

How does Google SketchUp Work?

Tutorial to Design a Set of Stairs

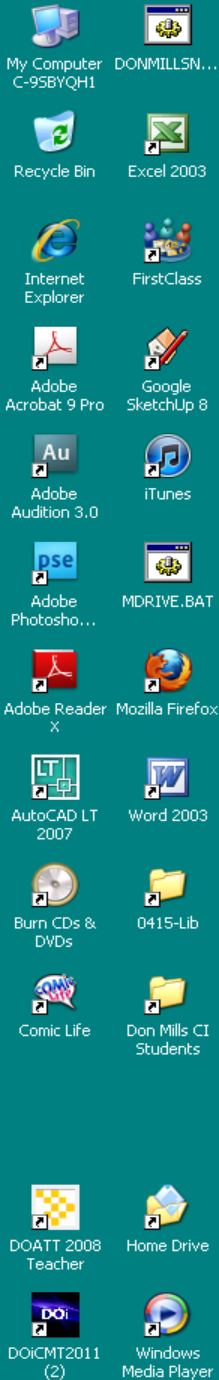


What is Google SketchUp?

- Google SketchUp is a 3D designing software.
- It allows people to recreate or create a 3D design.
- You can create landscapes, buildings, furniture, and many other objects.
- It is a useful program for designers, carpenters, landscapers, and people who like to recreate/create places and objects.

How to Start Google SketchUp

- First you open Google SketchUp.
- Depending where you are, it could be in different places (desktop, program files, other drives.)
- (At School) Start > Programs > Google SketchUp 8
- Click on the template tab.



Welcome to SketchUp

Google™ SketchUp Pro

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Remaining Evaluation Time: 5.87 Hours

Default Template: No Default Template [Choose Template](#)


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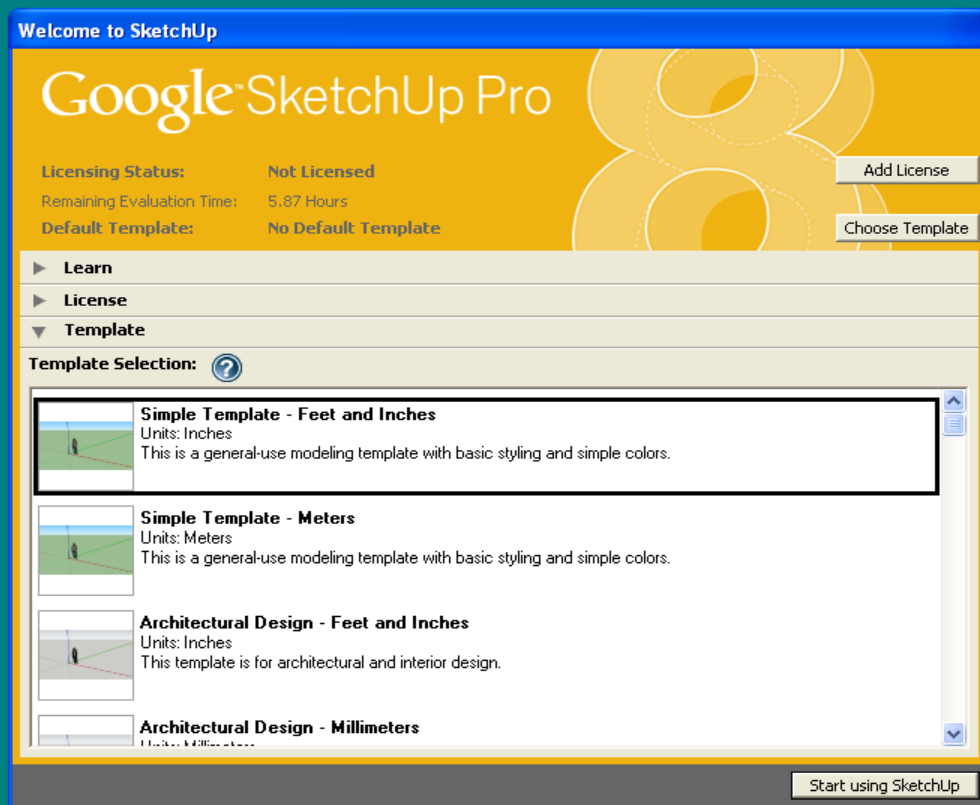
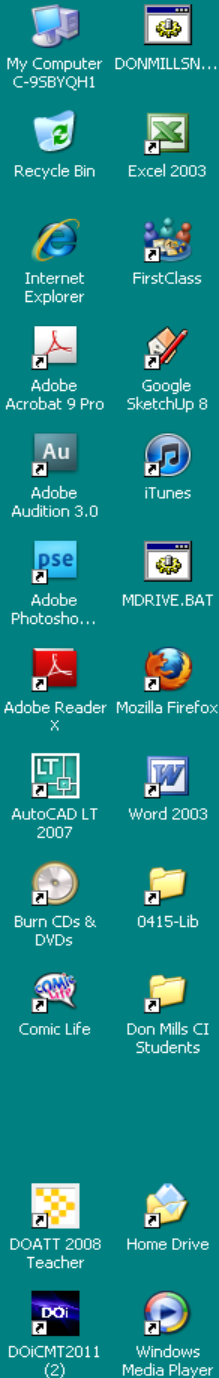


Hollywood artist Harald Belker is a SketchUp superstar

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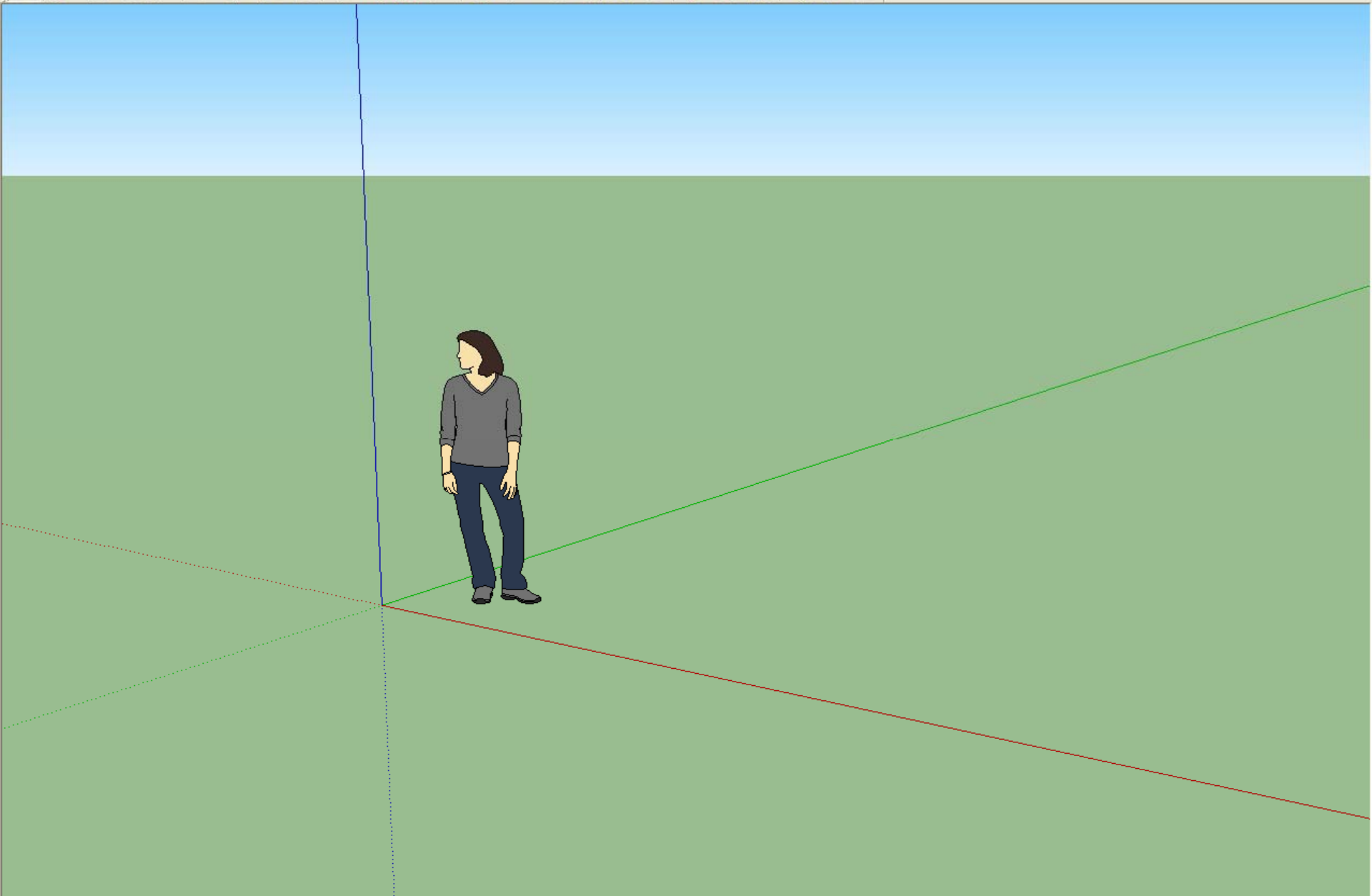
► Template

[Start using SketchUp](#)






How to Start Google SketchUp




- There are different templates that are available to you. There are templates for different types of models, designs, views, and unit of measurements.
- All the tools in each type of template is the same.






Basic Tools

-  Select Tool: With the select tool , you can modify objects you have created. The shortcut is the spacebar.
-  Line Tool: This tool draws lines with two end points. You can join lines together, divide faces of an object, and when connected it will create a filled in shape. The shortcut is “l.”
-  Rectangle Tool: This tool draws rectangular figures. When you drag the corners, it will change the shape of the rectangle.




Basic Tools

-  Circle Tool: This tool allows you to draw circles. The shortcut is “c.”
-  Arc Tool: This tool allows you to draw an arc (multiple line segments). The shortcut is “a.”
-  Make Component: Allows you to make a component out of the selected products/entities.




Basic Tools

-  Eraser Tool: This tool deletes entities, and can hide and soften edges. The keyboard shortcut is “e.”
-  Tape Measure Tool: This tool measures distances, makes guidelines/points, and scales a model. The shortcut is “t.”
-  Paint Bucket Tool: This tool assigns items a colour or a material. The shortcut is “b.”


Basic Tools

-  Push/Pull Tool: This tool pushes or pulls a face to add/subtract volume. The shortcut is “p.”
-  Move Tool: This tool moves, stretches, and copies geometry. It also rotates selected objects. The shortcut is “m.”
-  Rotate Tool: This tool rotates, stretches, distorts, or copies items along a circular path. The shortcut is “q.”

Basic Tools

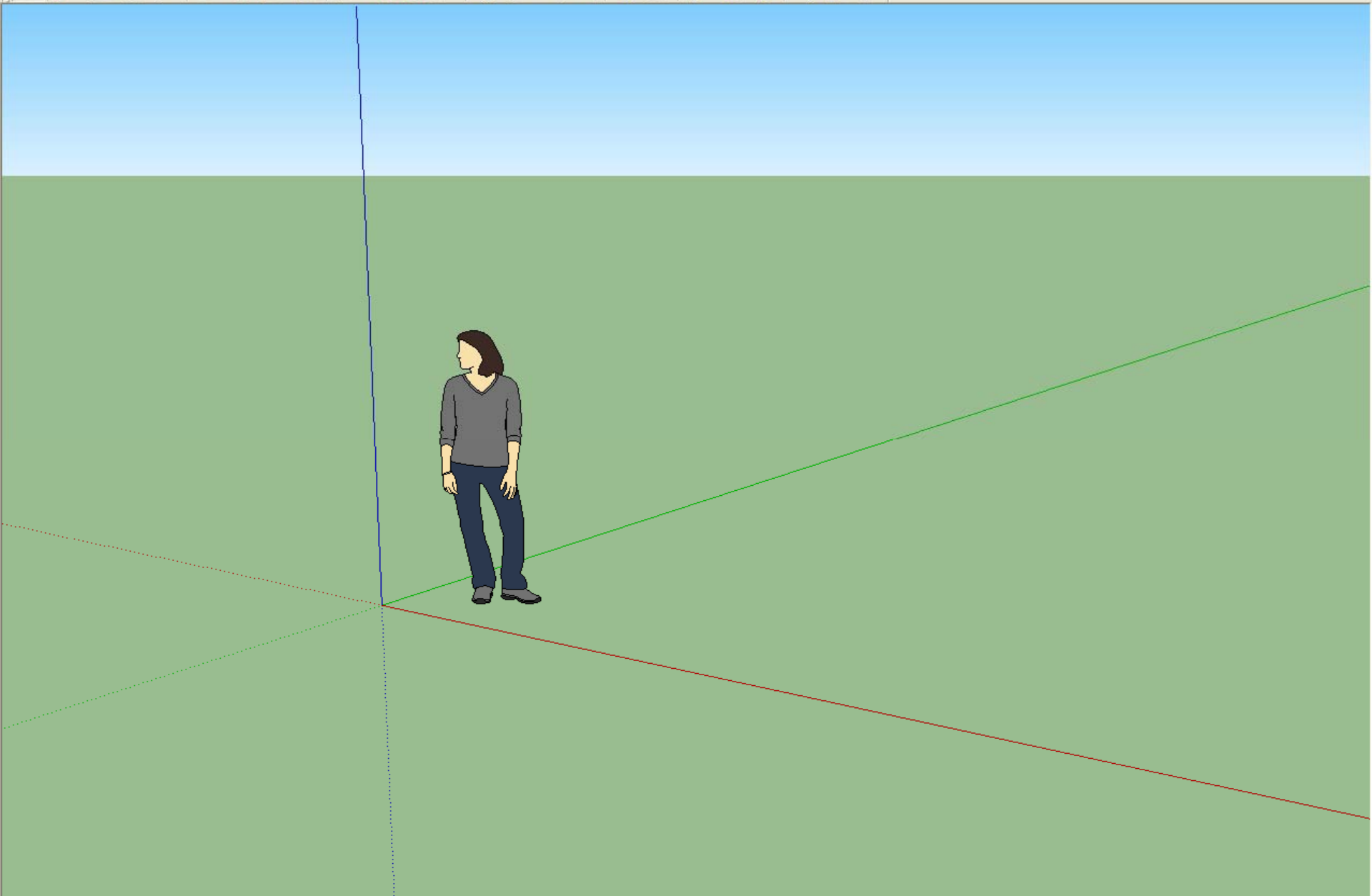
-  Offset Tool: This tool creates similar shapes to the originals. This will always create a new face. The short cut is “f.”
-  Orbit Tool: This tool rotates the camera about the model. The shortcut is “o.”
-  Pan Tool: This tool moves the camera vertically and horizontally. The shortcut is “h.”

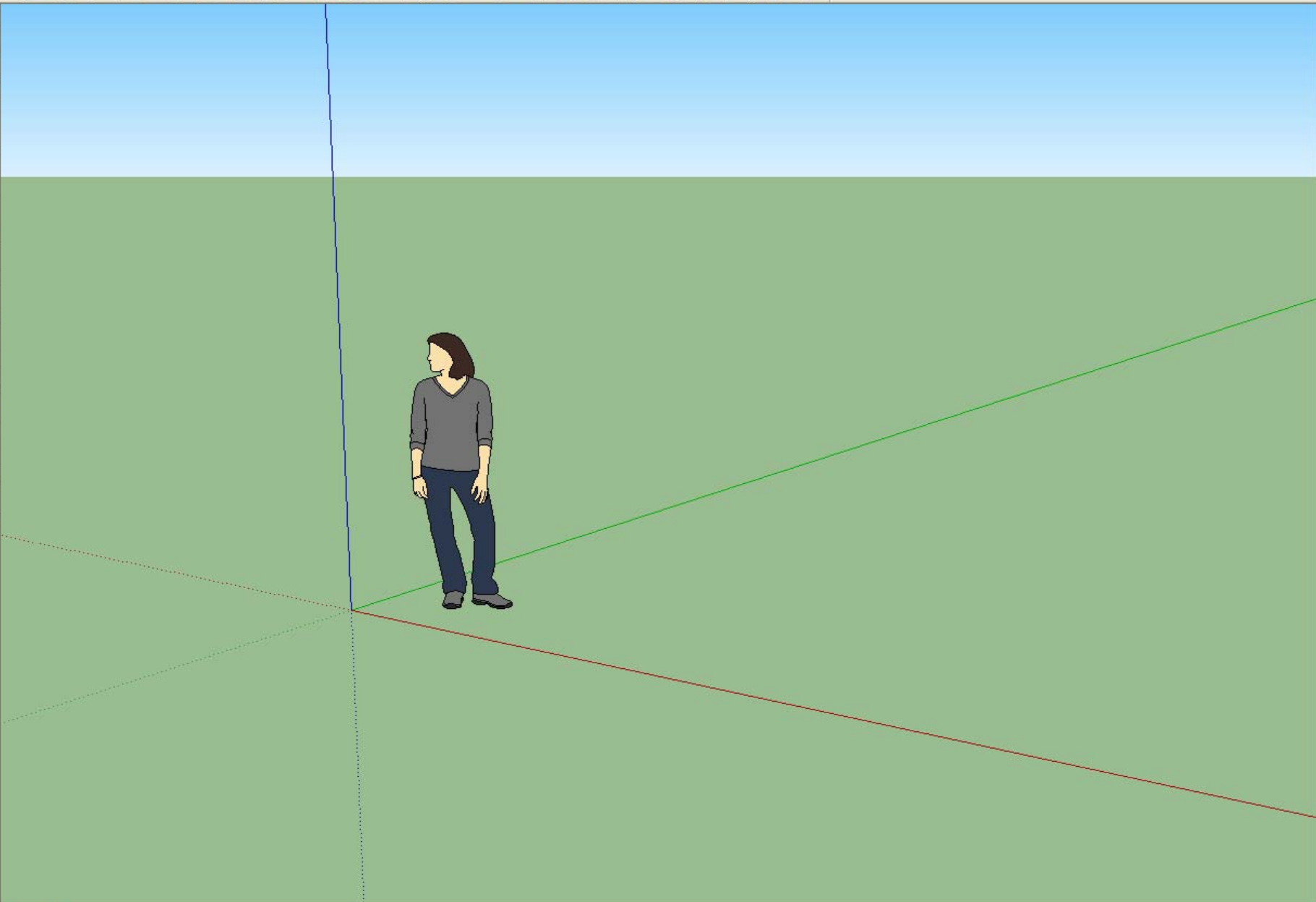
Basic Tools

-  Zoom Tool: This tool moves the camera in or out. The shortcut is “z.”

How to Start Google SketchUp (continued)

- You have a choice of two different toolbars. The simple toolbar (at the top of the screen) or the large tool set
- (view>toolbars>large tool set)



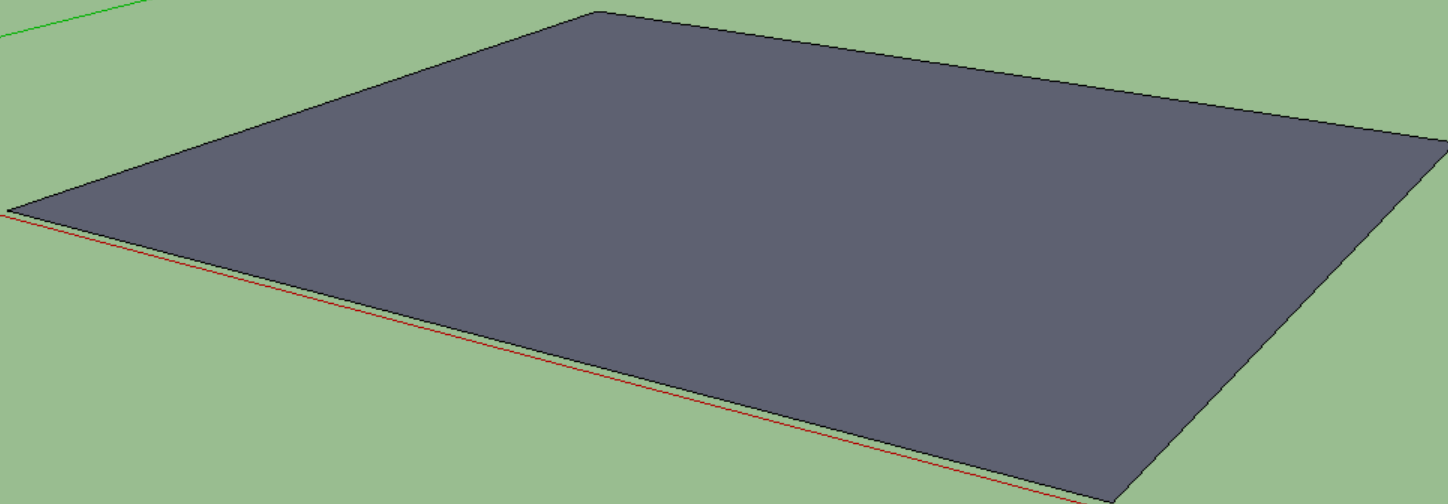


Example Making Stairs:



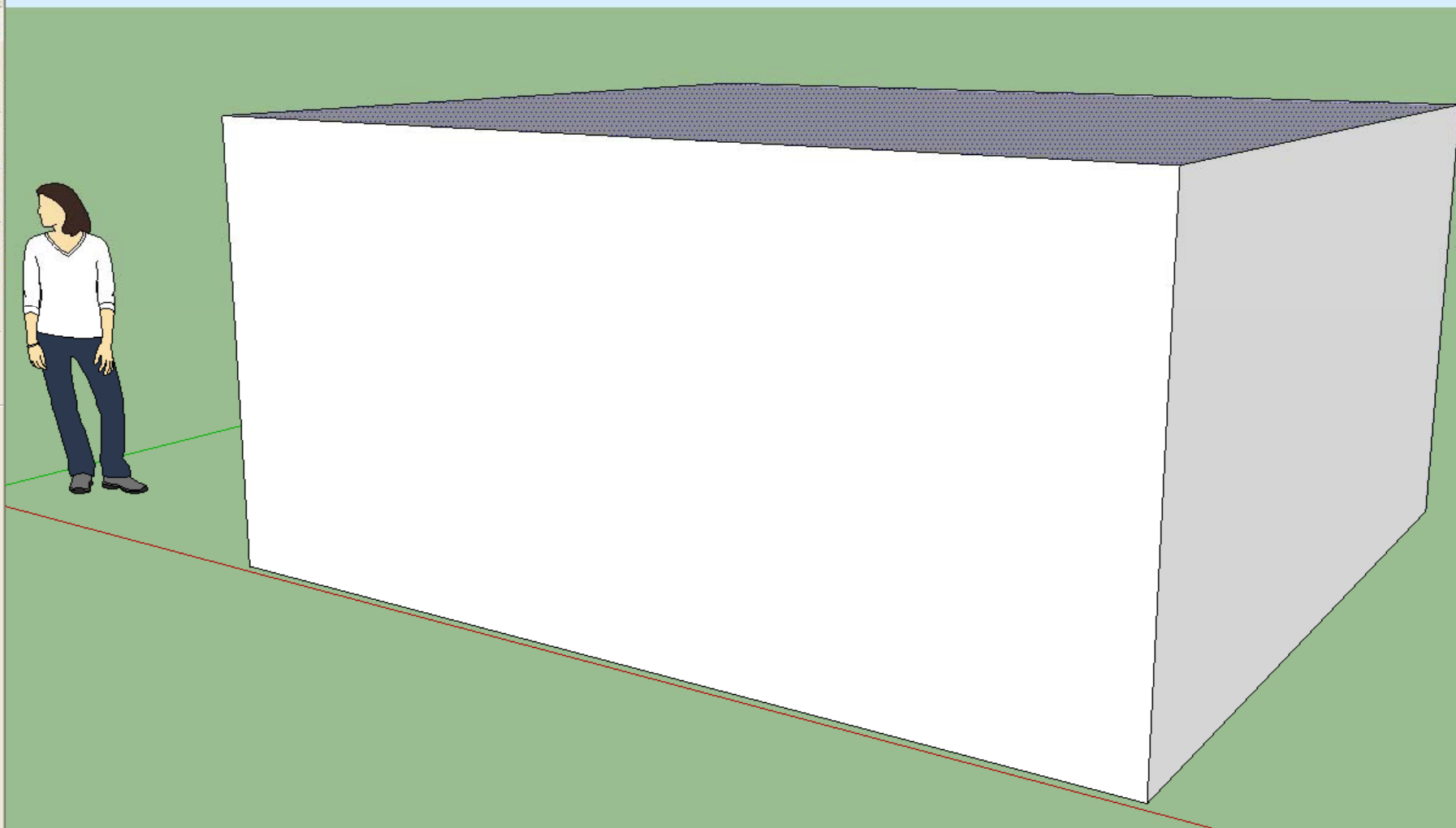


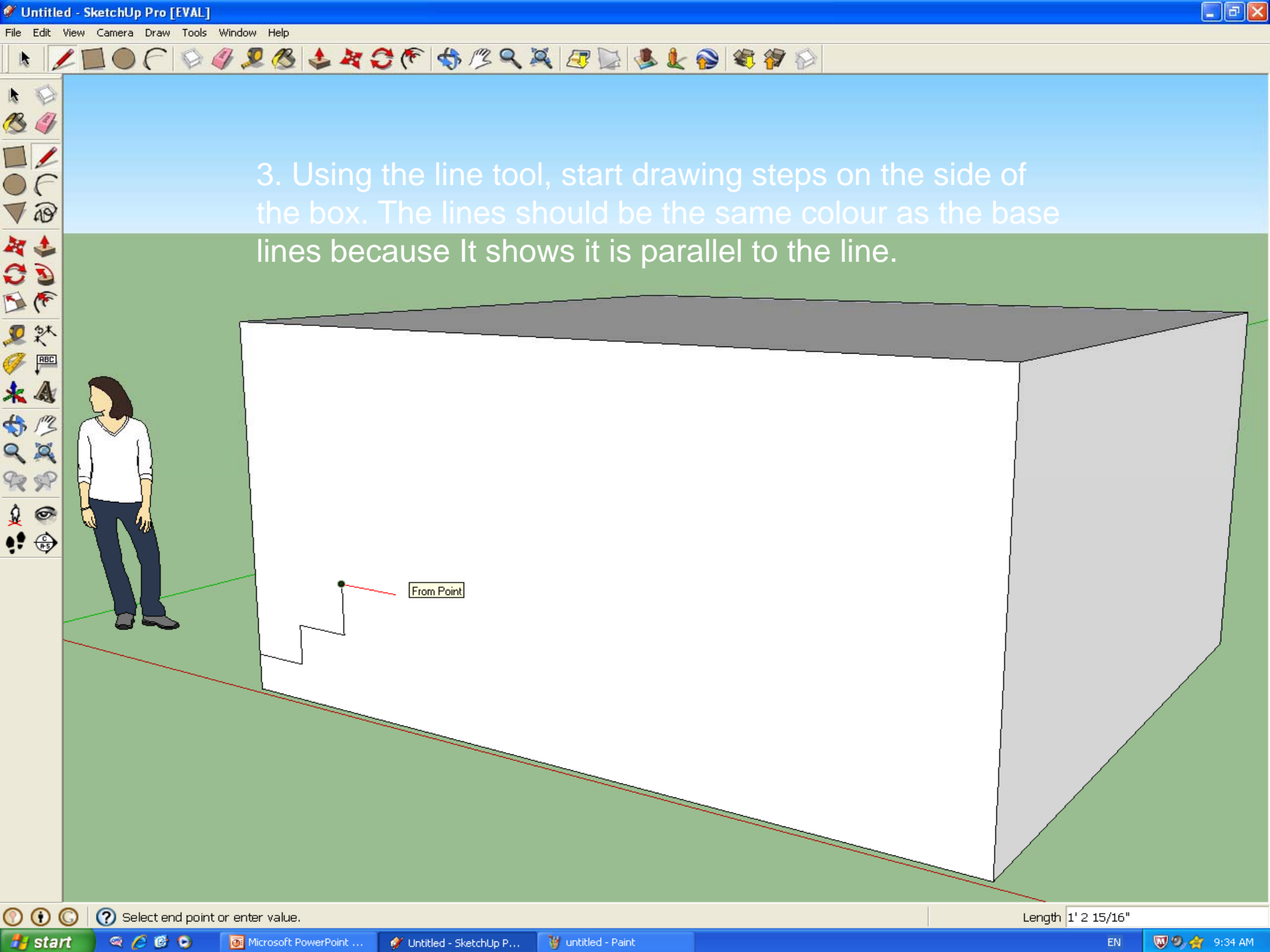
Step 1: Make A Rectangle of any size (lined up to the base with the red and green lines.)





2. Pull/Push the Rectangle Upwards.

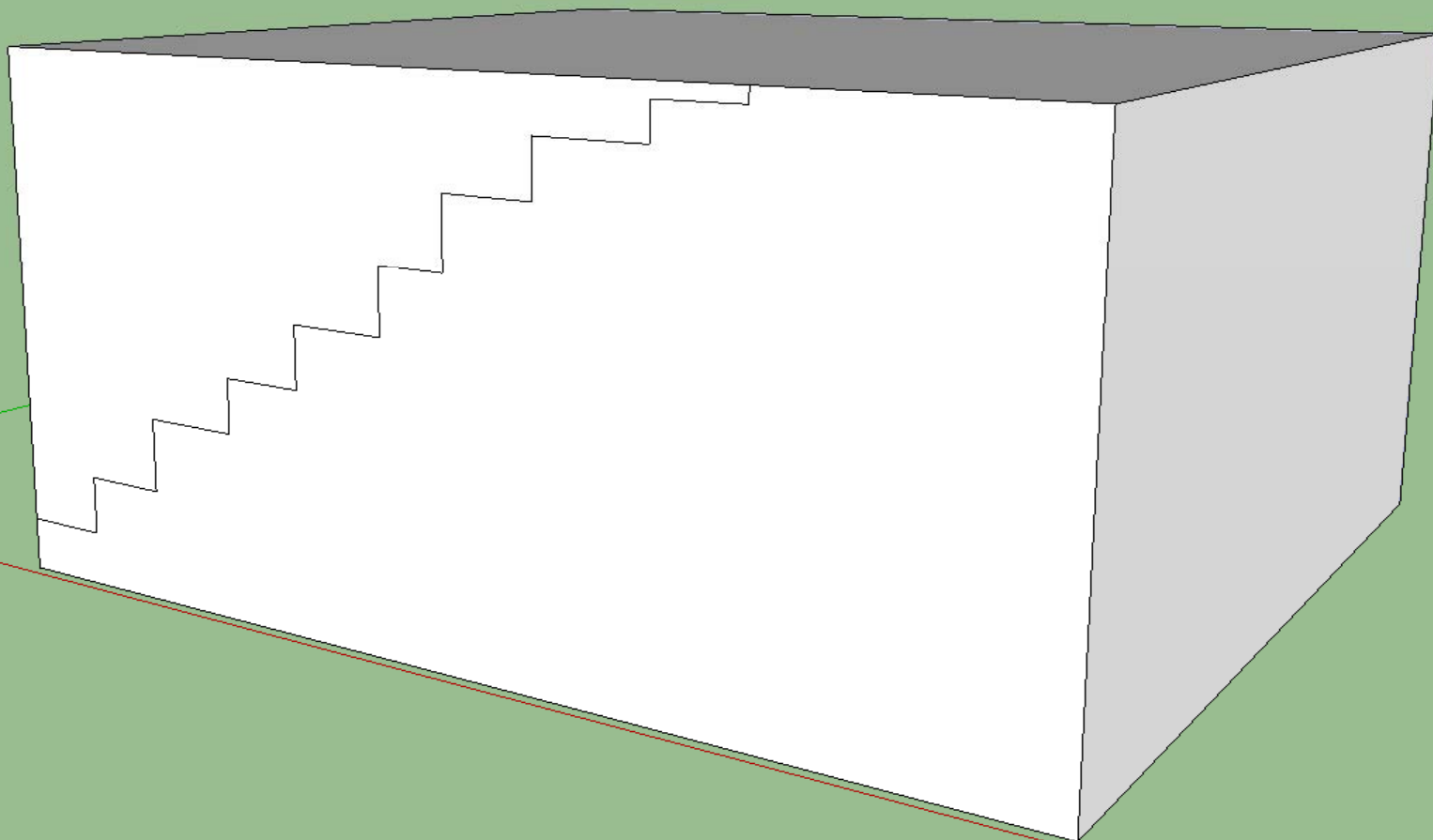


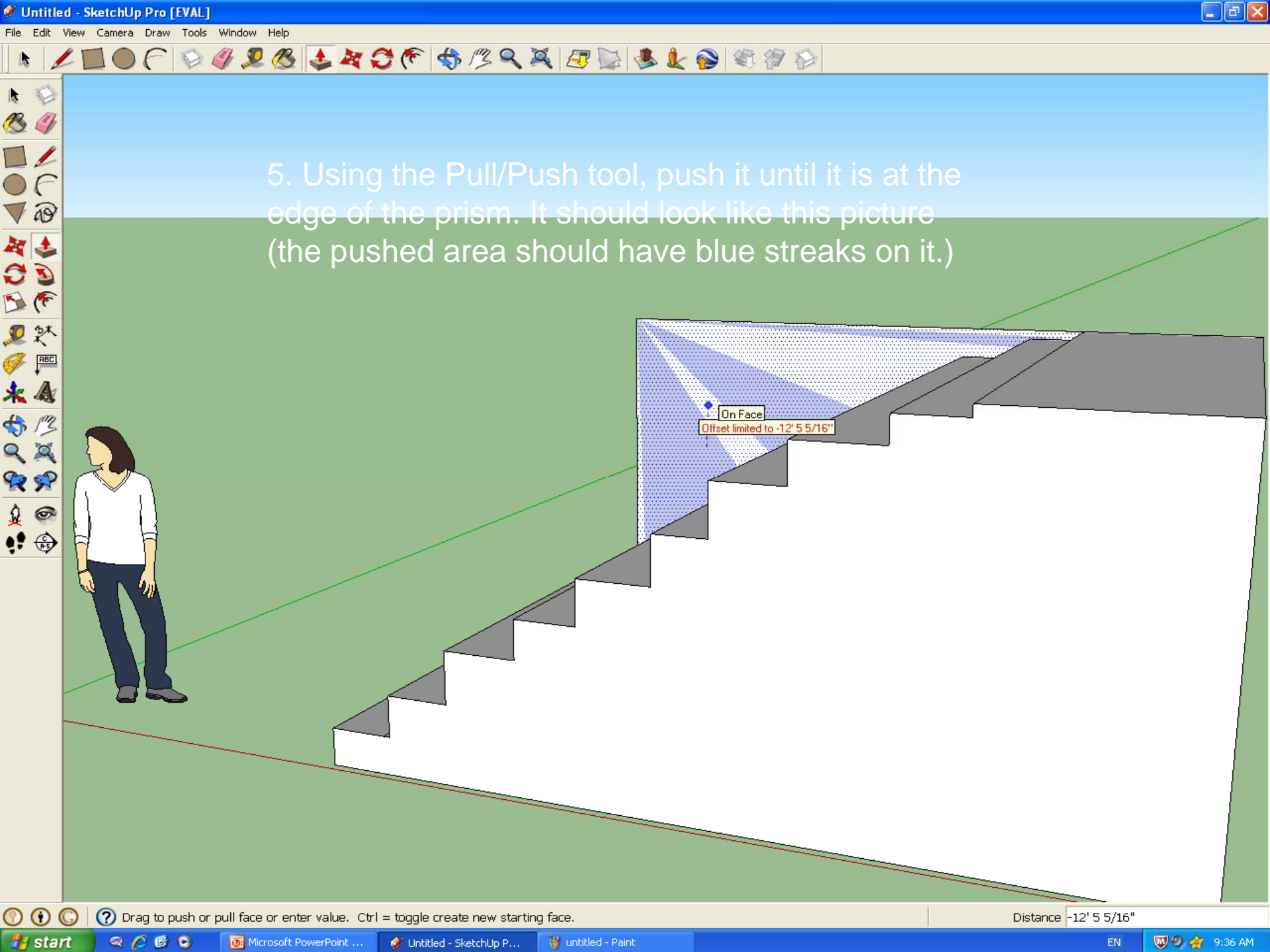


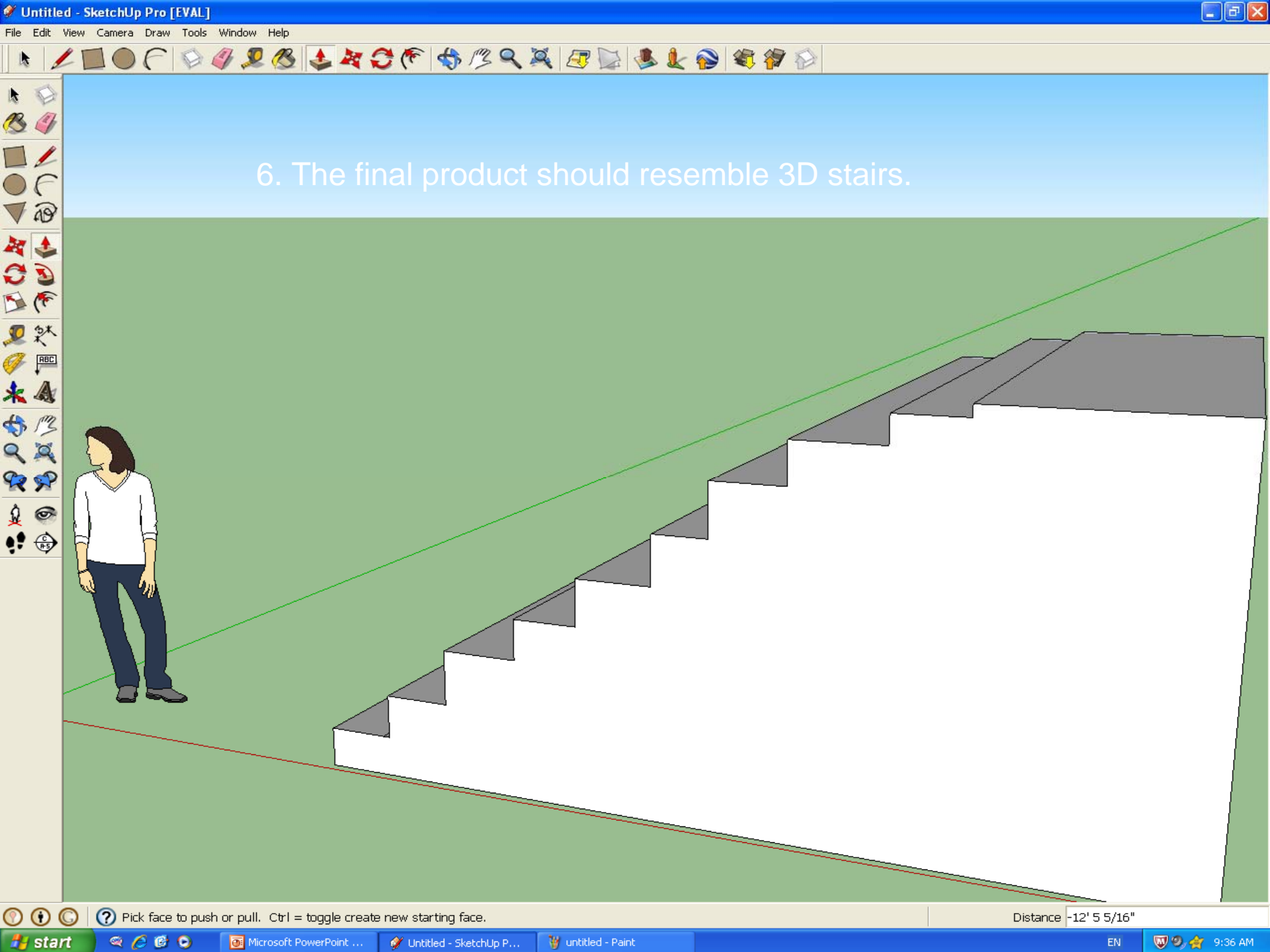
3. Using the line tool, start drawing steps on the side of the box. The lines should be the same colour as the base lines because it shows it is parallel to the line.



4. Continue drawing the lines until it touches the top of the rectangular prism.







6. The final product should resemble 3D stairs.

Distance -12' 5 5/16"

- Now, knowing the basic tools of google sketchup, you can create many things.
- Have fun!



Sources

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