Microsoft® Office 2013

First Course

Second Course Third Course





Objectives

- Plan a chart
- Create a chart
- Move and resize a chart
- Change the chart design



Objectives

- Change the chart format
- Format a chart
- Annotate and draw on a chart
- Create a pie chart



- Chart planning guidelines
 - Determine the purpose of the chart
 - Identify the data relationships you want to communicate graphically
 - Determine results you want to see
 - Decide which chart type is most appropriate



- Chart planning guidelines
 - Identify the worksheet data you want the chart to illustrate
 - Understand the elements of a chart



- Chart elements
 - The horizontal axis (x-axis) is also called the category axis
 - The vertical axis (y-axis) is also called the value axis
 - The z-axis is present in 3-D charts

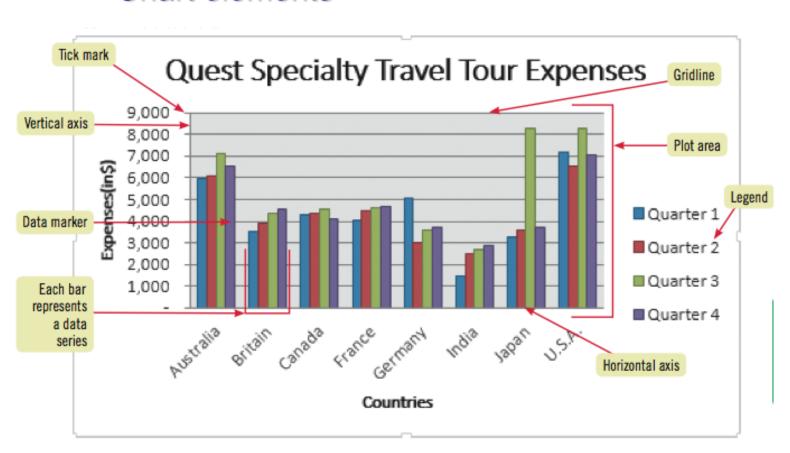


- Chart elements
 - Area inside the horizontal and vertical axes is called the plot area
 - The scale of measure on the y-axis is identified by tick marks
 - A legend makes it easy to identify each data series



- Chart elements
 - A data point is the value in a cell you select for your chart
 - A data marker visually represents each data point in the chart
 - A group of related data points is a data series

Chart elements





Common chart types

type	button	description
Column		Compares data using columns; the Excel default; sometimes referred to as a bar chart in other spreadsheet programs
Line	XXx	Compares trends over even time intervals; looks similar to an area chart, but does not emphasize total
Pie		Compares sizes of pieces as part of a whole; used for a single series of numbers
Bar		Compares data using horizontal bars; sometimes referred to as a horizontal bar chart in other spreadsheet programs
Area	<u>**</u>	Shows how individual volume changes over time in relation to total volume
Scatter		Compares trends over uneven time or measurement intervals; used in scientific and engineering disciplines for trend spotting and extrapolation



Create a Chart

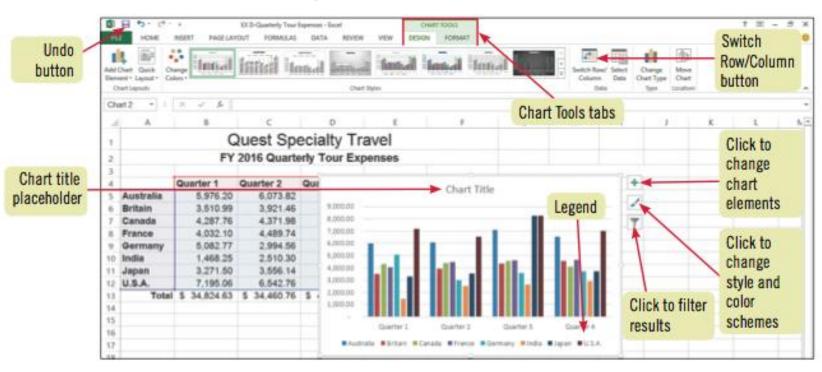
- To create a chart:
 - Select a range of data
 - Use buttons on the Insert tab of the Ribbon to create and modify a chart



- Sizing handles indicate that the chart is selected
- An embedded chart is one that is inserted directly in the current worksheet
- A chart sheet is a sheet in a workbook that contains only a chart, which is linked to the workbook data



Clustered Column chart with different presentation of data





Move and Resize a Chart

- An object is an independent element on a worksheet
 - Moving a chart object does not affect formulas or data
 - Resize a chart by dragging its sizing handles;
 - Move a chart by dragging the chart itself

Move and Resize a Chart

Moved and resized chart





Change the Chart Design

- Changing data values in the worksheet automatically updates the chart
- Chart Tools tabs can be used to make specific changes in a chart

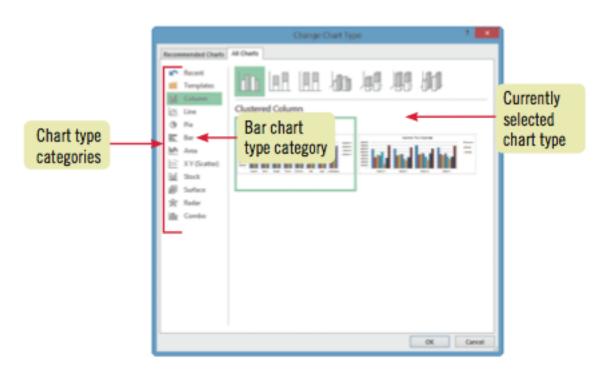


Change the Chart Design

- Using the Chart Tools Design tab, you can:
 - Change the chart type
 - Modify the data range and configuration
 - Change the layout of objects
 - Choose from coordinating color schemes
 - Move the location of the chart

Change the Chart Design

Change Chart Type dialog box





Change the Chart Format

- Chart Elements button makes it easy to add, remove, and modify chart objects
- Using options on this shortcut menu:
 - Add text to a chart
 - Add and modify labels
 - Change the display of axes



Change the Chart Layout

- Using options on this shortcut menu::
 - Modify the fill behind the plot area
 - Eliminate or change the look of gridlines
 - Create titles for the horizontal and vertical axes
 - Eliminate or change the look of gridlines



Change the Chart Layout

Axis titles added to chart





Format a Chart

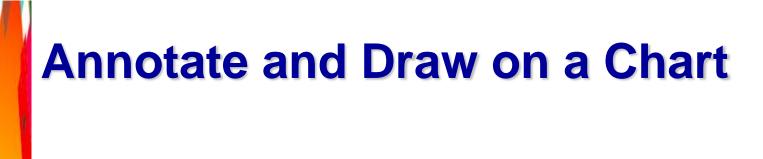
- Chart Tools Format tab can be used to make formatting enhancements
 - Change colors in a specific data series
 - Apply a style to a series using the Shape Styles group

14 15 15 17 7,000:00 18 FF 8,000:00 1,000.00 20

Format a Chart

Live Preview of new style applied to data series





- A text annotation is a label that you add to a chart to further describe data
- You can add shapes such as arrows and boxes to a chart
 - Lines and arrows can be used to point out exact locations you want to emphasize



Annotate and Draw on a Chart

Text annotation and arrow shape add to chart





- You can create multiple charts based on the same worksheet data
 - Different chart types can be better at emphasizing different parts of the data
- In a pie chart, emphasize a data point by exploding, or pulling that slice away from the pie chart



Preview of worksheet with charts in Backstage view





Summary

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- Create a pie chart