

Getting Started

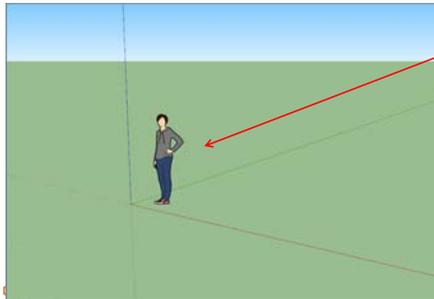
1

Double-click the **SketchUp** icon

or click:

Start → **All Programs** → **SketchUp 2018** → **SketchUp 2018**

The start screen should look something like this:



This person is about 5' 5" tall –
this sets the scale for what you
are about to create

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Moving Around in 3D

2



You have a 3-button mouse. The middle button acts both as a pushbutton and as a scrollwheel.

Mouse Scrollwheel = Zoom in and out
Middle Mouse Button = Rotate in 3D
Shift Middle Mouse Button = Move left-right and up-down



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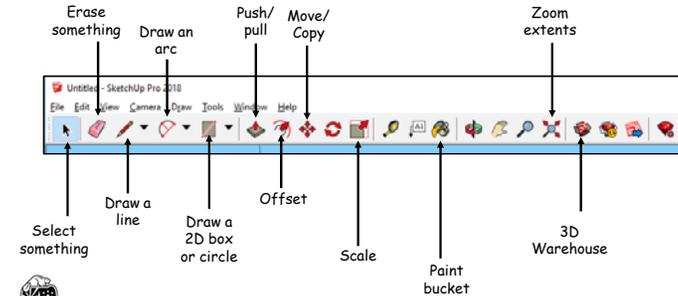
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Getting Started Toolbar

3

The icons across the top are really important:

(The **Zoom extents** icon will zoom in as much as possible without making any of your object disappear off the screen)



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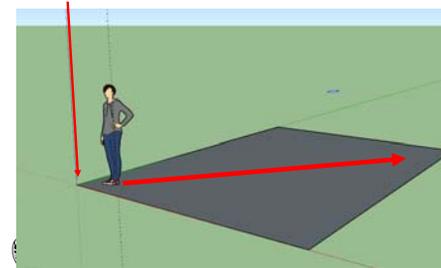
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Drawing a 2D Box

4



This is called
The Origin



Click on the **Draw-a-Box** icon, then click on the origin, and while holding down the mouse, drag in this direction

We are going to build a house, so make this square an appropriate size, given that the person is almost 6 feet tall.

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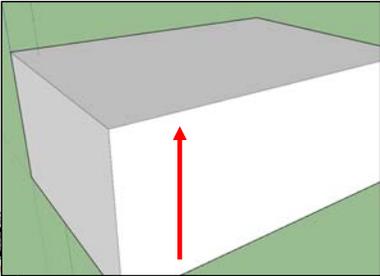
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Lifting it into a 3D Box

5



Click on the **Push/pull** icon, then click on the box you just created, and while holding down the mouse, drag in this direction



We are going to build a house, so make this height an appropriate size, given that the person is almost 6 feet tall.

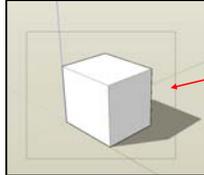
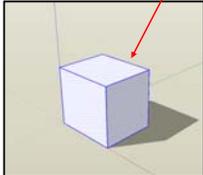
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Deleting an Object

6



1. Select the **Select** icon
2. Select the object to delete by dragging a box around it with the cursor
3. Hit the **Delete key** (*not Backspace*)

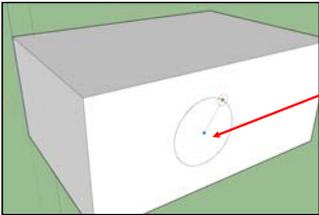
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Adding more detail to an existing face

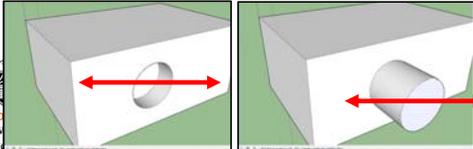
7



Click on the **Draw-a-circle** icon, then click on one face of the 3D solid you just created, and while holding down the mouse, drag in some direction



Click on the **Push/pull** icon, then click on the circle you just created, and while holding down the mouse, drag in this direction

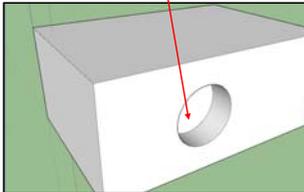


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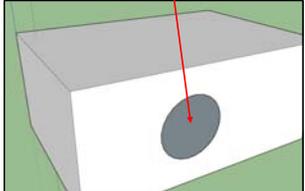
The difference between pushing a hole and cutting a hole

8

If you push the circle in, you get a tunnel with walls and a back face



If you erase the circle by clicking on the circle, then hitting **Delete** (*not Backspace*), you get a window cut in the wall.



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Let's give it a roof

9

Click the **Draw-a-Line** icon to draw a line across the top of the solid. But, you want the line to go midpoint-to-midpoint, which is a good place to raise the roof line from.

So, before clicking to draw the line, slide the pencil back and forth until the cyan dot appears, indicating that you've found this edge's midpoint.

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Let's give it a roof

10

Now click on the **Move/Copy** icon, then click on the line you just drew, and drag it upwards

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Want to make it look more interesting?

11

Click on **Materials**, then click on a **category**

1. Click on a specific color or pattern
2. With the Paintbrush icon, click on the surface(s) you want to apply it to.

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Pure colors are considered Materials too

12

1. Select **Colors**
2. Treat the color just like you did the material

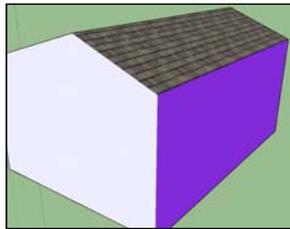
Scroll up and down to get more colors

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Hiding Geometry

13



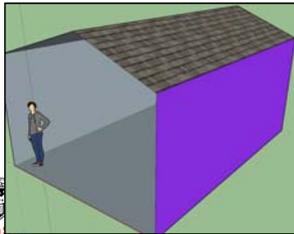
Sometimes it would be nice to temporarily eliminate some geometry so that you could see inside something. This is referred to as **Hiding**.

To hide a piece of geometry, select it.

Then, right-click and select **Hide** from the pop-up menu. The selected object looks like it is gone, but it isn't. It's just hidden.

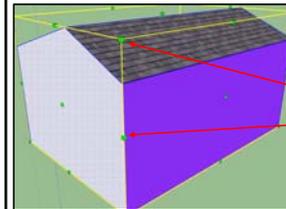
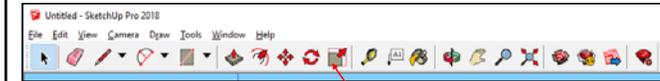
This is useful for putting things into an object (such as furniture) or for editing the object (as is needed here).

To bring it back, go up to the menu and click on **View**. Then click on **Hidden Geometry**. Then select the geometry that you hid. Right-click on **Unhide**.

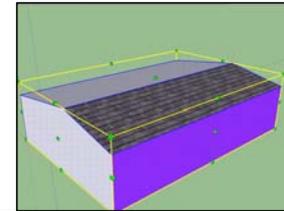


Scaling an Object

14



1. Select an object
2. Select the **Scale icon**
3. Move the green dots with the mouse



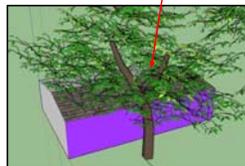
Moving a side green dot will stretch the object in that direction. Moving a diagonal dot will scale the object equally in all directions.

3D Warehouse

15



1. Click on the 3D Warehouse icon
2. Type in the kind of 3D object you are looking for. (**Tree** in this case.)
3. Click on the tree you want.
4. Click **Download**.
5. Click **Yes**.
6. You might have to scale the object to better match your scene



Shadows

16

1. Click **Shadows**
2. Click on the box in the upper-left corner
3. You can select the time-of-day and day-of-year

