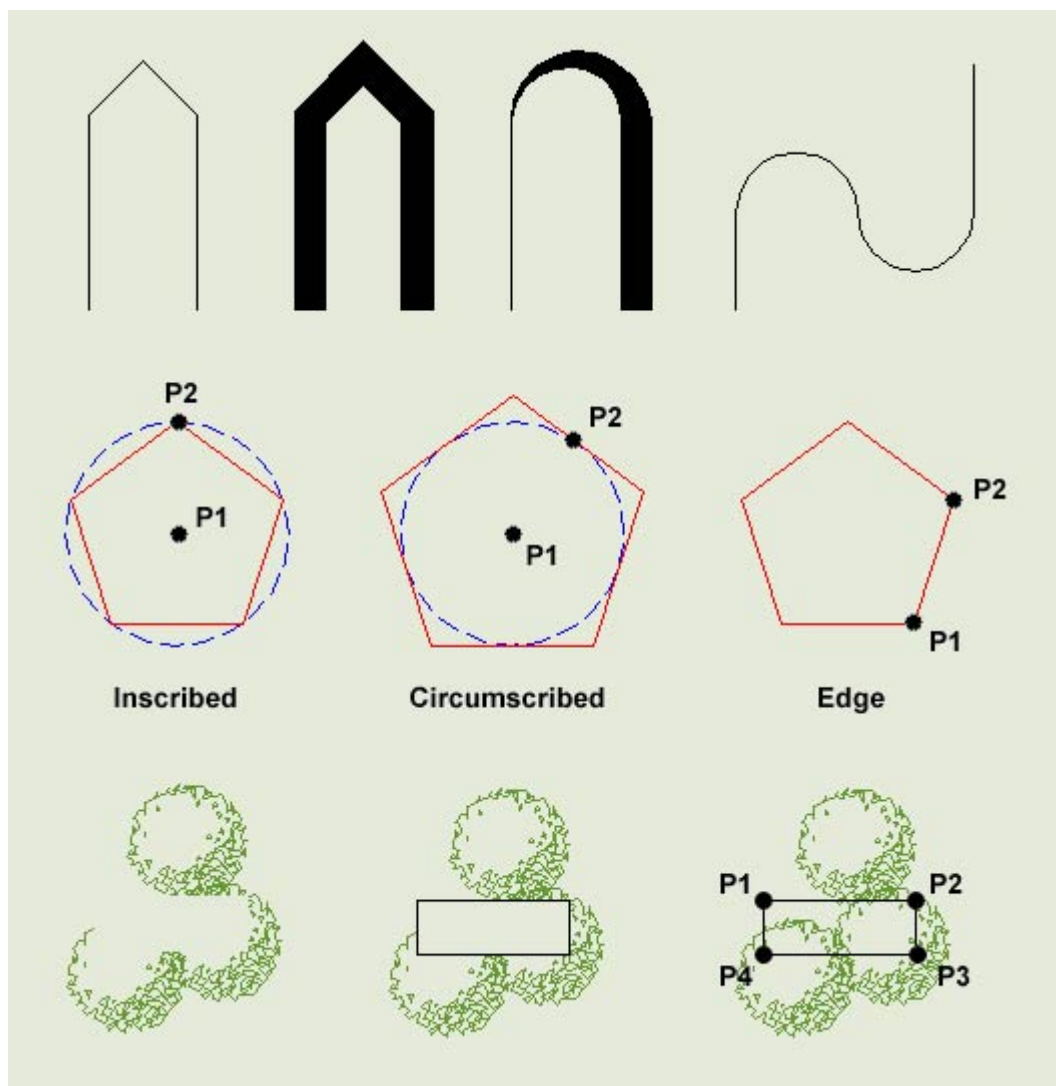
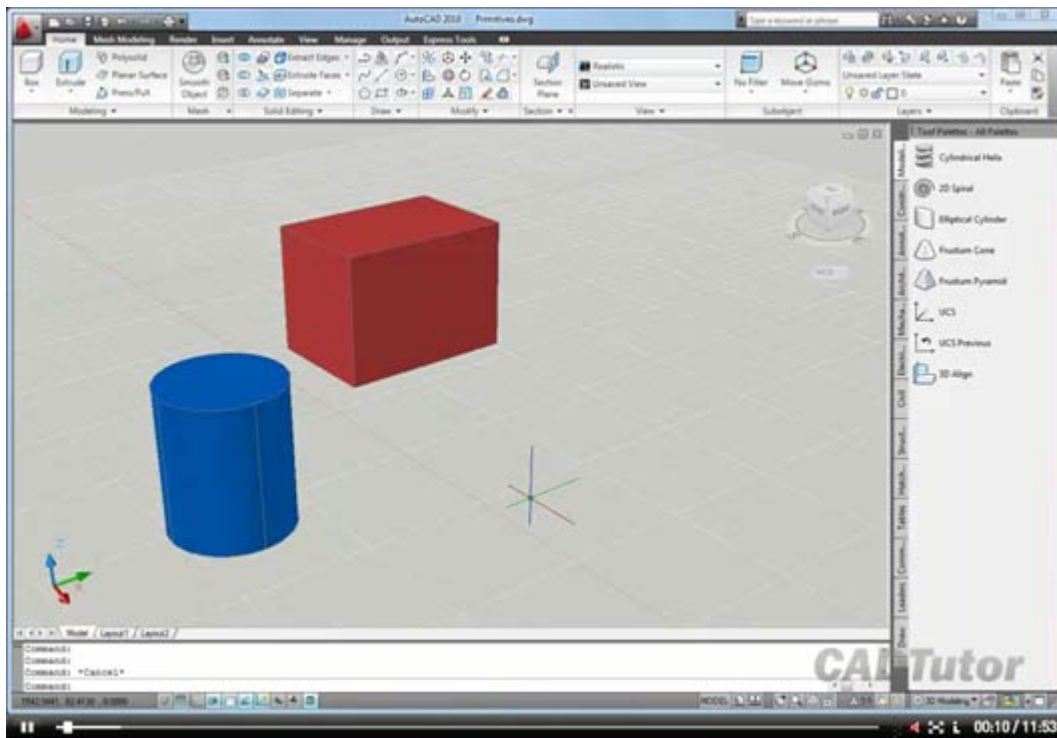


Today we are presenting in this package 30+ Ultimate Useful AutoCAD Tutorials, you will be learning the basics of CAD. The whole package is designed so that where commands and instructions should work on almost any version of AutoCAD, by the end of this level you will learn about basic and professional skills for develop basic 2D drawings and print them out to scale.

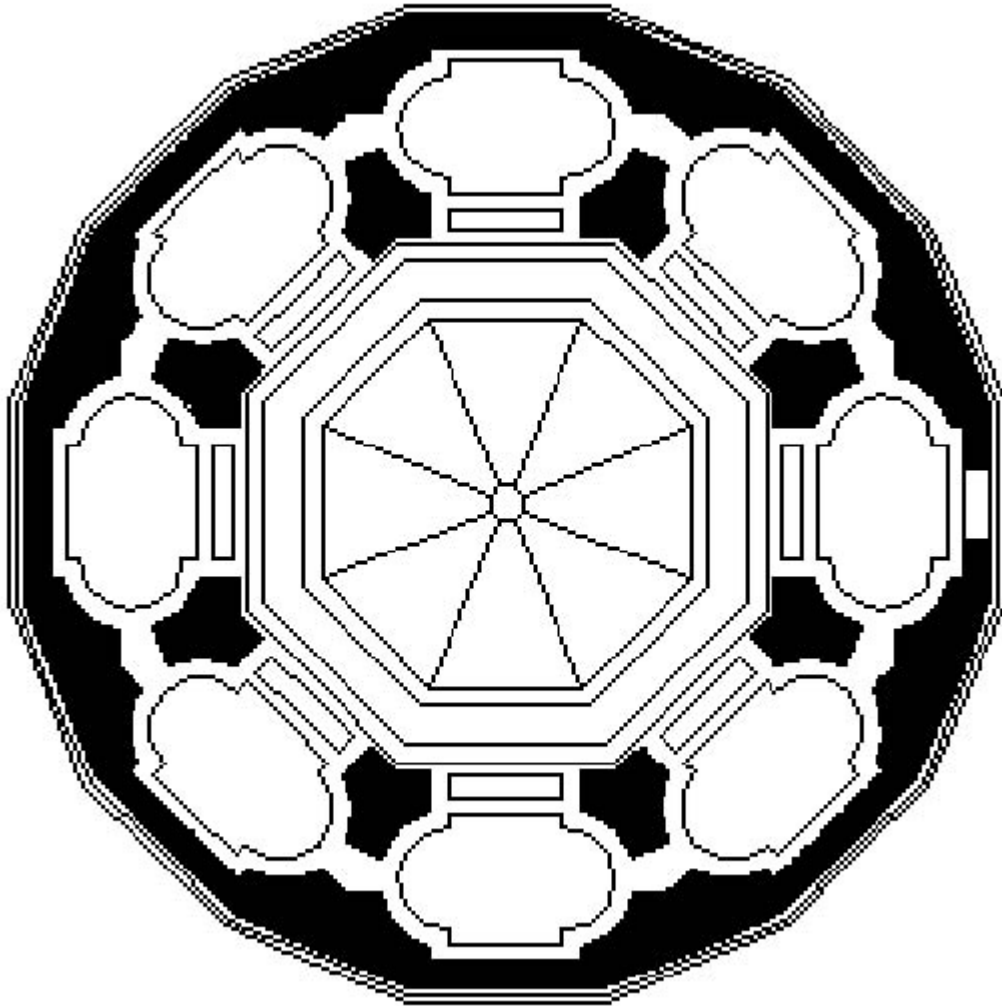
Drawing Objects



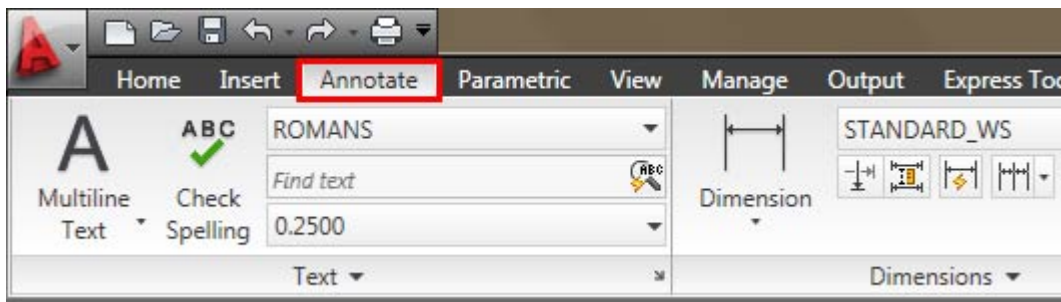
AutoCAD 2010: Basic 3D Editing with Grips & Gizmos



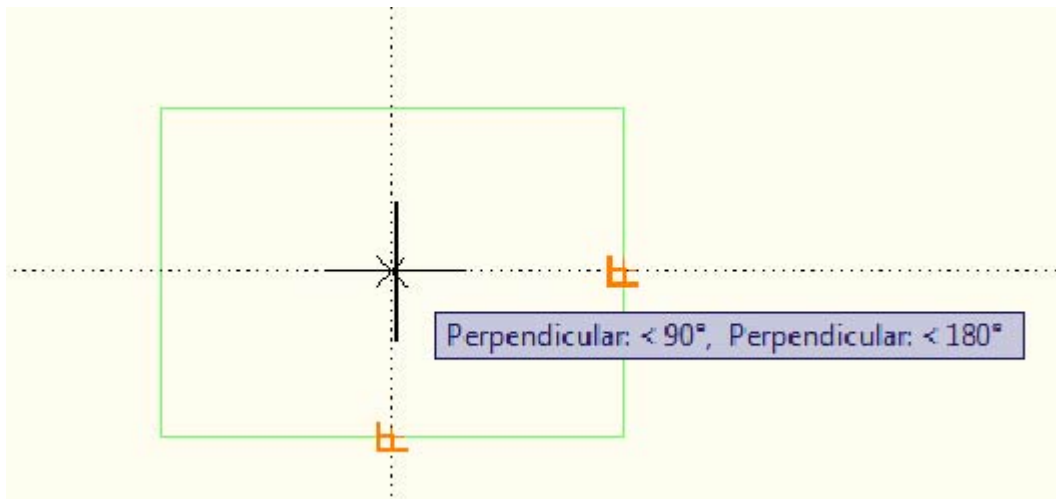
AutoCAD 3d Thread Tutorial



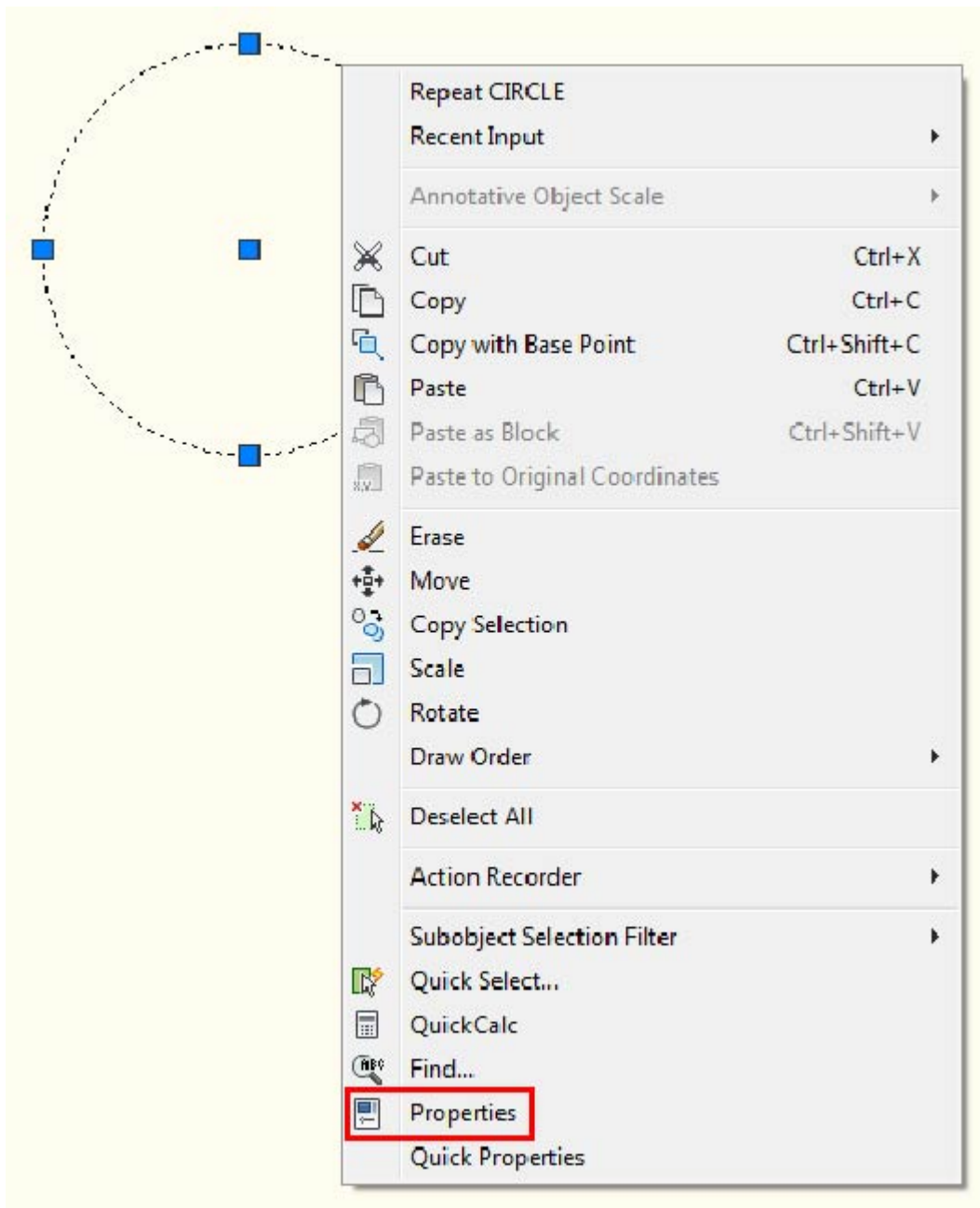
Assignment 6 Layers / Dimensioning / Text / Scale







Some Shortcuts



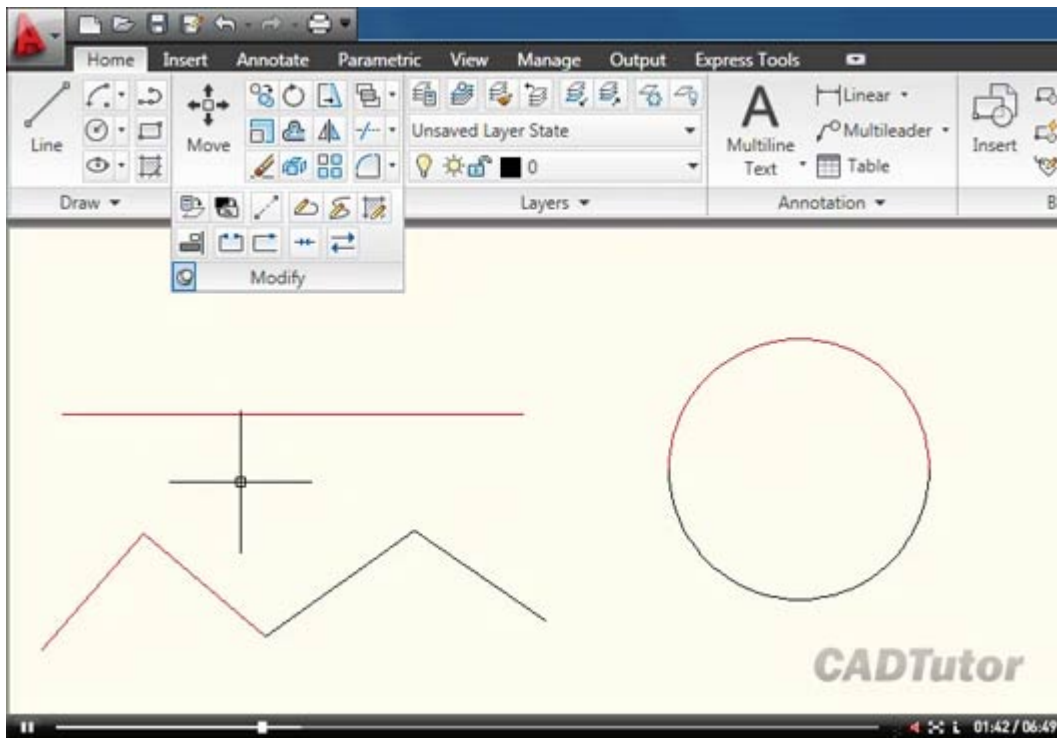
You Drew it - Now Change IT









Moving Around Your Drawing Efficiently

COMMAND OPTION	ICON	DESCRIPTION
Zoom <u>E</u>xtents	 Extents	This option will display all the graphics that are contained in the drawing (referred to as the <i>drawing extents</i>) with the largest image possible.
Zoom <u>W</u>indow	 Window	This option (also a 'hidden' default) prompts the user to pick two corners of a box on the existing view in order to enlarge that area to fill the display.
Zoom <u>P</u>revious	 Previous	This option restores the displayed view prior to the current one. For the purpose of this option, up to 10 views are saved so that the last ten views can be recalled. This option includes every time you use the scroll bar, which is one reason to avoid the scroll bars for panning a lot in your drawing.
Zoom <u>R</u>ealtime	 Realtime	Zoom Realtime provides interactive zooming capability. Pressing <ENTER> (after entering zoom) on the command line automatically places you in Realtime mode. Hold the left mouse button down at the midpoint of the drawing and move the cursor vertically to the top (positive direction) of the window to zoom in up to 100% (2x magnification). Hold the left mouse button down at the midpoint of the drawing and move the cursor vertically to the bottom (negative direction) of the window to zoom out to 100% (.5x magnification). <i>You cannot zoom out beyond the extents of the current view.</i> When you release the pick button, zooming stops. You can release the pick button, move the cursor to another location in the drawing, and then press the pick button again and continue zooming from that location. To exit Realtime Zoom mode, press <ENTER> or (ESC).
Zoom <u>A</u>ll	 All	This option causes AutoCAD to display the whole drawing as far as its drawing limits or drawing extents (whichever is the greater of the two)

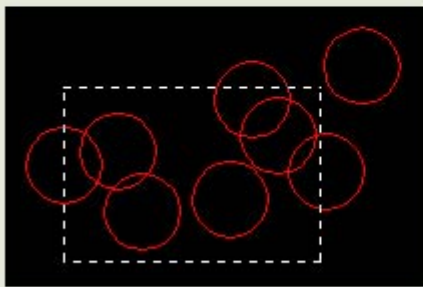
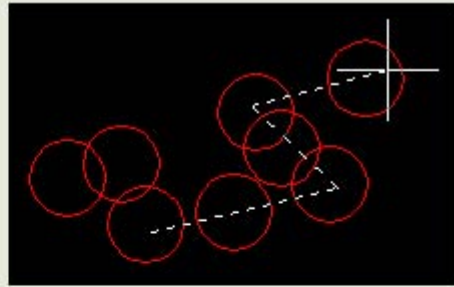
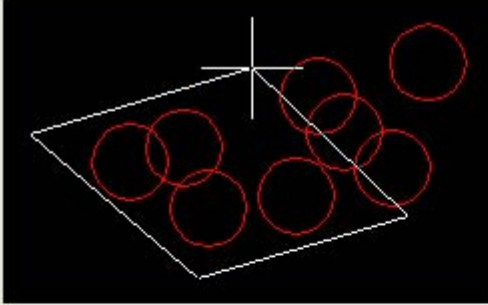
AutoCAD 2010: Joining Lines, Polylines and Arcs



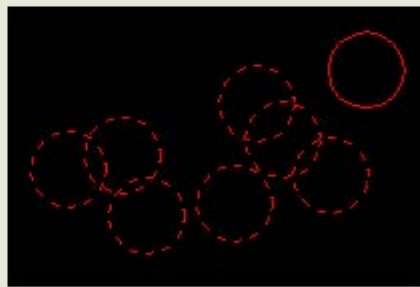
Using the Tools from Level 1 in a Real Project

PROJECT	GIF IMAGE	AUTOCAD DWG FILE
Project #1 - Computer Room		
Project #2 - Office Space		
Project #3 - Cabin		

Object Selection

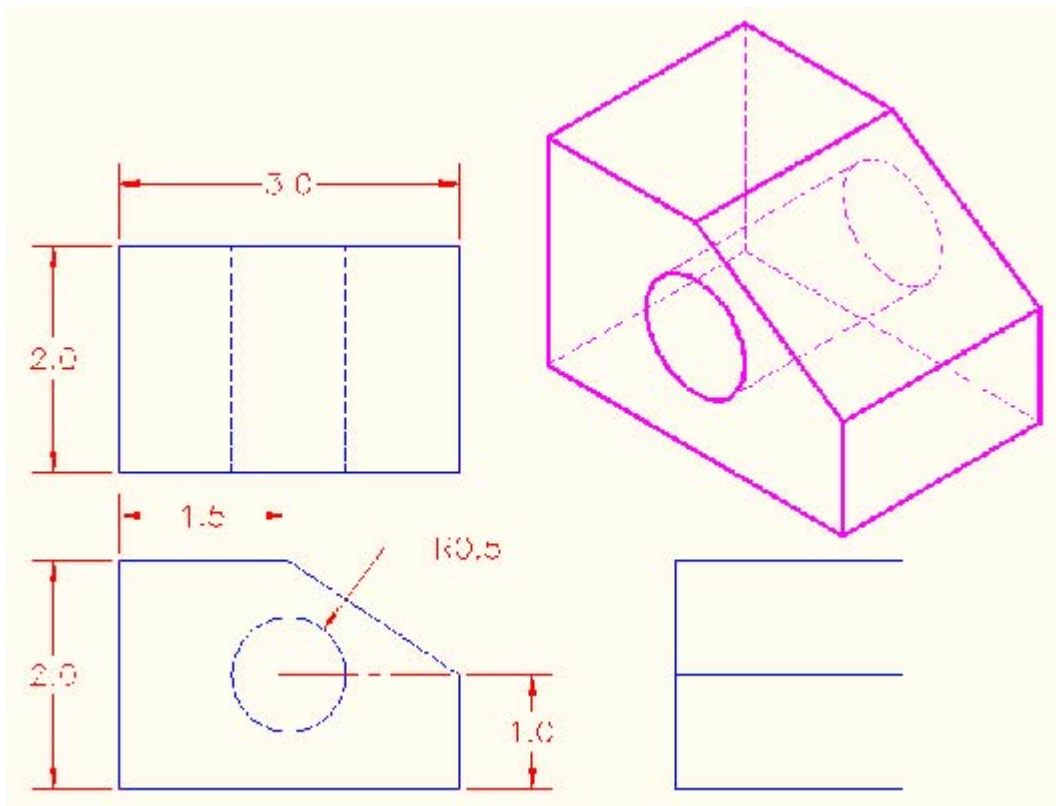


The Crossing selection box is shown as a rectangle with a broken line



Objects within and crossing the window will be selected

ISOMETRIC DRAWING 2D TO LOOK LIKE 3D

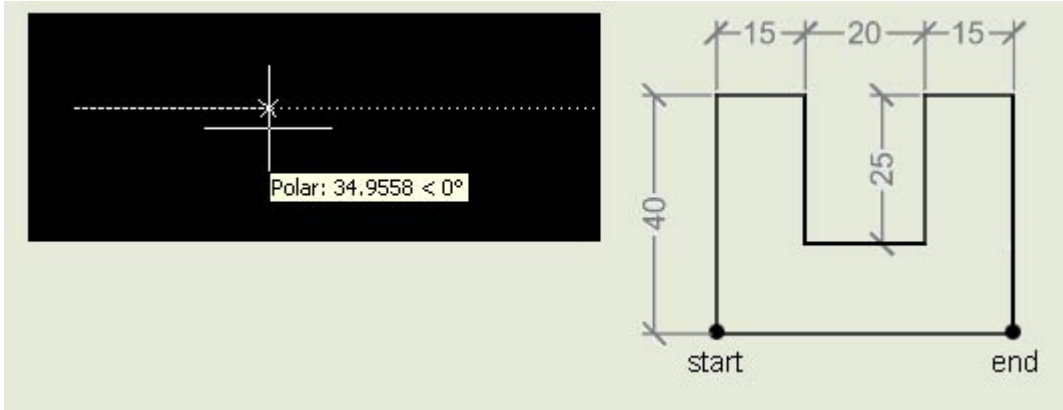


Introduction to 3-D

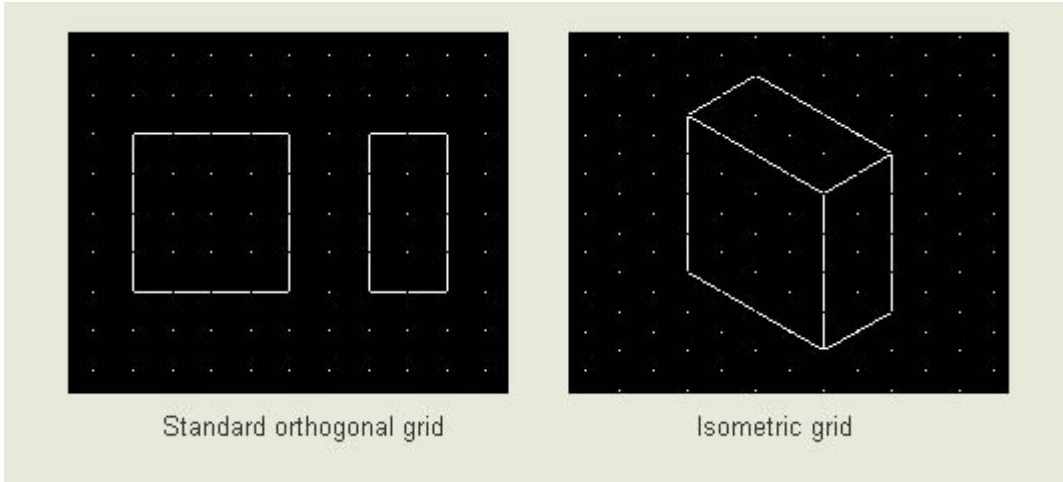
3-D CAD TERMINOLOGY

2-D	A concept of displaying real-world objects on a flat surface showing only height and width. This system uses only the X and Y axes.
3-D	A way of displaying real-world object in a more natural way by adding depth to the height and width. This system uses the X Y and Z axes.
Boolean operations	Commands that allow you to add, subtract or intersect solid objects in AutoCAD.
Complex surface	Generally a curved surface. Examples: car fender, landscape contour.
Elevation	The difference between an object being at zero on the Z-axis and the height that it is above zero.
Extrude	The extrude command raises the shape of a 2D outline into a 3D solid. For example, a circle would be extruded into a cylinder.
Face	The simplest true 3-D surface.
Facet	A three or four sided polygon that represents a piece (or section) of a 3-D surface.
Hidden line removal	A way of hiding lines that would not be visible if you were viewing the actual object you have drawn in AutoCAD. (Command: HIDE)
Isometric Drawing	A simple way of achieving a '3-D' appearance using 2-D drawing methods.
Plan View	Also known as the top view, a plan view looks directly down the WCS Z-axis to the X-Y axis.
Primitive	A basic solid building block. Examples would be boxes, cones, cylinders.
Region	A 2-D area consisting of lines, arcs, etc.
Rendering	A complex way of adding photo-realistic qualities to a 3-D model you

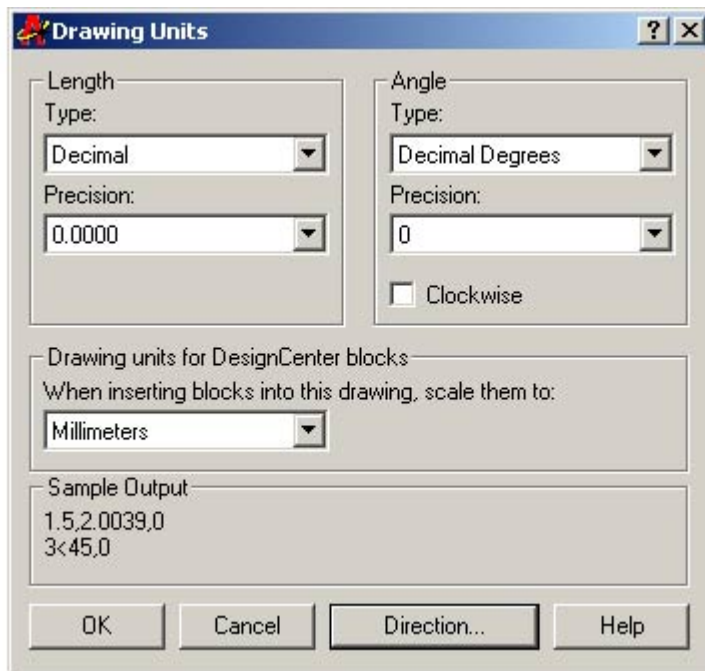
Direct Distance Entry



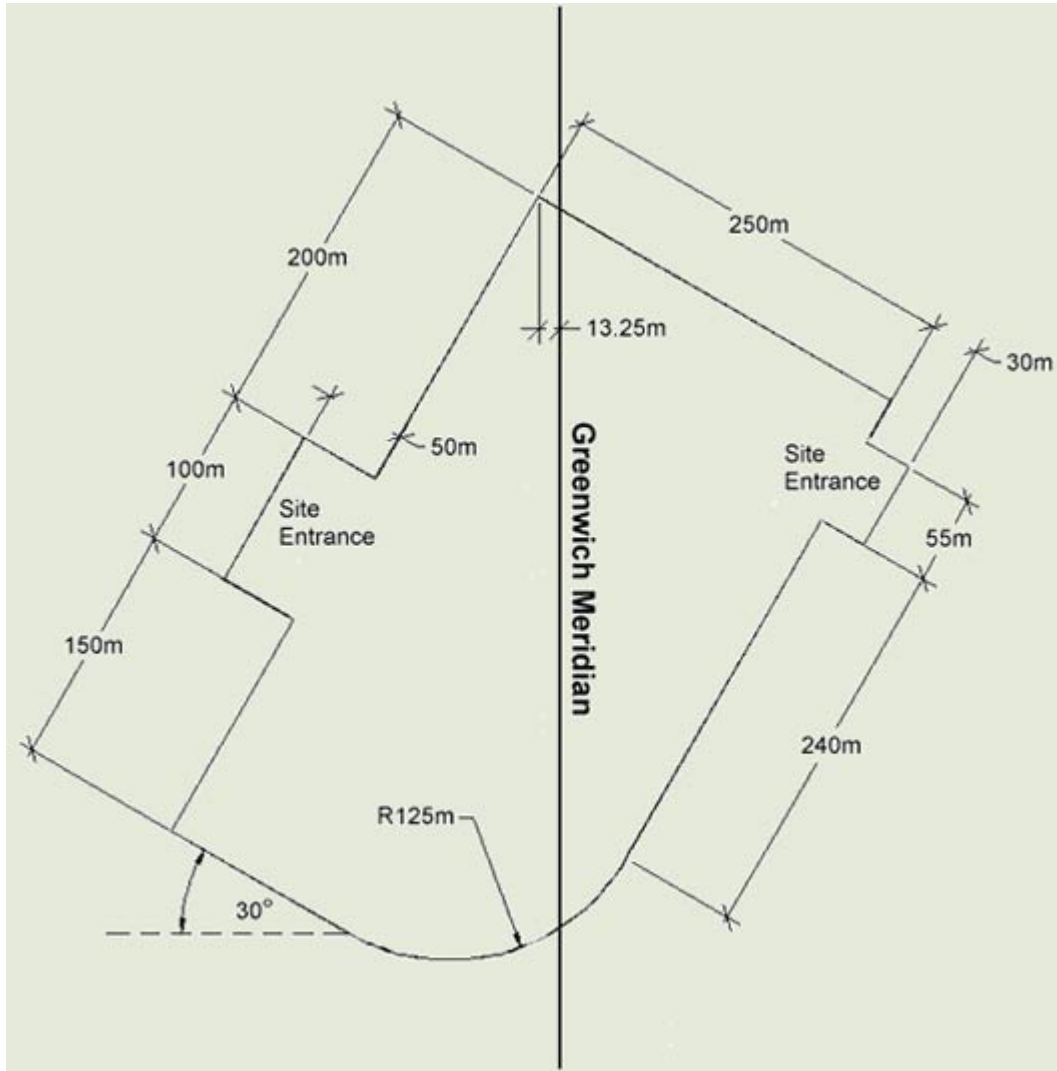
Drawing Aids



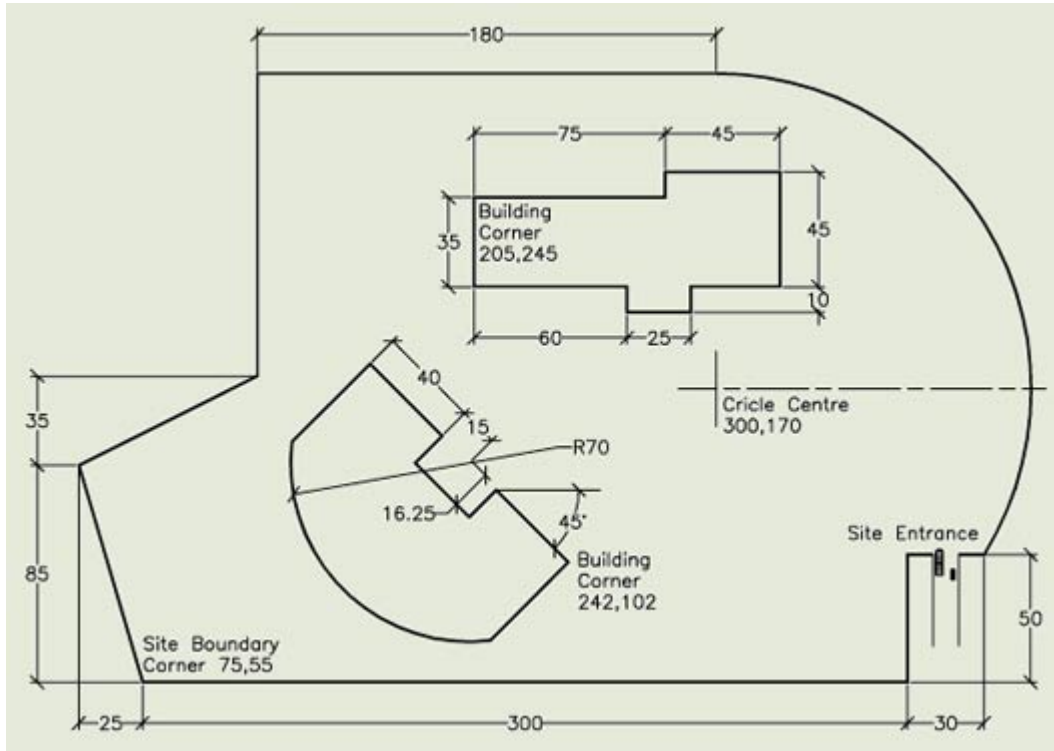
Creating a Title Block with Attributes



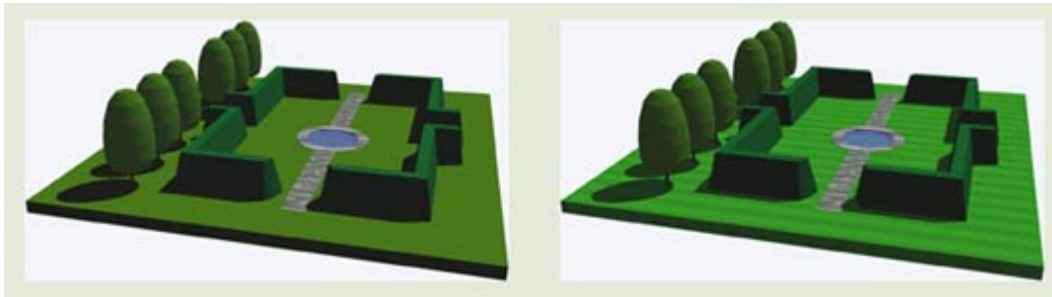
Masterplan Exercise



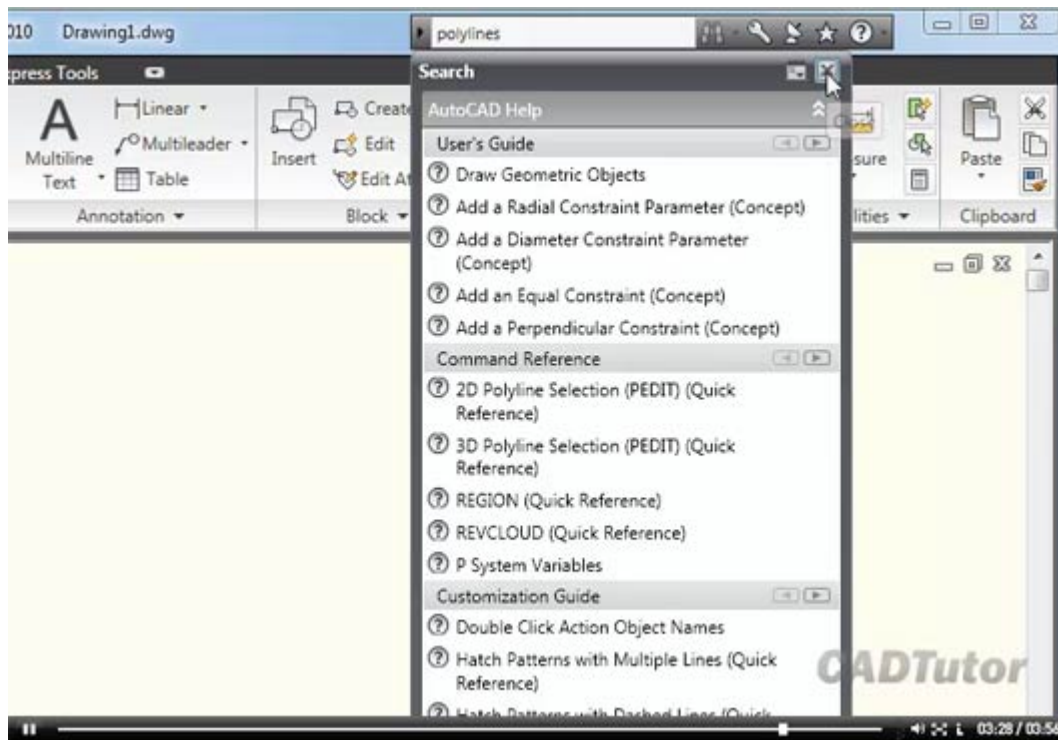
Site Layout Exercise



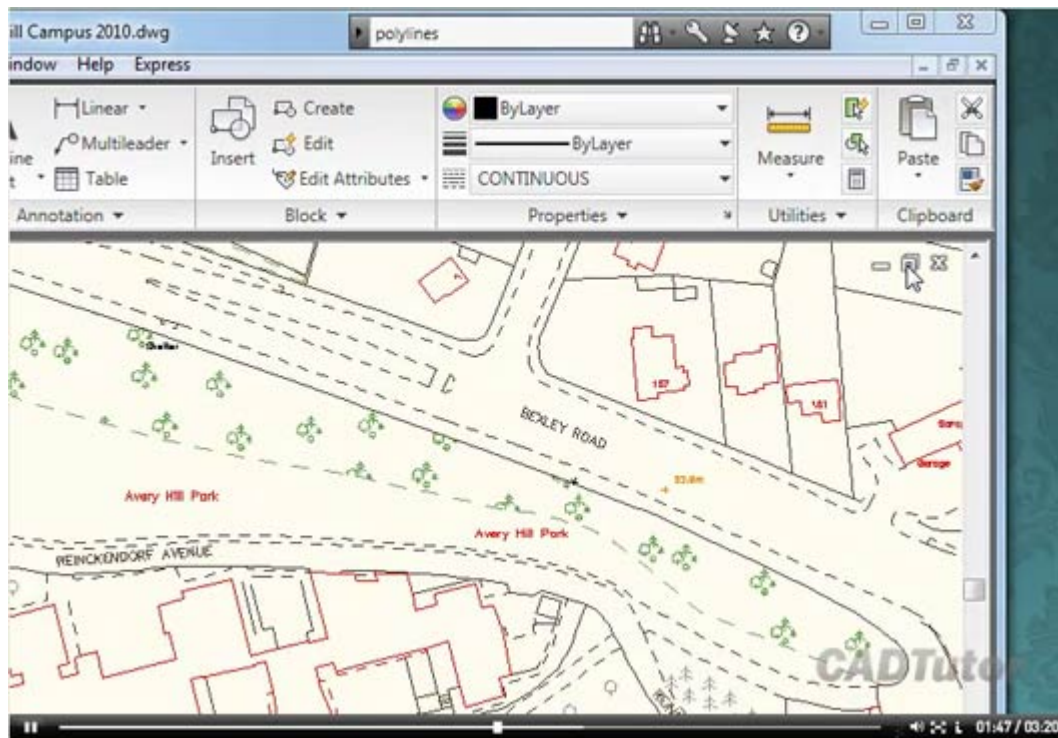
Creating Custom Bitmap Materials



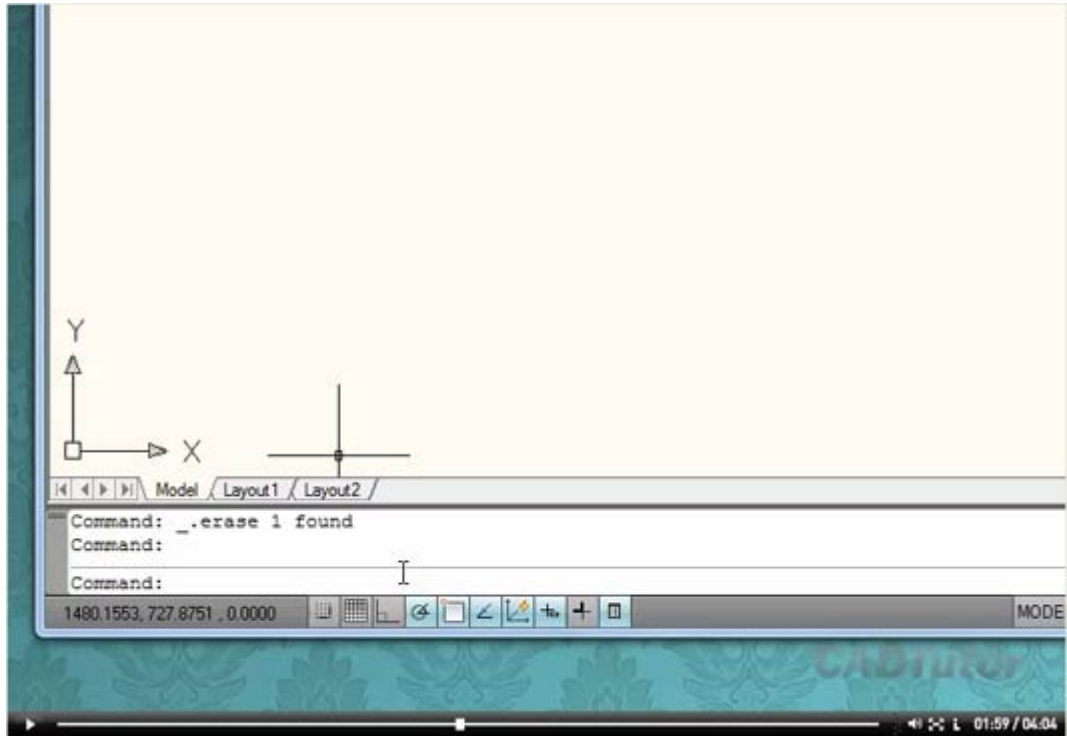
AutoCAD 2010: The User Interface - Part 1



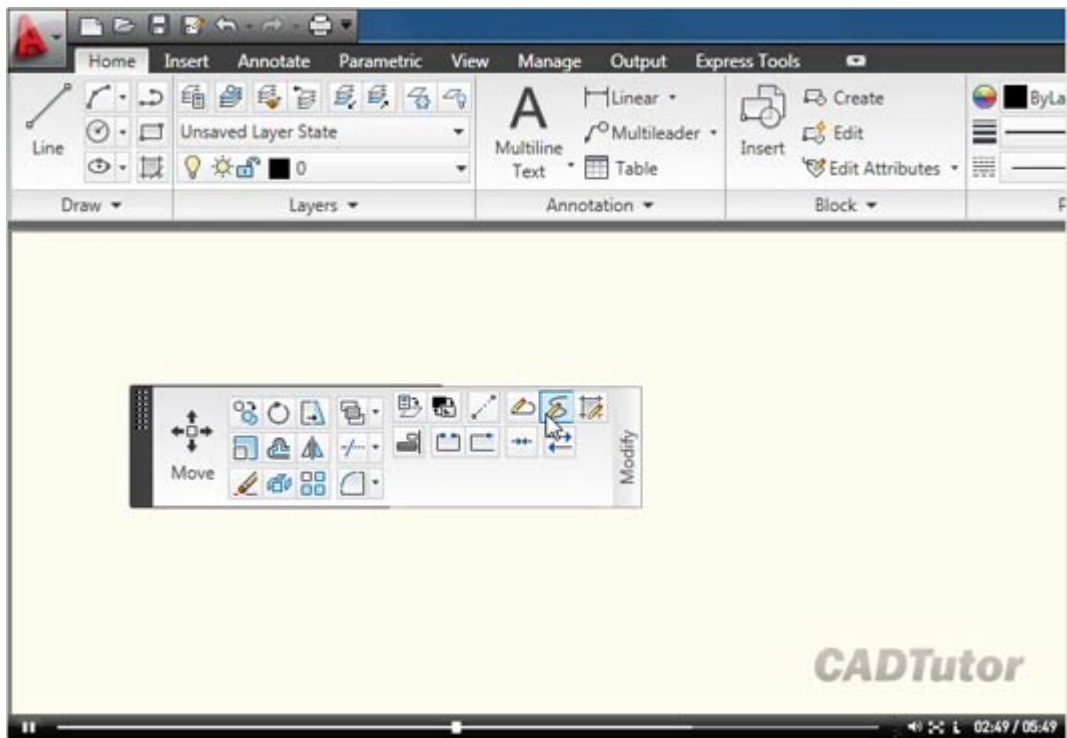
AutoCAD 2010: The User Interface - Part 2



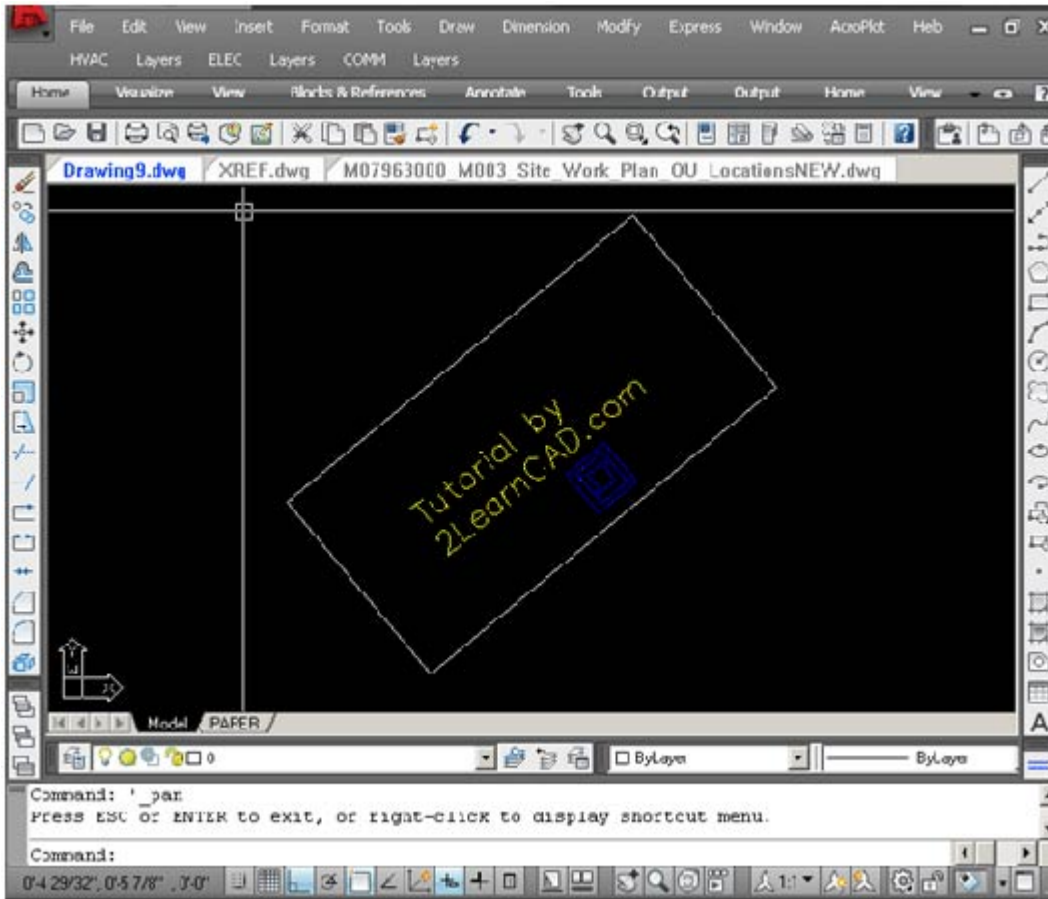
AutoCAD 2010: The User Interface - Part 3



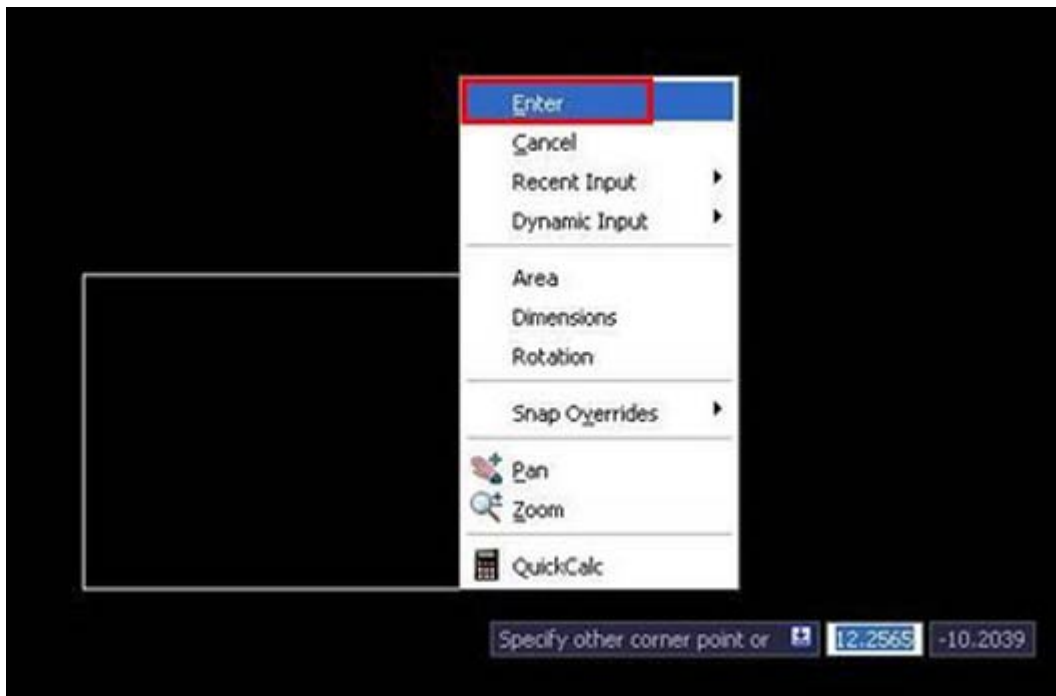
AutoCAD 2010: Ribbon Basics



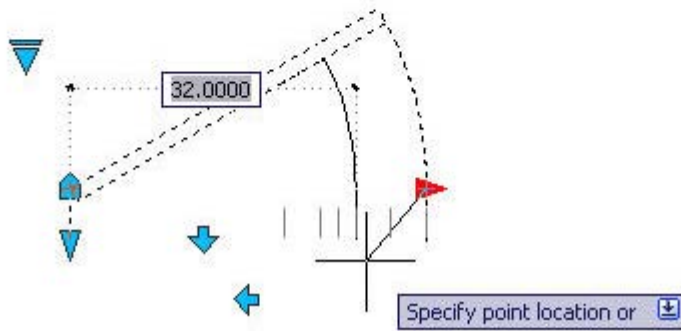
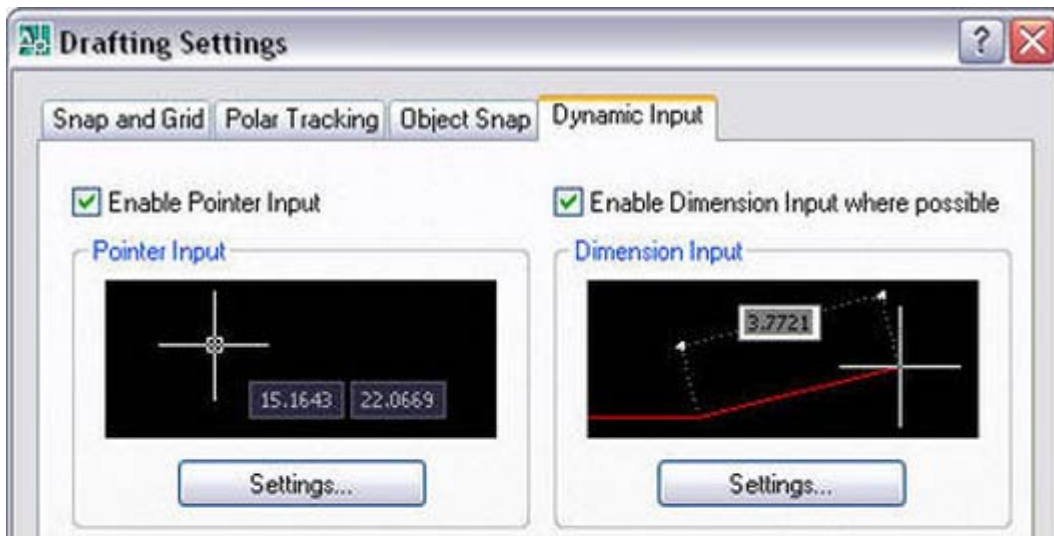
AutoCAD reference - Working with a Rotated Background



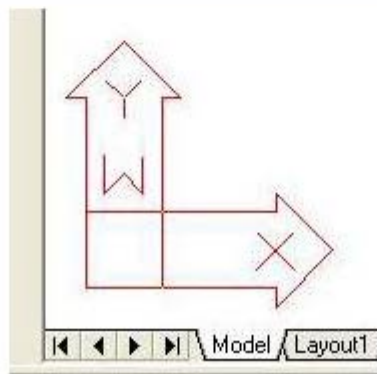
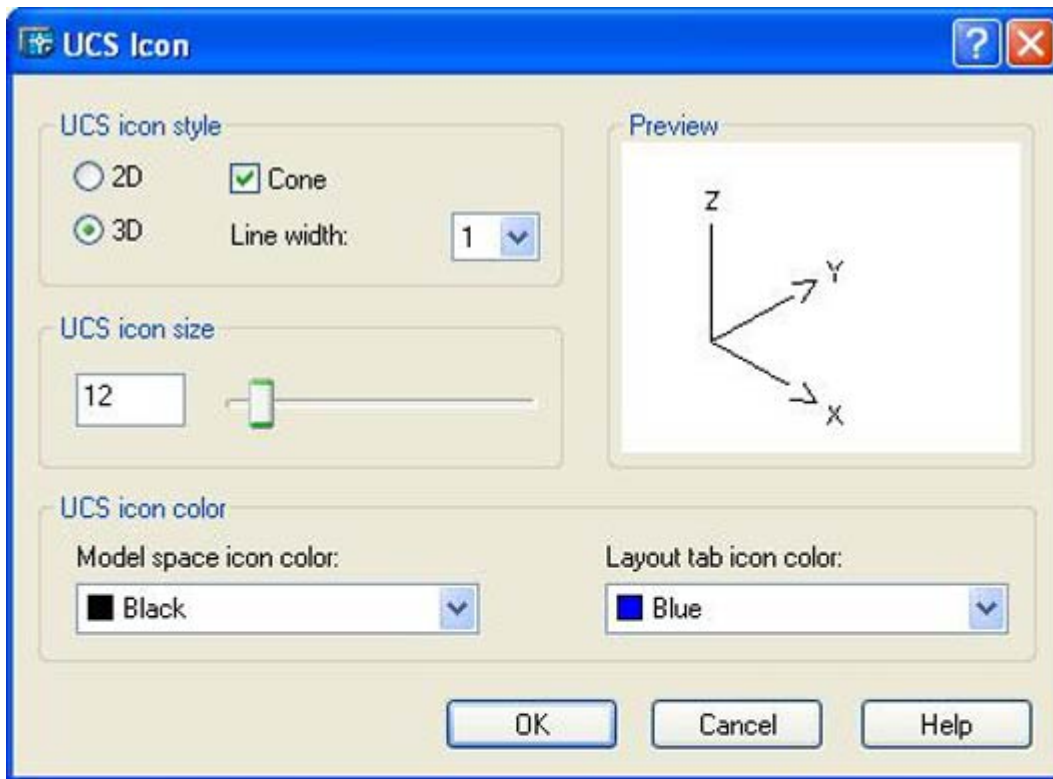
Drawing a Rectangle - Tutorial for Beginners



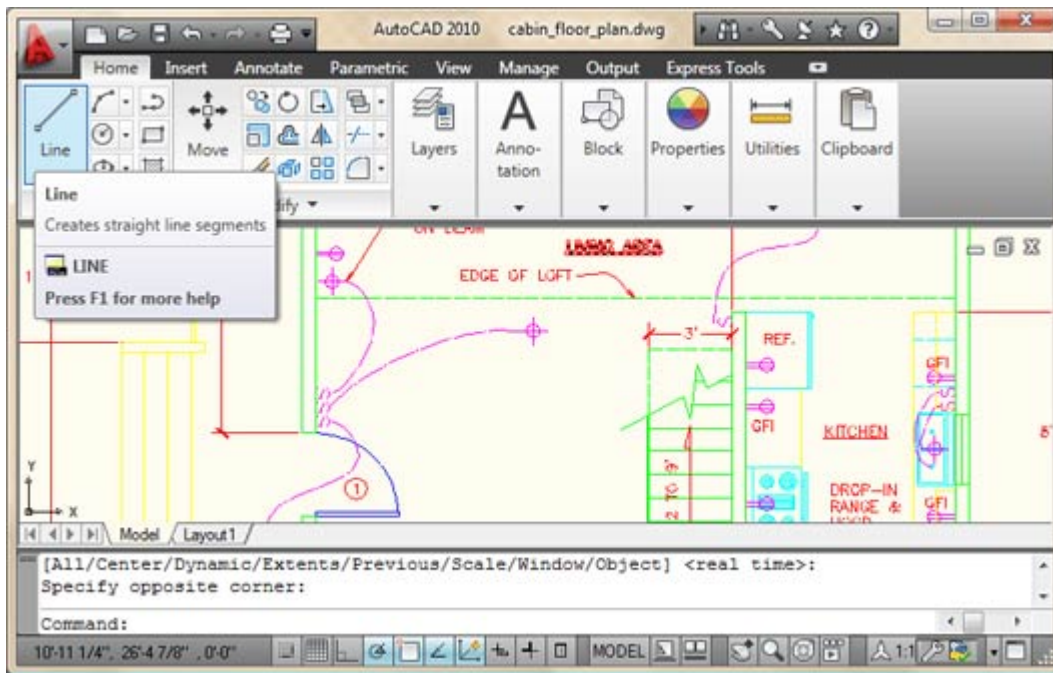
Good Question: Dynamic Block Tool Tips



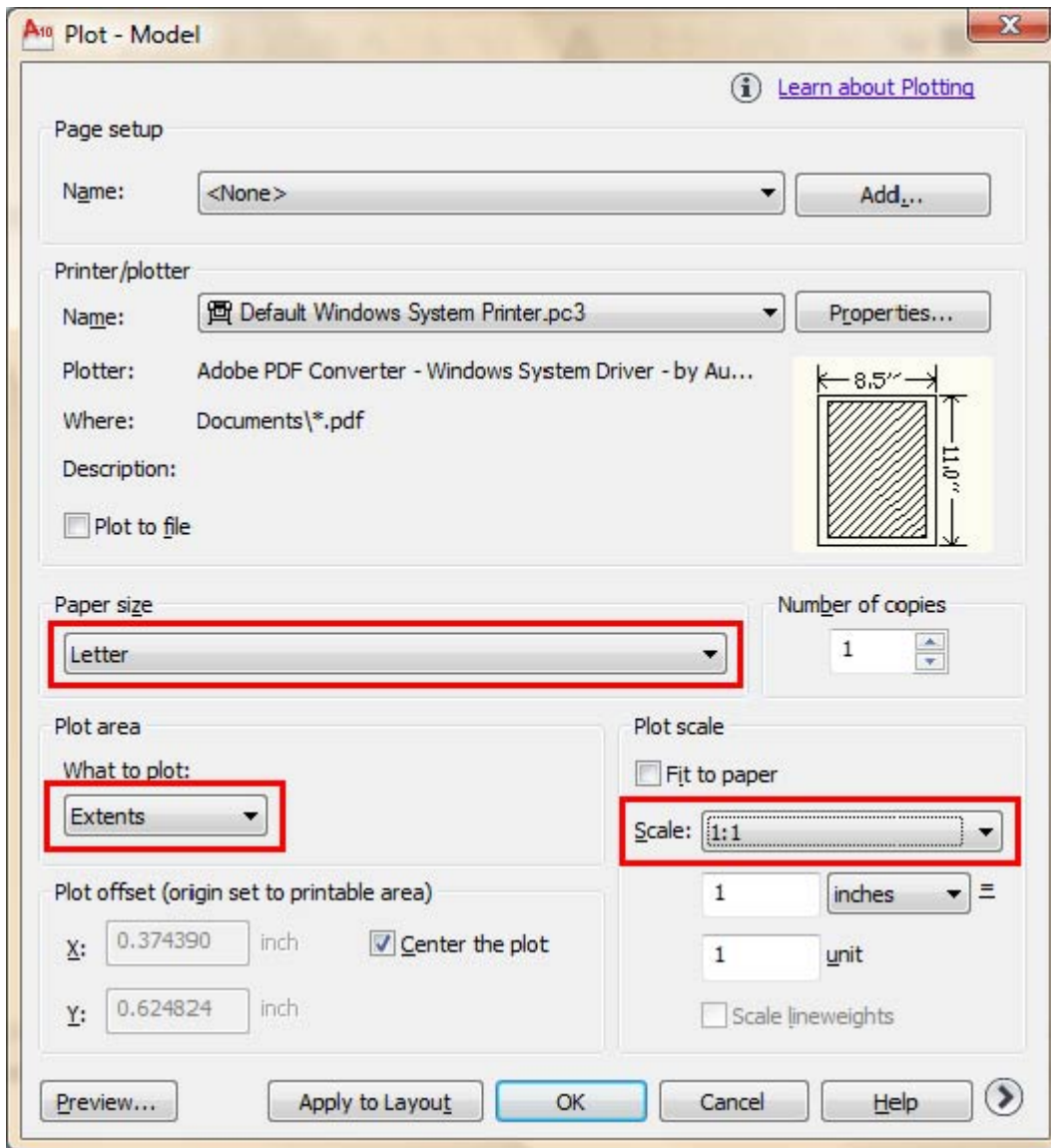
AutoCAD 2004 Customization Tutorial: Customizing UCS Icon



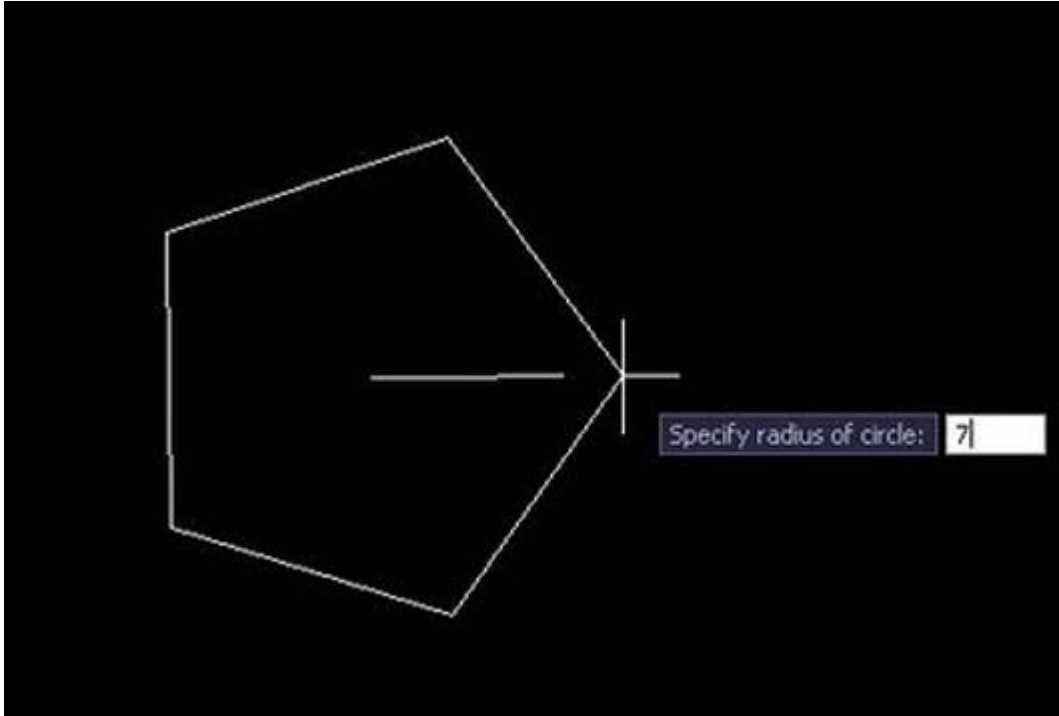
The X,Y Co-ordinate System



ASSIGNMENT 1 INTRO TO DRAWING / MODIFYING COMMANDS



Drawing a circle - Tutorial for Beginners



How to Create Multi Colored Line?

