Excel Tutorial 4

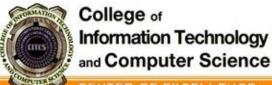
Working with Charts and Graphics



in Information Technology

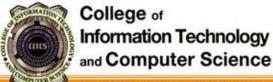
Objectives

- Create an embedded chart
- Work with chart titles and legends
- Create and format a pie chart
- Work with 3D charts
- Create and format a column chart



Objectives

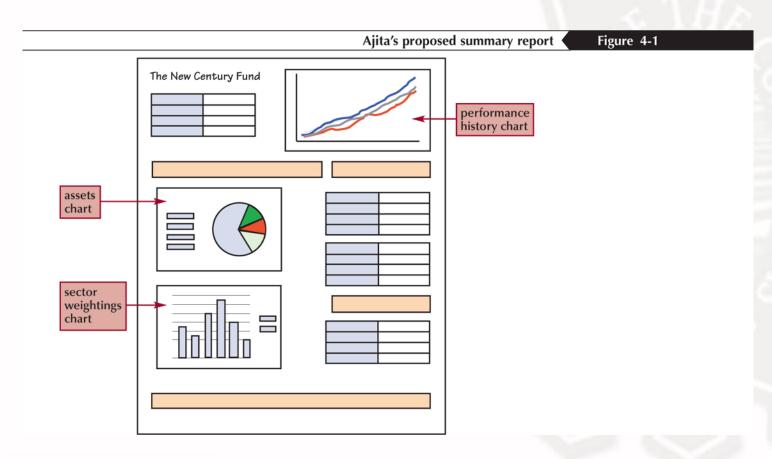
- Create and format a line chart
- Use custom formatting with chart axes
- Work with tick marks and scale values
- Create and format a combined chart
- Insert and format a graphic shape
- Create a chart sheet



Creating Charts

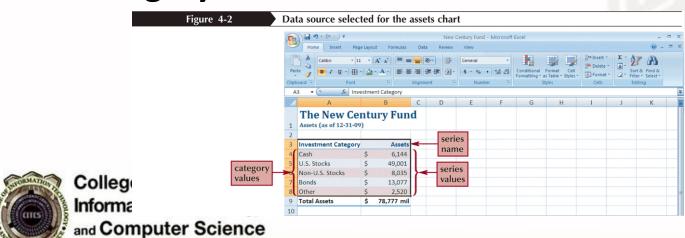
- A chart, or graph, is a visual representation of a set of data
- Select the data source with the range of data you want to chart
- In the Charts group on the Insert tab, click a chart type, and then click a chart subtype in the Chart gallery
- In the Location group on the Chart Tools Design tab, click the Move Chart button to place the chart in a chart sheet or embed it into a worksheet

Creating Charts



Selecting a Data Source

- The data source is the range that contains the data you want to display in the chart
 - Data series
 - Series name
 - Series values
 - Category values



Selecting a Chart Type

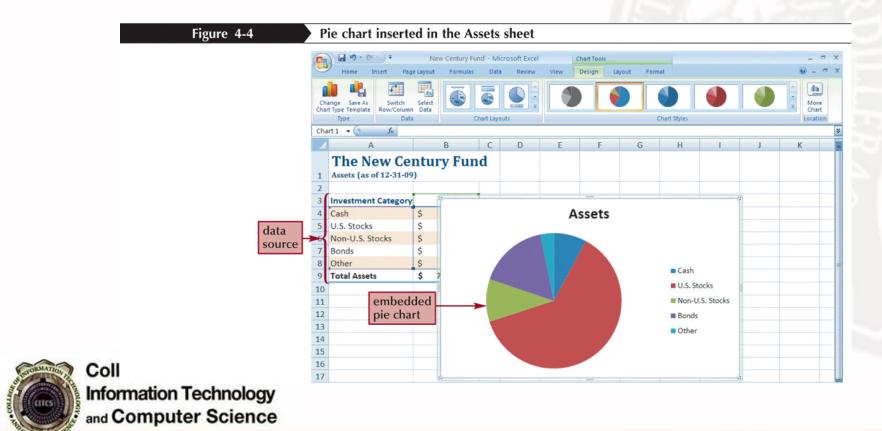
	Categories of Excel chart types
Chart Type	Description
Column	Compares values from different categories. Values are indicated by the height of the columns.
Line	Compares values from different categories. Values are indicated by the height of the line. Often used to show trends and changes over time.
Pie	Compares relative values of different categories to the whole. Values are indicated by the areas of the pie slices.
Bar	Compares values from different categories. Values are indicated by the length of the bars.
Area	Compares values from different categories. Similar to the line chart except that areas under the lines contain a fill color.
XY (Scatter)	Shows the patterns or relationship between two or more sets of values. Often used in scientific studies and statistical analyses.
Stock	Displays stock market data, including the high, low, opening, and closing prices of a stock.
Surface	Compares three sets of values in a three-dimensional chart.
Doughnut	Compares relative values of different categories to the whole. Similar to the pie chart except that it can display multiple sets of data.
Bubble	Shows the patterns or relationship between two or more sets of values. Similar to the XY (Scatter) chart except the size of the data marker is determined by a third value.
Radar	Compares a collection of values from several different data sets.



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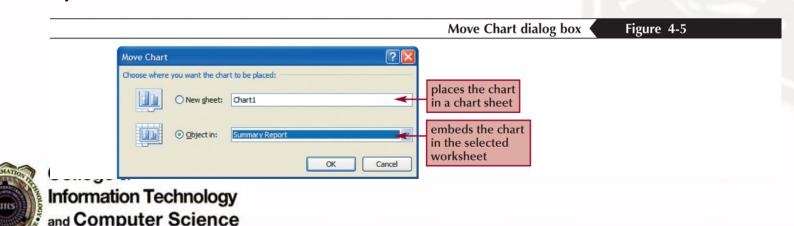
Selecting a Chart Type

- Click the Insert tab on the Ribbon
- In the Charts group, click the Pie button

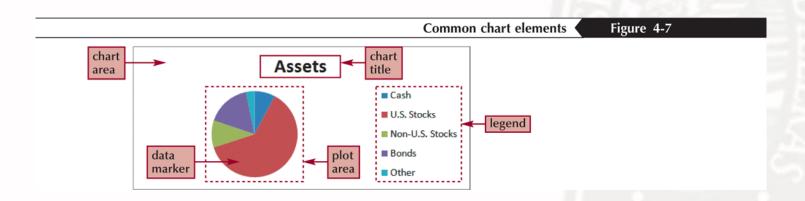


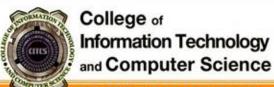
Moving and Resizing Charts

- By default, a chart is inserted as an embedded chart, which means the chart is placed in a worksheet next to its data source
- You can also place a chart in a chart sheet
- In the Location group on the Chart Tools Design tab, click the Move Chart button

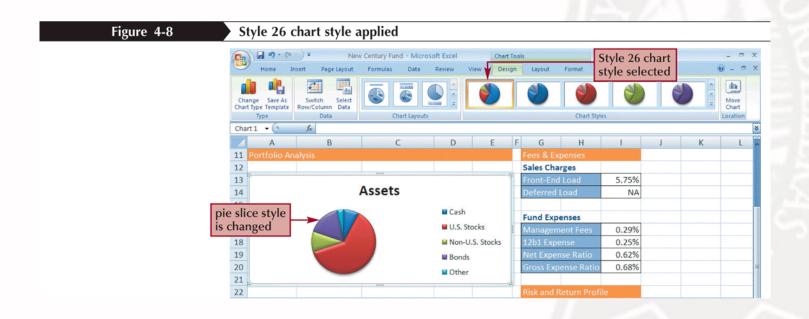


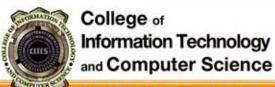
Selecting Chart Elements





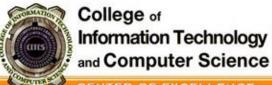
Choosing a Chart Style and Layout





Choosing a Chart Style and Layout

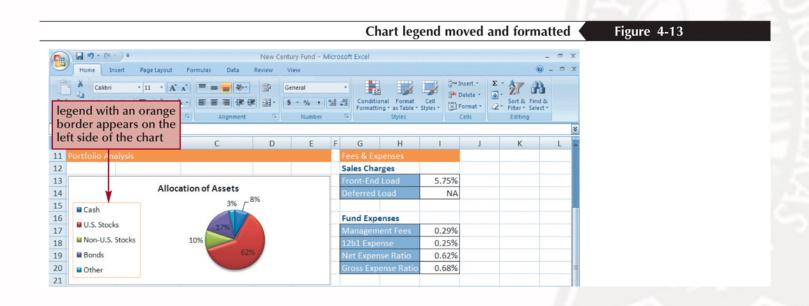
Figure 4-9	Pie chart layouts			
	Layout	Name	Pie chart with	
	- 500	Layout 1	Chart title, labels, and percentages	
	•••	Layout 2	Chart title, percentages, and legend above the pie	
		Layout 3	Legend below the pie	
		Layout 4	Labels in pie slices	
		Layout 5	Chart title and labels in pie slices	
	∞ □	Layout 6	Chart title, percentages, and legend to the right of the pie	
		Layout 7	Legend to the right of the pie	

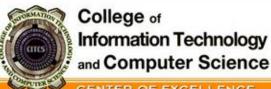


Working with the Chart Title and Legend

- Click the chart title to select it
- Type the chart title, and then press the Enter key
- Click the Chart Tools Layout tab on the Ribbon
- In the Labels group, click the Legend button, and then click the desired legend position

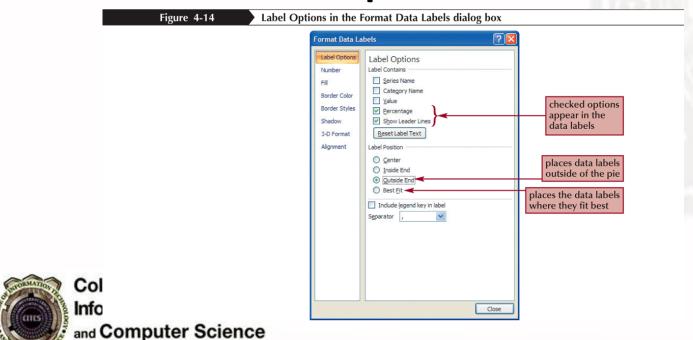
Working with the Chart Title and Legend





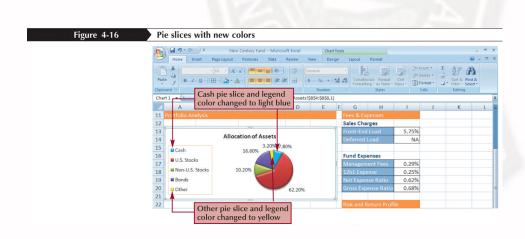
Formatting a Pie Chart

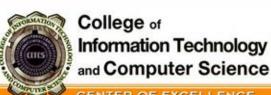
- Click the chart to select it
- In the Labels group on the Chart Tools Layout tab, click the Data Labels button, and then click More Data Label Options



Setting the Pie Slice Colors

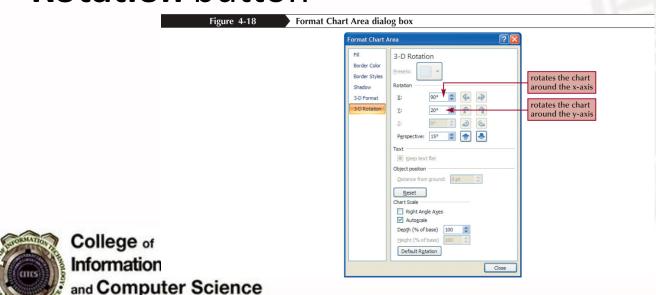
- In pie charts with legends, it's best to make the slice colors as distinct as possible to avoid confusion
- Click the pie to select the entire data series, and then click the slice you wish to change
- Change the fill color





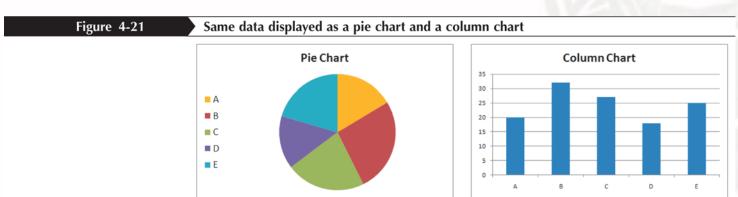
Working with 3D Options

- To increase the 3D effect, you need to rotate the chart
- Click the Chart Tools Layout tab on the Ribbon, and then, in the Background group, click the 3-D Rotation button



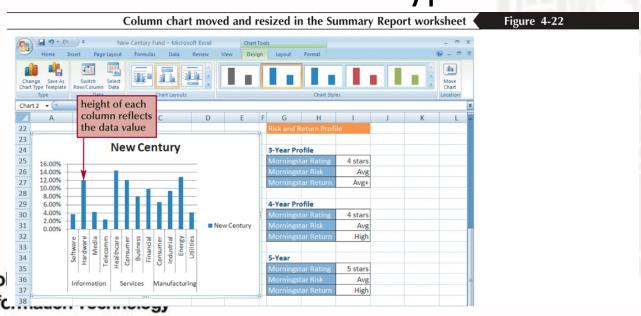
Creating a Column Chart

- A column chart displays values in different categories as columns; the height of each column is based on its value
- The bar chart is a column chart turned on its side, so each bar length is based on its value



Creating a Column Chart

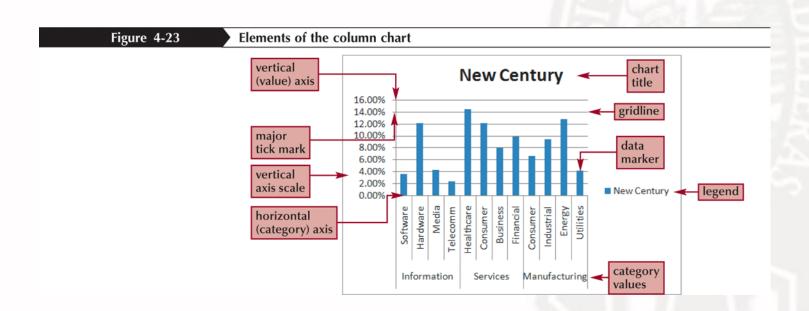
- Select the range
- Click the Insert tab on the Ribbon
- In the Charts group, click the Column button and then choose the chart subtype

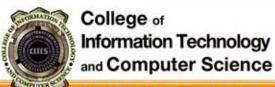


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Formatting Column Chart Elements

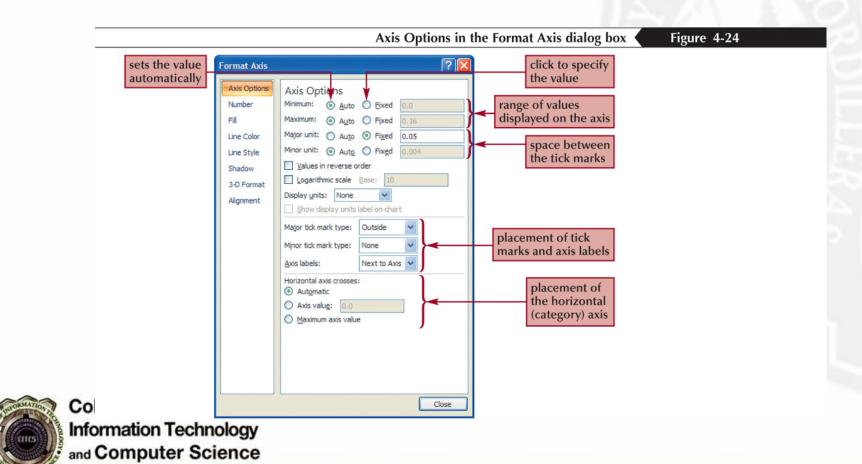
Click the Chart Tools Layout tab on the Ribbon



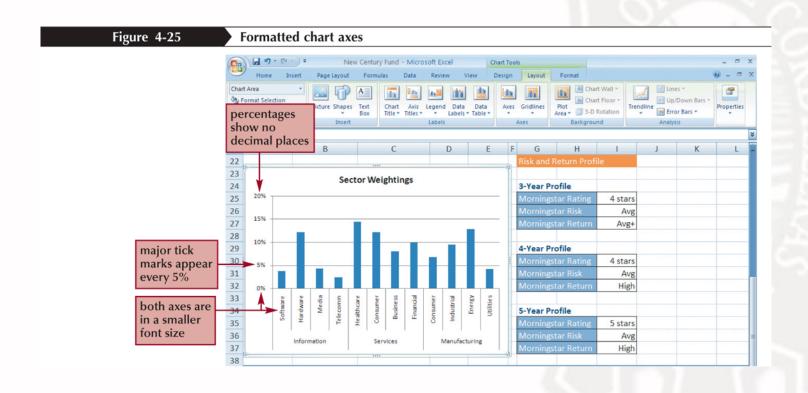


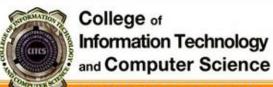
Formatting the Chart Axes

Click the Chart Tools Layout tab on the Ribbon



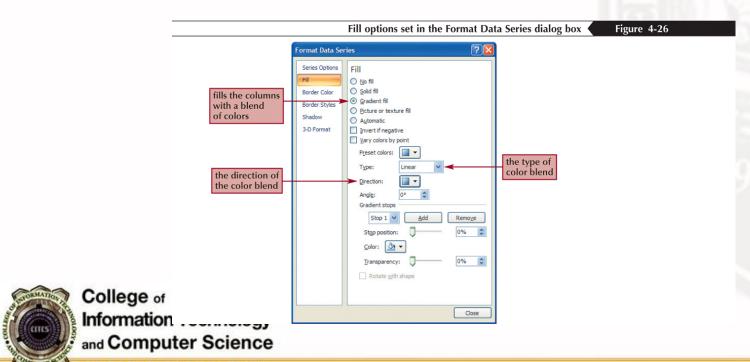
Formatting the Chart Axes



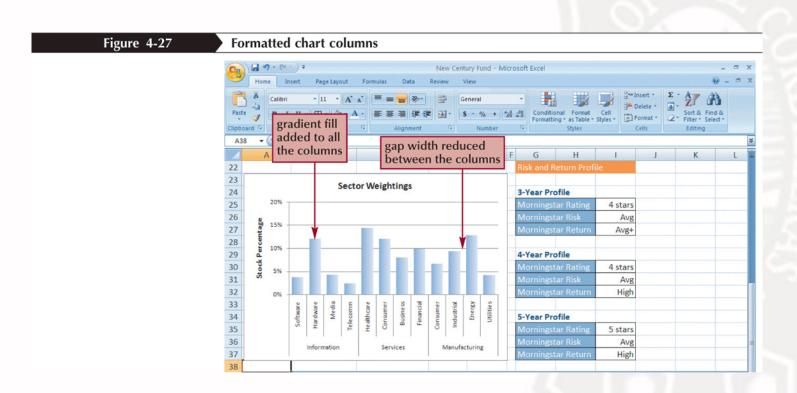


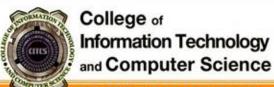
Formatting Chart Columns

- Click any column in the Sector Weightings chart
- In the Current Selection group on the Chart Tools Layout tab, click Format Selection



Formatting Chart Columns





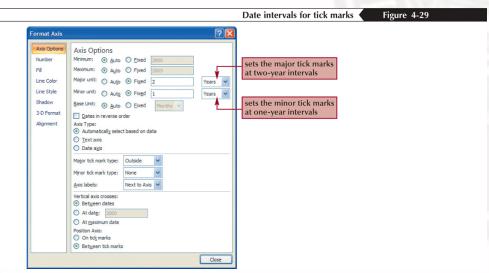
Creating a Line Chart

- Select the range
- Click the Insert tab on the Ribbon
- In the Charts group, click the Line button, and then click the Line chart

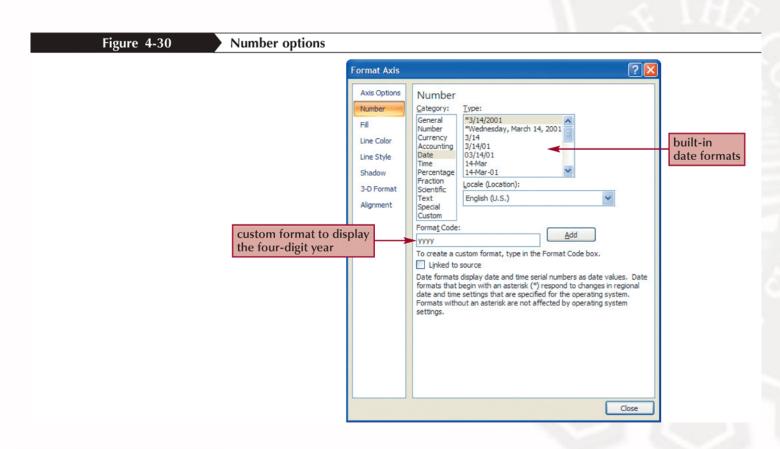


Formatting Date Labels

- Click the Chart Tools Layout tab on the Ribbon
- In the Axes group, click the Axes button, point to Primary Horizontal Axis, and then click More Primary Horizontal Axis Options



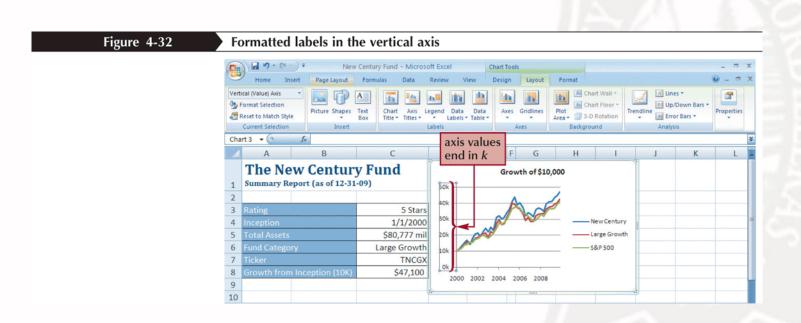
Formatting Date Labels

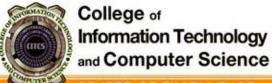


Setting Label Units

- In the Axes group on the Chart Tools Layout tab, click the Axes button, point to Primary Vertical Axis, and then click More Primary Vertical Axis Options
- Click the **Display units** arrow and then make your selection

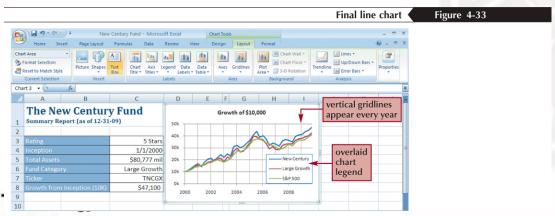
Setting Label Units





Overlaying a Legend

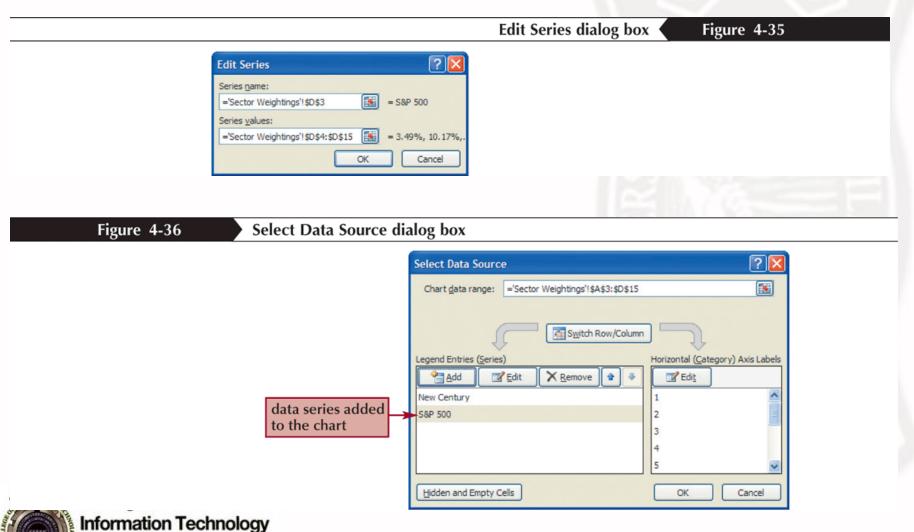
- In the Labels group on the Chart Tools Layout tab, click the Legend button, and then click More Legend Options
- Click the Show the legend without overlapping the chart check box to remove the check mark



Adding a Data Series to an Existing Chart

- Select the chart to which you want to add a data series
- In the Data group on the Chart Tools Design tab, click the Select Data button
- Click the Add button in the Select Data Source dialog box
- Select the range with the series name and series values you want for the new data series
- Click the OK button in each dialog box

Adding a Data Series to an Existing Chart

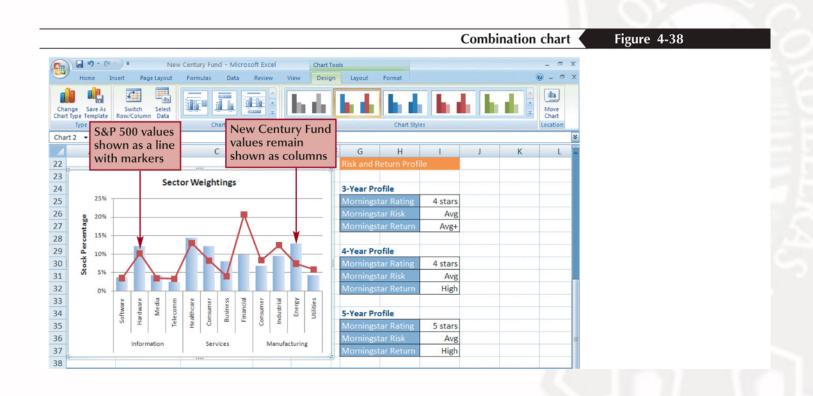


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Creating a Combination Chart

- Select a data series in an existing chart that you want to appear as another chart type
- In the Type group on the Chart Tools Design tab, click the Change Chart Type button, and then click the chart type you want
- Click the OK button

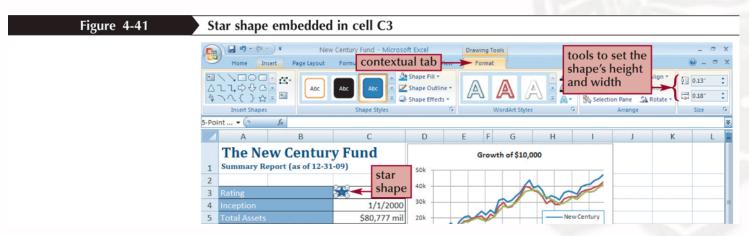
Creating a Combination Chart





Inserting a Shape

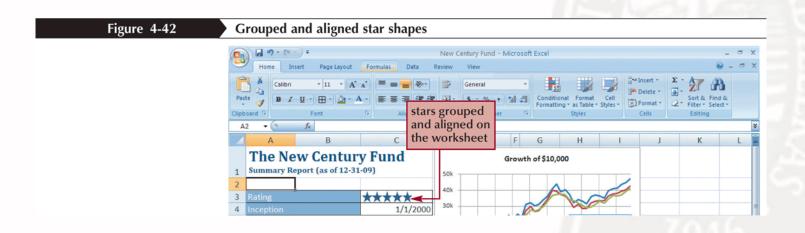
- Click the Insert tab on the Ribbon
- In the Illustrations group, click the **Shapes** button, and then choose the shape you want
- Draw the shape in your worksheet



Aligning and Grouping Shapes

- Hold down the Shift key and then click each shape to select it
- Click the **Drawing Tools Format** tab on the Ribbon
- In the Arrange group, click the Align button, and then click your alignment option
- To group several shapes into a single unit, select the shapes, and then click the **Group** button in the Arrange group on the Drawing Tools Format tab

Aligning and Grouping Shapes





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