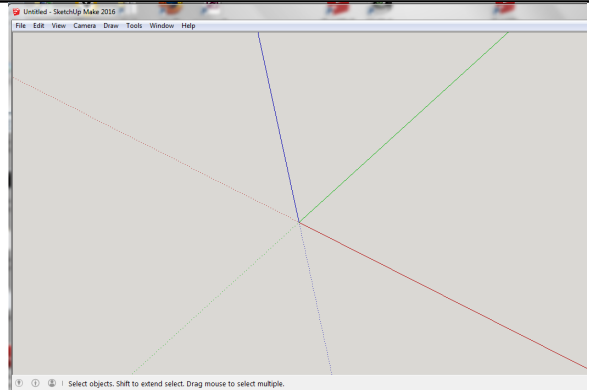


SketchUp Guide, Part 3

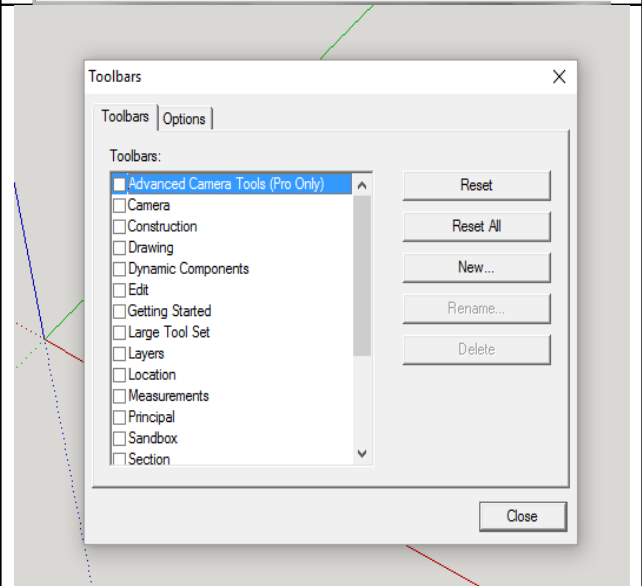
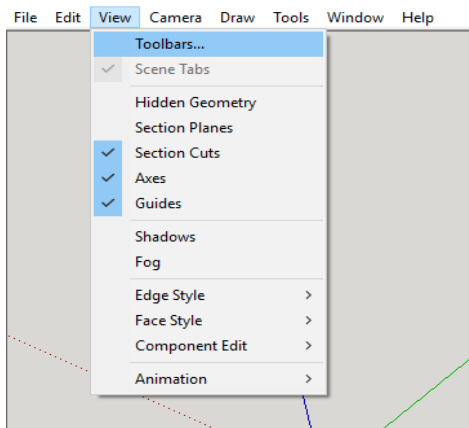
In the first two guides we discussed how to download a copy of SketchUp, how to navigate with Zoom, Orbit and Pan as well as how to construct a 3D solid such as a 1x3 or 2x4. Before we get too detailed into drawing, it would be well to discuss some of the more common drawing tools available in SketchUp.

When you first run SketchUp an empty work area appears that contains no drawing tools.

To see the available drawing tools, left click on View which will display the drop down menu shown below.



Then left click on Toolbars to see the Toolbar Menu (right).

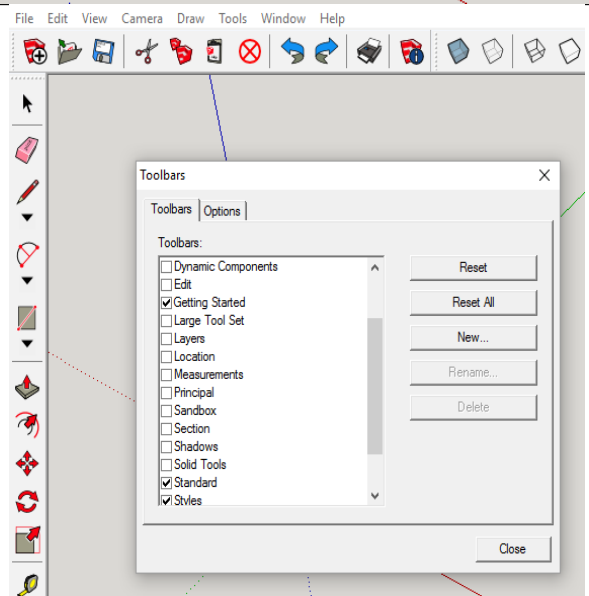


On the Toolbar Menu select:

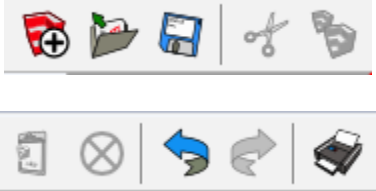


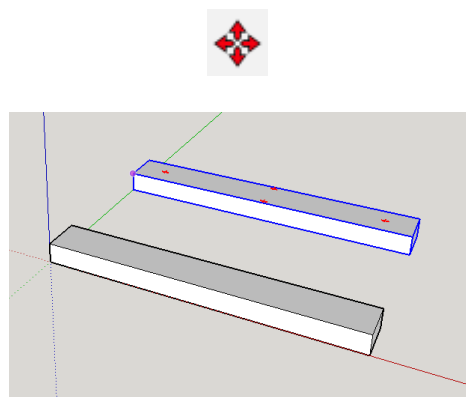
- Getting Started
- Standard
- Styles
- Views


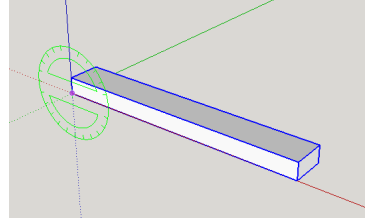
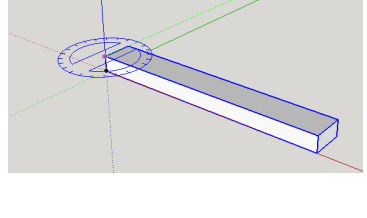
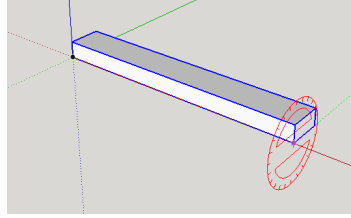
Notice that the tool icons appear on the side and top of your SketchUp work area as they are selected.

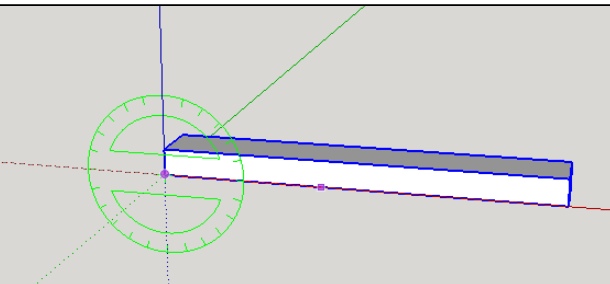
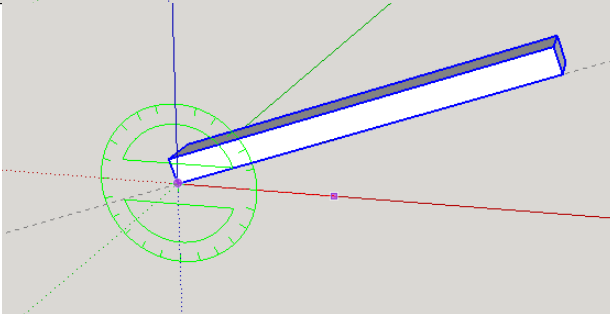
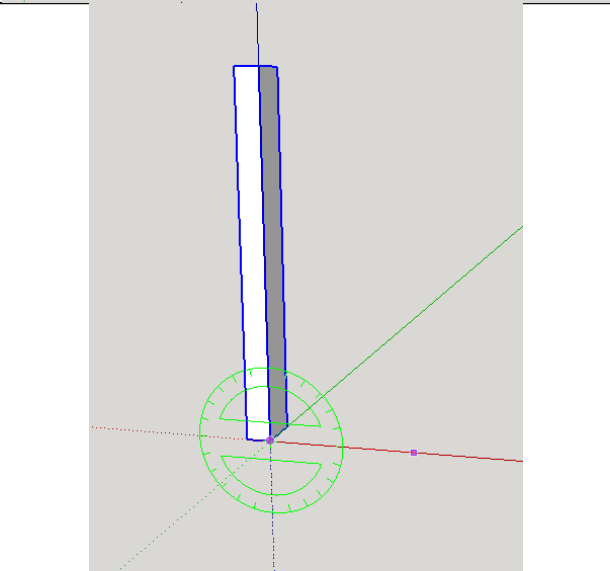
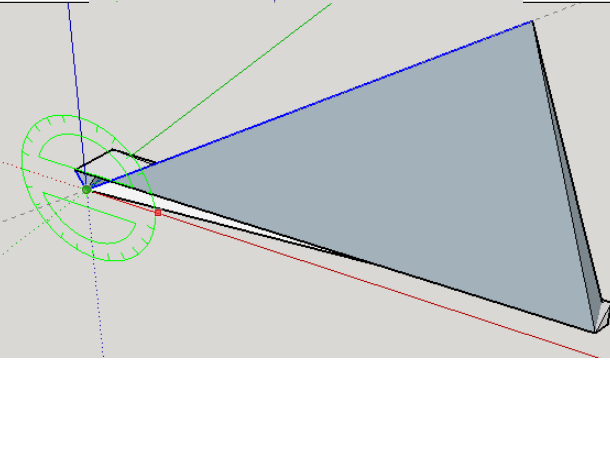
These are only some of the tools that can be selected but they are by far the most useful for new SketchUp users.



Now let's discuss the function of some of these SketchUp tools. Each tool has an icon associated with it to make it easier to reference and remember. Notice that as you run your cursor over any of the tools/icons their name and function appears. The icons that appear across the top of your workspace are very helpful in managing your SketchUp drawing.

<p>The first 10 icons across the top of your workspace provide for the standard Windows functions of: New, Open, Save, Cut, Copy, Paste, Erase, Undo, Redo and Print</p>	
<p>The next set of icons allow drawings to be displayed in x-ray, wire frame and other formats. You will find these alternative displays very valuable when the need arises.</p>	
<p>This set of icons displays your drawing in either an isometric view or as a side, front or top view.</p>	
<p>In the left margin of your workspace you will see the Move tool icon. This tool is used to select and Move a component in any direction. When a component is Clicked with the Move icon the component will appear highlighted in blue which denotes that it has been selected. Move the component in the desired direction and Click again. Or to move a component an exact distance, move it in the proper direction and then instead of clicking, key in the distance you want the component to move and press Return.</p> <p>In SketchUp anytime a distance or angle is keyed in, the value automatically goes into an input field in the very lower right corner of the workspace. Just key the number and press Return.</p> <p>This tool is also used to create and move a copy of the component. To make a copy of a component after it is selected with the Move tool, tap the Ctrl key once. A tiny + sign will appear next to the Move icon. Then Move the component in the desired direction and Click. Or you can type the distance you want the component to move and then press Return.</p>	

<p>The rotate tool icon is used to rotate a component around any axis, Green, Blue or Red.</p>		
		

<p>Rotate is a 3 click operation.</p> <p>Click 1 is at the rotate or pivot point of the component</p> <p>Click 2 is at a point on the component.</p>	
<p>After these 2 clicks, as you begin to move to the desired angle to do the third click the component will rotate at the same time.</p>	
<p>Click 3 - When at the desired angle, click again. This is Click 3.</p> <p>Instead of Click number 3 you can simply type the desired angle of rotation and push Enter. This will rotate the component to the exact angle you specify. This is especially useful if you want to rotate to an odd number of degrees, for example 29 or 37.8</p>	
<p style="text-align: center;">WARNING</p> <p>If after clicks 1 and 2, as you move to the desired angle to do the third click you see something like this - it means that you forgot to first make your board a component. If what you are rotating is not a component, then only the selected line will rotate. To remedy this situation, press Esc to halt the operation. Make the board a component and try again. Making components is covered in "Get started" SketchUp guide (Part 2).</p>	

In the next "Get started" SketchUp guide we'll discuss the Push/Pull tool and then begin constructing a workbench.