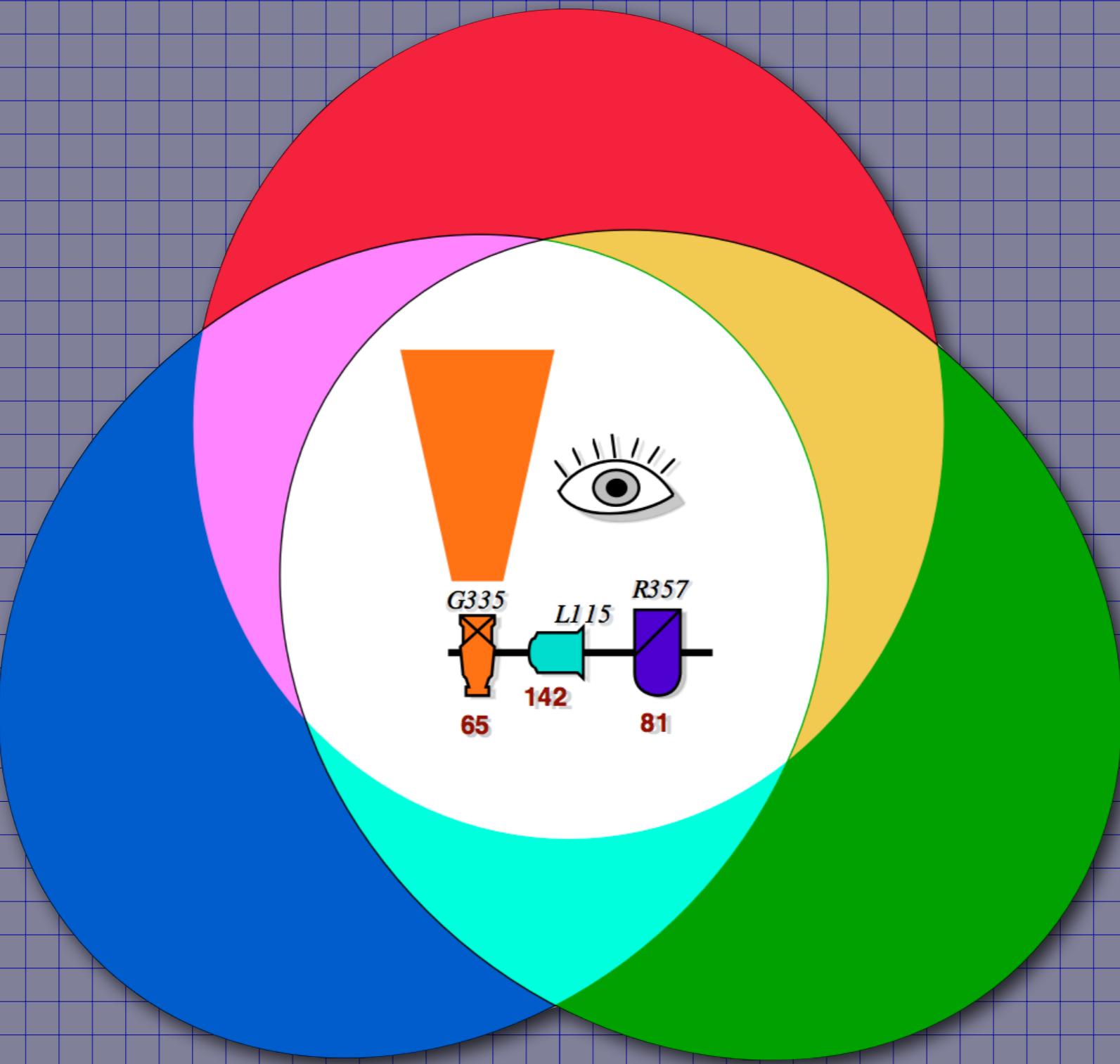


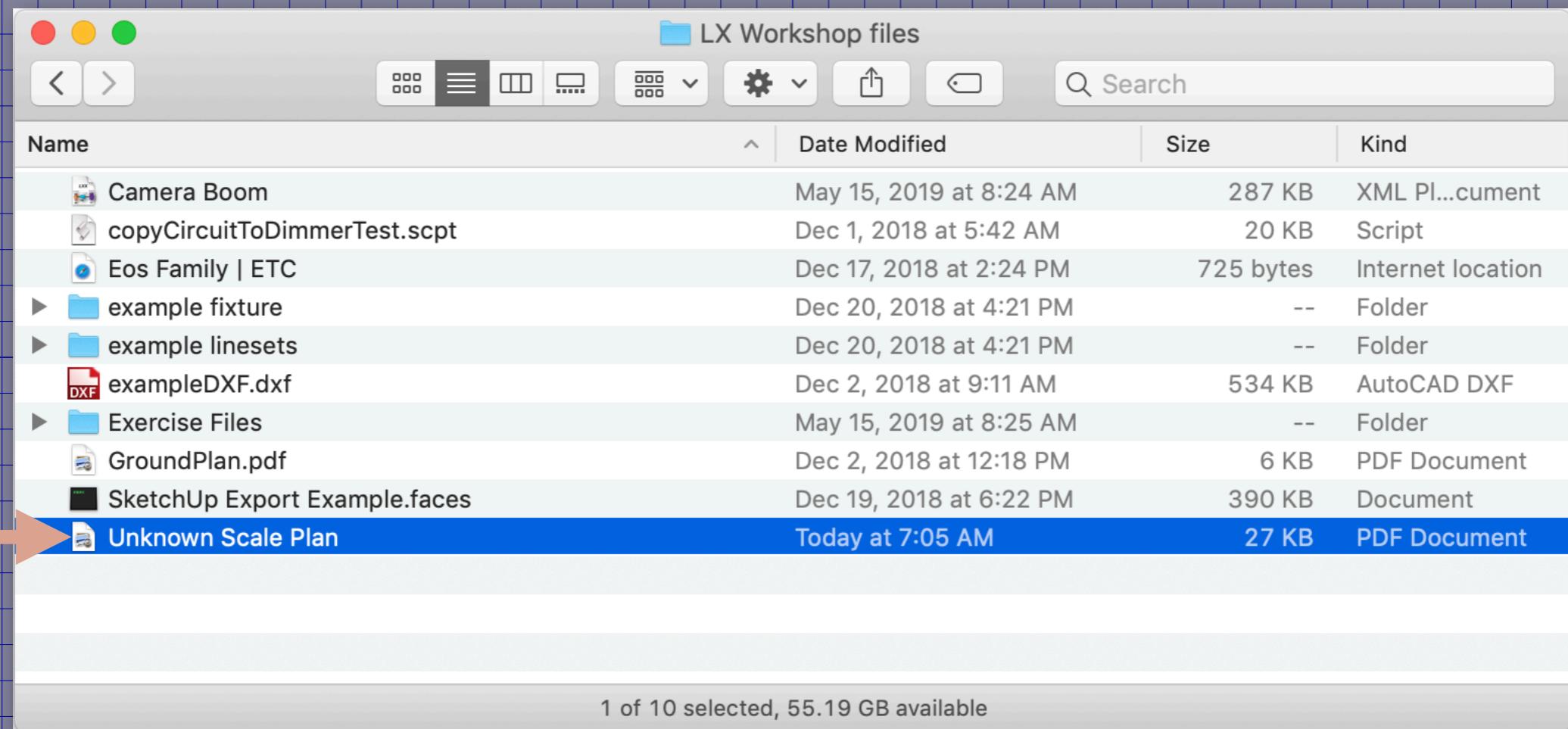
Scaling a PDF



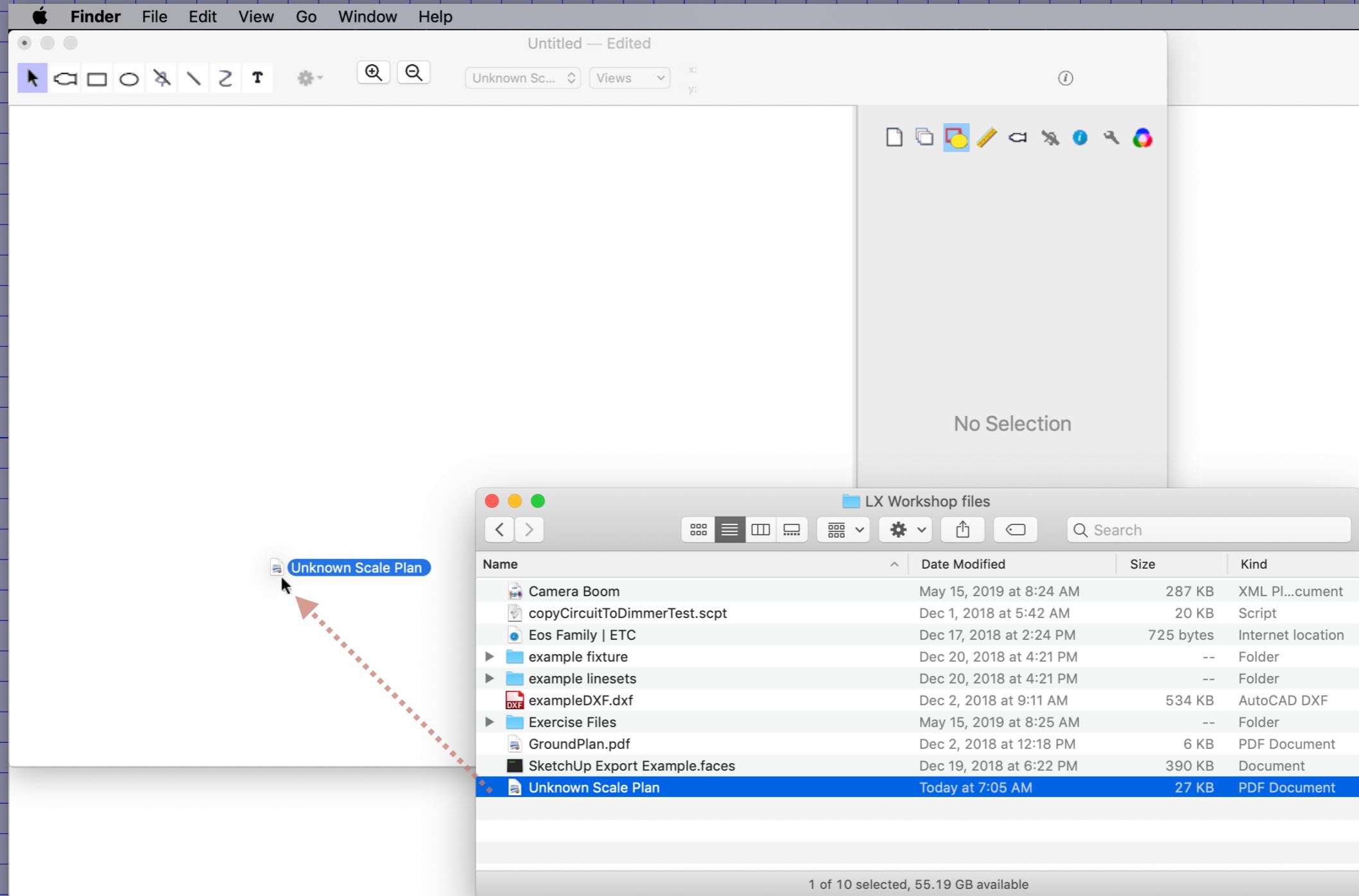
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The LXWorkshop Files/Exercise Files
folder has a file named
“Unknown Scale Plan.pdf”.

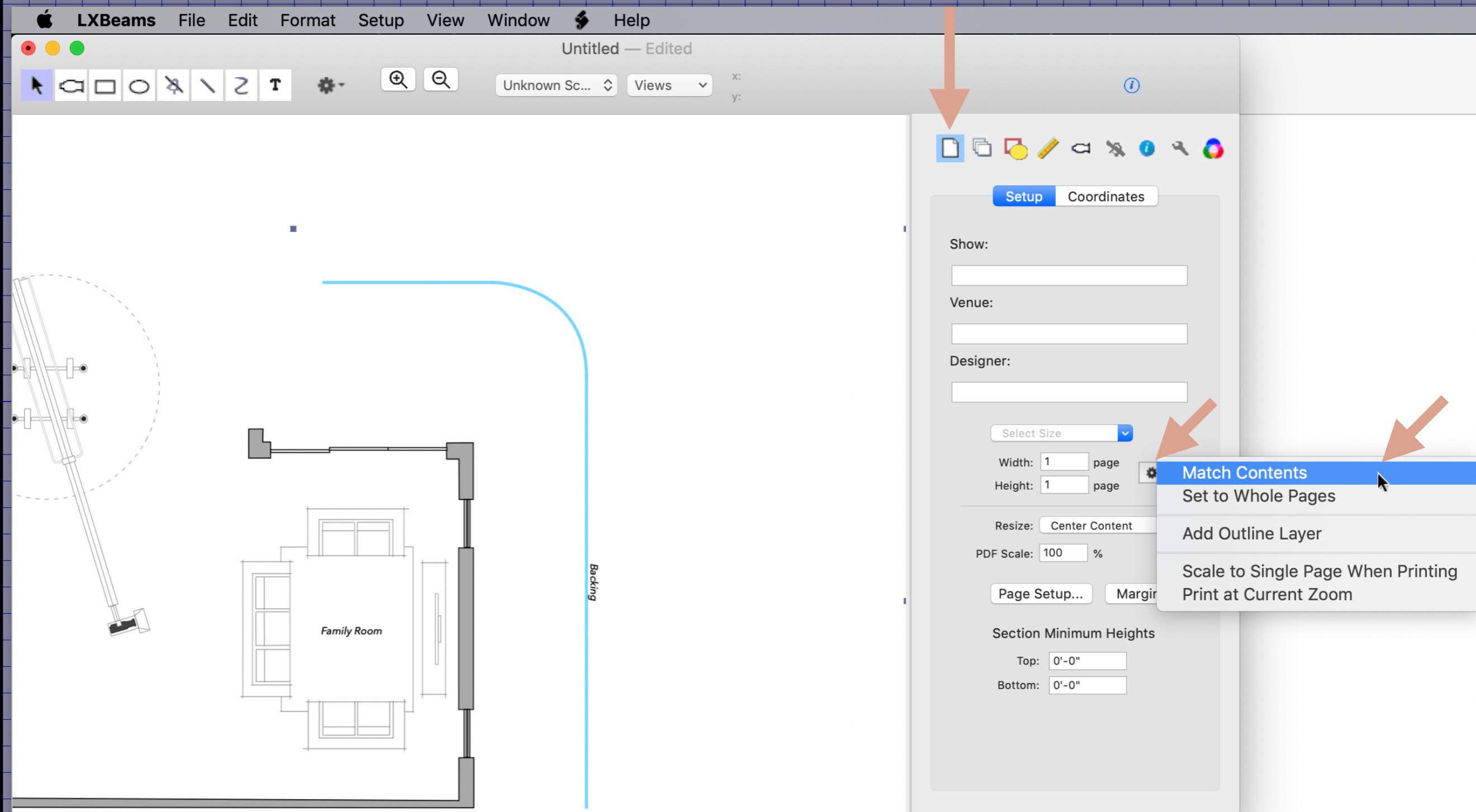


Drag the Unknown Scale Plan.pdf file
to a new LXBeams window and release.



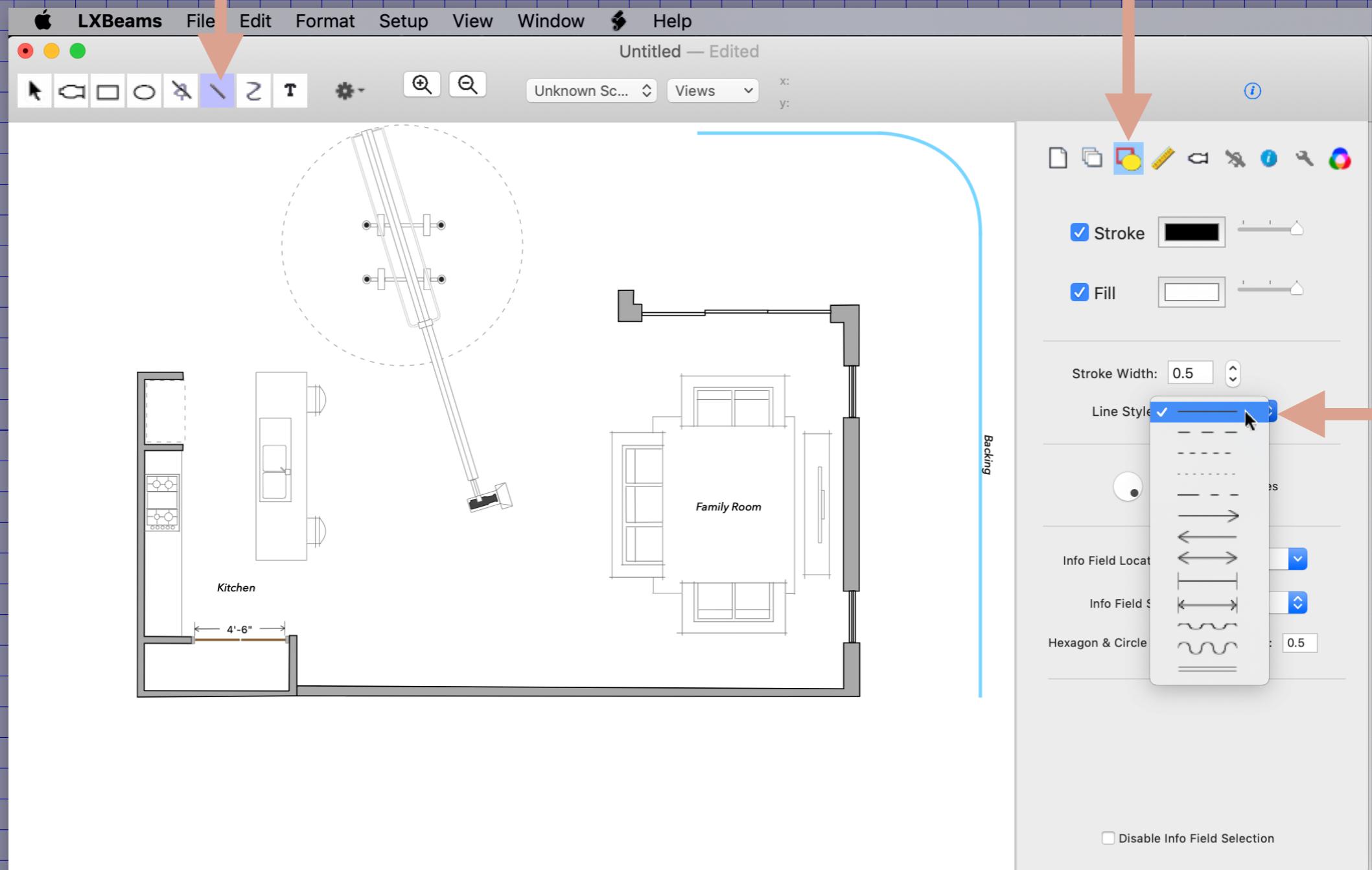
A green circle with a "+" appears when LXBeams will import the file.

In the Inspector, select the Document tab.



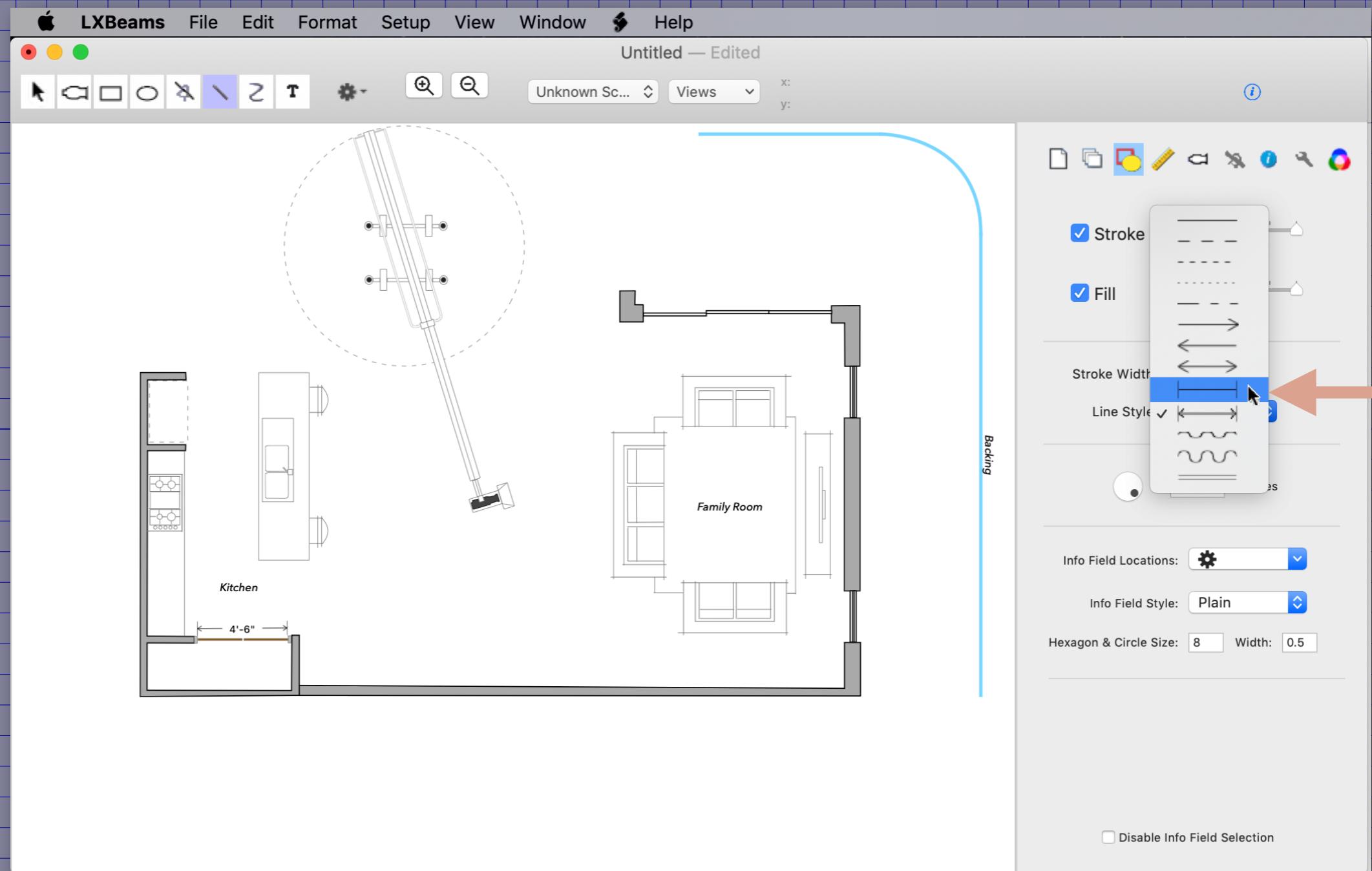
From the setup popup, select “Match Contents”.

Select the line tool.
Then, select the Inspector's Drawing tab.



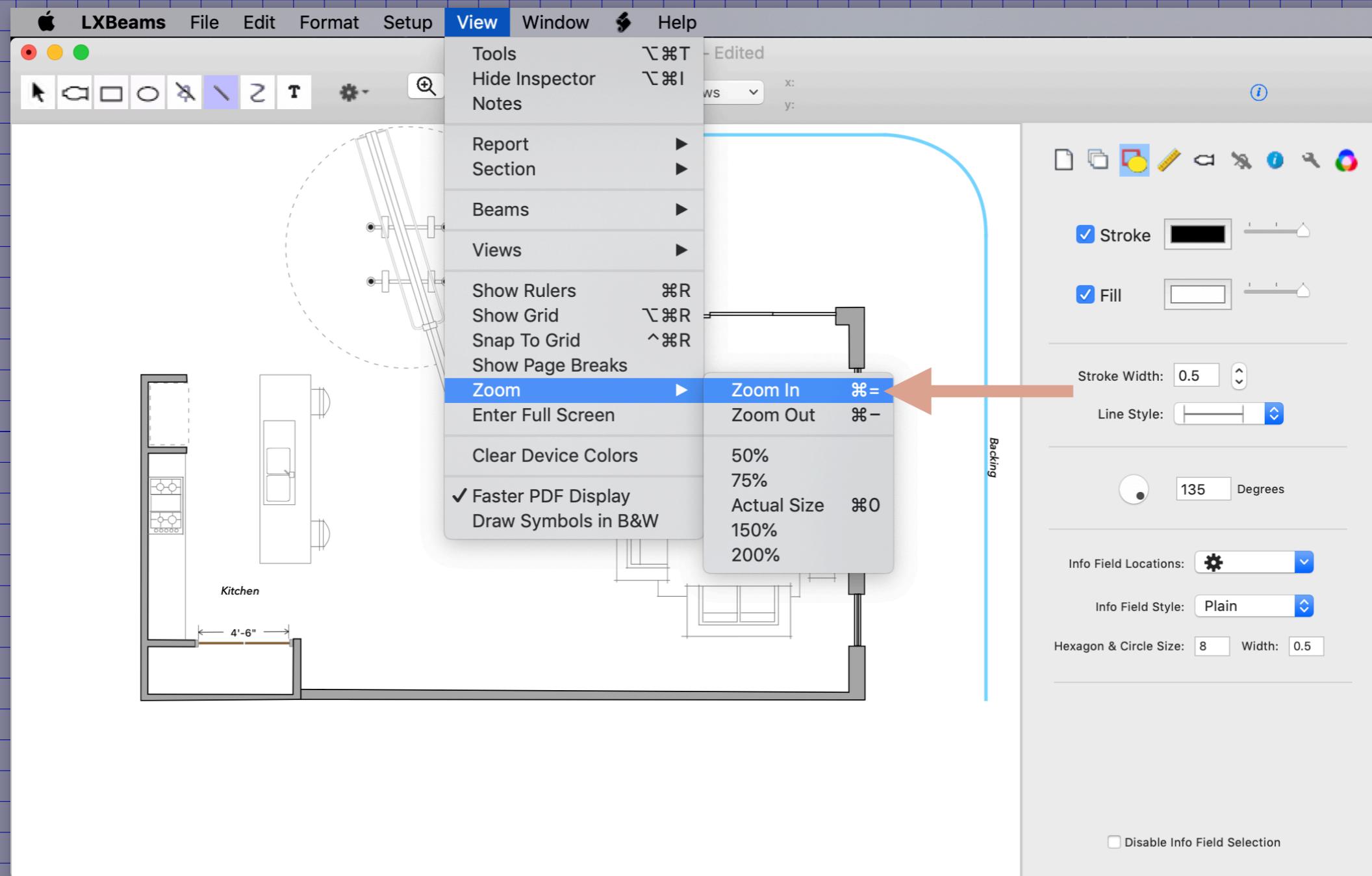
Click on the Line Style popup.

There are two dimension type line styles to choose from.

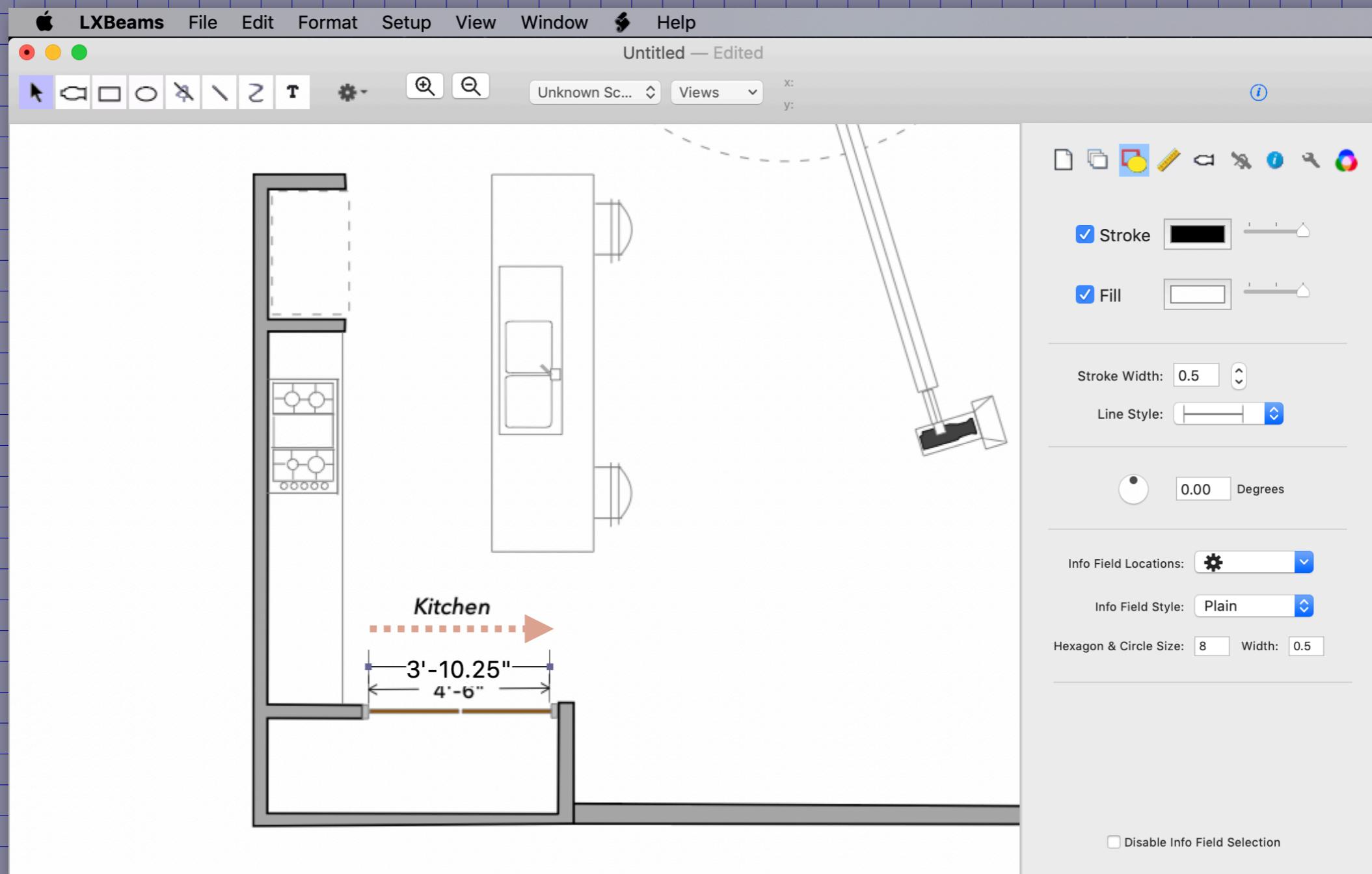


Choose the plain dimension style (without arrows).

Choose View→Zoom→Zoom In.

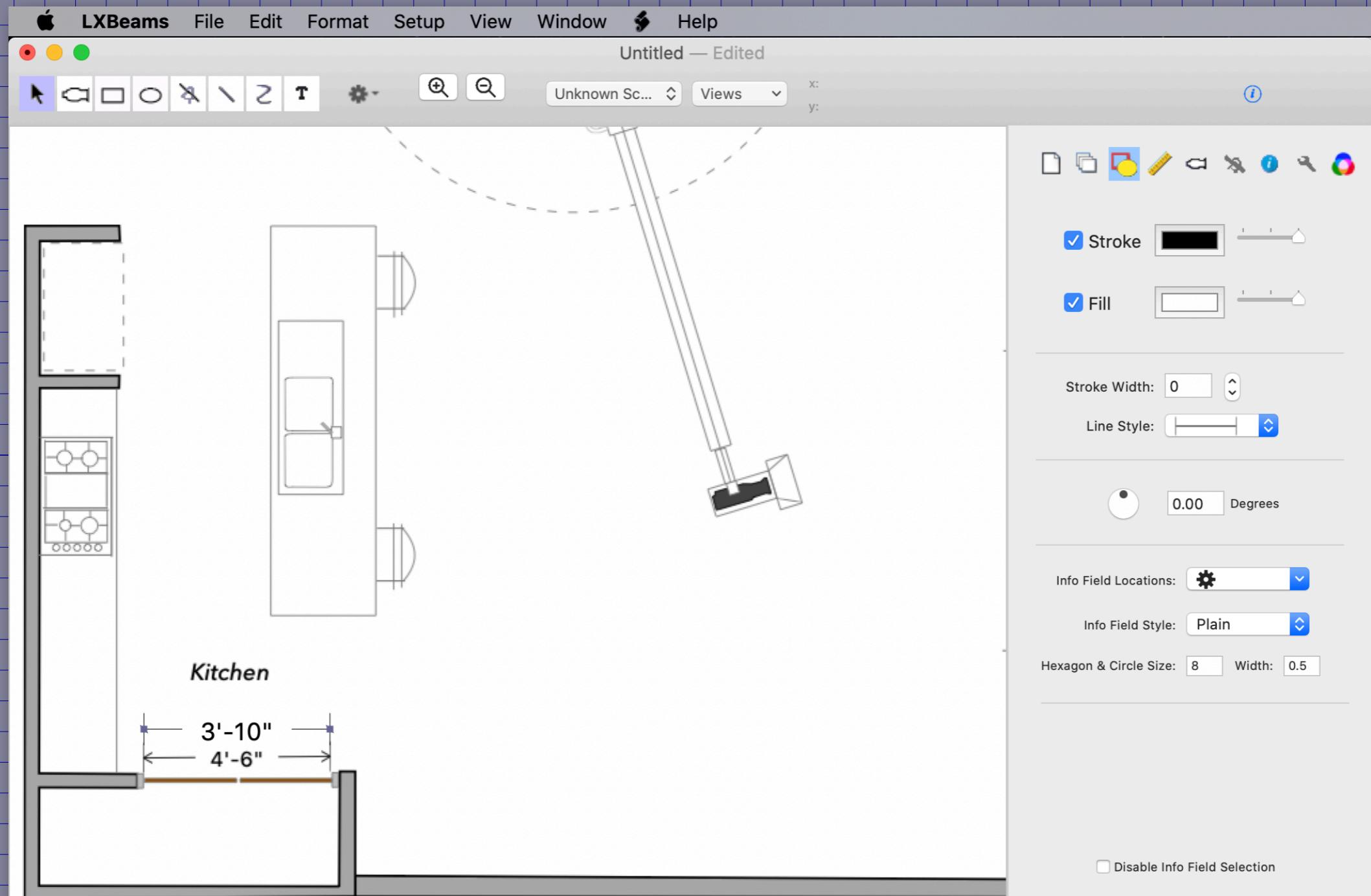


Carefully draw a dimension line
to match the “known” distance.



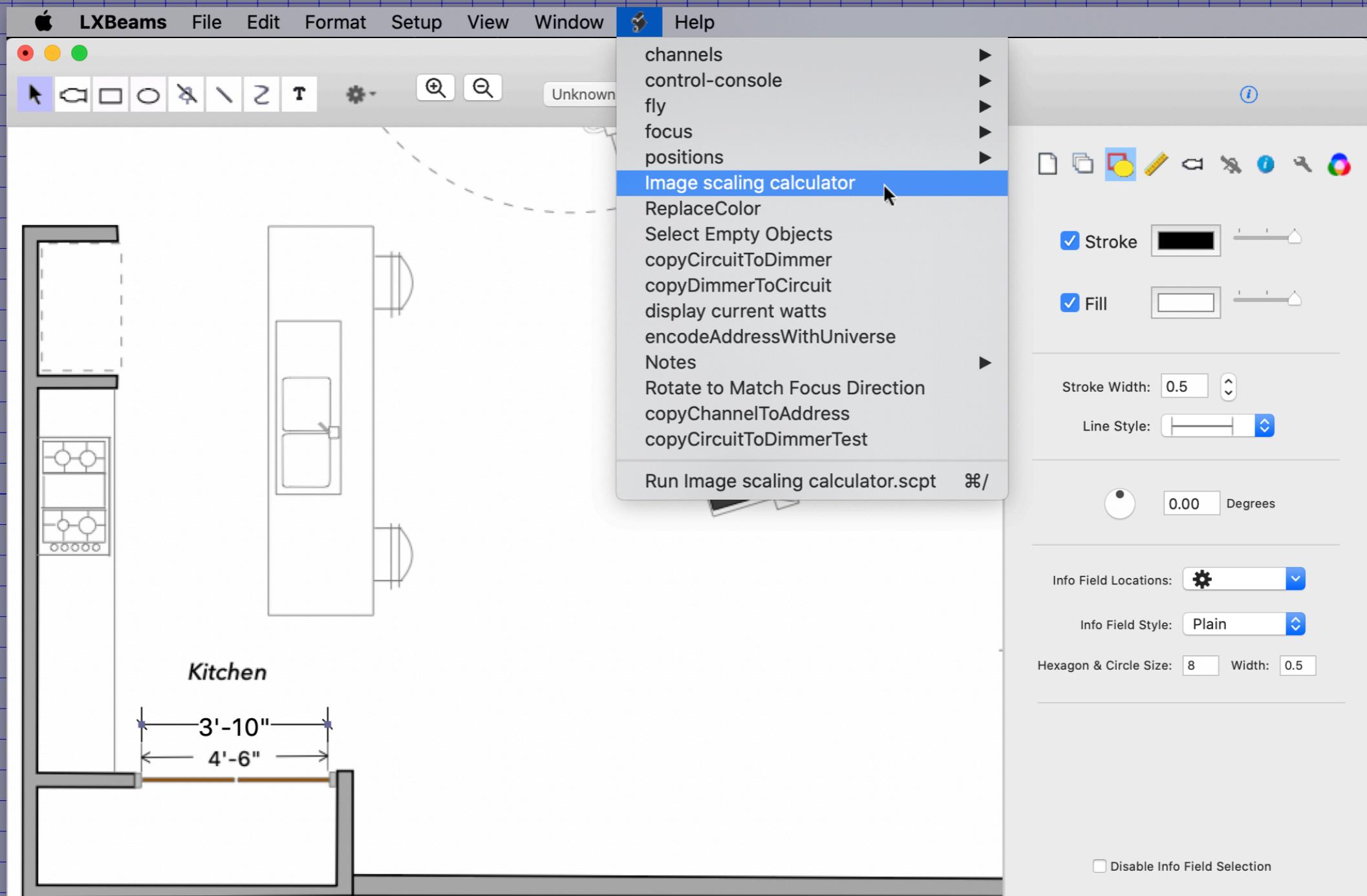
Hint: holding down the shift key while drawing
forces the line to be straight.

The PDF is smaller than LXBeams' scale.
The PDF will need to be scaled larger.



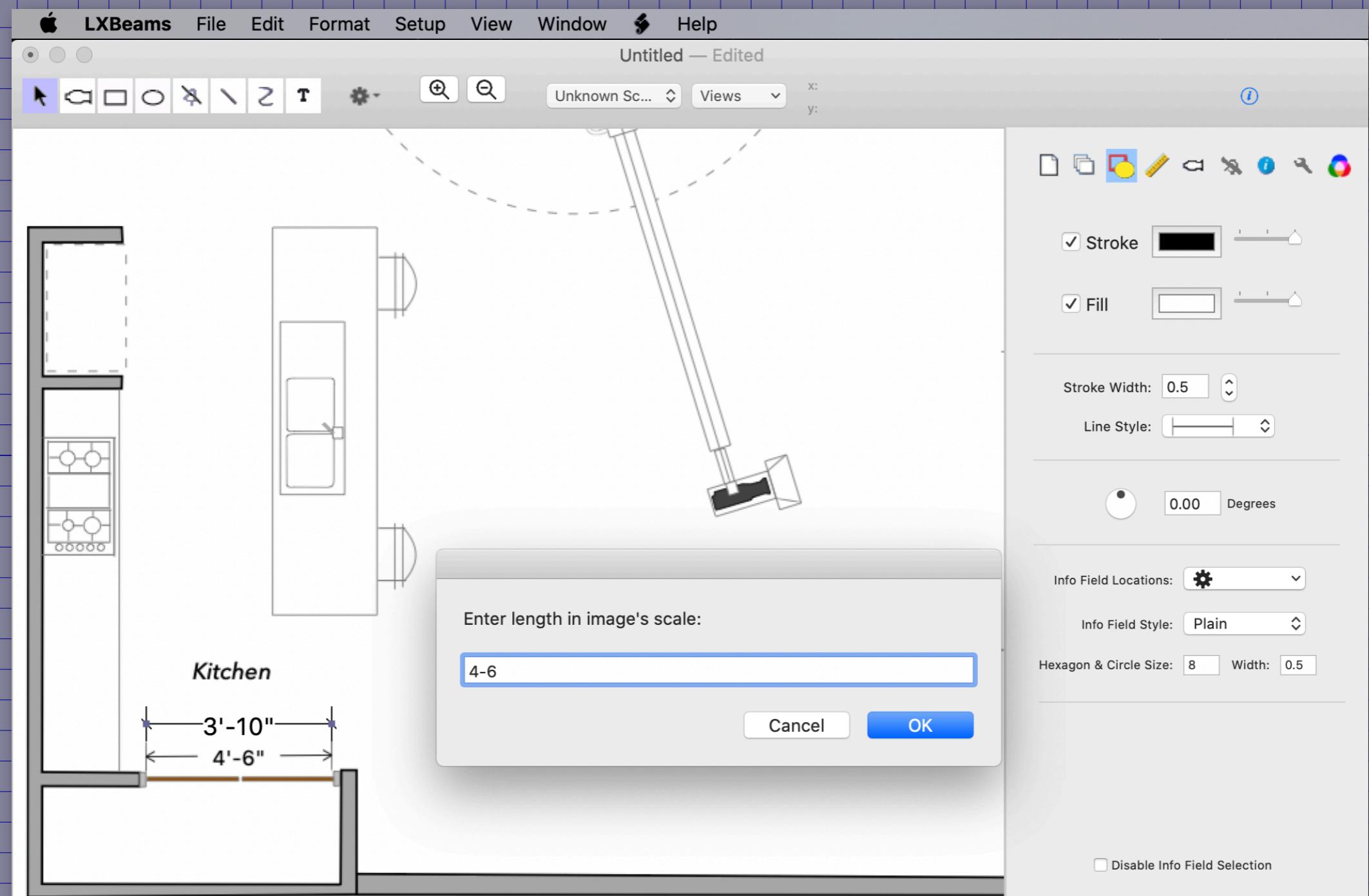
Divide the PDF distance by LXBeams' scale distance
 $54" \div 46" = 117.39\%$

There's a script that calculates this for you.



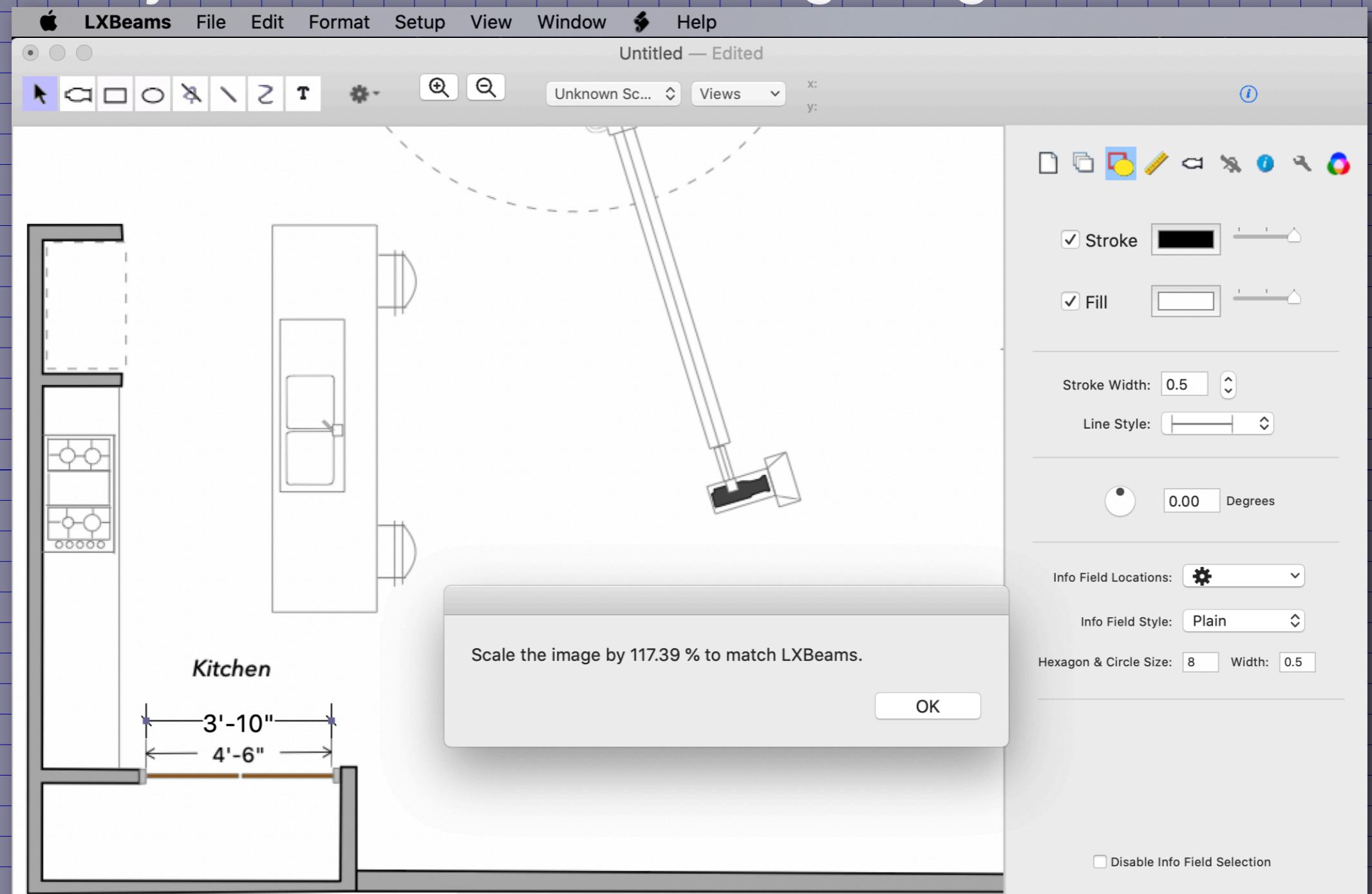
With the dimension line selected,
choose the Image Scaling Calculator script.

The script asks for the length you know from the image.



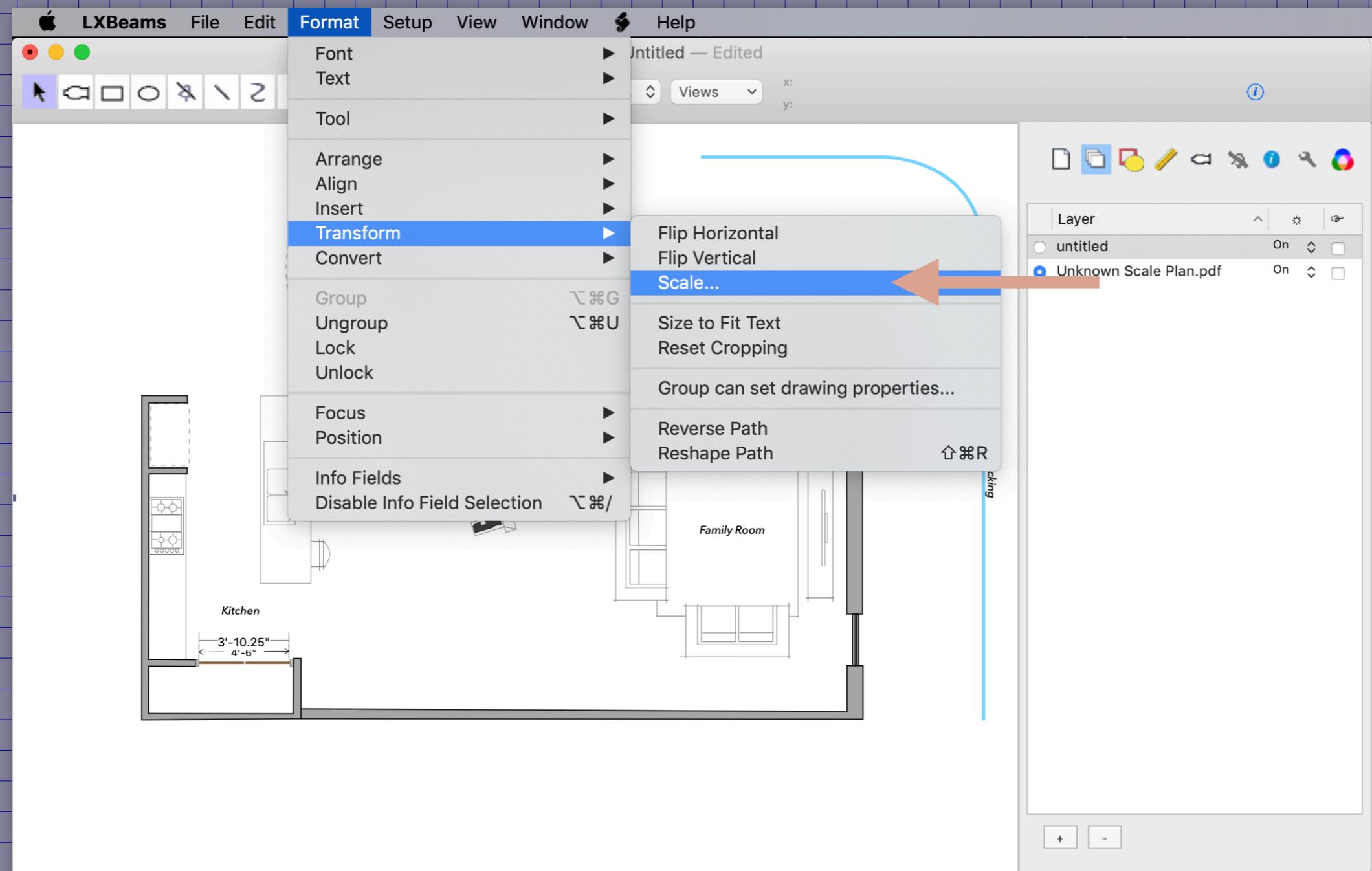
It compares this to the length of the selected line.

The script does the calculation telling you the percent that you need to scale the image to get it to match.



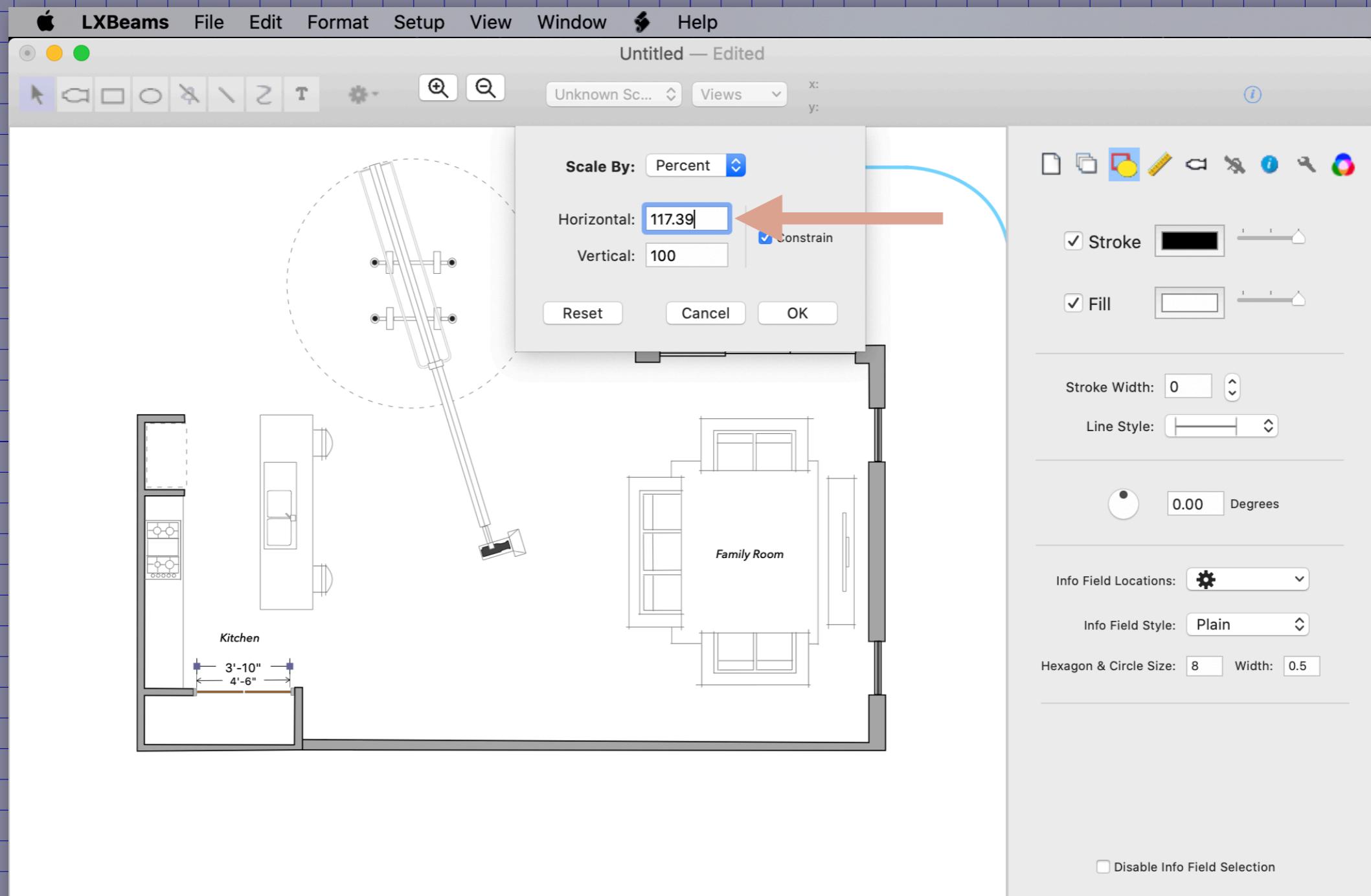
Which is just the length of the known distance divided by the length of the comparison line.

Click on the imported PDF object to select it.



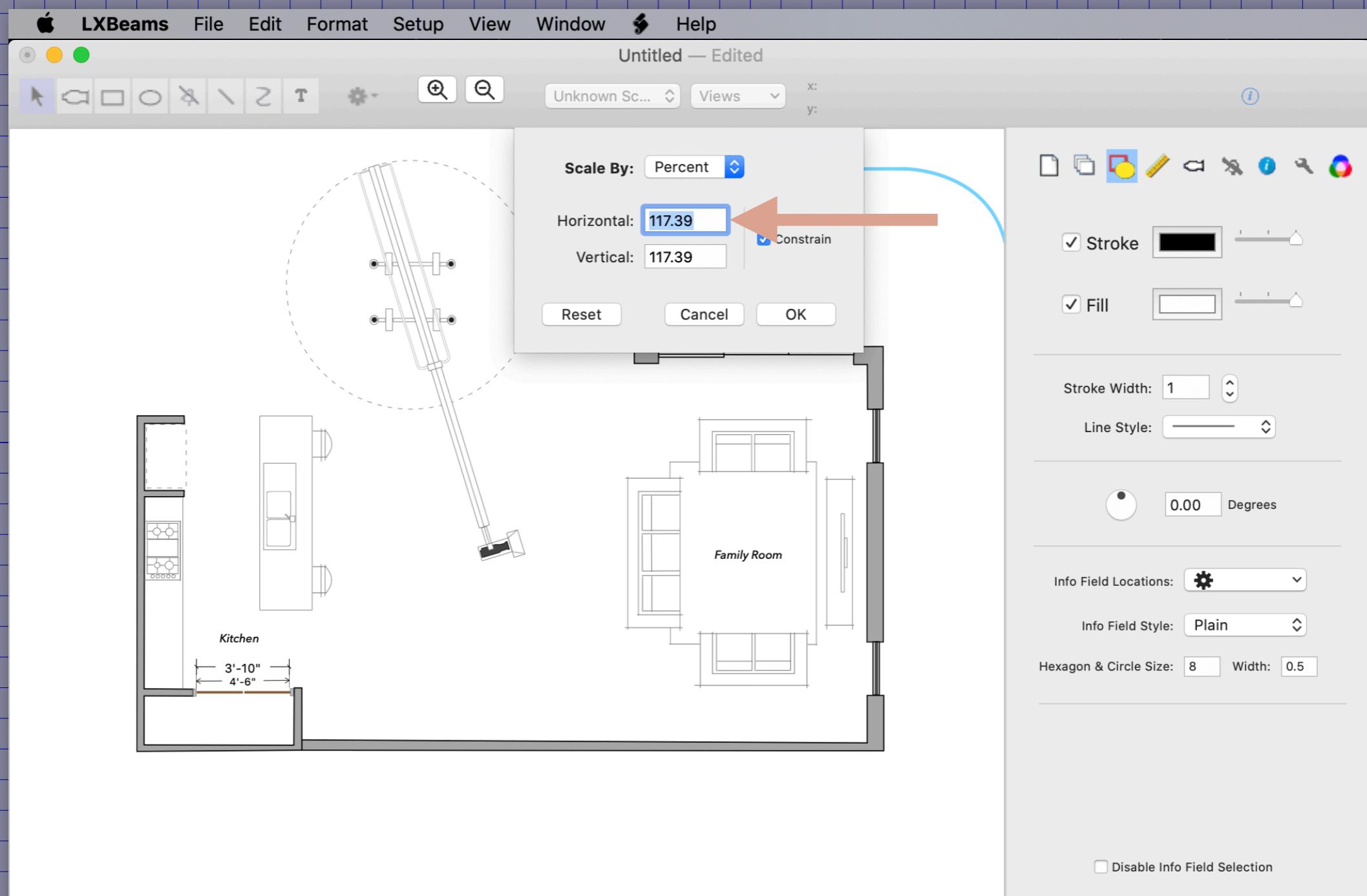
Choose Format→Transform→Scale...

Enter 117.39 for Scaling by Percent.



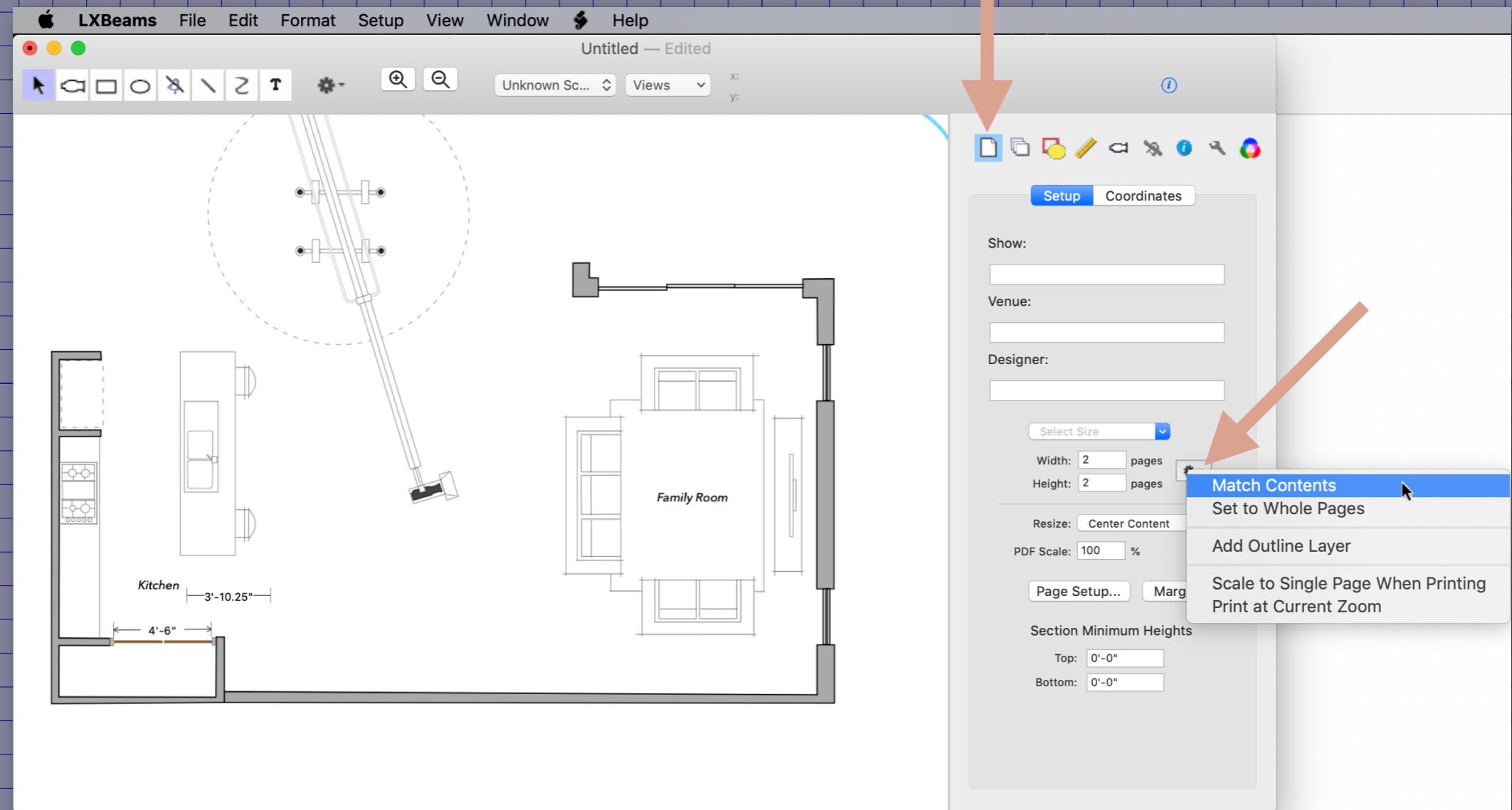
Press return.

The scale is constrained so the vertical scale becomes the same.

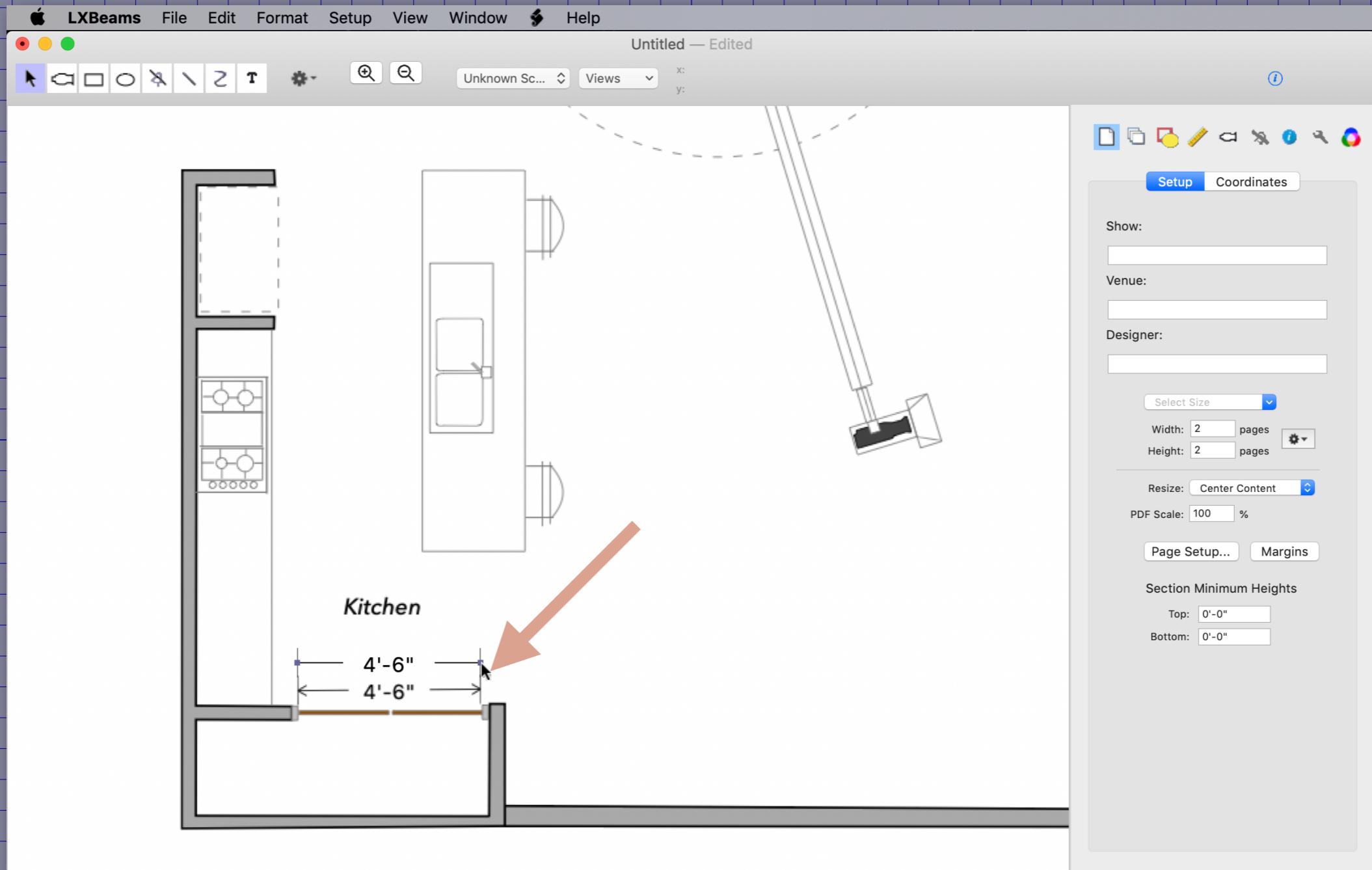


Click OK.

The PDF is larger so you'll want to again select Match Contents from the size tools popup in the Inspector's Document tab.

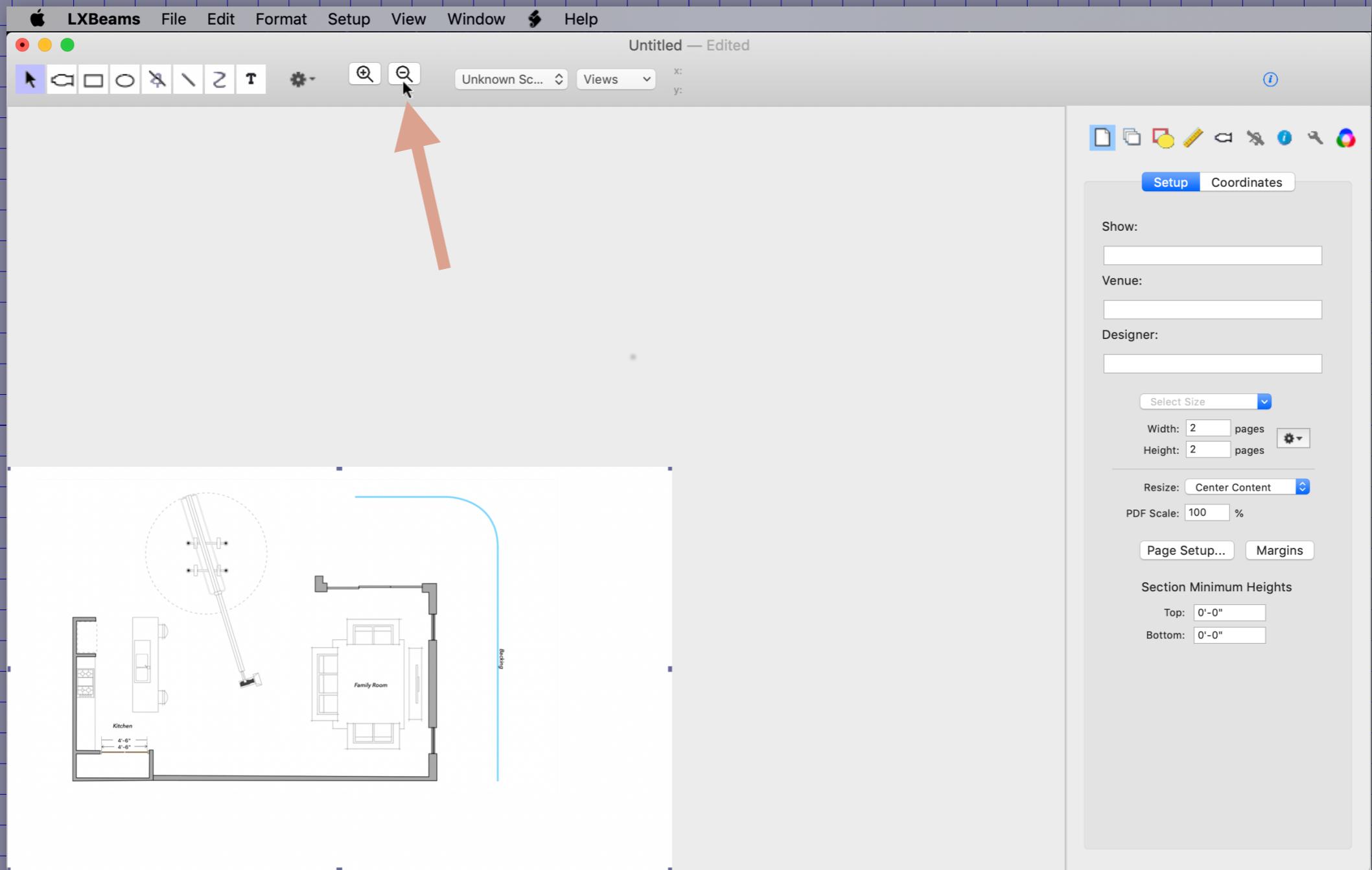


Adjust the ends of the dimension line to confirm that the PDF now matches LXBeams' scale.



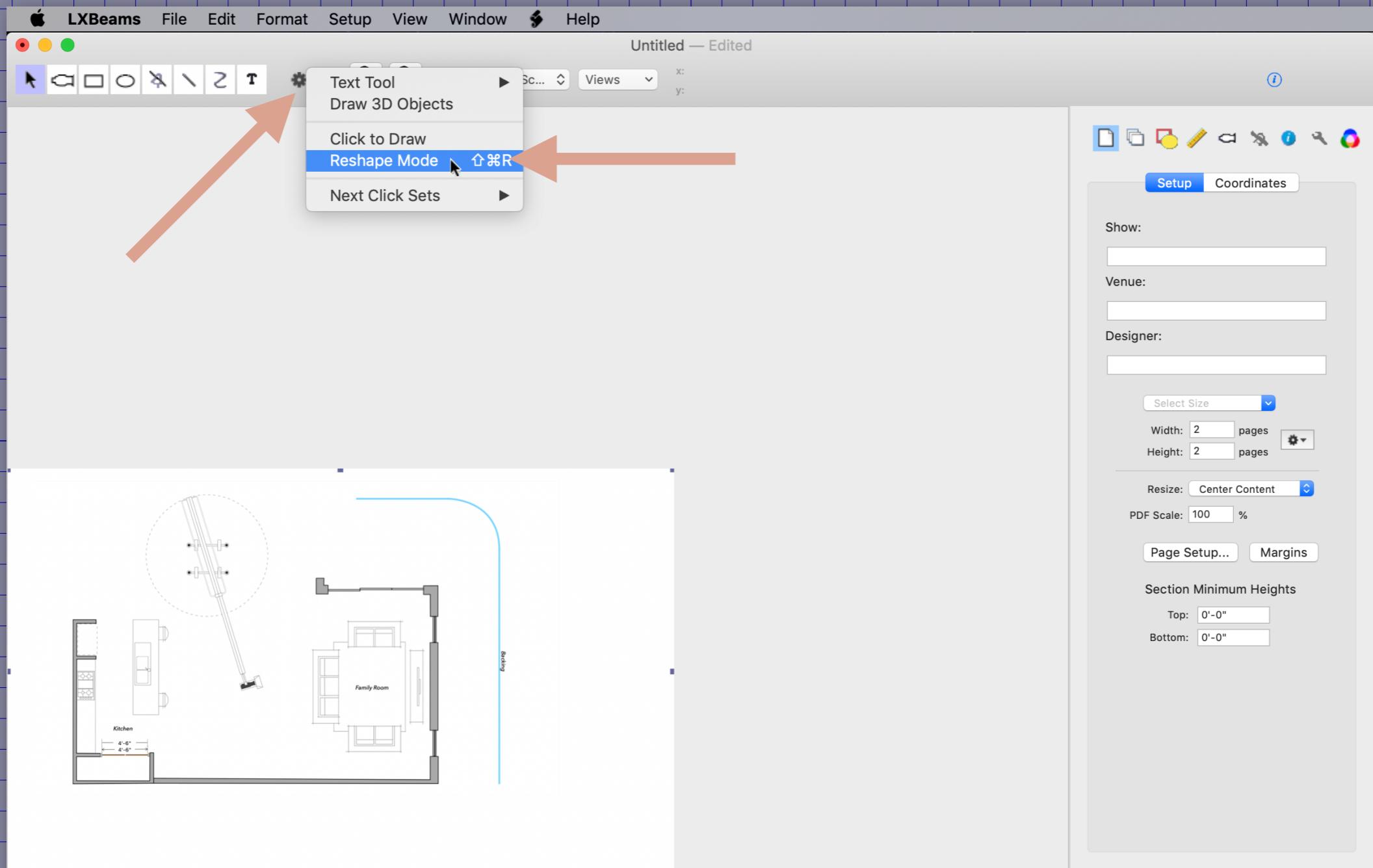
Be careful selecting the dimension line so you don't get the PDF.
Drag the "handles" to re-shape it.
Use the shift key to force it to be straight as you drag.

Click the zoom out button in the toolbar until you can see the entire drawing.



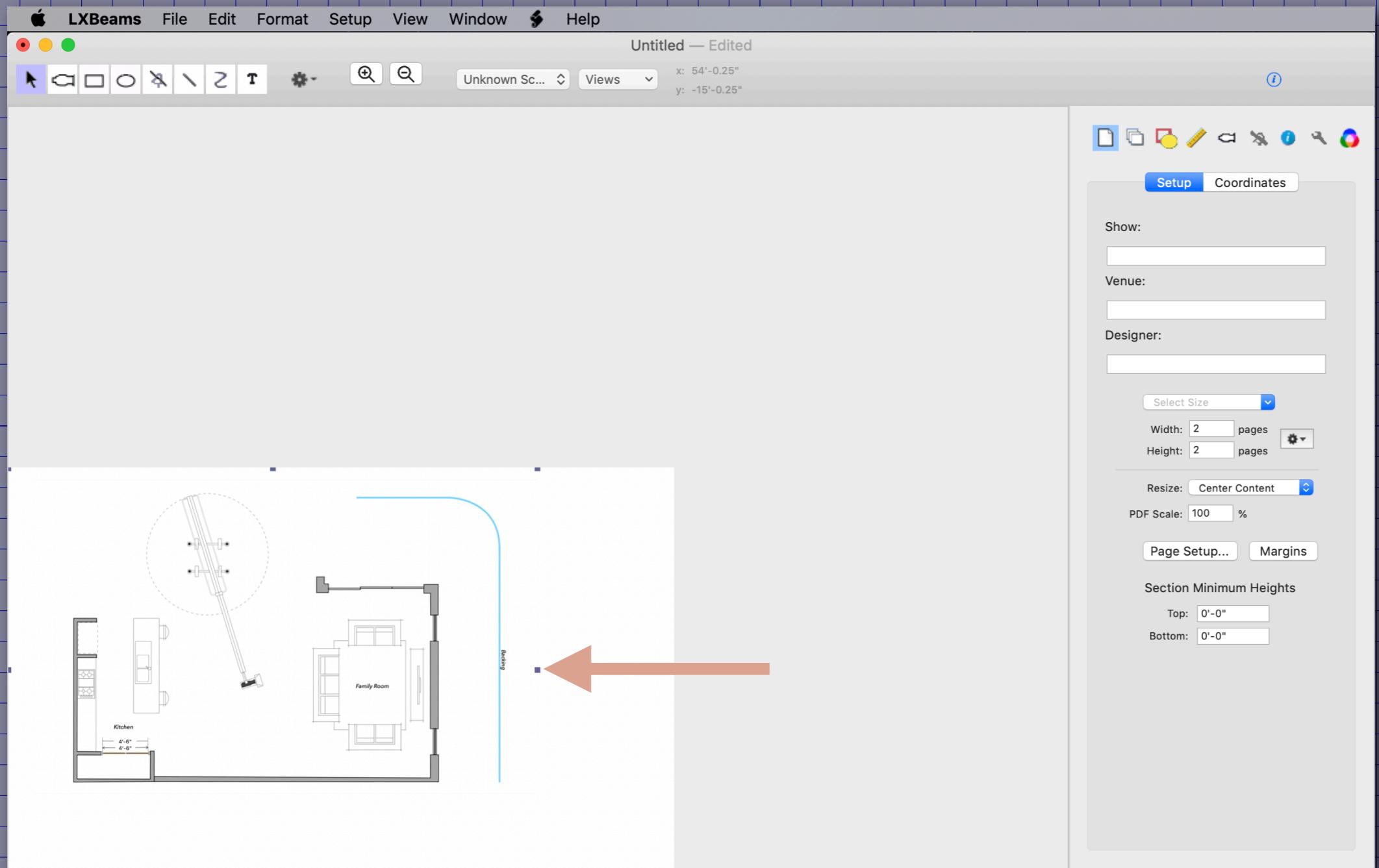
Perhaps, you don't want all the extra white space on the right side which is now larger because of scaling the PDF.

Click the tools options popup in the toolbar.



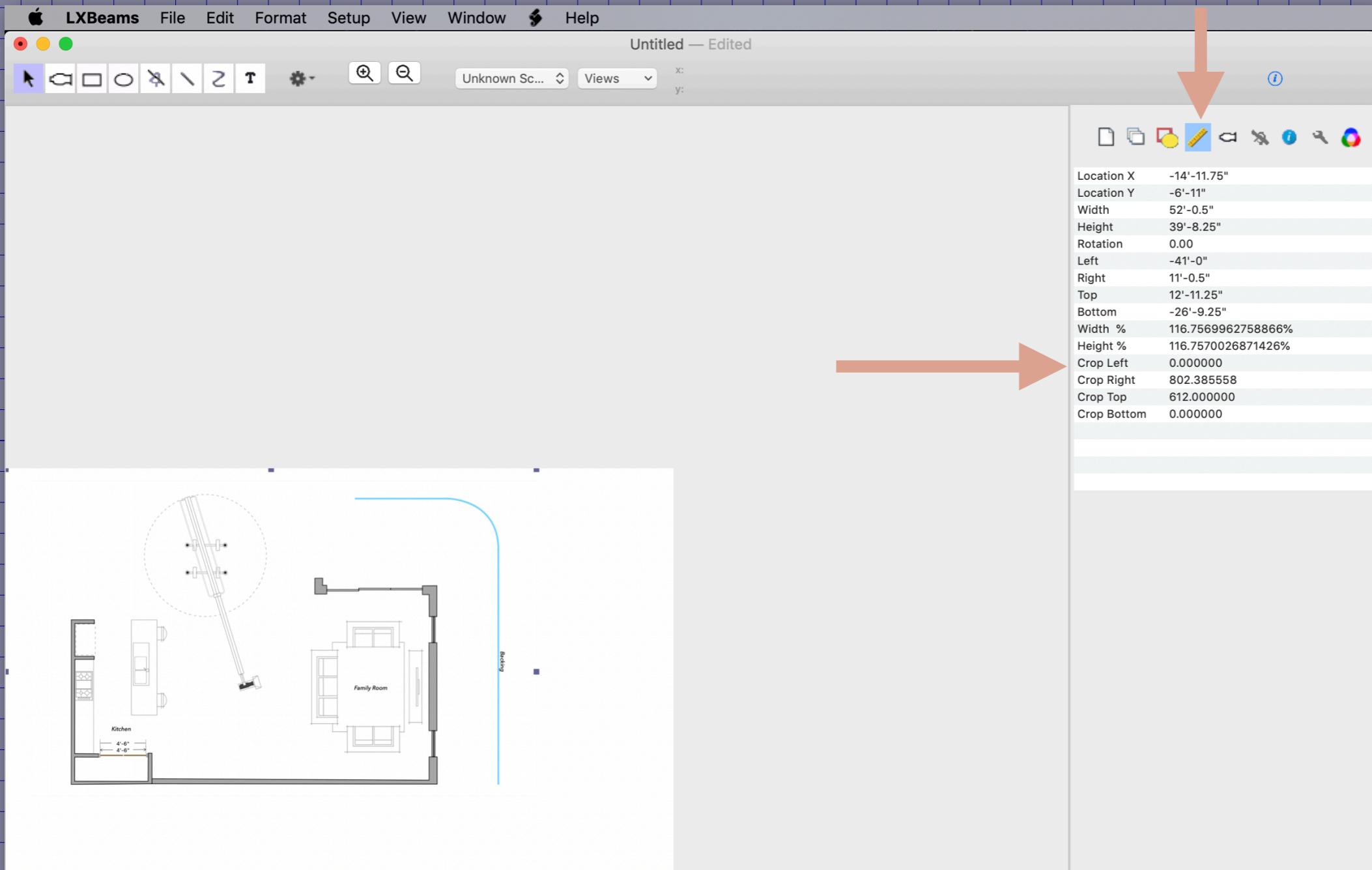
Choose Reshape Mode.

When the imported PDF is selected, you will see handles.
Normally these will scale the image.
In Reshape Mode, they will allow cropping.



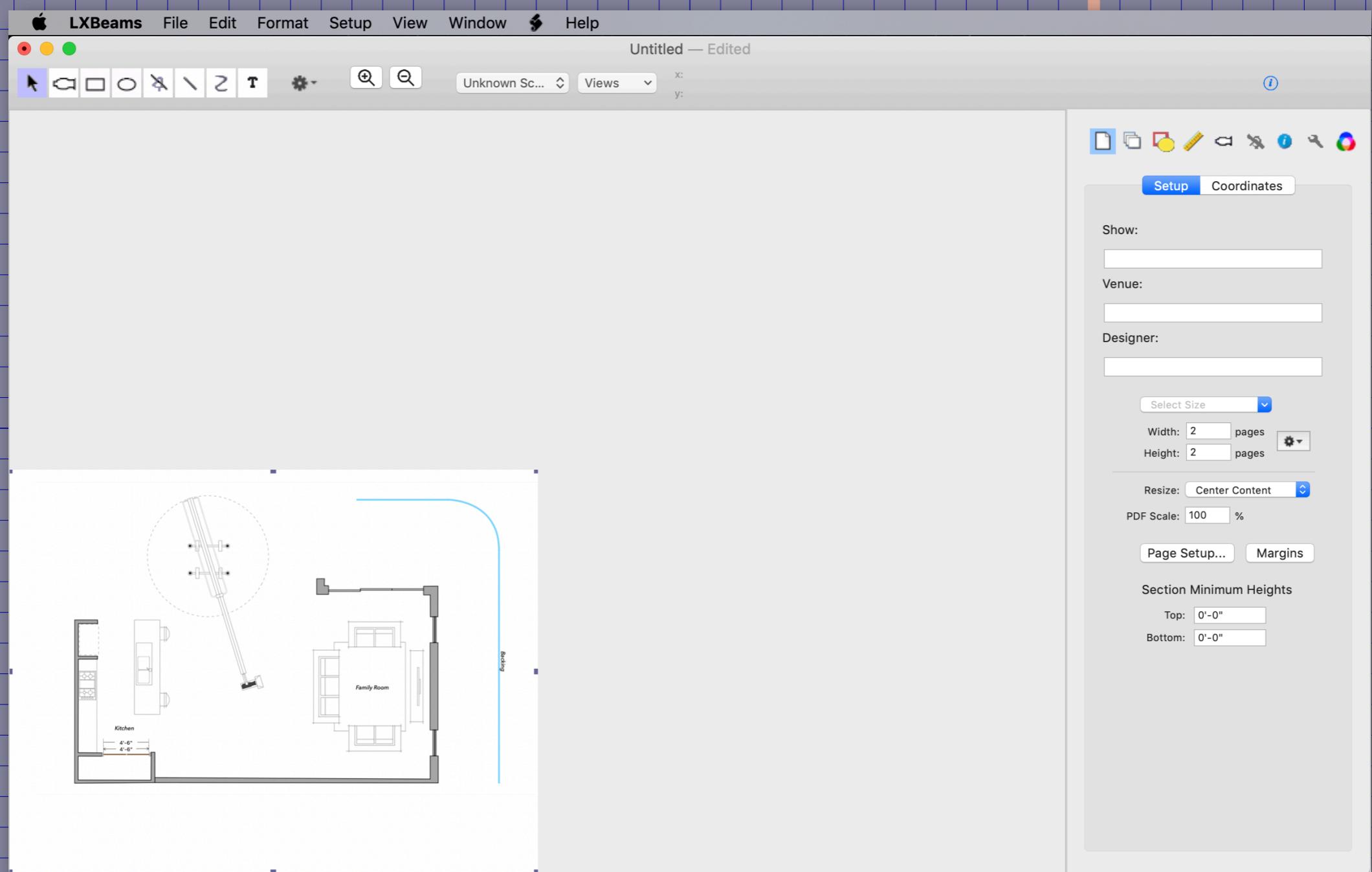
Drag the right middle handle to crop the image
and remove some of the unwanted white space..

If you look at the Inspector's Measurements tab,
You will see the cropping in pixels.



The pixels are measured from the lower left corner.

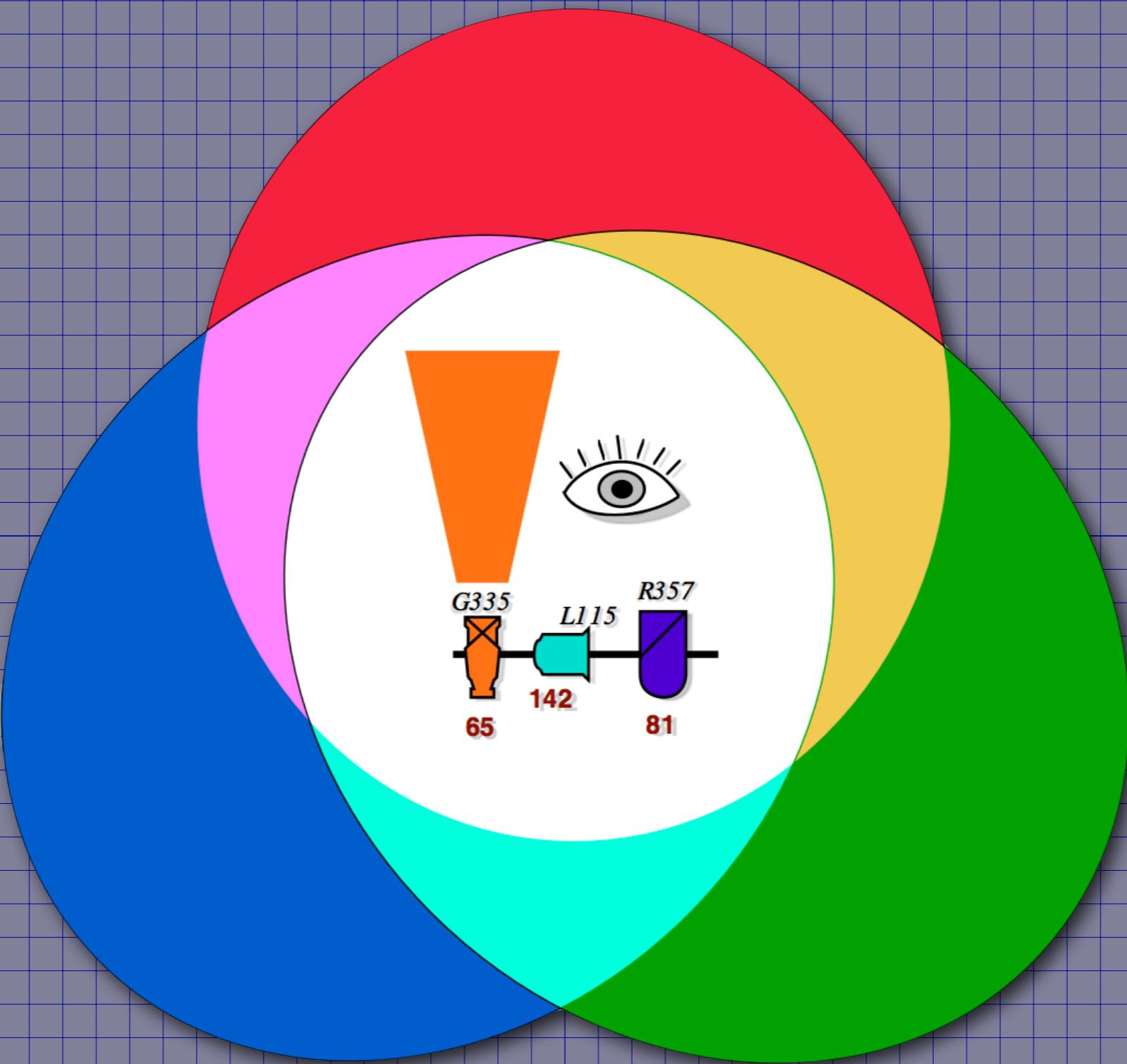
After again matching the document size to the contents.



In this section, we've
looked at preparing a PDF for LXBeams

- Import the PDF.
- Draw a dimension line to compare a known distance on the drawing.
- Determine the percentage difference.
- Scale the image by that percentage.
- Crop unwanted parts of the imported image, if desired.

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