Mirroring the Object

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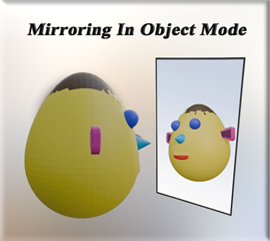
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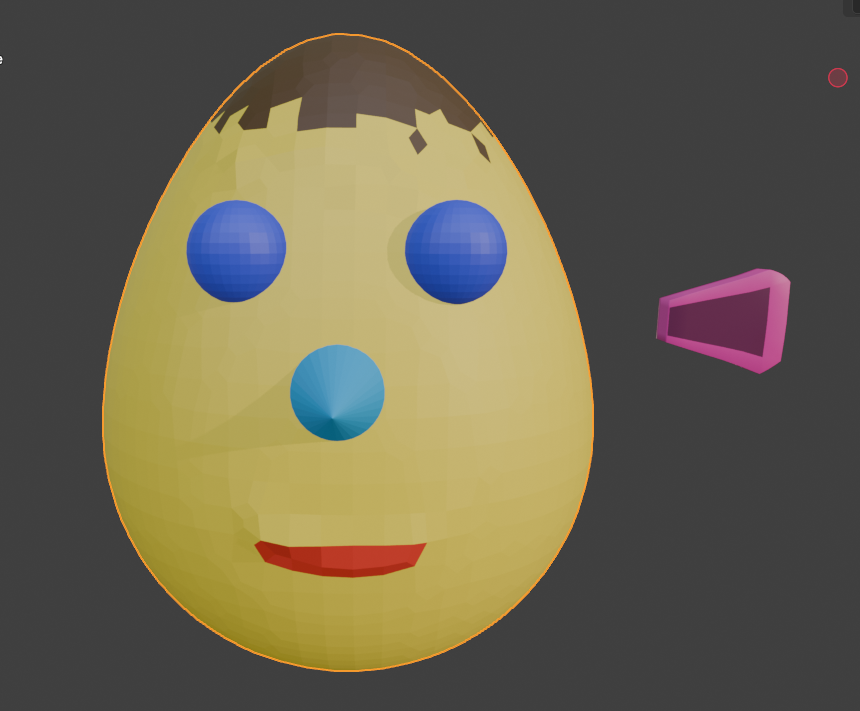
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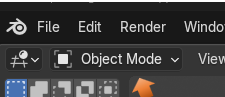
Yes, we could mirror the object by going into the modifying panel and adding the mirror modifier to it, but here I just want to do a simple mirror without going into that realm just quite yet. And mirroring is something that should be done in Object mode, anyways. And since Object mode is what I am starting out with, then I will demonstrate what can be done in this mode.

Here we have a simple little creature. He has an ear that needs to be mirrored on the head.



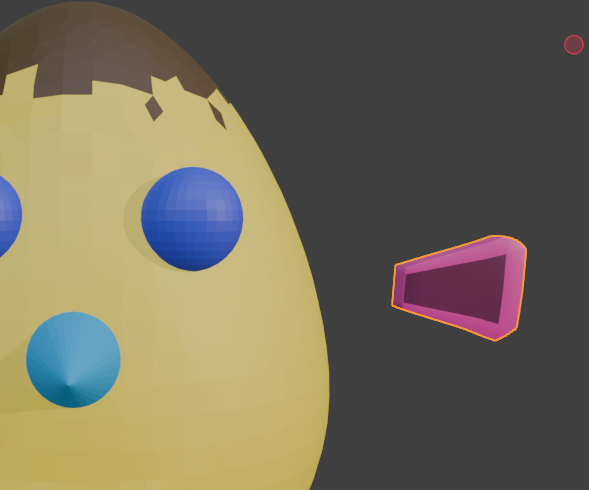
# Object Mode

Make sure you are in object mode



# Select the Object

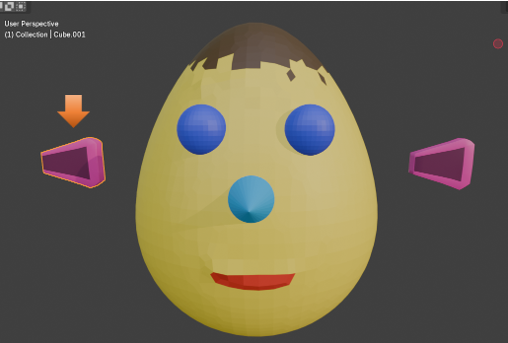
Select the object that you want to work with. In our case it is the ear.



Let me first demonstrate the wrong way to do things

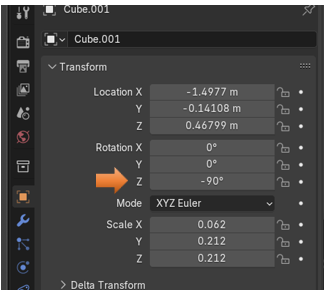
If you were to just duplicate this ear by hitting shift-D and then hit the X button to move it along the X axis, you will find that you duplicated it, but it is in the same direction as the other ear.

Hmmmm… that’s not right.

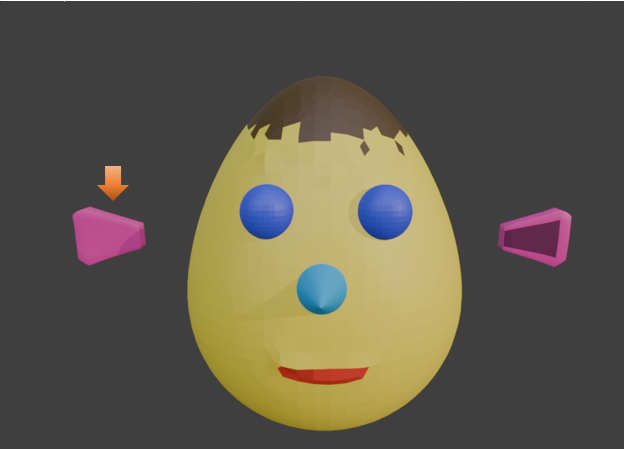


Even if we rotate it -90° on the Z axis, it still will not be right

Warning, if you try to do this move, and the ear disappears, you more than likely made your changes in the location section, and not in the rotation section, and you just sent the ear flying off the screen. Undo and make your changes in the rotation section of the Object property panel on the right side of the viewport..

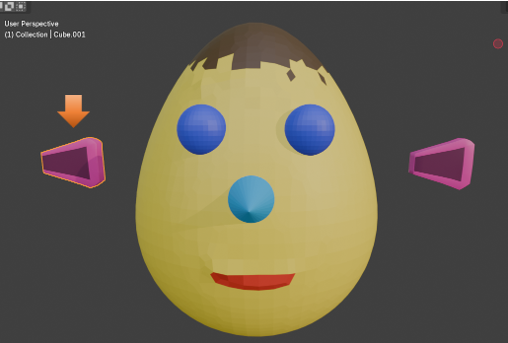


And as you again, again we have that Hmmmm… that’s not right moment, with the rotation of -90°.

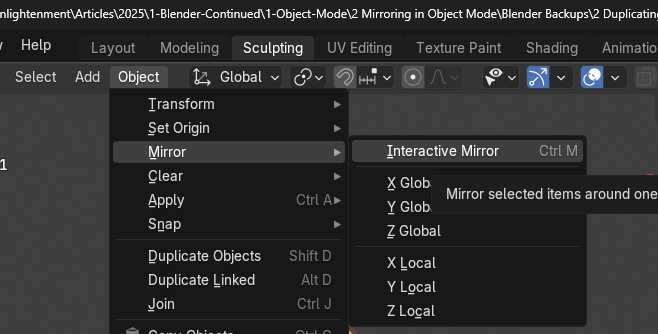


# Mirroring the Object

Make sure you still have the ear that you duplicated still selected, and if you turned it around backwards make sure you undo it and go back to where you had duplicated the ear.



The hot key to mirror, is the ctrl key with the letter M on the Keyboard and then Hit the letter X to mirror the ear in the X direction.

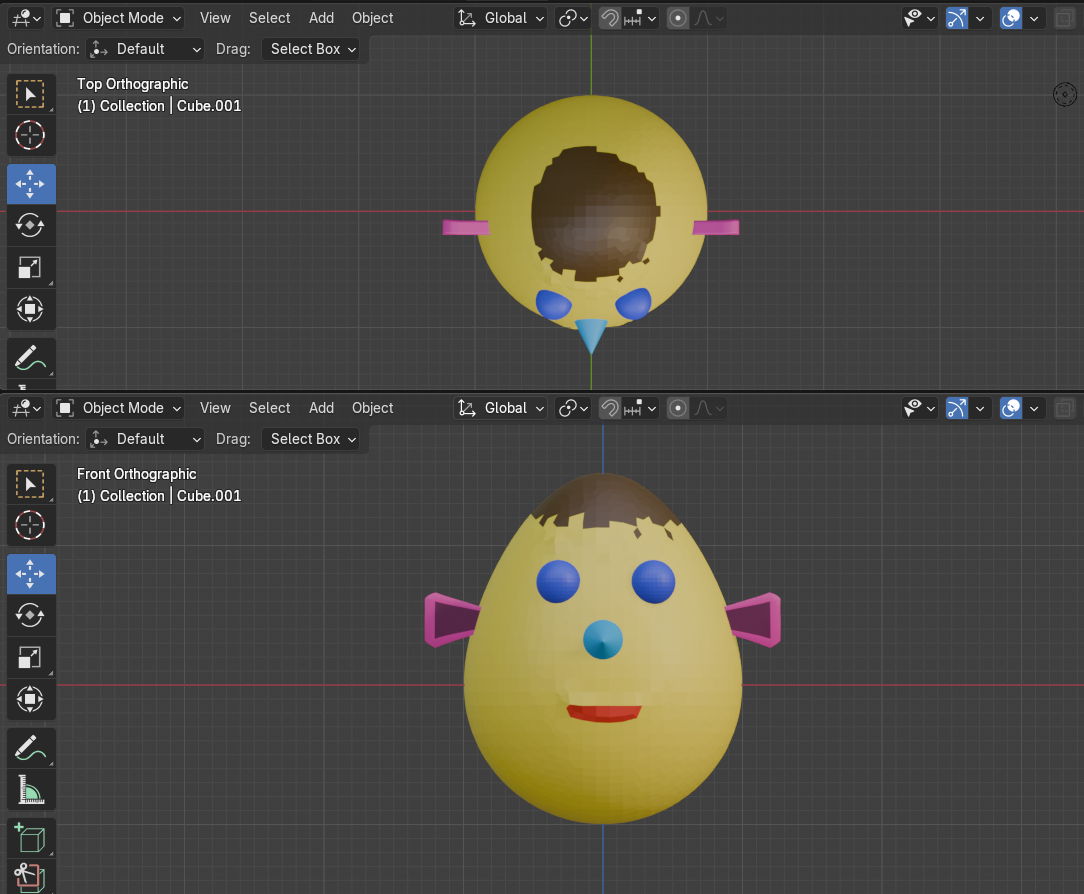


Now you will see that your ear has been mirrored correctly in the viewport.



# Move the Ears Back in Place

Now just use the viewport and move your ears back into place.

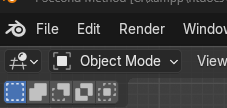


# The Best Way to Mirror without Using a Modifier

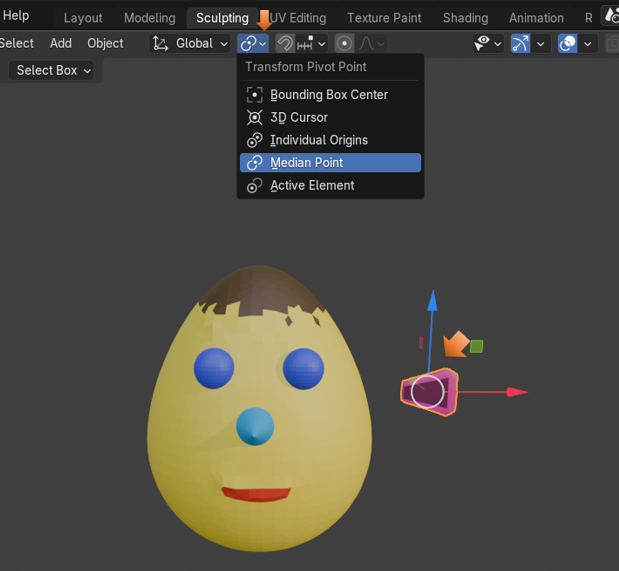
The above method is one way in which you can mirror, but it might not be the best one. There is actually a better way to mirror the ear.

Again, you want to make sure you are in Object mode.

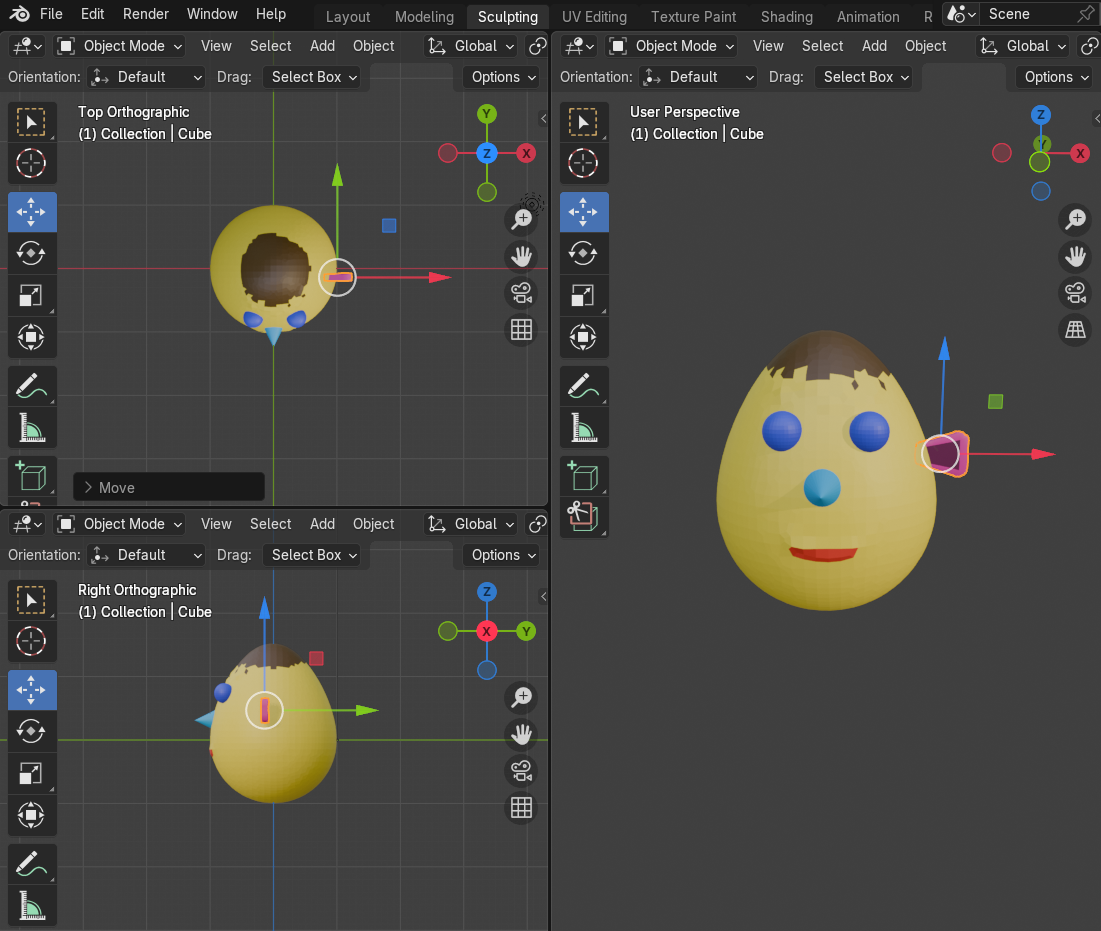
# Go to Object Mode



By Default, you will have the Transform Pivot point on Median Point, you will notice that the move tool cursor when in this mode is situated on the ear itself or the object, and that looks like this:



# Move the Ear into place on the Head



In order to mirror the object correctly the Pivot point must be centered. So…

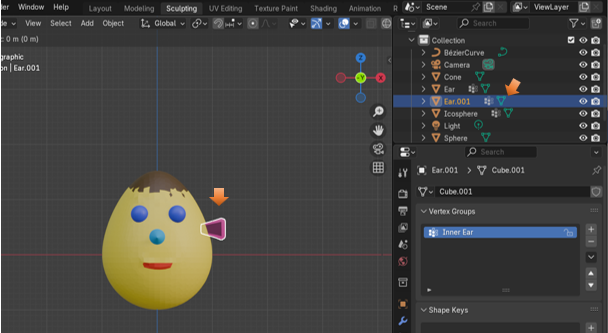
# Change the Transform Pivot Point to 3D Cursor

Notice, when you make this change that the cursor will jump to the center of the object that we will use to mirror the ear.

Now, go to the Data Tab of the Property Panel



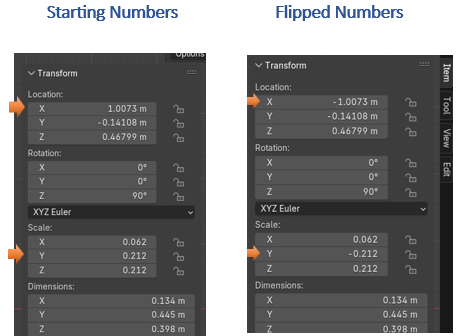
Duplicate the Eyebrows Shift D. Right click immediately after duplicating to keep the ear in place.



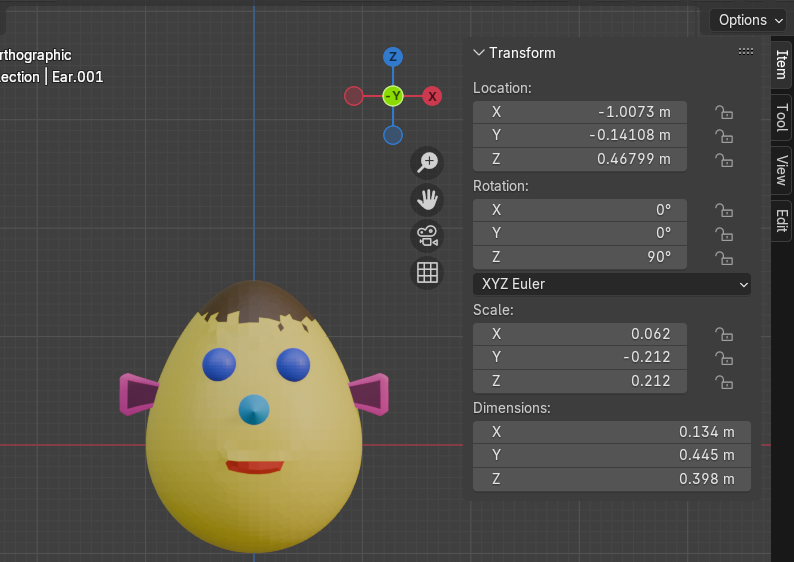
With that duplicated ear still selected,

Filp the X Location in both Location and Scale by adding the minus sign in front of what is already there. You can flip the scale in either the X setting or the Y setting depending on which gives you the better result. For the Ear I found that flipping in the Y setting for Scale worked out the best.

Just put a negative sign in front of these numbers to flip them



And here is the Ear Positioned Correctly after the Flip



# Move Pivot Point Back

Remember to Move your Transform Pivot Point back to the way it was originally once you have done the flip.

Well, that is all there is to mirroring the ear in Object mode. Next week, we will start reviewing Edit mode. The menus that may differ than what we have seen in object mode, and the different things that we can accomplish while we are there.