



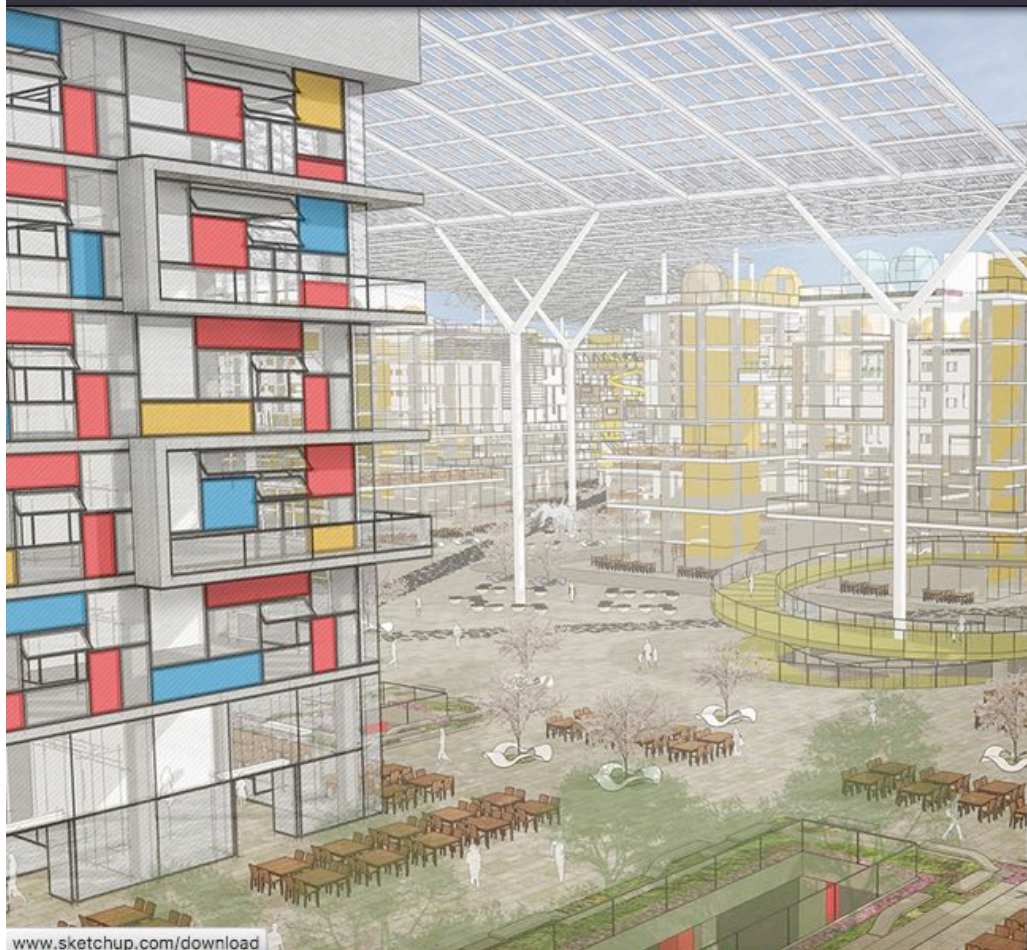
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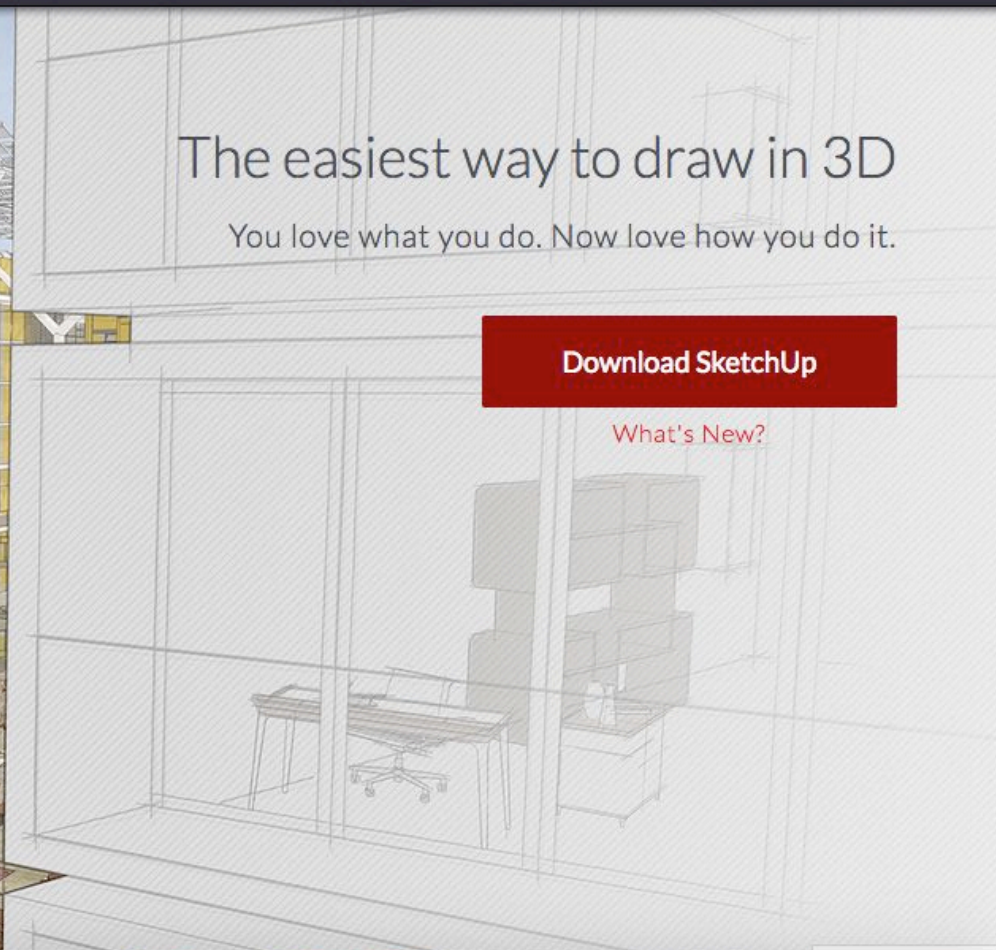
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# The easiest way to draw in 3D

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# SketchUp Make

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Hardware and Software Requirements

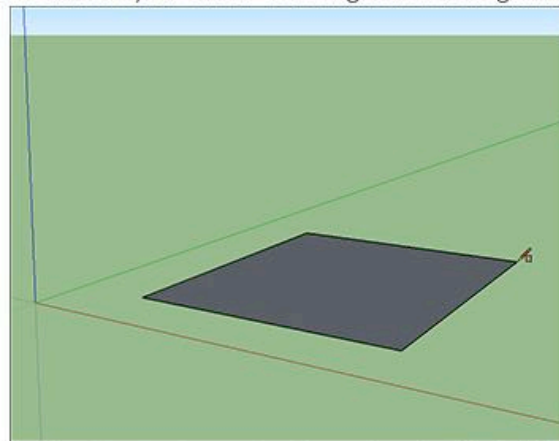
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## Creating your first 3D model in SketchUp

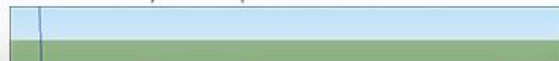
If you've never done 3D modeling in SketchUp (or any other modeling program), the following steps offer a quick overview the basics:

1. Select the person, context-click the selection, and select **Erase** in the context menu that appears.
2. In the Getting Started toolbar, select the **Rectangle** tool (  ).
3. On the ground plane, in the space between the red and green axis, click the **Rectangle** tool cursor (  ).

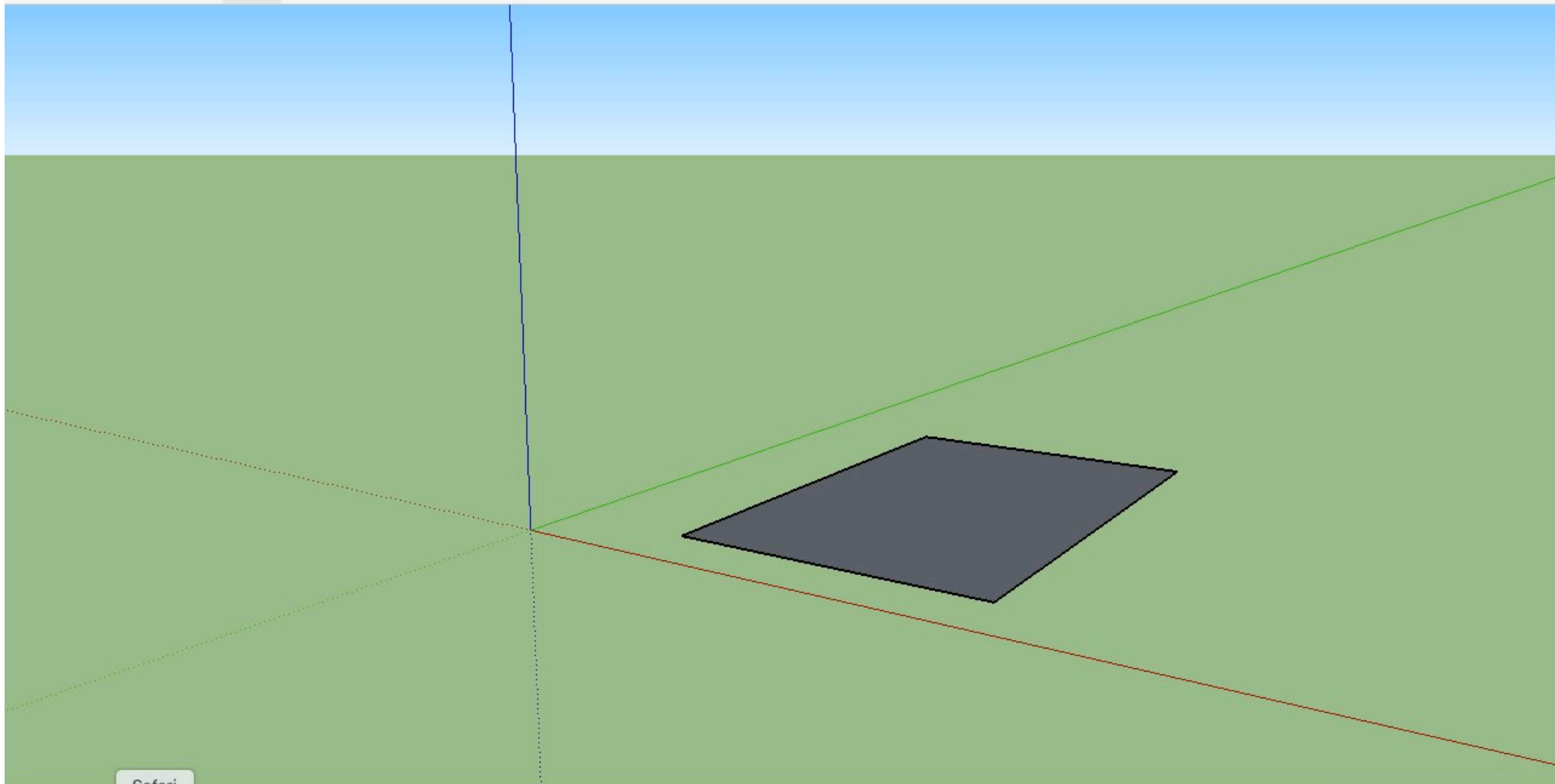
Then move your cursor to the right and click again. A rectangle appears on the ground, as shown here.



4. On the Getting Started toolbar, select the **Push/Pull** tool (  ), and place the Push/Pull cursor over the rectangle you just created, as shown in the following figure.
5. Click and drag your rectangle up into a 3D shape. Keep an eye on the Measurements box and release the cursor when your shape is about 5 feet tall.



Untitled - SketchUp Make 2017



Safari

Select first corner.

Dimensions 7' 8 1/4", 12' 1 1/2"





SketchUpFileEditViewDrawCameraToolsWindowHelp

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Push/Pull

Instructor

### Push/Pull Tool

Push and pull Face entities to add or subtract volume from your 3d models.

#### Tool Operation

1. Hover cursor to select a face.
2. Click on the face.
3. Move cursor to push or pull face into 3D form.
4. Click to finish push/pull operation.
5. Esc = Cancel operation.

#### Pre-Pick Tool Operation

1. Use Select tool to select a face.
2. Activate Push/Pull tool.
3. Click once to set start point of Push/Pull.
4. Click to finish push/pull.
5. Esc = Cancel operation and clear selection.

#### Modifier Keys

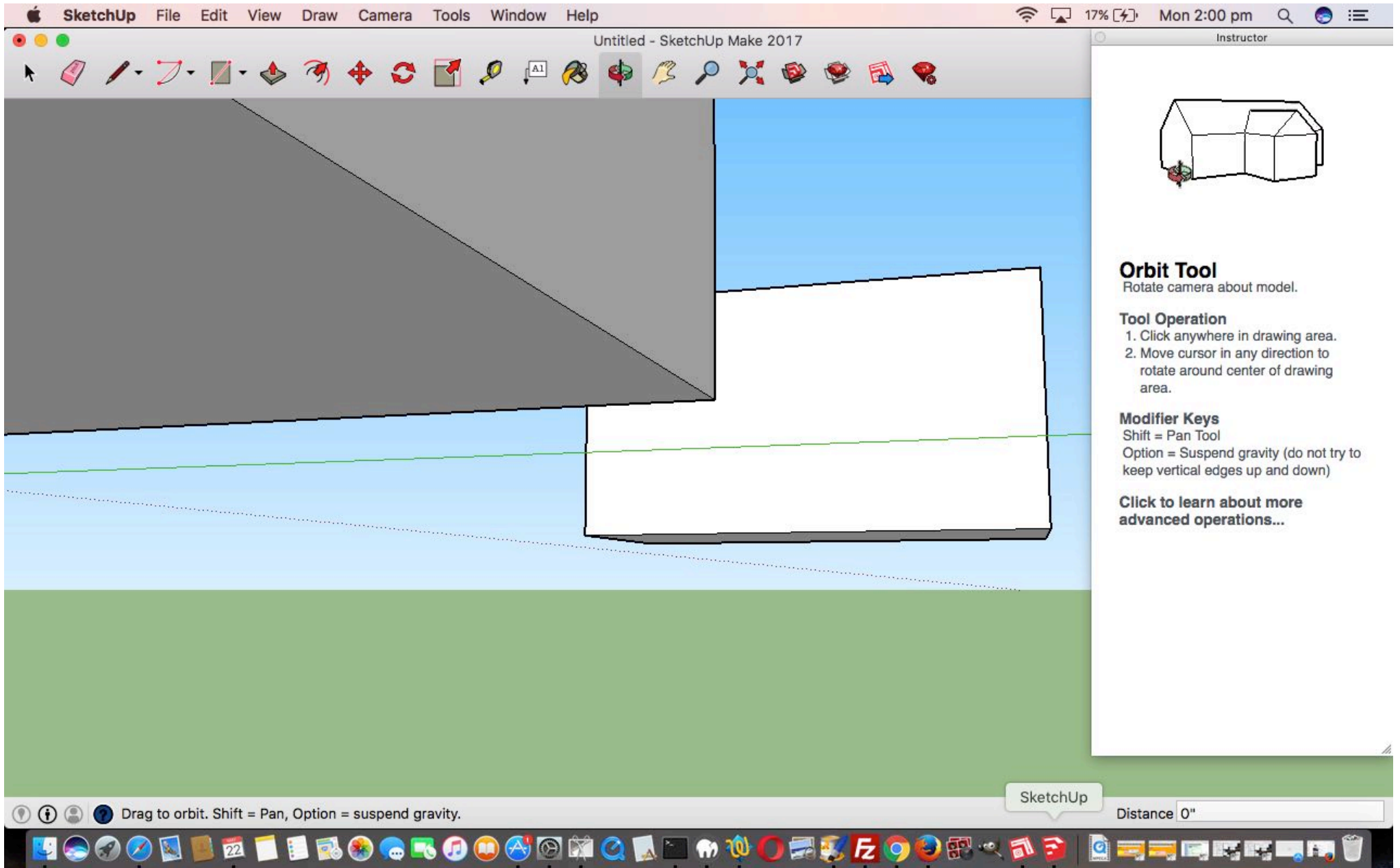
Option = Toggles creating new starting face

Command = Push/Pull while stretching attached faces

[Click to learn about more](#)

Select face to push or pull. Option = create new starting face.

Distance 4' 11 3/4"



## Orbit Tool

Rotate camera about model.

### Tool Operation

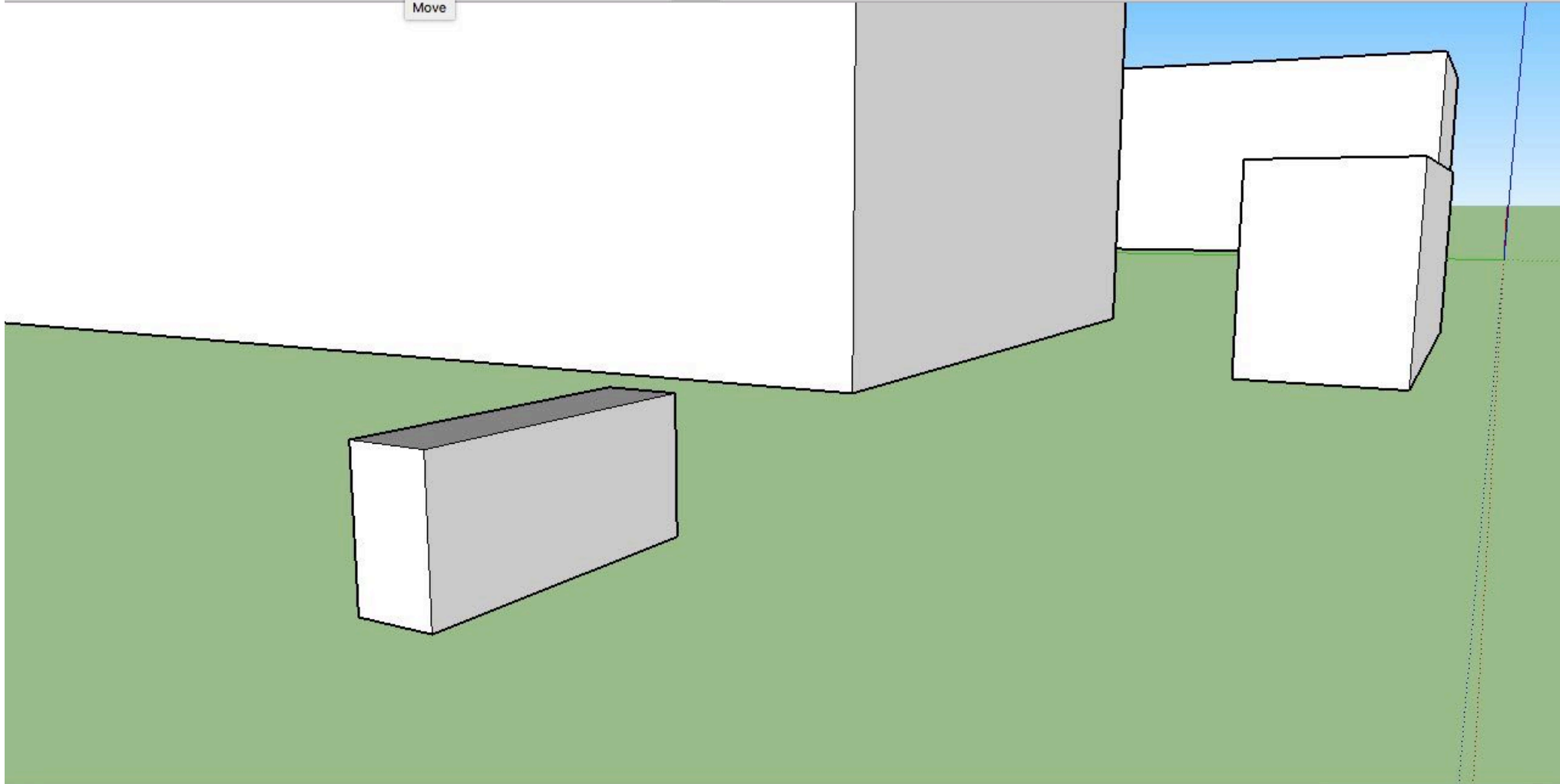
1. Click anywhere in drawing area.
2. Move cursor in any direction to rotate around center of drawing area.

### Modifier Keys

Shift = Pan Tool

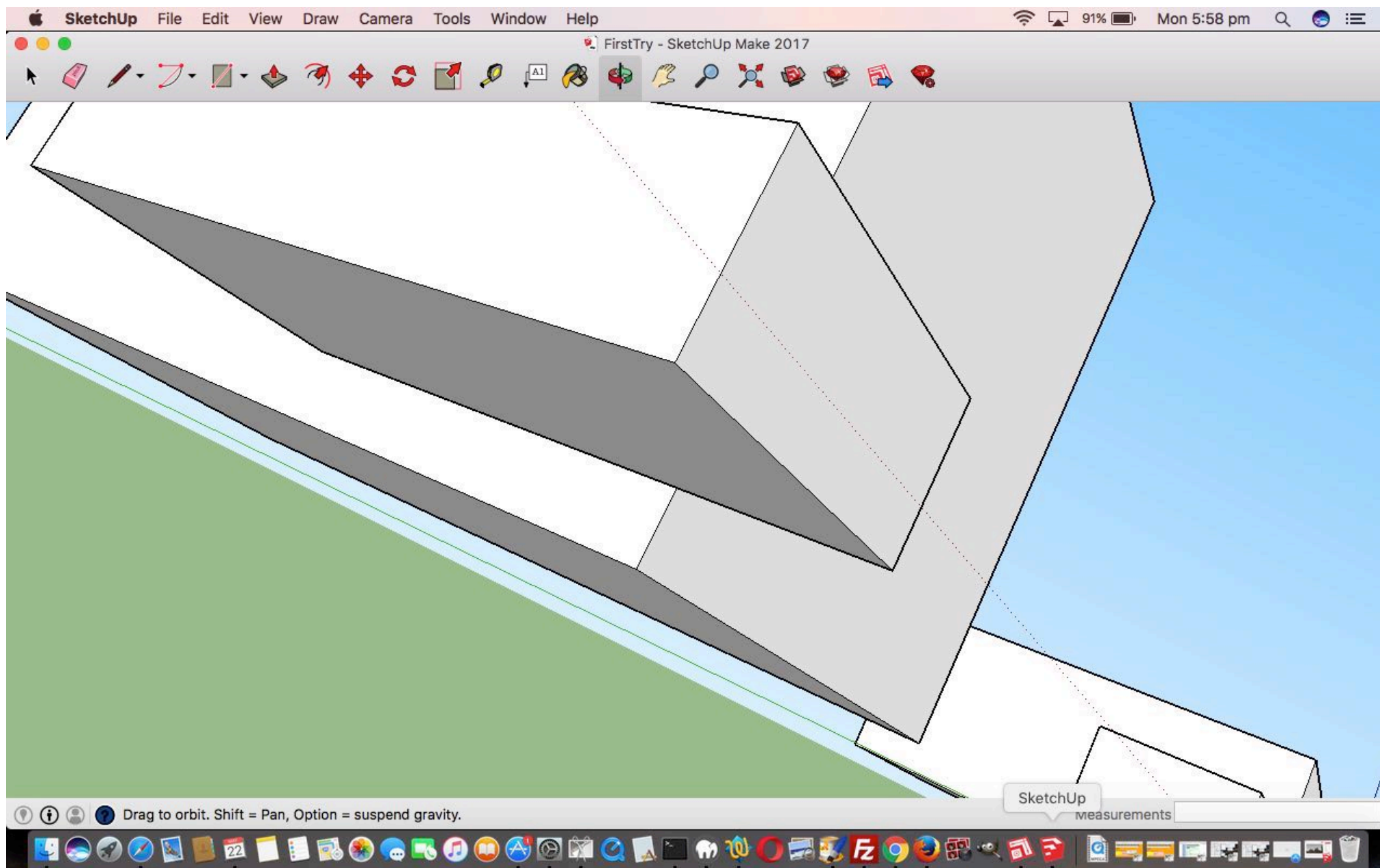
Option = Suspend gravity (do not try to keep vertical edges up and down)

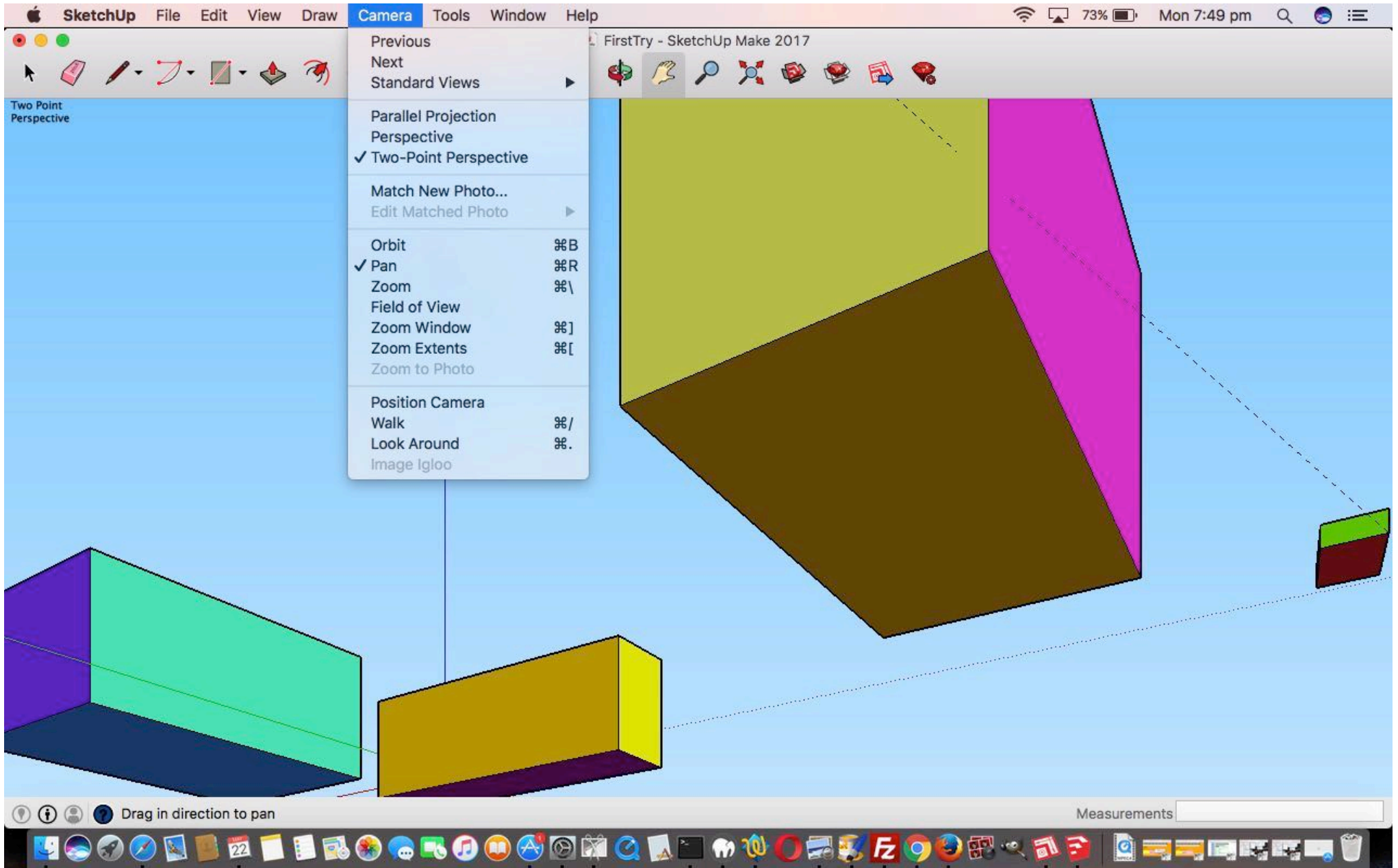
**Click to learn about more advanced operations...**











## The Palace of Westminster



The Palace of Westminster, also known as the Houses of Parliament or Westminster Palace, is the meeting place of the two houses of the Parliament of the United Kingdom—the House of Lords and the House of Commons. It lies on the north bank of the River Thames in the heart of the London borough of the City of Westminster, close to the historic Westminster Abbey and the government buildings of Whitehall and Downing Street. The name may refer to either of two structures: the Old Palace, a medieval building complex most of which was destroyed in 1834, and its replacement New Palace that stands today; it has retained its original style and status as a royal residence for ceremonial purposes. (Source: Wikipedia) A BIG THANKYOU to Jake Martin for permission to include his model of Big Ben, which I've subsequently re-



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