop](#)

[Value Format](#)

[Percent Format](#)

Format Data Point Label Options Tab

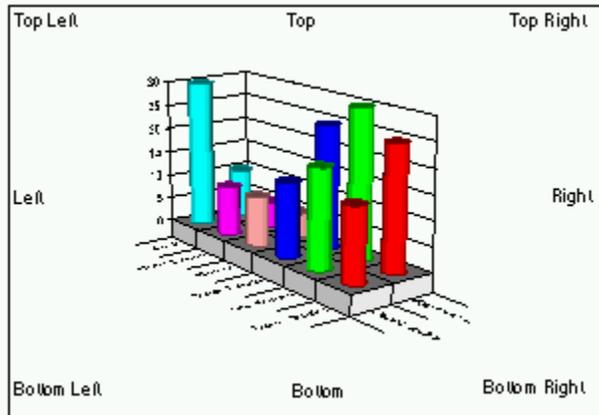
The Options tab controls the position of the data point label and the line style used to connect the label to the data point.



Location. Select a location to display the label

in relation to the data point.

Locations	Description
None	No label displayed.
Above Point	The label is displayed above the data point. This location is only valid for bar, line, area, step, XY, polar, radar, and bubble charts.
Below Point	The label is displayed below the data point. This location is only valid for bar, line, area, step, XY, polar, radar, and bubble charts.
Center	The label is displayed centered on the data point. This location is only valid for bar, line, area, and step charts.
Base	The label is displayed along the category axis, directly beneath the data point. This location is only valid for bar, line, area, and step charts.
Inside	The label is displayed inside a pie or doughnut slice.
Outside	The label is displayed outside a pie or doughnut slice.
Left	The label is displayed to the left of the data point. This location is only valid for XY, polar, radar, and bubble charts.
Right	The label is displayed to the right of the data point. This location is only valid for XY, polar, radar, and bubble charts.



Label Line Style. You can specify a line type

that connects the label and the slice.

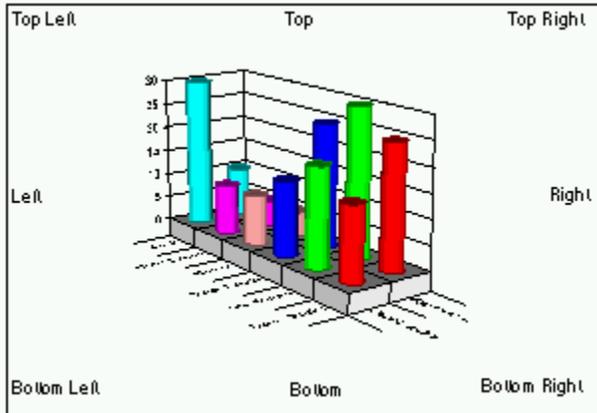
Line Styles	Description
-------------	-------------

None	No line connects the label and series.
Line	A straight line connects the label and data point.
Angle line	An angled line connects the label and data point.

Format Data Point Label Text Tab

The options on this Text tab to control the type of label displayed on the data point.

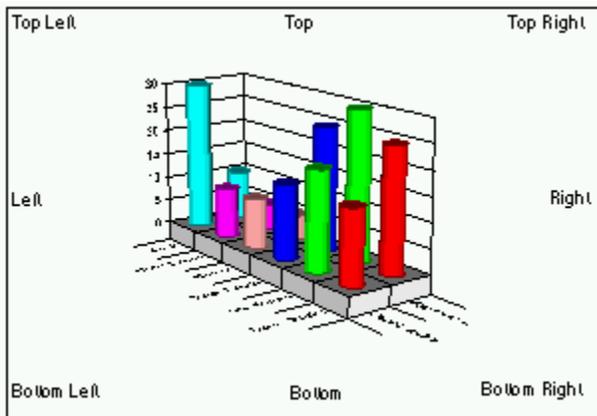
You can use a data points value, value as a percent, data point name, or series name as a label. Alternatively, you can type in text for your own custom data point label.



Automatic. Select this radio button to have First

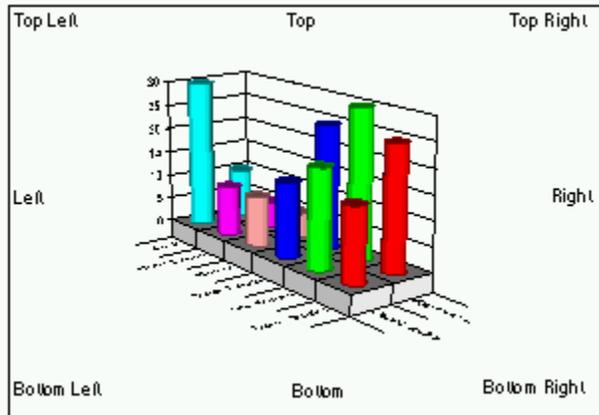
Impression automatically create a label for you. Check one or more of the label types described in the following table. If you select more than one type, the labels are stacked on top of each other..

Type	Description
Value	The value of the data point appears in the label.
Percent	The value of the data point is displayed in the label as a percentage according to the axis percent basis.
Series Name	The series name is used to label the data point.
Data Point Name	The category name is used to label the data point.



Custom. Select this radio button to enter

custom label text in the Text field.



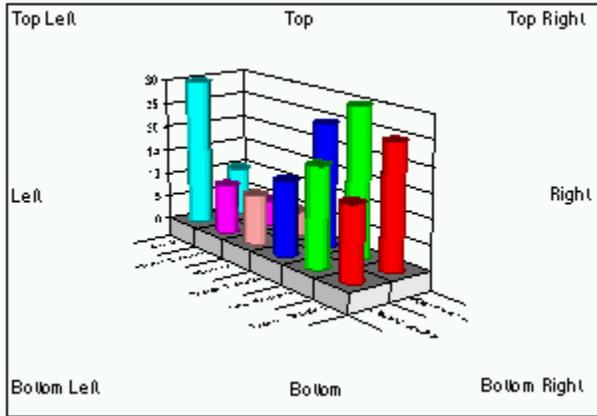
Text. Enter the custom label text in this field.

Use CTRL + ENTER to force text to another line.

Specific information about using the alignment and orientation options are discussed on the [Text](#) tab.

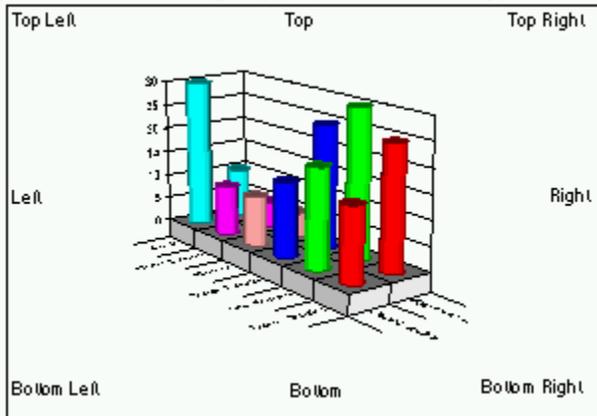
Format Data Point Label Value Format Tab

The options on this tab control the format mask used if the data point label is displayed as a value.



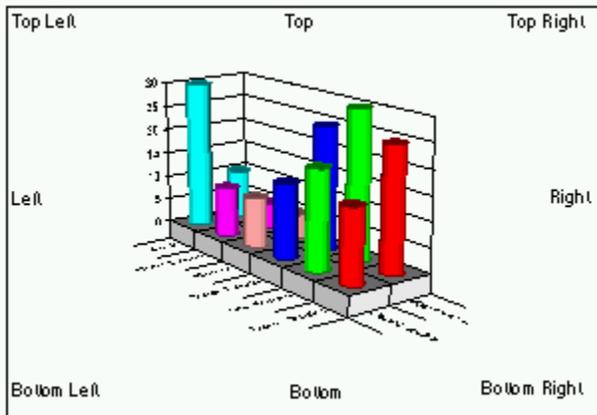
Category. Select a category to display a list of

preset format strings appropriate for that type of data in the Format Code list box.



Format Code. Select one of the predefined

strings.

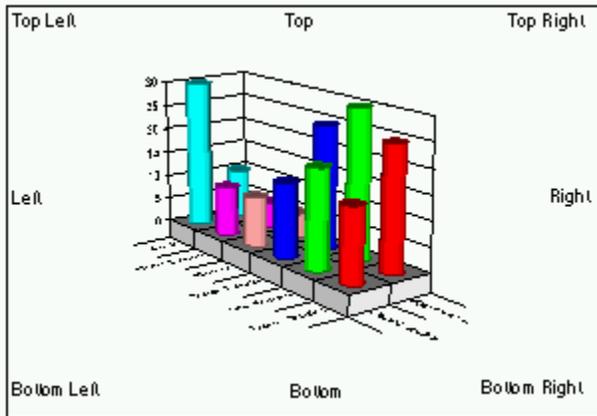


Custom. Enter valid format symbols in this field

to create your own custom format. A complete discussion of the valid format symbols is presented in the discussion of the [Axis Label Format Code Tab](#).

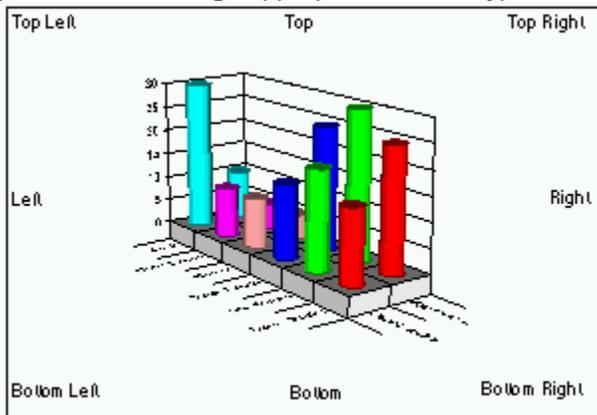
Format Data Point Label Percent Format Tab

The options on this tab control the format mask used if the data point label is displayed as a percent.



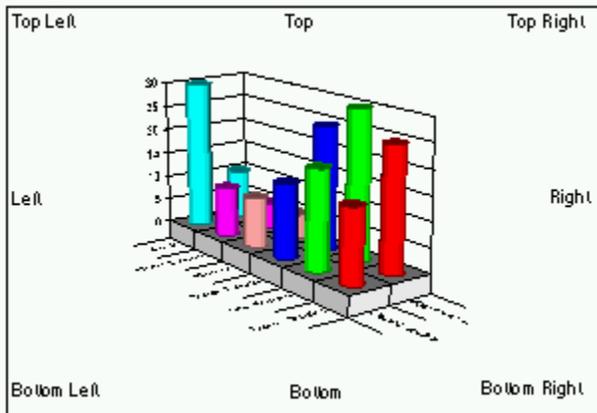
Category. Select a category to display a list of

preset format strings appropriate for that type of data in the Format Code list box.



Format Code. Select one of the predefined

strings.



Custom. Enter valid format symbols in this field

to create your own custom format. A complete discussion of the valid format symbols is presented in the discussion of the [Axis Label Format Code Tab](#).

Format Axis Dialog Box

This dialog box controls the display of various axes, the scale of various types of axes, and the appearance of the axis grid and axis ticks. If you use the menu to display this dialog, you are prompted to specify which axis you want to format.

For information about the options on a specific tab of the Format Axis dialog box, select the tab name from the following list.

[Options](#)

[Grid](#)

[Scale - Category Axis](#)

[Scale - Date Axis](#)

[Scale - Value Axis](#)

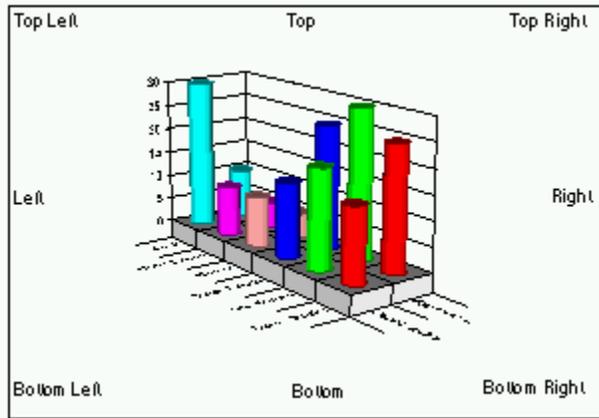
[Polar Axis](#)

[Radar Axis](#)

[Ticks](#)

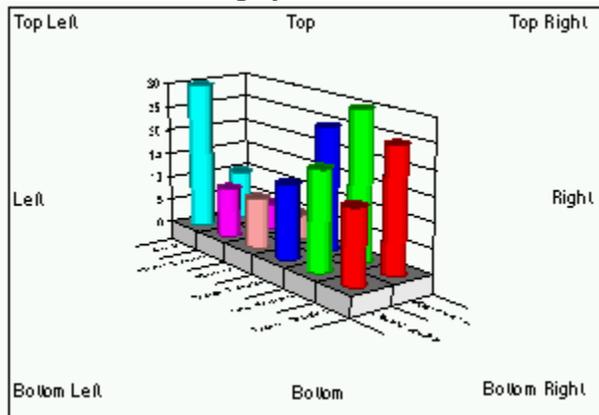
Format Axis Options Tab

The options on this tab control the line width and color of the axis line and tick marks.



Width. Select a predefined width from the list, or

click Custom to assign your own width.

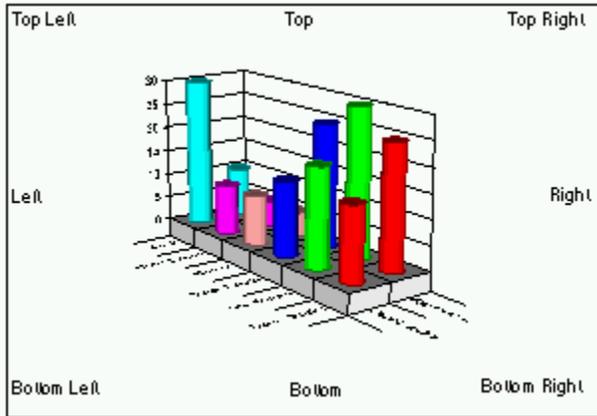


Color. Click the control to display the Color

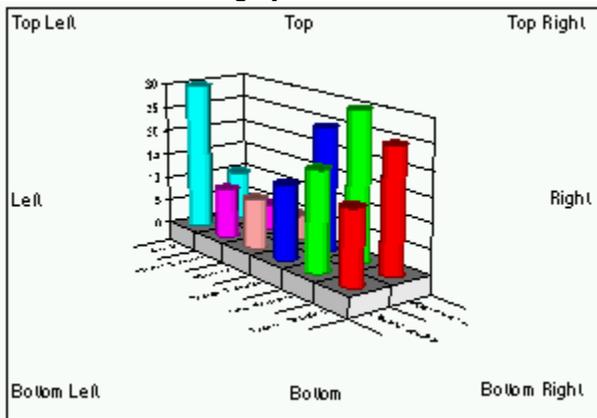
Picker. Select a predefined color, or click Custom to mix your own color.

Format Axis Grid Tab

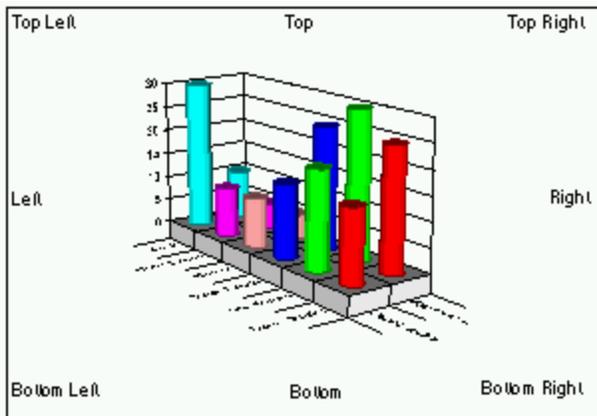
The options on the Grid tab control the color, line style, and line thickness used to display the major and minor grid lines on the chart. You may want to have different line widths, colors, or styles represent the major and minor grid to make it easier to tell them apart on the chart.



Width. Select a predefined width from the list or click Custom to design your own width.



Style. Select a line style from the list.

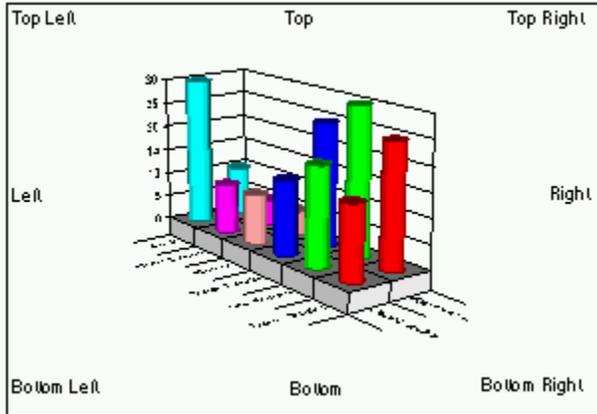


Color. Click the control to display the Color Picker. Select a predefined color, or click Custom to mix your own color.

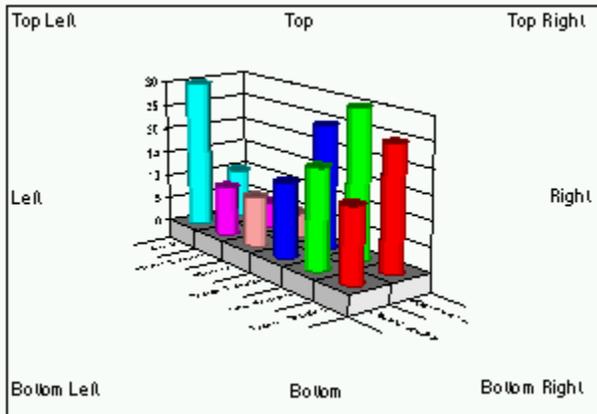
Format Axis Scale Tab - Category Axis

Axis Terminology

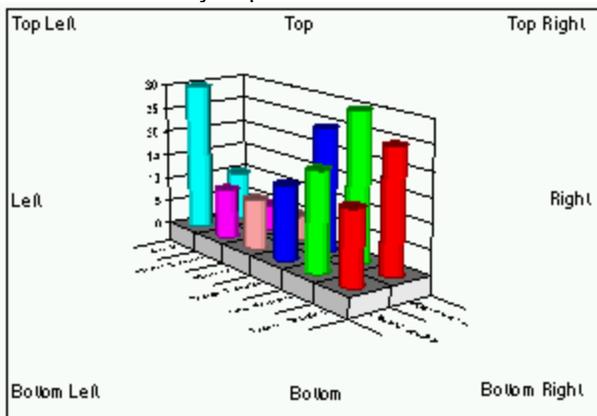
The options in the Scale tab control the display of the axis scale, the frequency of labels and ticks displayed on the axis, and the position in which the axis is drawn.



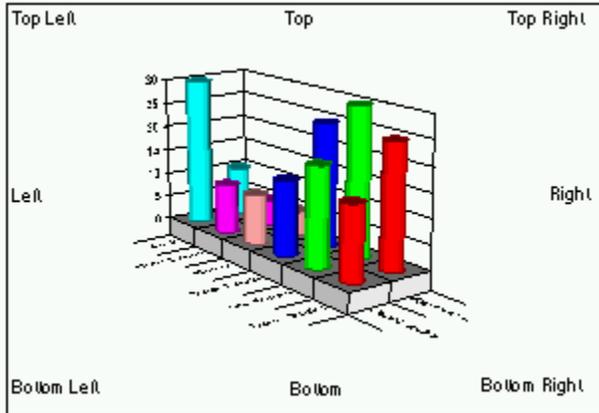
Show Scale. Check this box to display the axis scale, line, ticks, and title on the axis. Uncheck the box to hide the axis elements.



Automatic Scale. Check this box to let First Impression scale the axis based on the data being charted. Uncheck this box to manually scale the axis based on values you provide in the Divisions Per Label and Divisions per Tick options.



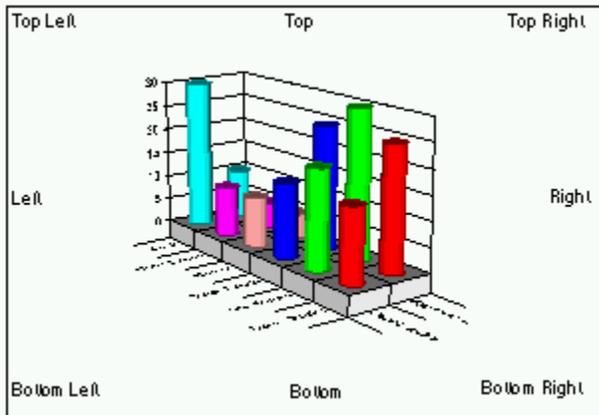
Divisions Per Label. A value of 1 labels every division. A value greater than 1 labels the first division and skips the labels for the extra divisions.



Divisions Per Tick. A value of 1 places a tick

mark at every division. A value greater than 1 places a tick mark at the first division and skips the tick marks for the extra divisions.

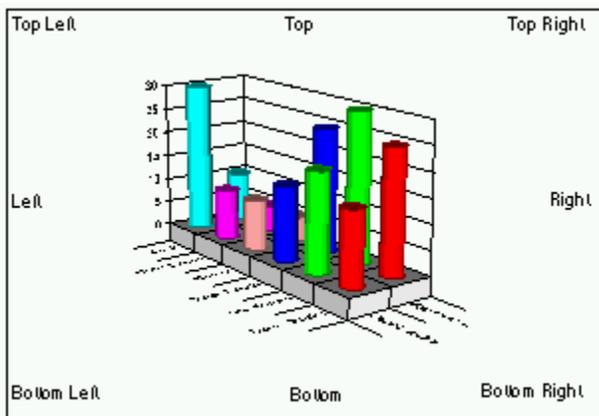
Skipping labels and tick marks can help reduce the clutter of labels that can occur when you have a large number of divisions.



Labels on Tick Marks. Check this box to center

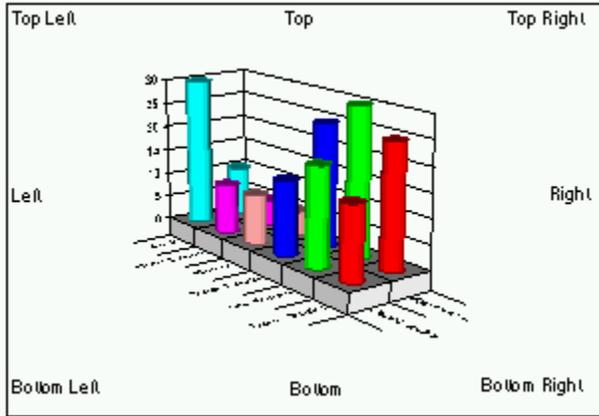
each label on a tick mark. Uncheck this box to center each label between two tick marks.

Axis Intersection

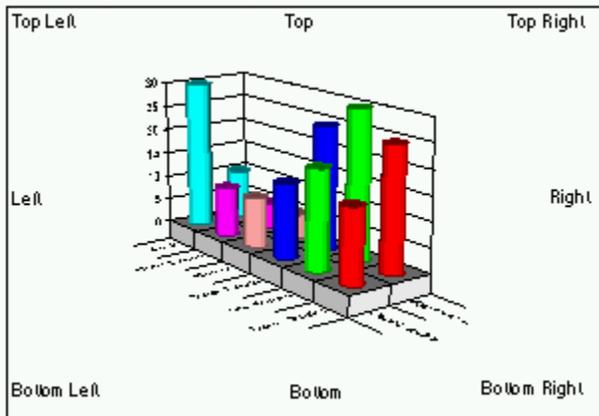


Automatic. Check this box to have the axes

intersect at their usual position. Uncheck this box to enable the Cross At and Labels Inside Plot options to specify where you want the current axis to intersect a perpendicular axis.



Cross At. Enter the position where you want the current axis to cross its intersecting axis. If the intersecting axis is a value axis, enter the value where you want to place the current axis. If the intersecting axis is a date or category axis, enter the division number at which you want to place the current axis.

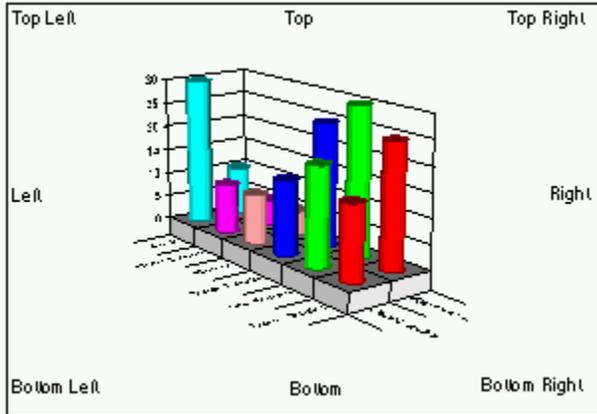


Labels Inside Plot. Check this box to move the axis labels with the axis to the new intersection point. This may cause labels to display on top of the chart plot. Uncheck this box to leave the labels in their original position. Only the axis line and tick marks are drawn at the new intersection point.

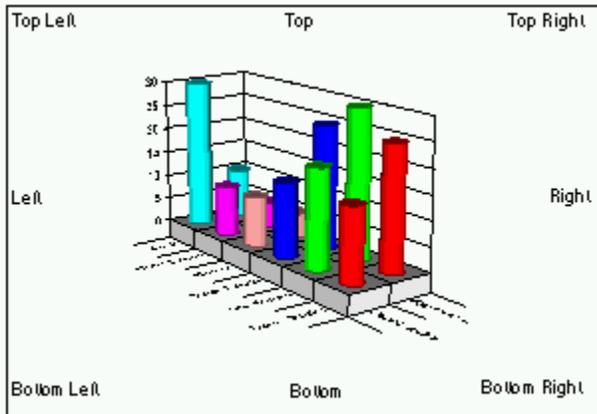
Format Axis Scale Tab - Date Axis

Axis Terminology

The options in the Scale tab control the display of the axis scale, the axis values and intervals, and the position in which the axis is drawn.

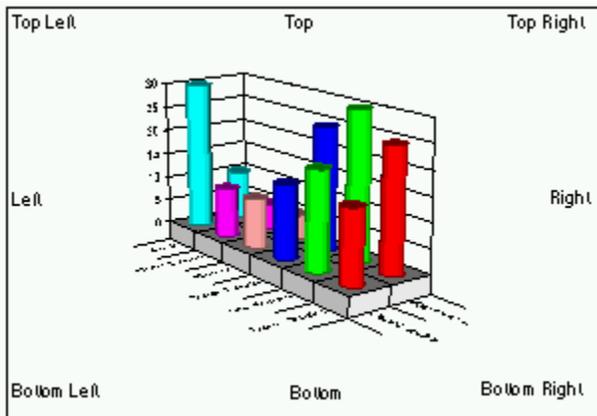


Show Scale. Check this box to display the axis scale, line, ticks, and title on the axis. Uncheck the box to hide the axis elements.



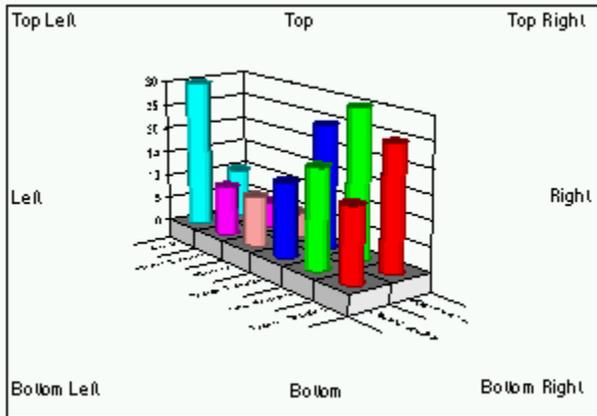
Automatic Scale. Check this box to let First Impression scale the axis based on the minimum and maximum values in the data being charted. Uncheck this box to manually scale the axis based on values you provide.

If you uncheck the Automatic Scale check box, the following four options are enabled so that you can enter values to be used to scale the axis.



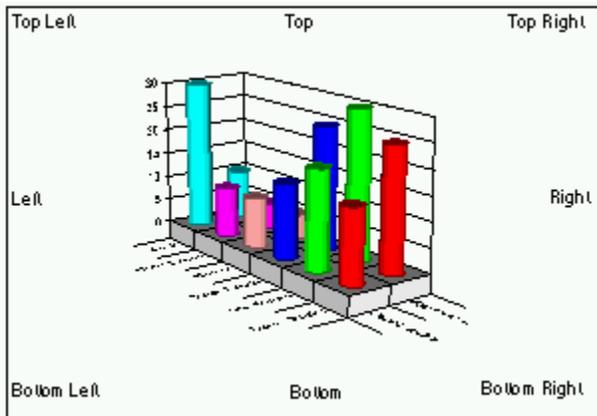
Minimum. Enter the lowest or beginning date for

the axis.



Maximum. Enter the highest or ending date for

the axis scale.



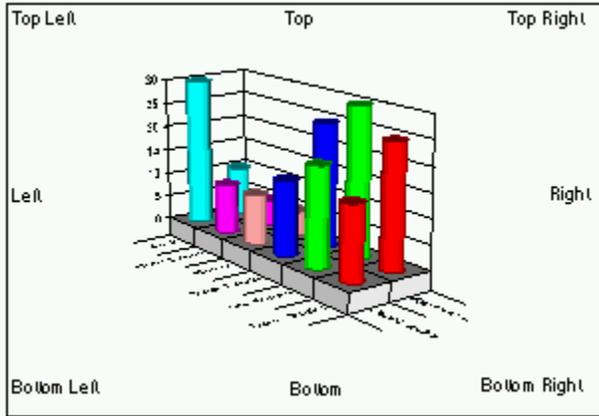
Major Interval and Minor Interval. For each of

these intervals, enter a number to specify how many intervals pass before a tick mark is placed on the axis. Then, select an interval type from the list box.

The major ticks and grid lines appear at major intervals, and the minor ticks and grid lines appear at minor intervals. Axis labels are drawn at major intervals. The following table describes the settings for these options.

Type	Description
None	No Interval.
Days	A tick mark occurs each day.
Weeks	A tick mark occurs Monday of each week.
Semi-months	A tick mark occurs on the 1st and 15th day of each month.
Months	A tick mark occurs on the 1st of each month.
Years	A tick mark occurs on January 1 of each year.

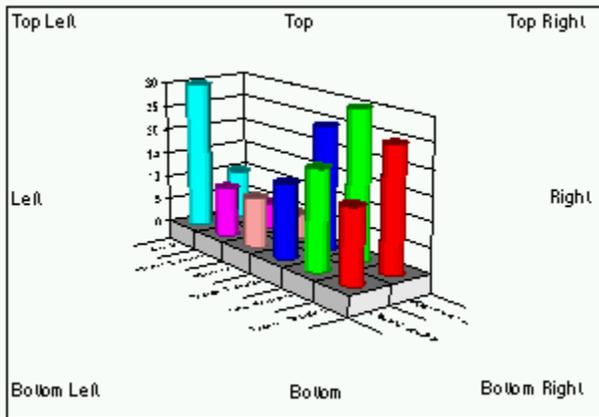
For example, to create a quarterly scale, set the interval to 3 months.



the first level of axis labels.

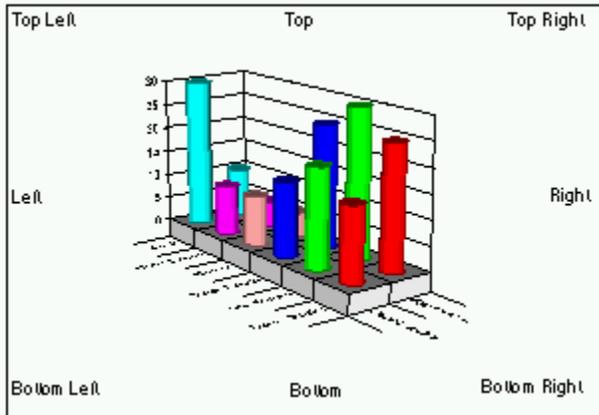
Major Format. Select a date format to display

You can add additional levels of labels to indicate month and year changes on the data axis.



indicate a change of month.

New Month. Select a format to be used to

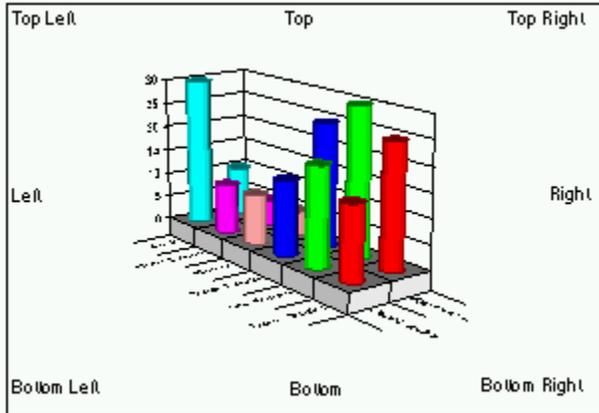


a change of year.

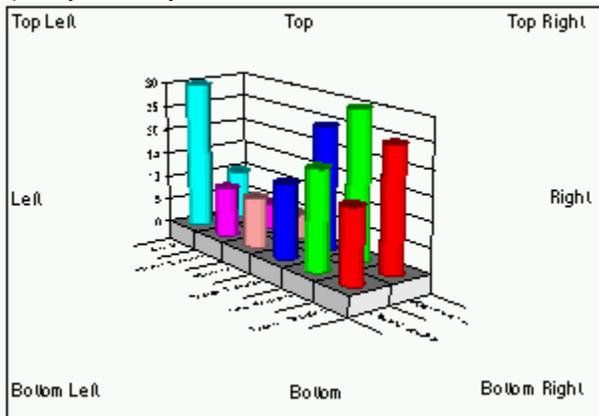
New Year. Select a format to be used to indicate

Note First Impression displays dates in this tab using the Windows environment date format assigned though the Control Panel. A confusing situation can occur when using dates earlier than 1920. If you have your date format set to not show centuries, the scale tab assumes the date displayed is between 1/1/1920 and 12/31/2019. So, if you have a date axis minimum of Jan 1, 1905, displayed as 1/1/05, the dialog will convert it to Jan 1, 2005. The solution is to use centuities in your Windows date format if you want to deal with dates outside the range 1/1/1920 to 12/31/2019.

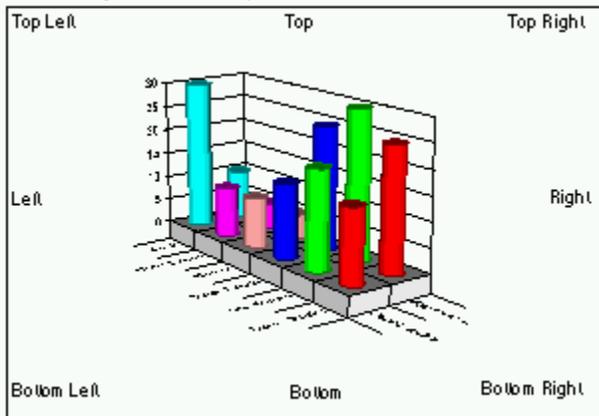
Axis Intersection



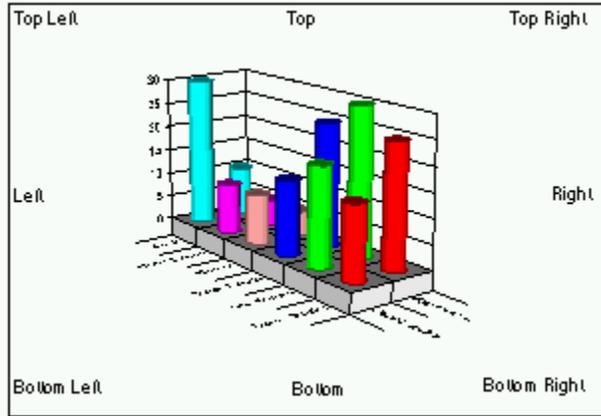
Automatic. Check this box to have the axes intersect at their usual position. Uncheck this box to enable the Cross At and Labels Inside Plot options to specify where you want the current axis to cross an intersecting axis.



Cross At. Enter the position where you want the current axis to cross an intersecting axis. If the intersecting axis is a value axis, enter the value where you want to place the current axis. If the intersecting axis is a date or category axis, enter the division number at which you want to place the current axis.



Labels Inside Plot. If you enter a value in the Axis Intersection option, this check box is enabled. Check this box to move the axis labels with the axis to the new intersection point. This may cause labels to display on top of the chart plot. Uncheck this box to leave the labels in their original position.

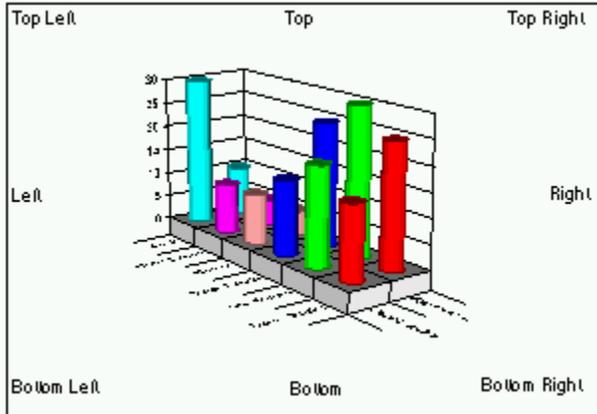


Skip Weekends. Check this box to not display dates that fall on weekends. Uncheck this box to display all dates regardless of day of the week.

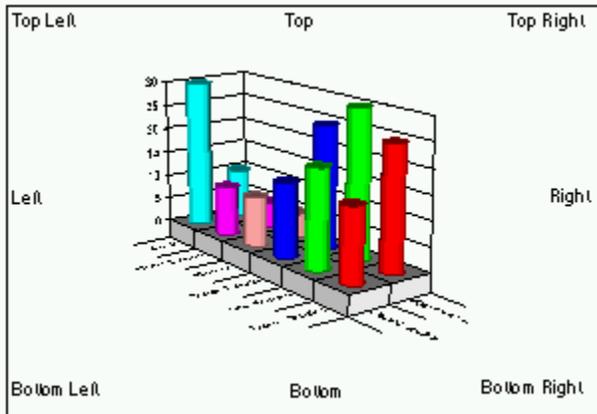
Format Axis Scale Tab - Value Axis

Axis Terminology

The options in the Scale tab control the display of the axis scale, values and number of divisions on the axis, and the position in which the axis is drawn.

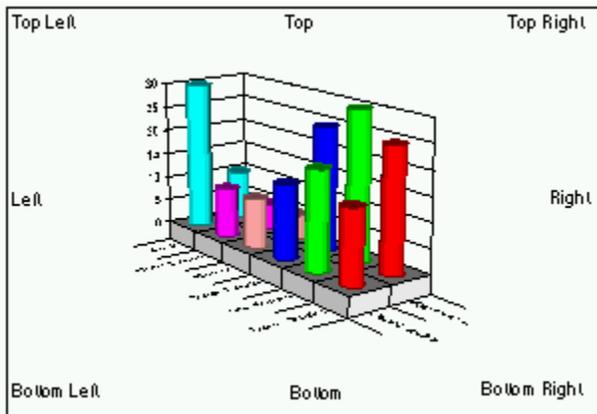


Show Scale. Check this box to display the axis scale, line, ticks, and title on the axis. Uncheck the box to hide the axis elements.



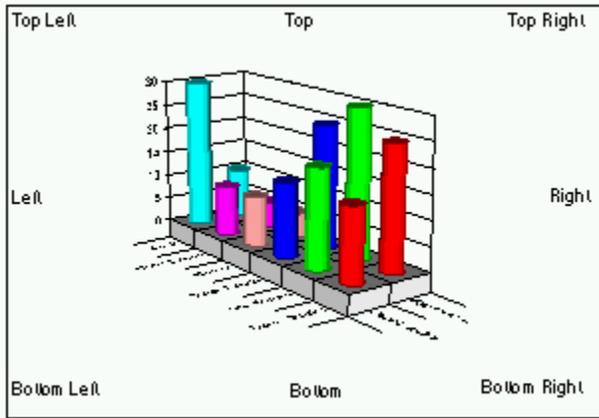
Automatic Scale. Check this box to let First Impression scale the axis based on the minimum and maximum values in the data being charted. Uncheck this box to manually scale the axis based on values you provide

If you uncheck the Automatic Scale check box, the following four options are enabled so that you can enter values to be used to scale the axis.



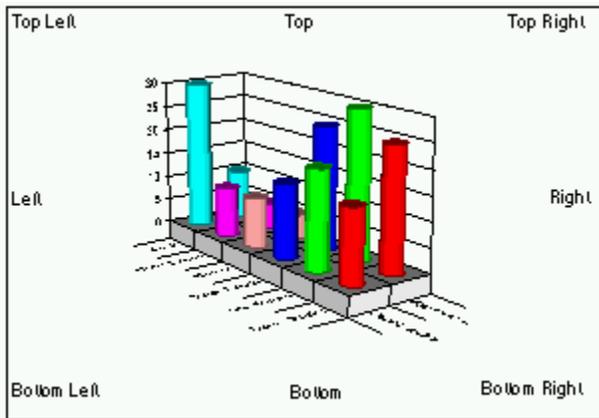
Minimum. Enter the lowest or beginning value

for the scale.

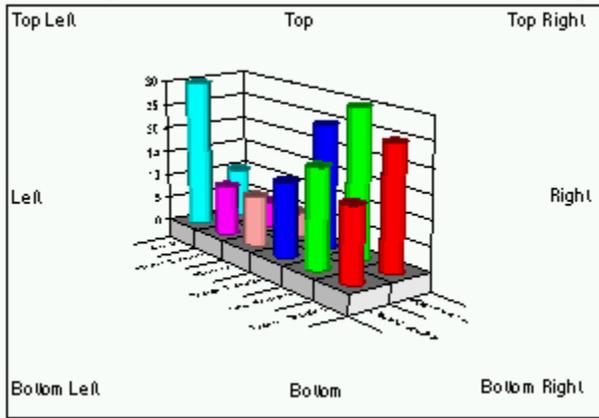


Maximum. Enter the highest or ending value for

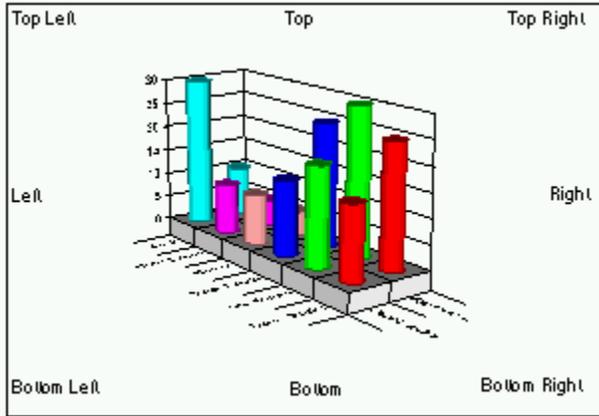
the scale.



Major Divisions. Enter the number of major divisions you want on the axis. Axis labels are only displayed on major divisions.



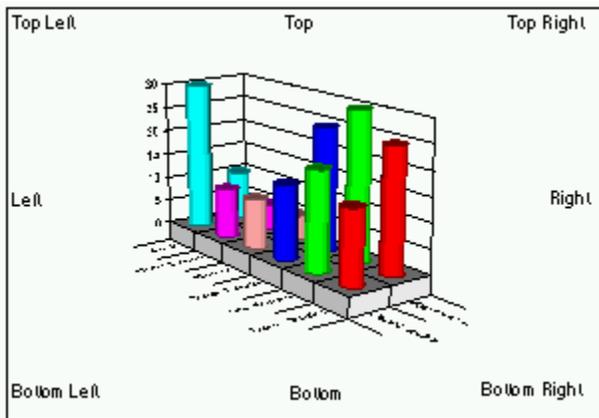
Minor Divisions. Enter the number of minor divisions you want between each major division of the axis.



Type. Select the type of scale you want to use

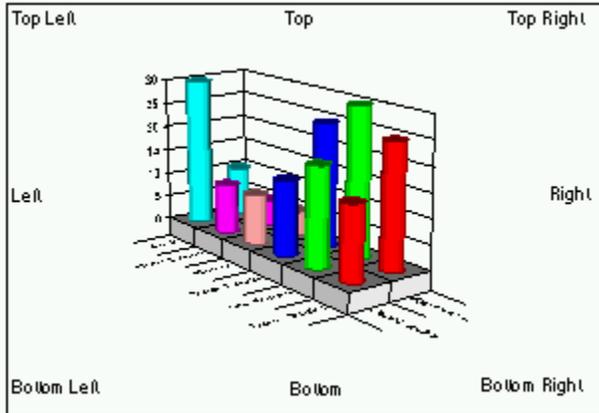
on the axis. The following table describes the types of axis scaling

Type	Description
Linear	Data points are plotted in a linear scale with values ranging from the minimum to the maximum chart value. This is the default scale type.
Logarithmic	Data points are plotted in a logarithmic scale with values based on a specific log scale. Logarithmic axes are not appropriate for zero or negative data.
Percent	Data points are plotted in a linear scale as percentages of the chart values. Changing the percent basis of a chart is useful for determining overall trends in data rather than specific values.



Log Base. Enter the logarithm base to be used

for a logarithmic scale axis. The default base is 10.

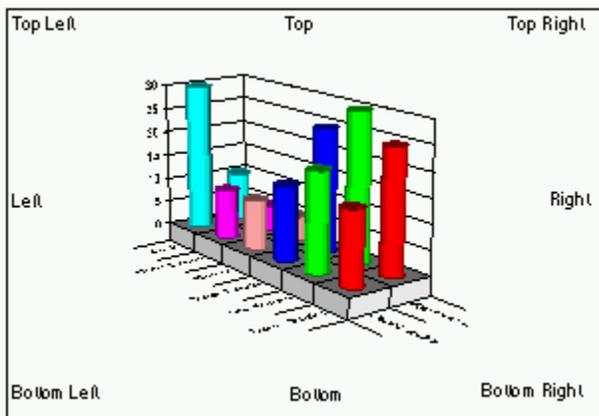


Percent Basis. If you select Percent as the axis

type, you can choose one of the following methods of calculating the percentages.

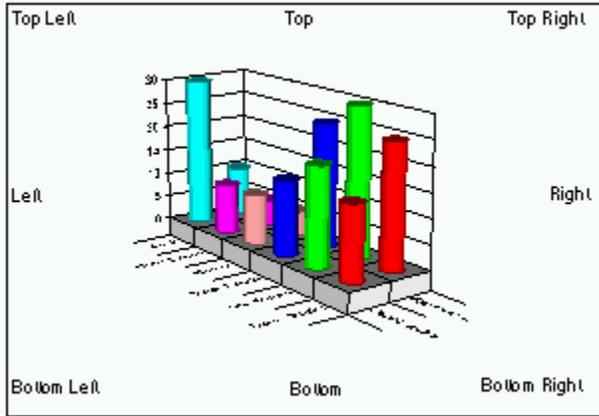
Constant	Description
Chart Maximum	The largest value in the chart is considered 100 percent and all other values on the chart are displayed as percentages of that value.
Category Maximum	The largest value in each category is considered 100 percent and all other values in that category are displayed as percentages of that value.
Series Maximum	The largest value in each series is considered 100 percent and all other values in that series are displayed as percentages of that value.
Chart Total	All values in the chart are added together, and that value is considered 100 percent. All values in the chart are displayed as percentages of that value.
Category Total	All values in each category are added together to give a total value for each category. All values are displayed as a percentage of their category total.
Series Total	All values in each series are added together to give a total value for each series. All values are displayed as a percentage of their series total.

Axis Intersection

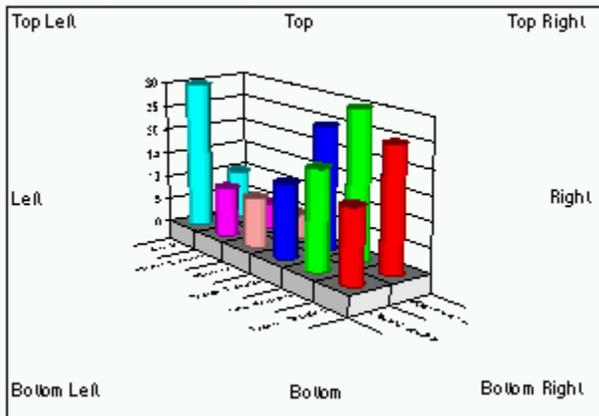


Automatic. Check this box to have the axes

intersect at their usual position. Uncheck this box to enable the Cross At and Labels Inside Plot options to specify where you want the current axis to cross the intersecting axis.



Cross At. Enter the position where you want the current axis to cross an intersecting axis. If the intersecting axis is a value axis, enter the value where you want to place the current axis. If the intersecting axis is a date or category axis, enter the division number at which you want to place the current axis.



Labels Inside Plot. Check this box to move the axis labels with the axis to the new intersection point. This may cause labels to display on top of the chart plot. Uncheck this box to leave the labels in their original position. Only the axis line and tick marks are drawn at the new intersection point.

Format Axis Scaling Tab - Radar Axis

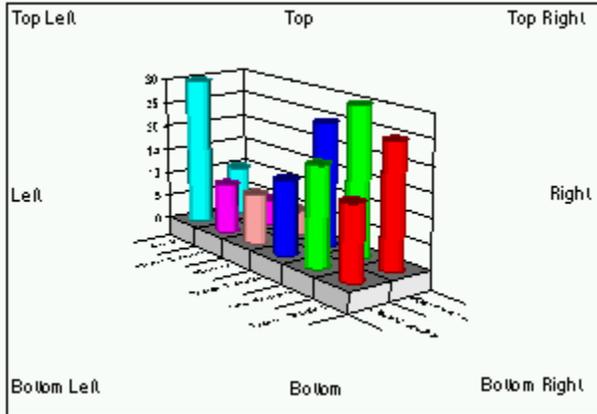
[Axis Terminology](#)

The only scaling change you can make for a radar axis is to turn the display of the axis on or off. Unchecking the Show Scale check box turns off the category labels at the end of each value axis. The value axes on a radar chart can be formatted like any other value axis.

Format Axis Scaling Tab -Polar Axis

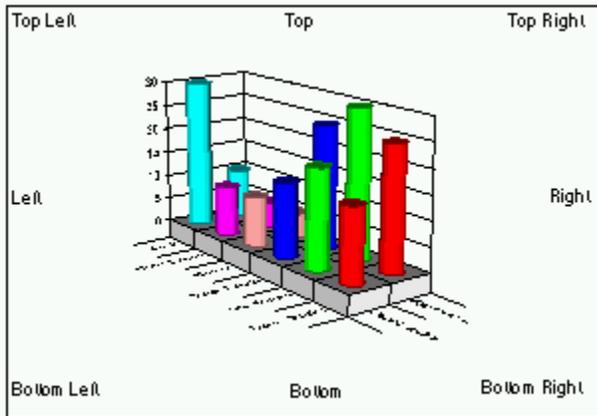
Axis Terminology

The radius axis on a polar chart can be formatted just like any other value axis. Scaling the polar axis allows you to control the number of radial grid lines and labels that are displayed around the perimeter of the chart. The Scale tab provides the following options for the polar axis.

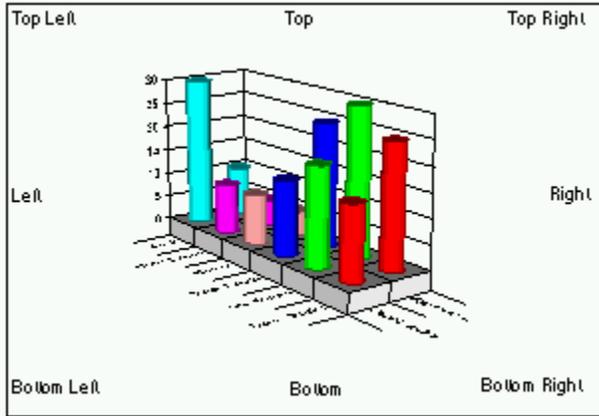


Automatic Scale. Check this box to let First Impression scale the axis based on the data being charted. Uncheck this box to manually scale the axis based on values you provide.

If you uncheck the Automatic Scale check box, the following four options are enabled so that you can enter values to be used to scale the axis.



Major Divisions. Enter the number of major divisions you want on the axis. Radial grid lines for major divisions extend to the center of the chart.

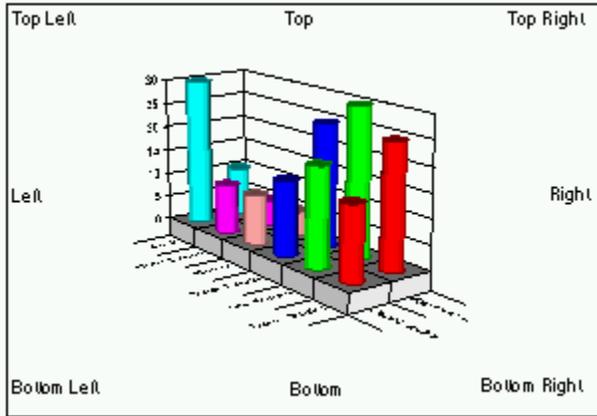


Minor Divisions. Enter the number of minor divisions you want between each major division of the axis. Radial grid lines for minor divisions extend from the first division of the value axis to the perimeter of the chart.

Axis labels are drawn at both major and minor divisions.

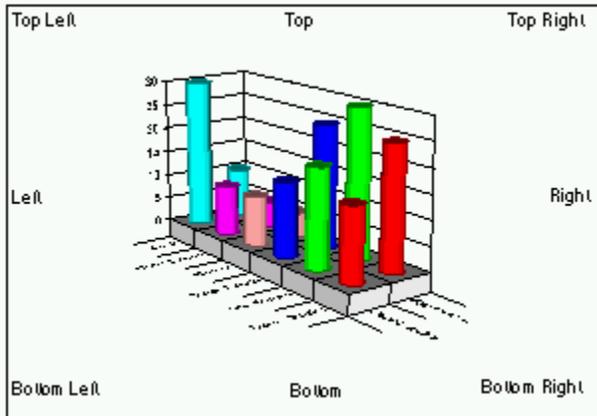
Format Axis Ticks

The options on this tab control the appearance of axis ticks.



Length. Enter the length of the major tick marks

in points. Minor tick marks are drawn at half this length.



Location. Select a style from the list box to

specify the position of the tick on the axis. The following table describes available settings.

Style	Description
None	No tick marks are displayed on the axis.
Center	Tick marks are centered across the axis.
Inside	Tick marks are displayed inside the axis.
Outside	Tick marks are displayed outside the axis.

Format Axis Label Dialog Box

[Formatting Axis Labels](#)

This dialog box controls the position of axis labels, and the backdrop, font, and format used to display them. If you use the menu to display this dialog, you are prompted to specify which axis you want to format.

For information about the options on a specific tab of the Format Axis Labels dialog box, select the tab name from the following list.

[Backdrop](#)

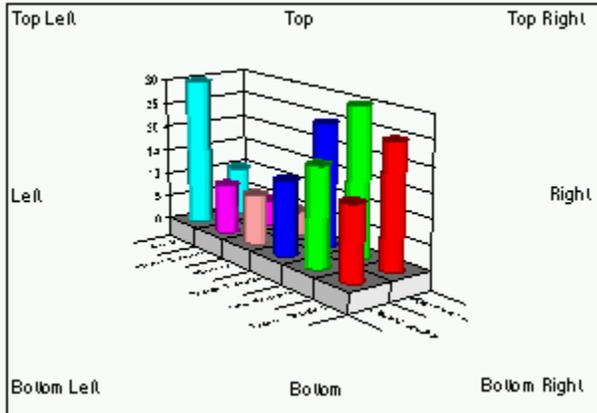
[Text](#)

[Font](#)

[Format Code](#)

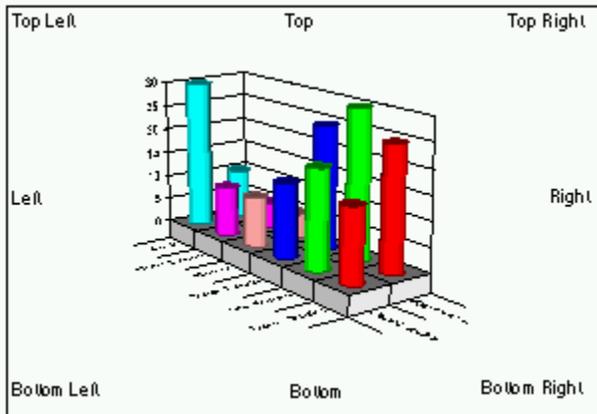
Format Axis Labels Text Tab

The options in the Text tab of the Format Axis Label dialog box control the alignment and orientation used to display the axis labels.



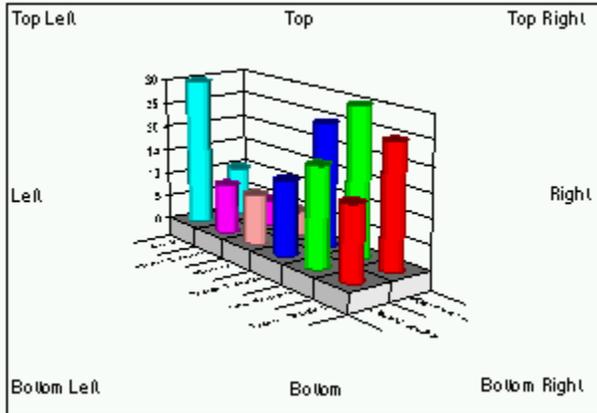
Automatic. Check this box to allow First Impression to rotate the labels if necessary to optimize the chart layout. Uncheck this box to set a specific horizontal and vertical alignment and orientation for the label text.

The Horizontal, Vertical, and Orientation sections of the dialog box are enabled if you uncheck the Automatic check box. The horizontal and vertical alignment refer to how the text is aligned within each division.



Horizontal Alignment. The following table describes the horizontal alignment options for label text.

Alignment	Description
Left	Each label is aligned at the left edge of the division.
Right	Each label is aligned at the right edge of the division.
Center	Each label is centered horizontally within the division.

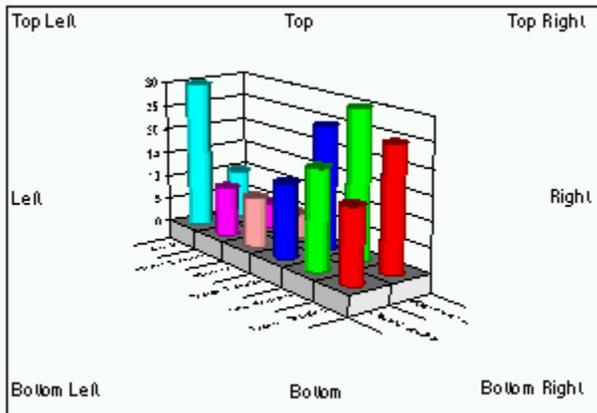


Vertical Alignment. The following table describes

the vertical alignment options for label text.

Alignment	Description
-----------	-------------

Top	Each label is aligned at the top of the division.
Bottom	Each label is aligned at the bottom of the division.
Center	Each label is centered vertically within the division.



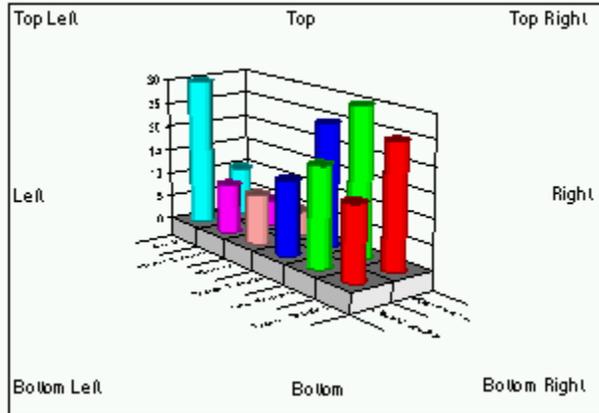
Orientation. The following table describes the

orientation options for label text.

Orientation	Description
-------------	-------------

Horizontal	The text is displayed horizontally along the direction of the axis.
Vertical	The text is displayed, one letter stacked on top of each other, reading from top to bottom.
Up	The text is rotated so its right edge is next to the axis.
Down	The text is rotated so its left edge is next to the axis.

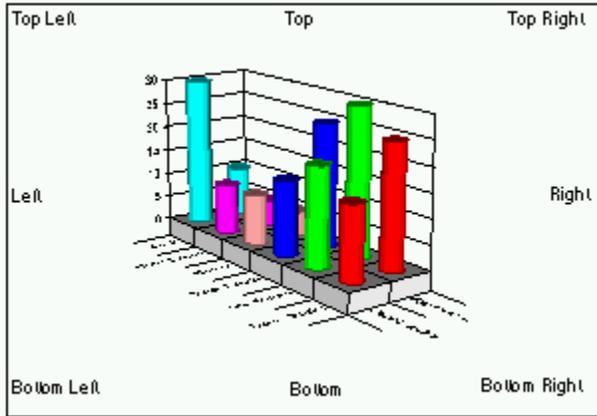
Note When you rotate text up or down, the vertical and horizontal alignment are still relative to the text and not to the chart. In other words, text displayed with up orientation and right alignment is actually flush against the axis, not the left side of the division.



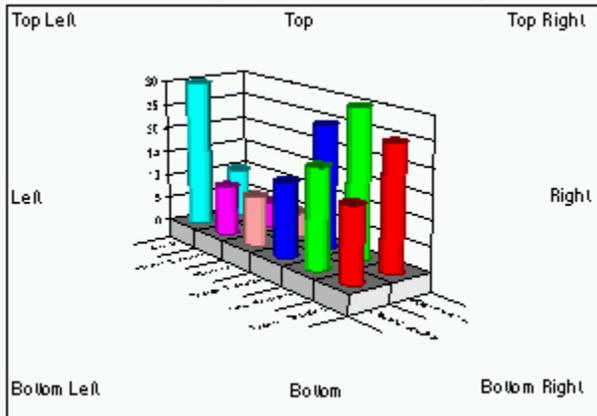
Standing. On 3D charts, check this box to rotate labels up on the text baseline to stand in the Y plane. Standing text can make the labels more legible if you are viewing the chart at very low elevations. This option applies only to labels on an X or Z axis on most charts, and the Y axis on horizontal charts.. Uncheck this box to return labels to their standard position in the X or Z plane.

Format Axis Labels Format Code Tab

The options in the Format Code tab specify the mask used to display the label value or text.



Category. Select a category to display a list of preset format strings appropriate for the type of label in the Format Codes list box.



Format Code. Select one of the predefined strings. The following table lists the built-in number formats and the results if the format is applied to a positive, negative, and decimal number.

Category	Format	3	-3	.3
All	General	3	-3	.3
Fixed	0	3	-3	0
	0.00	3.00	-3.00	0.30
	###0	3	-3	0
	###0.00	3.00	-3.00	0.30
	###0_);(###0)	3	(3)	0
	###0_);[RED](###0)	3	(3) in red	0
	###0.00_);(###0.00)	3.00	(3.00)	0.30
	###0.00_);[RED](###0.00)	3.00	(3.00) in red	0.30

Currency	#,##0_);(\$#,##0)	\$3	(\$3)	\$0
	#,##0_);[RED](\$#,##0)	\$3	(\$3) in red	\$0
	#,##0.00_);(\$#,##0.00)	\$3.00	(\$3.00)	\$0.30
	#,##0.00_);[RED]\$(#,##0.00)\$3.00	(\$3.00) in red	\$0.30	
Percentage	0%	300%	-300%	30%
	0.0%	300.0%	-300.0%	30.0%
	0.00%	300.00%	-300.00%	30.00%
Fraction	# ?/?	3	-3	2/7
	# ??/??	3	-3	3/10
Scientific	0.00E+00	3.00E+00	-3.00E+00	3.00E-01
	##0.0E+0	3.0E+0	-3.0E+0	3.0E-01

The following table lists the built-in date and time formats and the result of applying the format.

Category	Format	Result
Date	m/d/y	2/3/94
	d-mmm-yy	3-Feb-94
	d-mmm	3-Feb
	mmm-yy	Feb 94
	m/d/y h:mm	2/3/94 6:15
Time	h:mm AM/PM	3:29 PM
	h:mm:ss AM/PM	3:29:41 PM
	h:mm	15:29
	h:mm:ss	15:29:41
	mm:ss	29:41
	[h]:mm:ss	29:09:33

\$ - + / () : space	Displays that character. To display a character other than those listed, precede the character with a back slash (\) or enclose the character in double quotation marks (" "). You can also use the slash (/) for fraction formats.
\	Displays the next character. The backslash is not displayed. You can also display a character or string of characters by surrounding the characters with double quotation marks (" ").
* (asterisk)	Repeats the next character until the width of the column is filled. You cannot have more than one asterisk in each format section.
_ (underline)	Skips the width of the next character. For example, to make negative numbers surrounded by parentheses align with positive numbers, you can include the format _) for positive numbers to skip the width of a parenthesis.
"text"	Displays the text inside the quotation marks.
@	Text placeholder. Text replaces the @ format character.
m	Month number. Displays the month as digits without leading zeros (e.g., 1-12). Can also represent minutes when used with h or hh formats.
mm	Month number. Displays the month as digits with leading zeros (e.g., 01-12). Can also represent minutes when used with the h or hh formats.
mmm	Month abbreviation. Displays the month as an abbreviation (e.g., Jan-Dec).
mmmm	Month name. Displays the month as a full name (e.g., January-December).
d	Day number. Displays the day as digits with no leading zero (e.g., 1-9).
dd	Day number. Displays the day as digits with leading zeros (e.g., 01-31).
ddd	Day abbreviation. Displays the day as an abbreviation (e.g., Sun-Sat).
dddd	Day name. Displays the day as a full name (e.g., Sunday-Saturday).
yy	Year number. Displays the year as a two-digit number (e.g., 00-99).
yyyy	Year number. Displays the year as a four-digit number (e.g., 1900-2078).
h	Hour number. Displays the hour as a number without leading zeros (1-23). If the format contains one of the AM or PM formats, the hour is based on a 12-hour clock. Otherwise, it is based on a 24-hour clock.
hh	Hour number. Displays the hour as a number with leading zeros (01-23). If the format contains one of the AM or PM formats, the hour is based on a 12-hour clock. Otherwise, it is based on a 24-hour clock.
m	Minute number. Displays the minute as a number without leading zeros (0-59). The m format must appear immediately after the h or hh symbol. Otherwise, it is interpreted as a month number.

mm	Minute number. Displays the minute as a number with leading zeros (00-59). The mm format must appear immediately after the h or hh symbol. Otherwise, it is interpreted as a month number.
s	Second number. Displays the second as a number without leading zeros (0-59).
ss	Second number. Displays the second as a number with leading zeros (00-59).
AM/PM	
am/pm	
A/P	
a/p	12-hour time. Displays time using a 12-hour clock. Displays AM, am, A, or a for times between midnight and noon; displays PM, pm, P, or p for times from noon until midnight.
[BLACK]	Displays text in black.
[BLUE]	Displays text in blue.
[CYAN]	Displays text in cyan.
[GREEN]	Displays text in green.
[MAGENTA]	Displays text in magenta.
[RED]	Displays text in red.
[WHITE]	Displays text in white.
[YELLOW]	Displays text in yellow.
[COLOR n]	Displays text using the corresponding color in the color palette. n is an index to a color in the color palette.

Format Axis Title Dialog Box

[Formatting Axis Titles](#)

This dialog box controls the text used as a title for the axis chart. It also controls the font and backdrop used to display the title. If you use the menu to display this dialog, you are prompted to specify which axis you want to format.

For information about the options on a specific tab of the Format Axis Title Dialog Box select the tab name from the following list.

[Text](#)

[Backdrop](#)

[Font](#)

Format Legend Dialog Box

This dialog box controls the positioning and appearance of the chart legend.

For information about the options on a specific tab of the Format Legend dialog box, select the tab name from the following list.

[Backdrop](#)

[Font](#)

[Location](#)

Format Title Dialog Box

This dialog box controls the positioning and appearance of the chart title.

For information about the options on a specific tab of the Format Title dialog box, select the tab name from the following list.

[Backdrop](#)

[Text](#)

[Font](#)

[Location](#)

Format Footnote Dialog Box

This dialog box controls the positioning and appearance of the chart footnote.

For information about the options on a specific tab of the Format Footnote dialog box, select the tab name from the following list.

[Backdrop](#)

[Text](#)

[Font](#)

[Location](#)

Print Dialog Box

This dialog box controls the appearance of the chart when it is printed. For more information about the options on a specific tab of the Print dialog box, select the tab name from the following list.

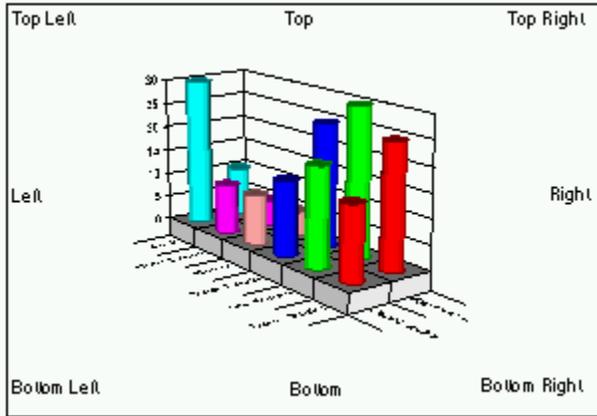
[Print](#)

[Page Setup](#)

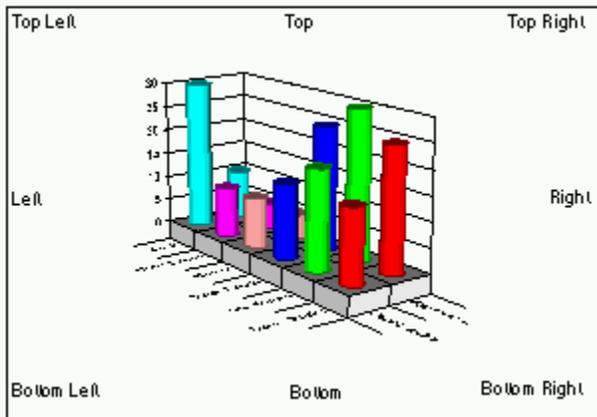
[Print Setup](#)

Print Tab

The options on this tab control the number of copies and layout of the chart you are printing.



Layout. Select Use Screen Layout to print the chart exactly as it appears on the screen. Select Layout for Printer to layout the chart to best fit the page. Chart elements such as axis labels and data points are repositioned as they would be if you had resized the chart on the screen..



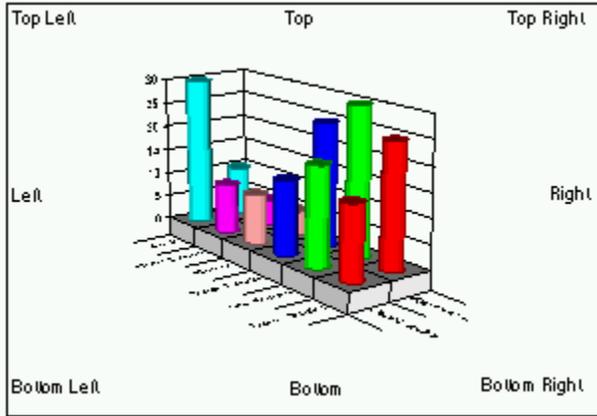
you want printed.

Copies. Enter the number of copies of the chart

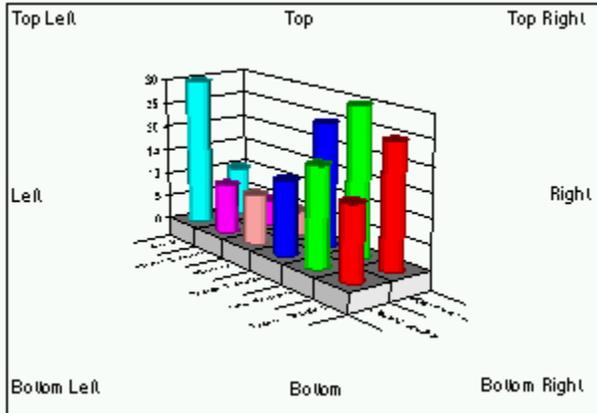
Page Setup Tab

[Printing Charts](#)

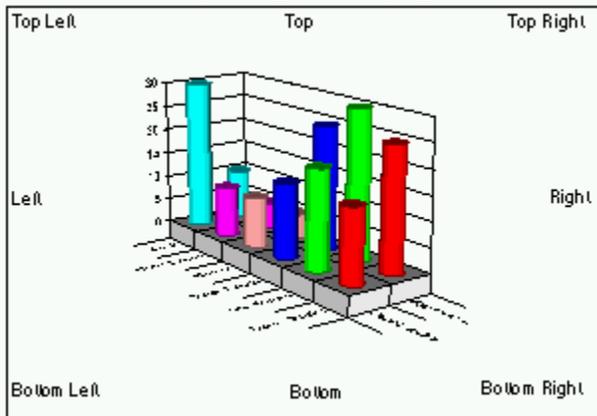
You can use the options on the Page Setup tab to change page margins and control how the chart is positioned on the page.



Size. Select Actual Size to print the chart at the original size it was created. Select Best Fit to scale the chart proportionally to fit the page. Select Stretch to Fit to scale an image of the chart to fit the page, regardless of its original proportions.



Center. Check Center Horizontally to center the chart horizontally on the page. Uncheck Center Horizontally to print the chart at the left margin of the page. Check Center Vertically to center the chart vertically on the page. Uncheck Center Vertically to print the chart at the top margin of the page.



Margins. Enter a value in inches or centimeters, depending on your Windows settings to specify the top, bottom, left, and right margins of the page.

Print Setup Tab

The Print Setup tab provides standard Windows settings for selecting the printer, page orientation, and paper size and source.

Close

Dialog Box Help

[Format Chart Dialog Box](#)

[Format Plot Dialog Box](#)

[Format Series Dialog Box](#)

[Format Series Label Dialog Box](#)

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[Format Axis Dialog Box](#)

[Format Axis Labels Dialog Box](#)

[Format Axis Title Dialog Box](#)

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[Print Dialog Box](#)

Changing the 3D View

3D View Tab

You can change the rotation, elevation, viewing distance, and proportions of a 3D chart using settings on the 3D View tab of the Format Plot dialog box. You can also change the rotation and elevation of a chart interactively.

To change the rotation and elevation of a chart interactively:

1. Place the pointer anywhere in the chart region.
2. Press and hold the CTRL key.

The cursor changes to the rotation cursor.

3. Click and hold the left mouse button.

A dotted bounding box appears around the chart plot. Reference arrows appear at the corner where the first data point in the first series is drawn.

4. Move the pointer up and down to change the chart elevation and right and left to change the chart rotation.

The bounding box shows the position of the chart plot as you move the mouse.

5. When you find the rotation and elevation you want, release the mouse button.

The chart repaints in the new position.

To change the 3D view:

1. Double click the chart plot; or, click the right mouse to display the floating menu and select Plot.
2. Click the 3D View tab.
3. Make any necessary changes and click OK or Apply to redraw the chart reflecting the changes.

Formatting the Base and Walls

[Base and Walls Tab](#)

You can change the colors and patterns applied to the walls of a 2D chart and the walls and base of a 3D chart, the color used to draw the lines in the base and walls, the height of the base and the width of the walls. The width of the walls and height of the base are measured in points.

To format the walls and base:

1. Double click in the chart plot; or, use the right mouse button to display the floating menu and select Plot.
2. Select the Base and Walls tab.
3. Make any necessary changes and click OK or Apply to redraw the chart to reflect the changes.

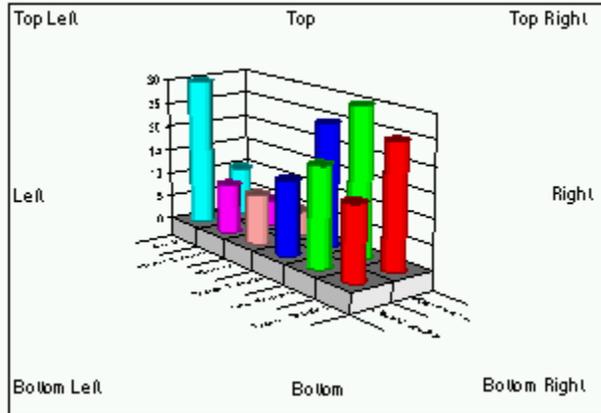
Lighting 3D Charts

[3D Lighting Tab](#)

When light falls on a 3D object some areas of the object are brightly illuminated, and other areas are in shadows. You have complete control of how much light strikes the chart, and from what direction.

To change the lighting on a 3D chart:

1. Double click the chart plot; or, click the right mouse button to display the floating menu and select Plot.
2. Select the 3D Lighting tab.
3. Make any necessary changes and click OK or Apply to redraw the chart to reflect the changes.



Formatting 3D Charts

[Changing the 3D View](#)

[Formatting the Base and Walls](#)

[Lighting 3D Charts](#)

Axis Terminology

There are three types of axes that can appear on a chart: a value axis, a category axis, and a date axis. Category axes have text labels identifying the category or series in the chart. Value axes display numbers as values or percents. Date axes display a range of dates. The following table provides a list of the types of each axis on various chart types.

Chart Type	X	Y	2nd Y	Z
2D Bar	Category	Value	Value	N/A
2D Line				
2D Area				
2D Step				
2D Combination				
3D Bar	Category	Value	Value	Category
3D Line				
3D Area				
3D Step				
3D Combination				
2D and 3D Horizontal Bar	Category	Value	N/A	N/A
2D and 3D Gantt	Category	Date	N/A	N/A
XY	Value	Value	N/A	N/A
Bubble	Value	Value	N/A	N/A
Hi-Lo	Date or Category	Value	Value	N/A
Polar	Angle	Value	N/A	N/A
Radar	Radar	Value	N/A	N/A

Formatting an Axis

[Format Axis Dialog Box](#)

The following discussion provides information for formatting all types of axes.

To format an axis:

1. Double click the axis or use the right mouse button to display the floating menu and select Axis/Axis.

If you use the menu, you must specify which axis you want to format. The Format Axis dialog box is displayed.

2. Make any necessary changes to any axis options and click OK or Apply to redraw the chart. Specific information about the options on each tab are presented in the following material.

Formatting Axis Labels

[Format Axis Labels Dialog Box](#)

You can change the font, font size, orientation, and alignment of axis label text, use a mask to format the text, and create a backdrop for the label. Labels on individual pie charts are actually x axis labels. To format pie chart labels, format the x axis labels on a chart.

To format a set of axis labels:

1. Double click on one of the labels you want to format; or select Axis/Labels to display the Format Axis Labels dialog box.

If you use the menu you are prompted to specify which axis and level of labels you want to format.

The following table describes each of the tabs on the Format Axis Labels dialog box

Tab	Description
Backdrop	Controls the fill, frame, and shadow used to create a backdrop for the axis label.
Text	Controls the orientation and alignment of the axis labels.
Font	Controls the font, font size, font color, font style, and special effects used to display the axis label text.
Format Code	Controls the mask used to display the axis labels.

Axis Titles

[Format Axis Title Dialog Box](#)

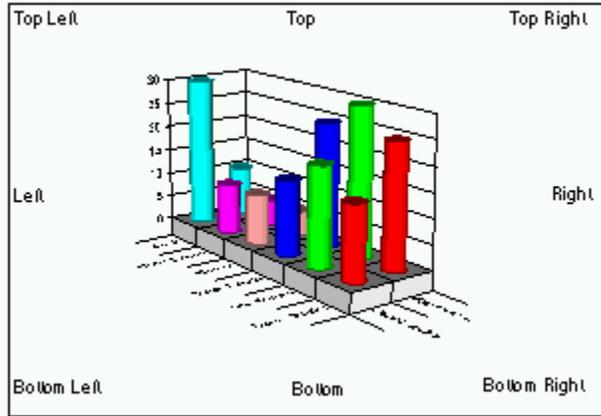
You can add a title for each axis. Axis titles can provide additional information about the axis that helps the viewer interpret the chart.

To create an axis title:

1. Use the right mouse button to display the floating menu.
2. Select Axis/Title to display the Format Axis Title dialog box.
3. Check the Visible check box to display the title.
4. Type the title text in the Text field.
5. Click OK or Apply to redraw the chart to include the new title.

The following table describes each of the tabs on the Format Axis Labels dialog box

Tab	Description
Text	Controls the text used for the axis title as well as the orientation and alignment of the text.
Backdrop	Controls the fill, frame, and shadow used to create a backdrop for the axis title.
Font	Controls the font, font size, font color, font style, and special effects used to display the axis title.



Formatting Axes

[Axis Terminology](#)

[Formatting an Axis](#)

[Formatting Axis Labels](#)

[Axis Titles](#)

Formatting Series

[Format Series Dialog Box](#)

To format a chart series:

1. Double click the series in the chart or the legend key that identifies the series.

The Format Series dialog box is displayed.

Alternatively, you can use the right mouse button to display the floating menu and select Series/Series from the menu. Then, select the series you want to format from the Select Data Series dialog box and click Select.

The Format Series dialog box appears with either the Fill or Line tab selected.

2. When you have made all the formatting changes required for the series, click OK or Apply to redraw the chart to reflect the changes you have made.

Formatting Data Points

[Format Data Point Dialog Box](#)

By default, each data point in a series has the same format. However, there may be times that you want to highlight one or more data points in a series by changing their format.

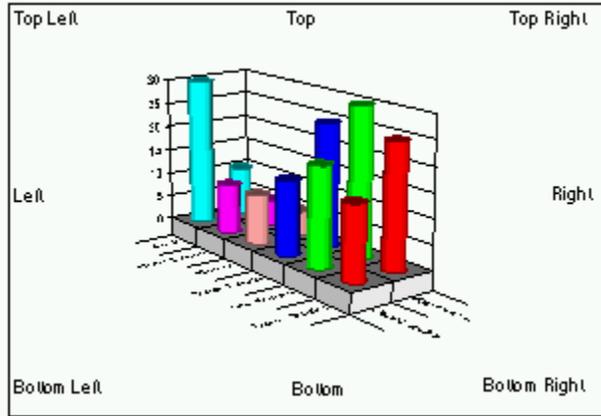
To format an individual data point:

1. Click a data point to select its series.
2. Click the data point again to select just the data point.
3. Double-click the data point to display the Format Data Point dialog box.

Alternatively, you can click the right mouse button to display the floating menu and select Series/Data Point. A dialog box appears asking you to specify the series and data point you want to format. You can pick Series Defaults to format the default fill and markers for the entire series.

The Options tab of the Format Data Point dialog box is displayed.

4. Uncheck the Use Series Defaults check box to ungray the Fill and Markers tabs. You can then change any of the Fill or Marker options used to display the data point. Check the Use Series Defaults check box to discard any custom settings you have made for the data point and reset all options to the series defaults.
5. Click the Fill tab to modify the fill options for the data point.
6. Click the Marker tab to modify the marker options for the data point.



Formatting Series and Data Points

[Formatting Series](#)

[Formatting Data Points](#)

Series Labels

[Format Series Labels Dialog Box](#)

Series labels can be used instead of the legend, as a way to identify each series on a line, area, step, XY, or radar chart.

To format a series label:

1. If a series label exists, double click it. Otherwise, use the right mouse button to display the floating menu and select Series/Label.
2. Specify the series for which you want to define a label and click Select to display the Format Series Label dialog box.
3. Make any other changes to the series labels. Then, click OK or Apply to redraw the chart to reflect the changes.

You can reposition series labels by selecting them with the mouse and dragging them to new locations.

Data Point Labels

[Format Data Point Labels Dialog Box](#)

You can format data point labels for all the data points in a series or for an individual data point. Data point labels can provide additional information about, or draw attention to, a data point.

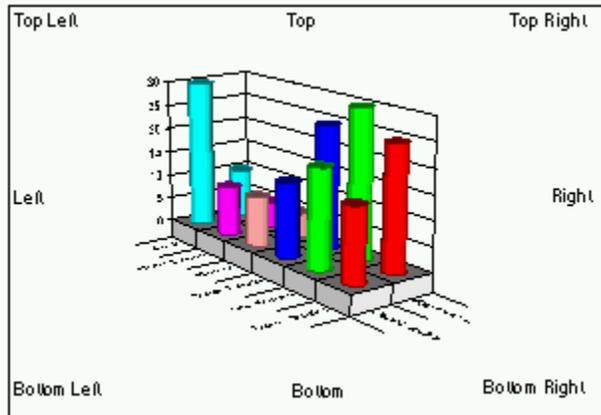
To format data point labels:

1. Double-click the existing data point label to display the Format Data Point Label dialog box.

Alternatively, you can click the right mouse button to display the floating menu and select Series/Data Point Label. A dialog box appears asking you to specify the series and data point you want to format. You can pick Series Defaults to format the data point labels for every data point in the series.

2. Uncheck the Use Series Defaults check box to enable other tabs in the dialog box. You can then change any of the options used to display the data point. Check the Use Series Defaults check box to discard any custom settings you have made for the data point label and reset all options to the series defaults.
3. Make any necessary changes to the tabs in the Format Data Point dialog box and click OK or Apply to redraw the chart to reflect the changes.

You can reposition data point labels by selecting them with the mouse and dragging them to a new location.



Formatting Labels

[Series Labels](#)

[Data Point Labels](#)

Exporting Charts

There are two ways to export copies of a chart from First Impression: by saving it to a file, or by copying it to the clipboard.

To copy a chart to the clipboard:

1. Use the right mouse button to display the floating menu bar and select Copy.

A copy of the current chart is placed on the clipboard in Windows Metafile format. You can then view the chart in any application that supports the .wmf format.

To save the chart to a file:

1. Use the right mouse button to display the floating menu bar and select Save As.

The Save As dialog box appears.

2. Enter a name and path for the file.
3. Select a file type from the Save File As Type popup.

You can save the chart in the native First Impression format (.vtc), as a metafile (.wmf) or as a Windows bitmap (.bmp). The metafile with size information includes the Adobe placeable header information in the metafile.

4. Check Save metafile without size if you do not want the Adobe placeable header information in the metafile.

You should not check this option if you will be using this metafile in a Microsoft application such as Word or Excel. These applications expect the size information to be there.

5. Check Save Text As Curves if you are using an unusual font that may not be present on other systems that will be using the metafile.

This option should also be used to properly display text if you are deforming the metafile by stretching it.

Loading Saved Charts

You can load a chart that was saved in First Impressions native format into the current chart control. Any chart that currently exists in the control is discarded.

To load a file:

1. Use the right mouse button to display the floating menu bar and select Load.

The Load Chart dialog box appears. A list of all .vtc files in the current directory is displayed.

2. Select the file you want to load.
3. Click OK.

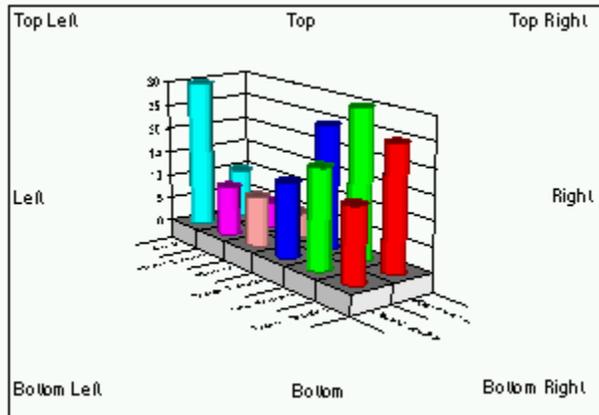
Printing Charts

[Print Dialog Box](#)

You can print a copy of the current chart.

To print a chart:

1. Use the right mouse button to display the floating menu bar and select Print to display the Print dialog box.
2. Make any necessary settings and click Print.



Managing Chart Files

[Exporting Charts](#)

[Loading Saved Charts](#)

[Printing Charts](#)

