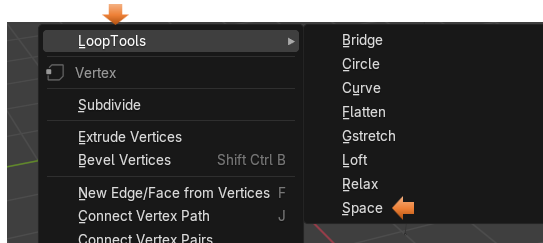
8 Space

# What is the Space Tool?

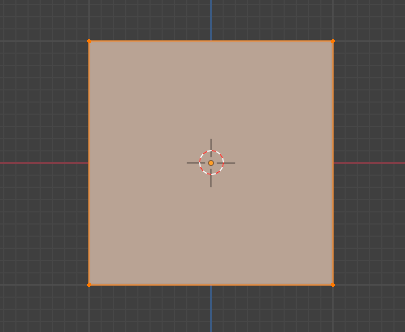
The space tool in the Loop tool section of Blender is a tool, in which you can use to try and smoothly space out the vertices. You will find that this tool is the last tool in the Loop tool’s little collection.



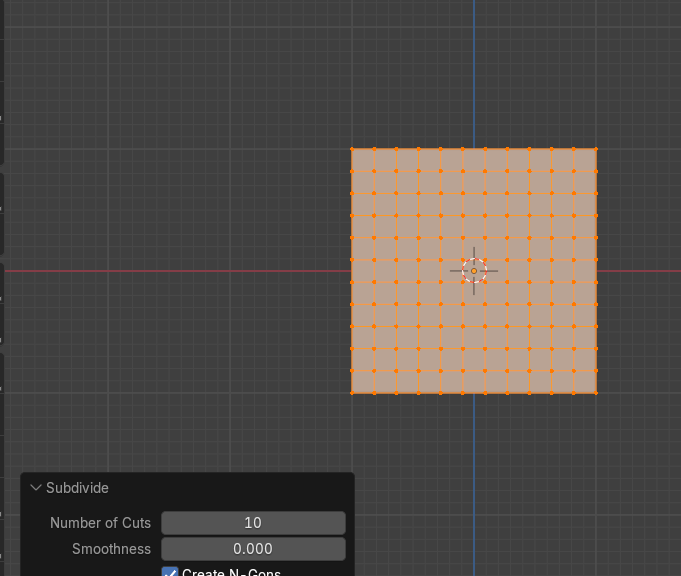
# Preparing to use the Space Tool

I am going to use a plane for this, which I added using the Add menu in Object mode.

I turned it 90° in the X axis, by changing the objects Rotation properties.



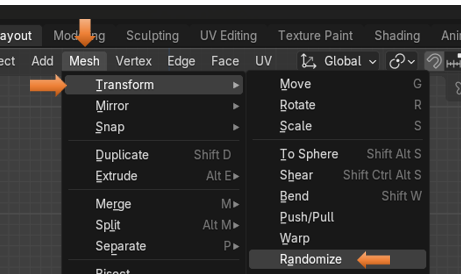
Then I subdivided it 10 times



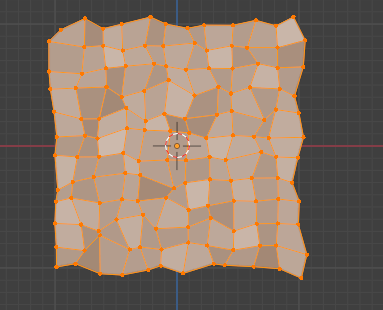
# Randomize Movement of Vertices

I want to randomize the movement of the vertices on this mesh surface.

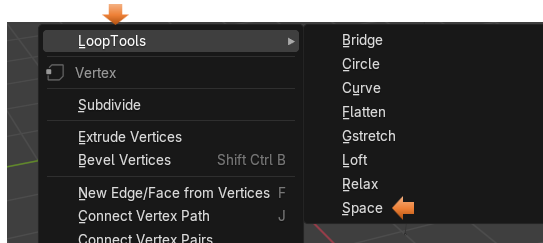
Mesh-Transform-Randomize



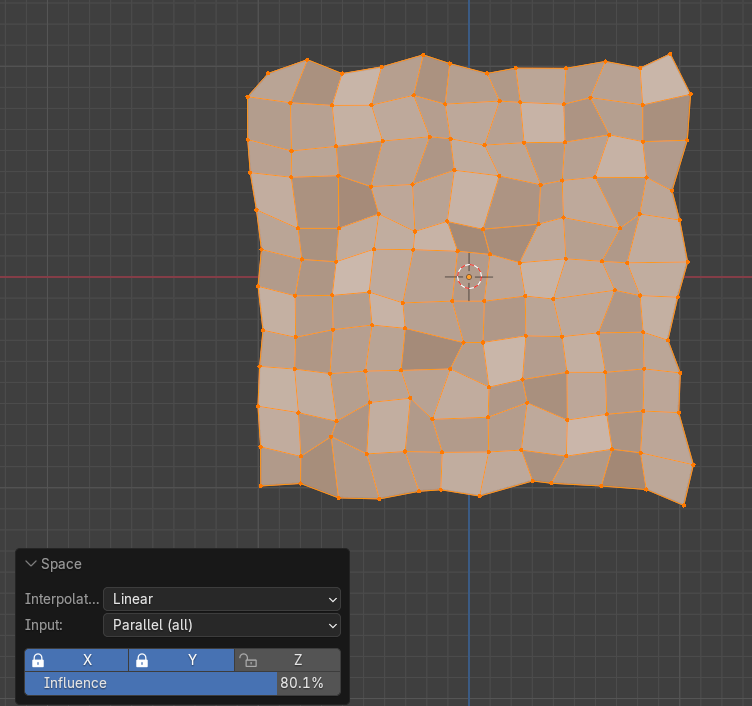
This looks pretty good, for a random mess. We could mess it up a bit manually by tugging on a few individual vertices, but for me to start, this is fine.



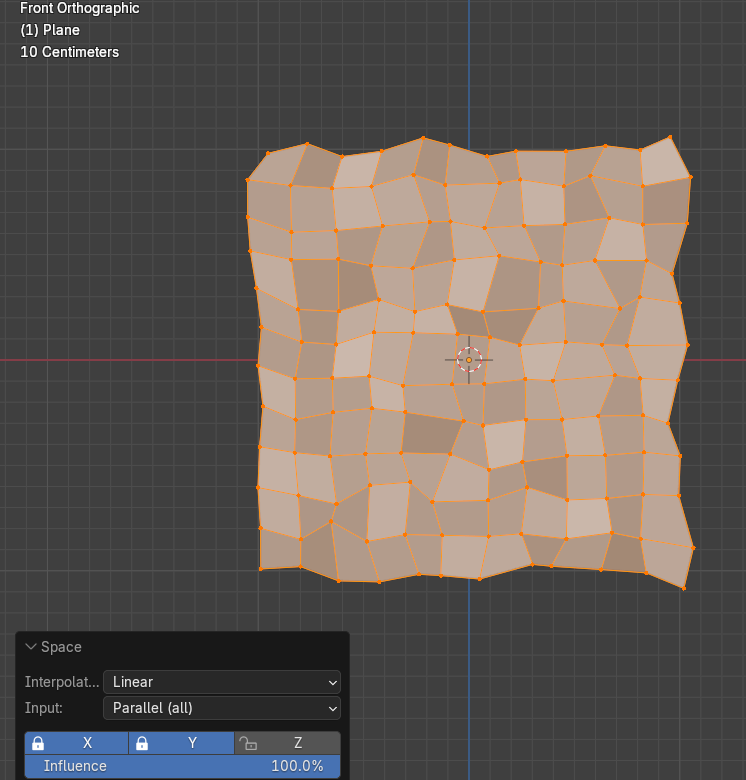
Now with all of the vertices selected we can right click and select Space from the drop-down, context menu of Loop tools.



We can see if we move the Influence on the Last operation dialog box that things will try and space themselves out a little bit. But this tool, could use a lot of help to actually be of any use.

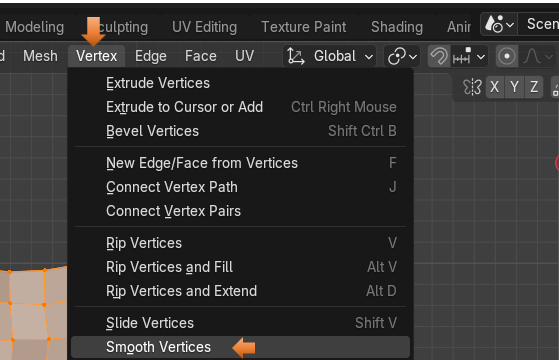


Even at full strength influence, we only get this

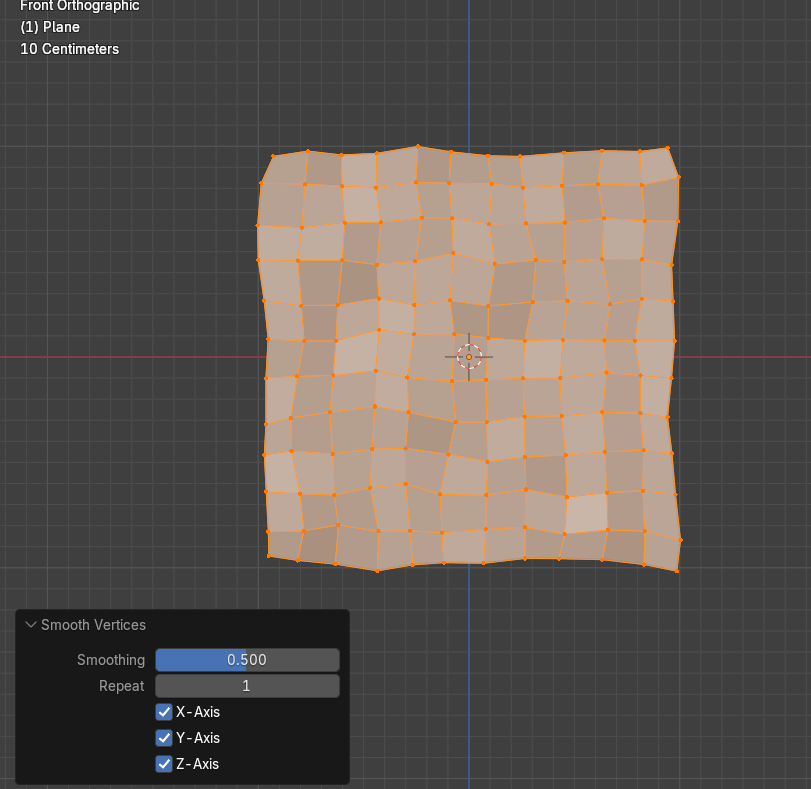


# The Blender Smooth Vertices Tool

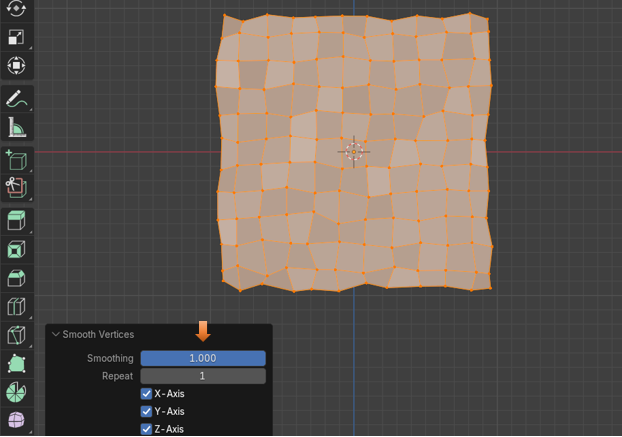
Let’s try that Smooth Vertices tool that is offered from Blender itself, and see if we get any better results on this.



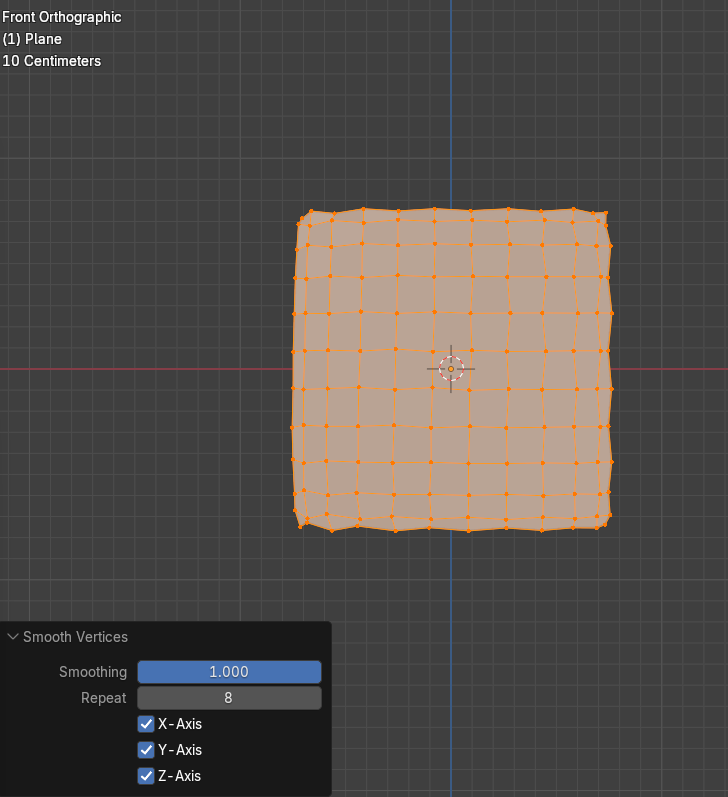
Right off the bat, we get a much better result, and as you can see, the Smoothing is only set at half way.



Now if we crank it up all of the way, it does seem to take it past the desired smoothness.



Let’s try upping the Repeat and see what we get. It spaces the vertices a bit better, with exception to the edges, but we also lose mass of the object.



You can attempt these two different methods for yourself, and see which one that you like better. As far as I am concerned, I still think the Blender’s own method for doing this does an immensely better job of handling things.