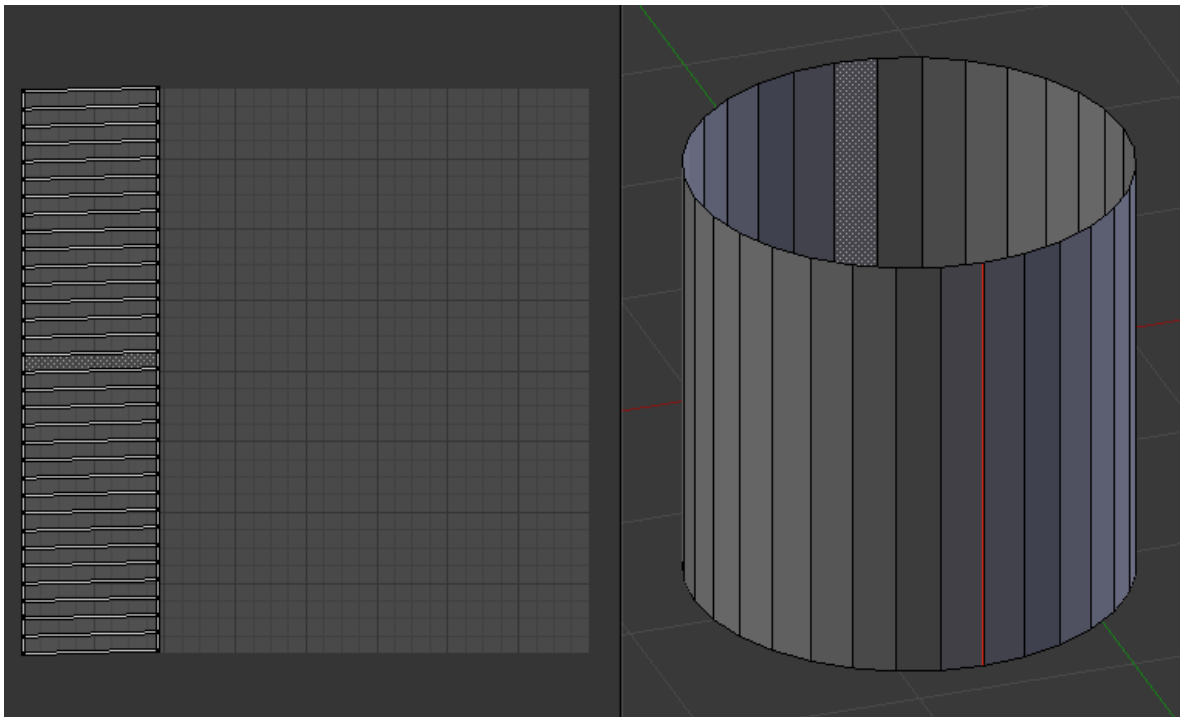


[Skip to content](#)

Seams

For many cases, using the Unwrap calculations of Cube, Cylinder, Sphere, or the regular “Unwrap” operators will produce a good UV layout. But for more complex meshes, especially those with lots of indentations, you may want to define a *seam* to limit and guide the [Unwrap](#) operator.

Just like in sewing, a seam is where the ends of the image/cloth are sewn together. In unwrapping, the UV map is discontinuous at the seams. Think of the method as peeling an orange or skinning an animal. You make a series of cuts in the skin, then peel it off. You could then flatten it out, applying some amount of stretching. These cuts are the same as seams.



Simple seam on a cylinder.

When using this method, you need to be aware of how much stretching there is. The more seams there are, the less stretching there is, but this is often an issue for the texturing process. It is a good idea to have as few seams as possible while having the least amount of stretching. Try to hide seams where they will not be seen. In productions where 3D paint is used, this becomes less of an issue, as projection painting can easily deal with seams, as opposed to 2D texturing, where it is difficult to match the edges of different UV islands.

The workflow is the following:

1. Mark seams.
2. Unwrap.
3. Adjust seams and repeat.
4. Manually adjust UVs.

Mark Seam

Reference
Editor: 3D Viewport
Mode: Edit Mode
Tool: UV ▸ Mark/Clear Seam
Menu: Edge ▸ Mark/Clear Seam

Reference

Editor:

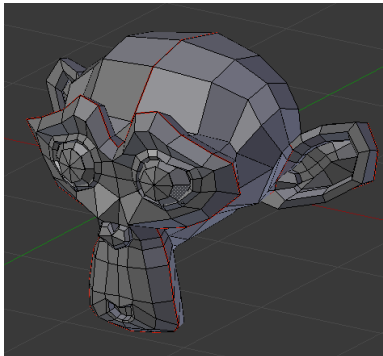
UV Editor

Mode:

View mode

Menu:

UV ▸ Mark/Clear Seam



Seamed Suzanne.

To add an edge to a seam, simply select the edge and press `Ctrl - E` to *Mark Seam*, or to remove it, use `Ctrl - E` to *Clear Seam*.

In the example to the right, the back-most edge of the cylinder was selected as the seam (to hide the seam), and the default unwrap calculation was used. In the UV Editor, you can see that all the faces are nicely unwrapped, just as if you cut the seam with a scissors and spread out the fabric.

When marking seams, you can use [Select Linked](#) in Face Select Mode to check your work. This menu option selects all faces connected to the selected one, up to a seam. If faces outside your intended seam are selected, you know that your seam is not continuous. You do not need continuous seams, however, as long as they resolve regions that may stretch.

Just as there are many ways to skin a cat, there are many ways to go about deciding where seams should go. In general though, you should think as if you were holding the object in one hand, and a pair of sharp scissors in the other, and you want to cut it apart and spread it on the table with as little tearing as possible. Note that we seamed the outside edges of her ears, to separate the front from the back. Her eyes are disconnected sub-meshes, so they are automatically unwrapped by themselves. A seam runs along the back of her head vertically, so that each side of her head is flattened out.

Another use for seams is to limit the faces unwrapped. For example, when texturing a head, you do not really need to texture the scalp on the top and back of the head since it will be covered in hair. So define a seam at the hairline. Then, when you select a frontal face, and then select linked faces before unwrapping, the select will only go up to the hairline seam, and the scalp will not be unwrapped.

When unwrapping anything that is bilateral, like a head or a body, seam it along the mirror axis. For example, cleave a head or a whole body right down the middle in front view. When you unwrap, you will be able to overlay both halves onto the same [Texture Space](#), so that the image pixels for the right hand will be shared with the left; the right side of the face will match the left, etc.

Note

You **do not** have to come up with “one unwrapping that works perfectly for everything everywhere”. As we will discuss later, you can easily have multiple UV unwrappings, using different approaches in different areas of your mesh.

Seams from Islands

Reference**Mode:**

View mode

Menu:

UV ▸ Seams from Islands

Adds seams at the boundaries of existing UV islands. This is useful when modifying the UVs of already unwrapped meshes.

