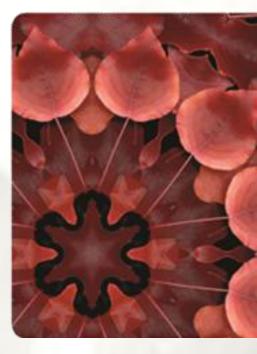
MICROSOFT® OFFICE

Excel Tutorial 4

Working with Charts and Graphics



NEW PERSPECTIVES

COMPREHENSIVE

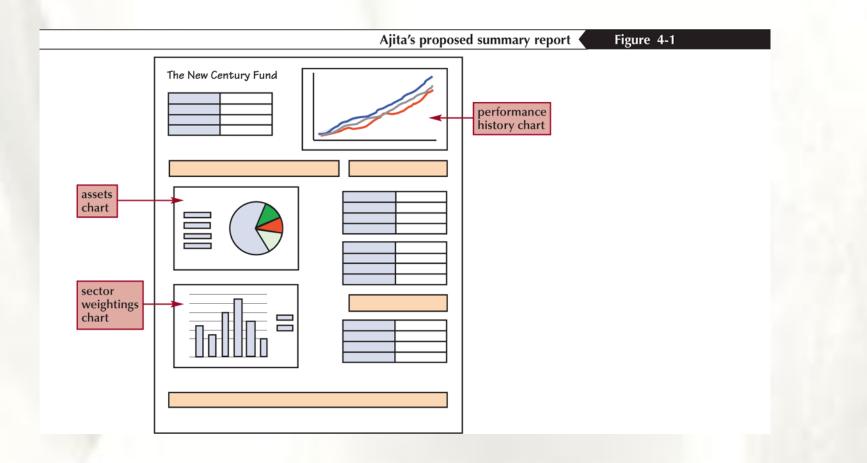
Objectives

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

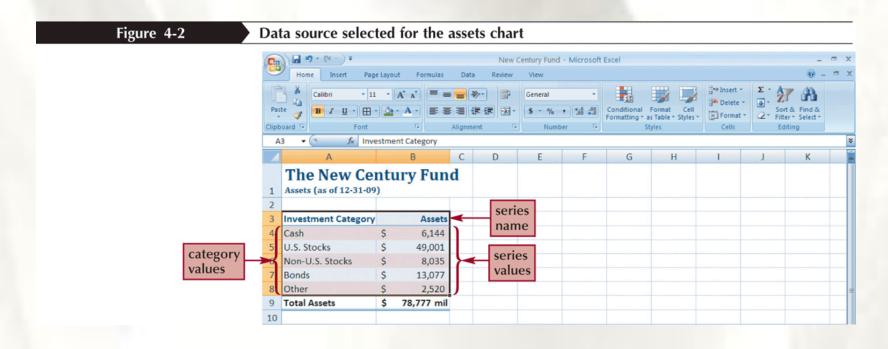
- A chart, or graph, is a visual representation of a set of data
- Select the data source with the range of data you want to chart
- In the Charts group on the Insert tab, click a chart type, and then click a chart subtype in the Chart gallery
- In the Location group on the Chart Tools Design tab, click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

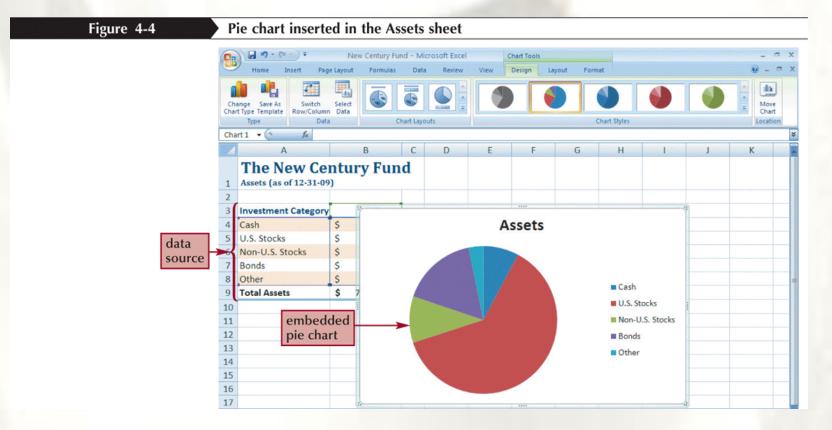


Selecting a Chart Type

	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.

Selecting a Chart Type

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

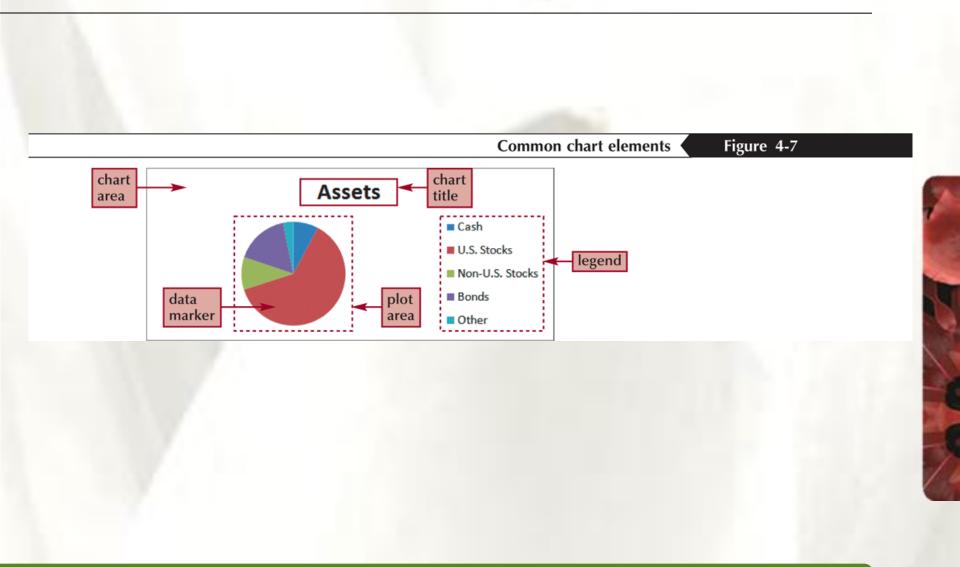


Moving and Resizing Charts

- 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

		Move Chart dialog box	Figure 4-5
Move Chart			
Choose where you want the char	t to be placed:		
New gheet:	Chart1 🔫	places the chart in a chart sheet	
Qbject in:	Summary Report	embeds the chart in the selected worksheet	

Selecting Chart Elements



Choosing a Chart Style and Layout



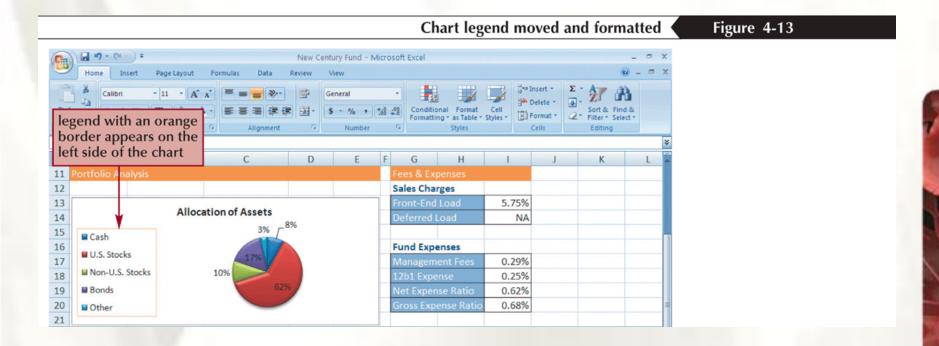
Choosing a Chart Style and Layout

Figure 4-9	The entir	Pie chart layouts			
	Layout	Name	Pie chart with		
	- 99	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		
	90 E	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



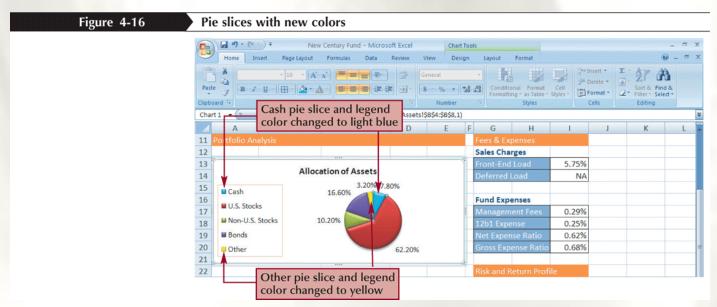
Formatting a Pie Chart

- 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

Format Data Labels	
Label Options Number Fil Border Color Border Styles Shedow 3-D Format Alignment Label Options Label Contains Shedow 3-D Format Alignment Label Options Label Contains Shedow Shedow Shedow Shedow Best Label Text Label Position Quistice End Dutable End Separator Include legend key in label Separator	checked options appear in the data labels places data labels outside of the pie places the data labels where they fit best

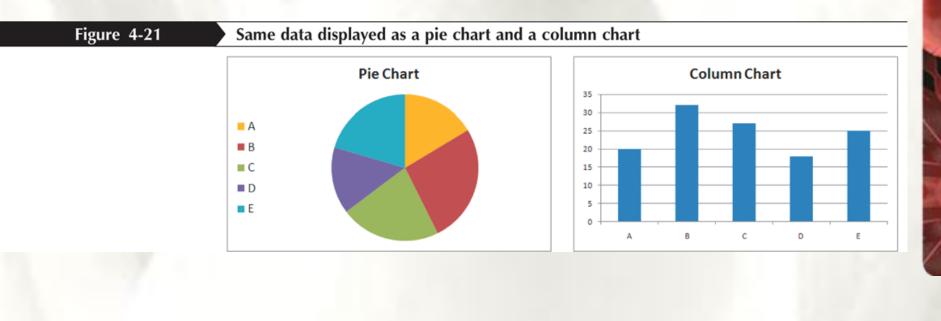
Setting the Pie Slice Colors

- 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



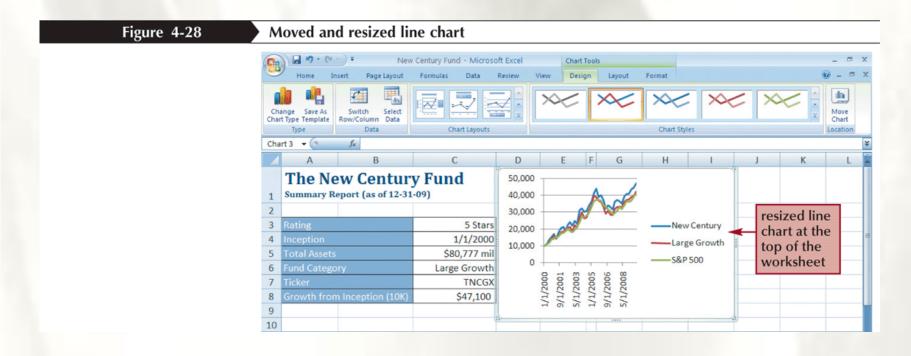
Creating a Column Chart

- 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 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

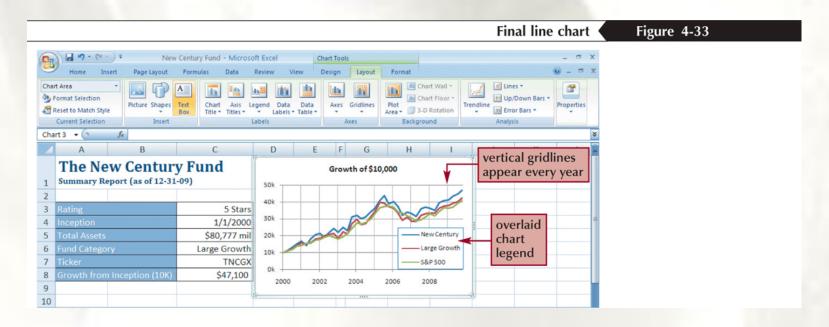


Formatting

• Click the Chart Tools Layout tab on the Ribbon

Overlaying a Legend

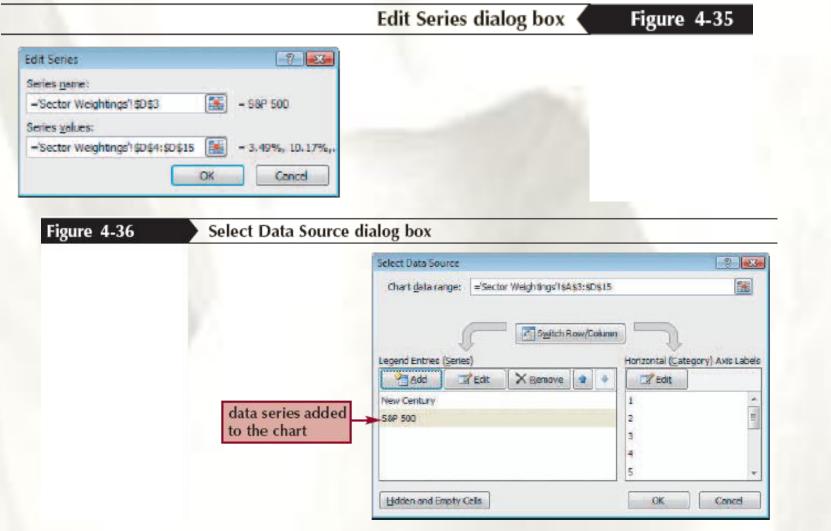
- In the Labels group on the Chart Tools Layout tab, click the Legend button, and then click More Legend Options
- Click the Show the legend without overlapping the chart check box to remove the check mark



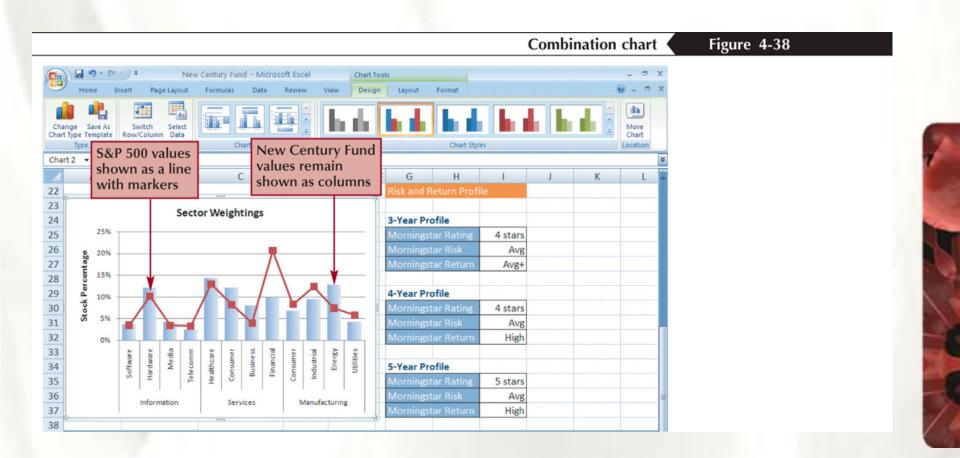
Adding a Data Series to an Existing Chart

- 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

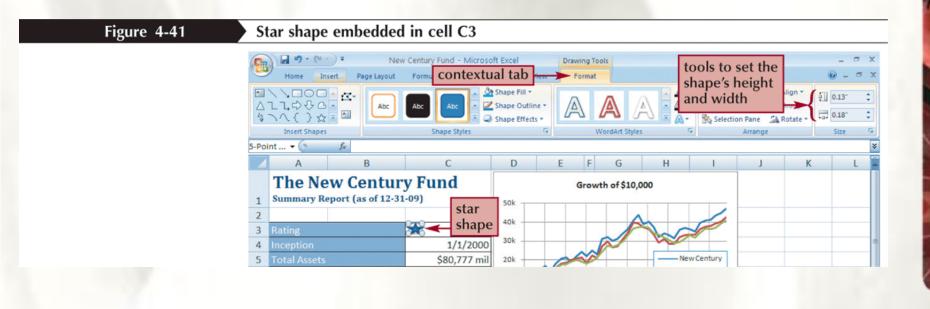


Creating a Combination Chart



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

