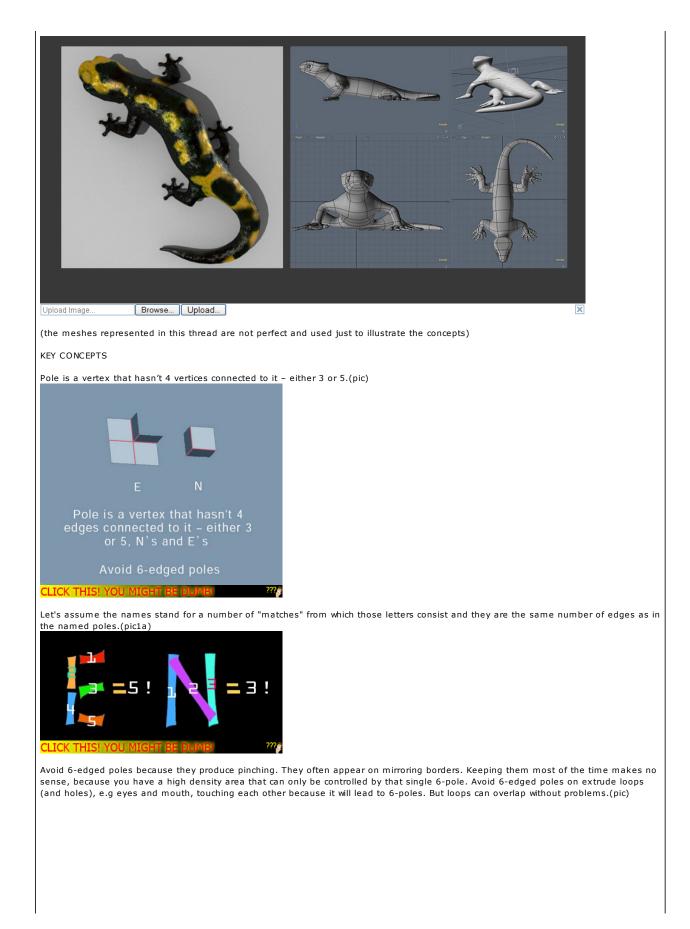
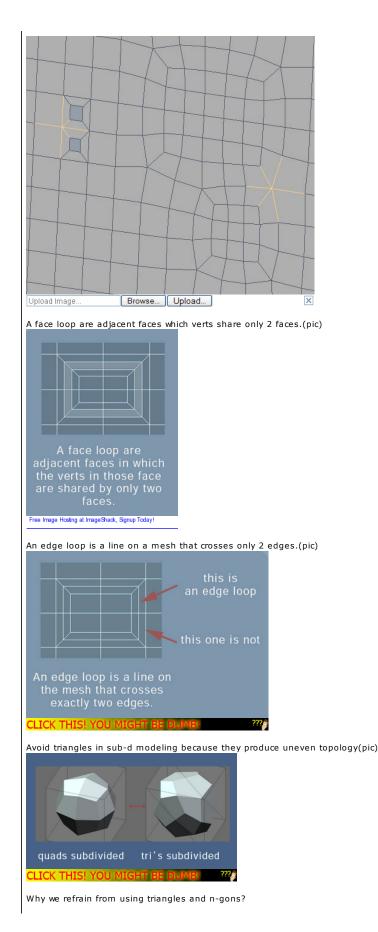
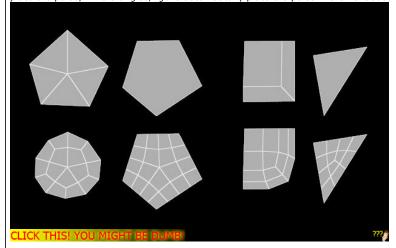
Subdivision Modeling > Modeling & Sculpting > Sharing Technique         Image: The Pole - revised         User CP       FAQ       Members List       Calendar       New F         REPLY         07-12-2008, 04:31 PM         mister3d       Image: Comparison of the pole of	hread Tools Sear uggest you savin one week left befor so sad to me. hal thread, and m -specific and also or something, p have never mode read.php?t=48 of-teach "human get any clear pra- forumdisplay.php	Fore we lose this make it updated o was flooded. please welcome eled any organic 32, then these D anatomy"(detai citical point. Whi o?f=177 and pro	Private Messag Quick Links Pa Rating: AAAAA Rating: AAAAAA Sour hard drive. Sour h	d: Today at 02:22 F res: Unread 0, Tota Log Out age 1 of 2 1 2 > Display Modes #1 [ Join Date: Apr 2 Posts: 18 't know about e early posts y recommend rs "creating ling) and mar lying this Pole ions are even
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				QUICK
07-12-2008, 04:33 PM				# <u>2</u>
<u>nister3d</u> • 6				Join Date: Apr 2 Posts: 18
here are two things required: understanding of mesh and the ability to you model a lizard for example, collect not only references but also tr pic1b)				es and explore





3 point poles are similar to tris and 5 edge poles are similar to 5gons when using catmul clark, which seems to be the most popular for sub-d modelling. The fundamental difference between using triangles/ngons and using all-quads is that you have slightly more control over where the poles go when you model with all-quads, as long as you can manipulate them directly. So all-quad modelling lets you place the poles, while triangles/ngons automatically place the poles in the next subdivision level. (pic tri's vs N's)



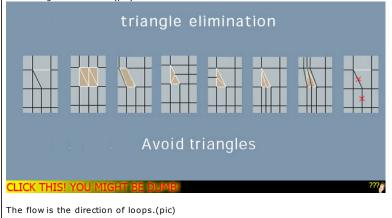
The biggest problems with both are texture warping and pinching in areas with deformations. When we step into these aspects we start running into problems.

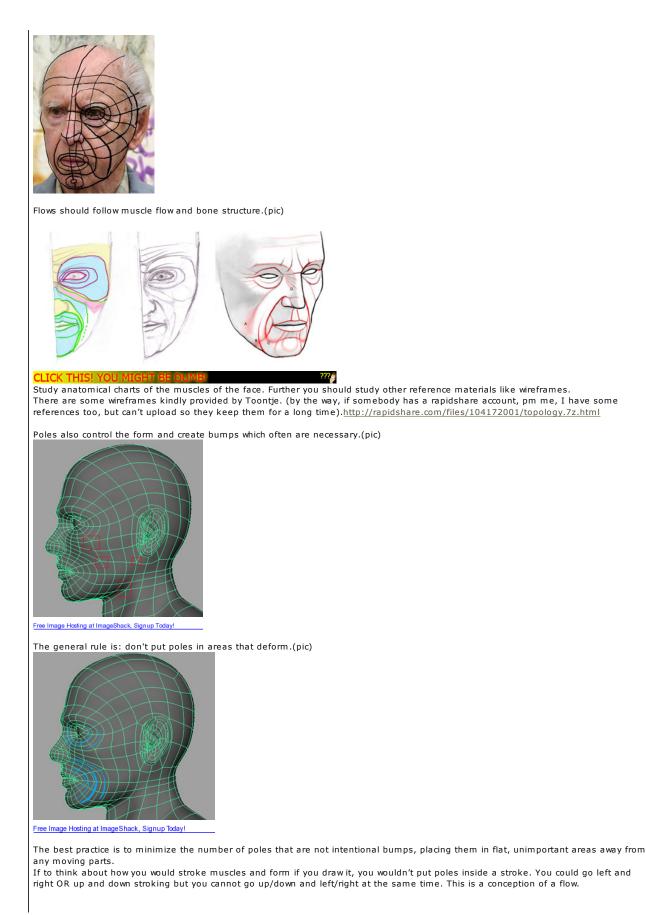
If you don't care about triangles, you produce many poles. If you care - less. That is the second reason.

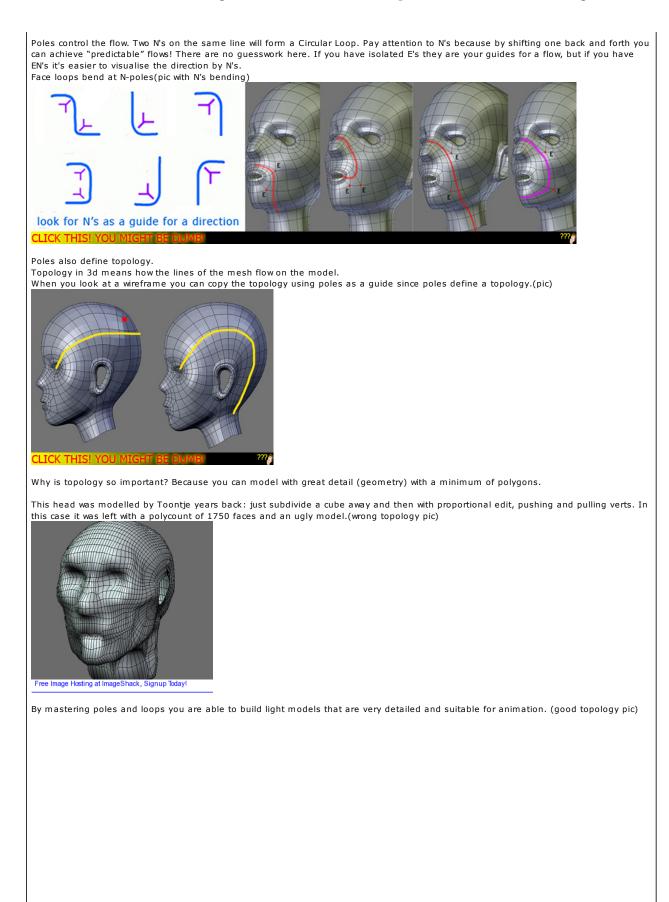
A hard-surface modelling is not strict about n-gons and tri's because subdivision is not used and it won't deform. But sub-d is good for modeling different complex non-organic things like cars and so on with further subdivision, so the concepts can be used not only for organic models.(pic of a car)

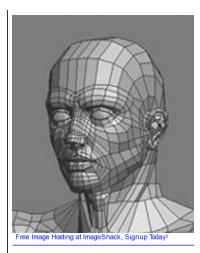


The triangle elimination(pic)







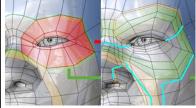


Edge and faceloops can coexist. In this way you don't have to be afraid that there might be some dire consecuenses that edgeloops you create might disrupt edgeloops that are already present. As you can see, loops can touch each other, intersect or be a part of each outer loop, which is cool. So this means that you can form your eyes loop, a mouth loop and pull a nose loop that intersect the mouth (or mouth-nosetip loop) without a hassle.(pic)

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A keyloop is a base to fill loops, that are added later and increase density.(pic)



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A Fill is an edgeloop that is not connected to a Pole in any way, if it's connected to a pole then it's a Key loop.

There is a technique of creating a low-poly from high poly by deleting fills. Of course leave some fills to define the form.

Last edited by mister3d : 07-22-2008 at 11:30 AM.

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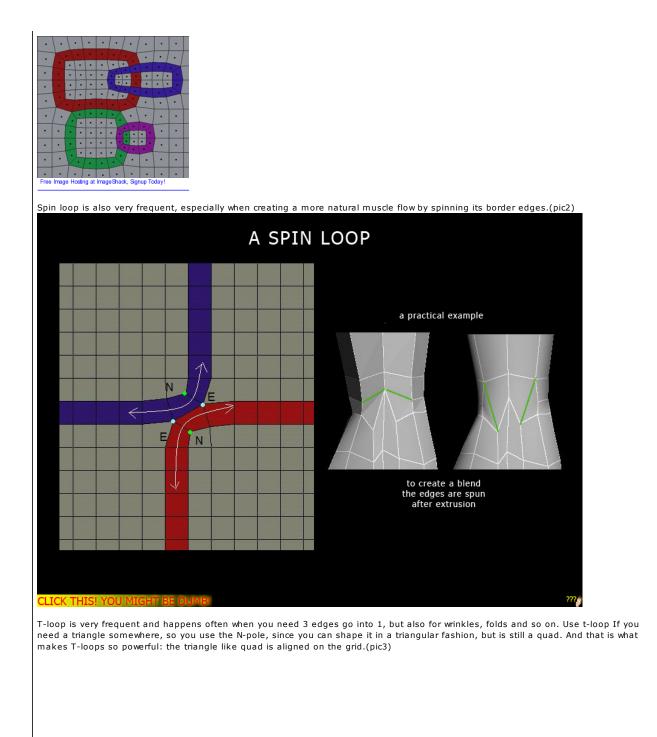
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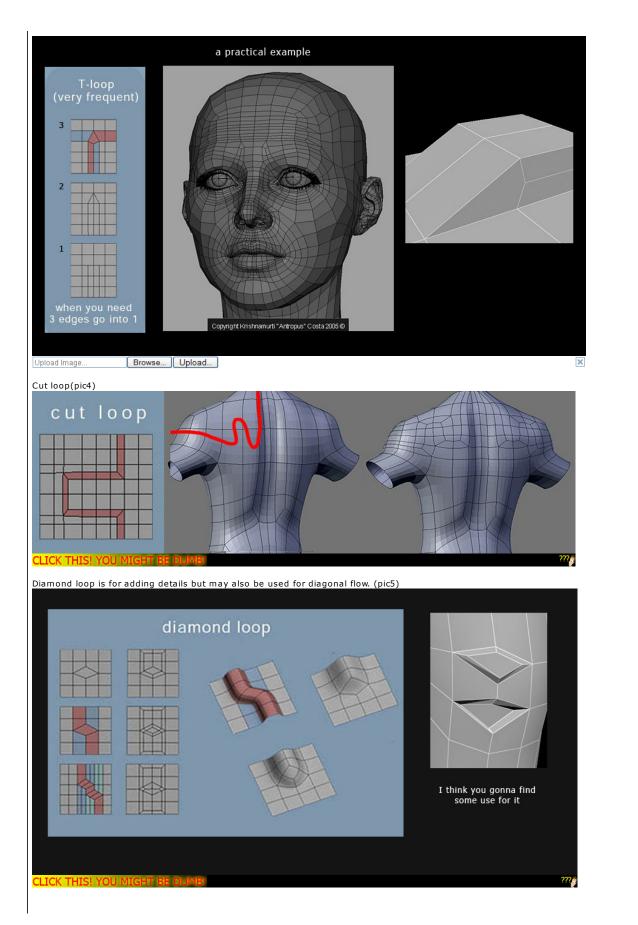
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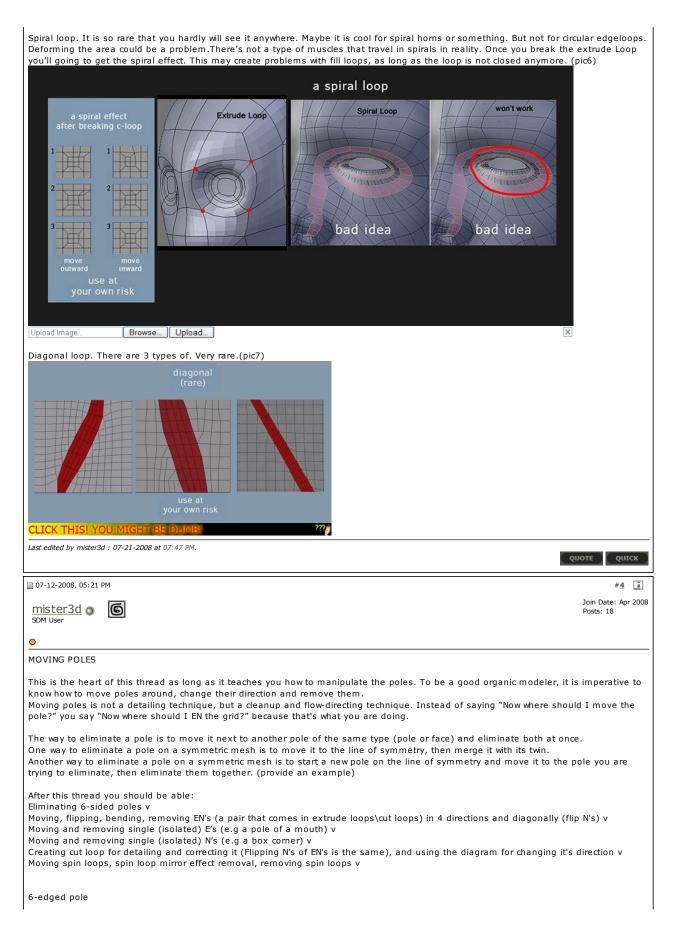
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TYPES OF LOOPS

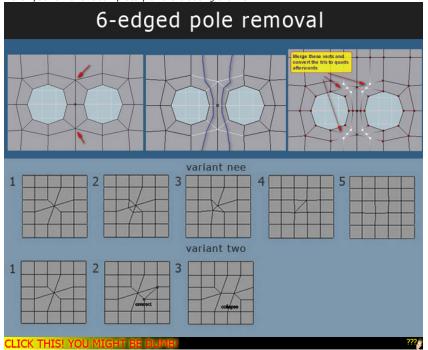
C-loop(extrude loop)is very frequent and used 90% of the time. Most of the time you just extrude and then tweak.(pic1)





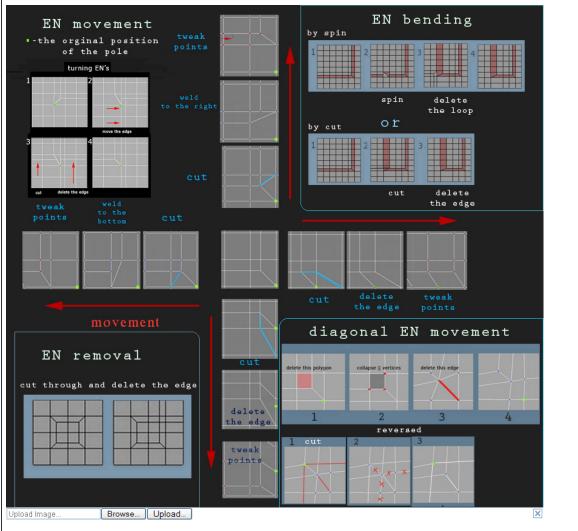


Either you ramove it completely or are creating two E's.



# EN's

C-loops are very common, but you can create another types by turning them, and therefore changing their flow. You need to spin an edge and delete some, or cut through.(pic)



### Moving single E's and N's is more complex than EN's.

It is quite hard to put just one single N-pole or E-pole where you want it. Maybe with the poly by poly method is could be quite possible, but it is virtually impossible to place either as a single pole.

#### Moving E's

Pay attention to the Es because by shifting one back and forth you can achieve predictable flows. There is no guesswork here(see Key concepts - "poles control the flow").

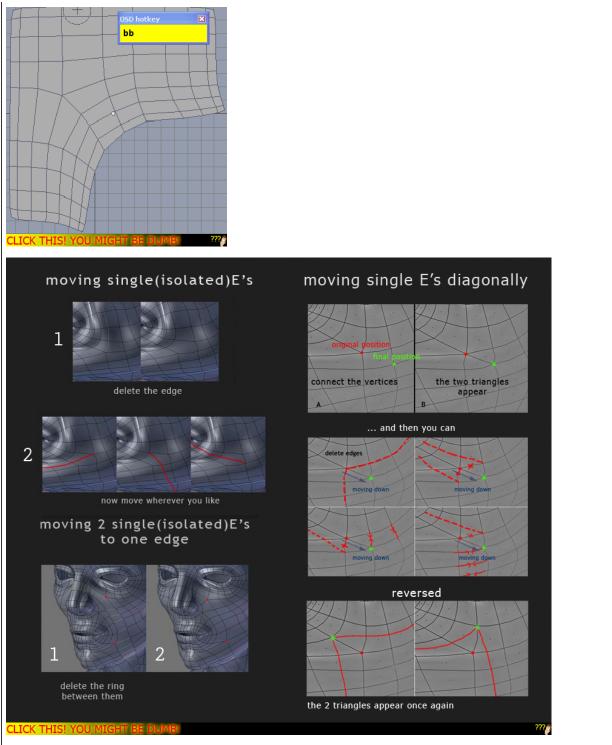
The Es often form the structure for an extrusion or maintain loops, so I'm not sure why would you need to completely remove a single E, but if you need you can move it to the border of the hole, though many edges will be added.

An E Pole has 5 edges and all you need to do is take one of the 5 edges and rotate it, that is in theory. In practice what you do is delete it which will remove the E pole and you are left with an Ngon. Rebuild the Ngon and there you have it. Literally you can move the E in any of 5 points of Ngon now. The choice is up to you

You can also turn the quad into 2 triangles and after this the combinations are endless

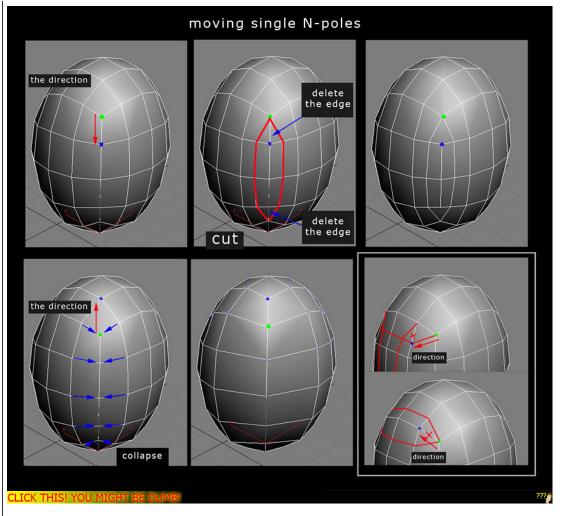
The same key idea can be used in reversed, as long as cutting through we treate the 2 triangles.

If you need 2 E's on one line, simply delete the ring between them.(pic)



# Moving single $\ensuremath{\mathsf{N}}\xspace's$

A good example of this is the NPoles for the forehead and the back (if you started with a Box that is). For the forehead you hide it inside the eye and for the back you hide it inside the ear. The way to remove it is to move it to a hole (terminator). The single Ns can be moved to where they are unimportant.(pic)

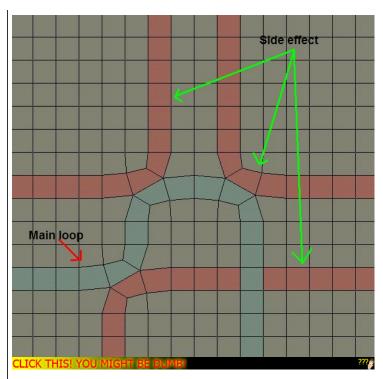


Spin edge loop There are 2 examples of moving spin poles, I'm not sure about moving in 4 directions, maybe it's easier to revert it and create where you need it.

They can be moved bu spinning the green edges(see the pic) or by collapsing points, and are moved by one row down and left or by one row down.

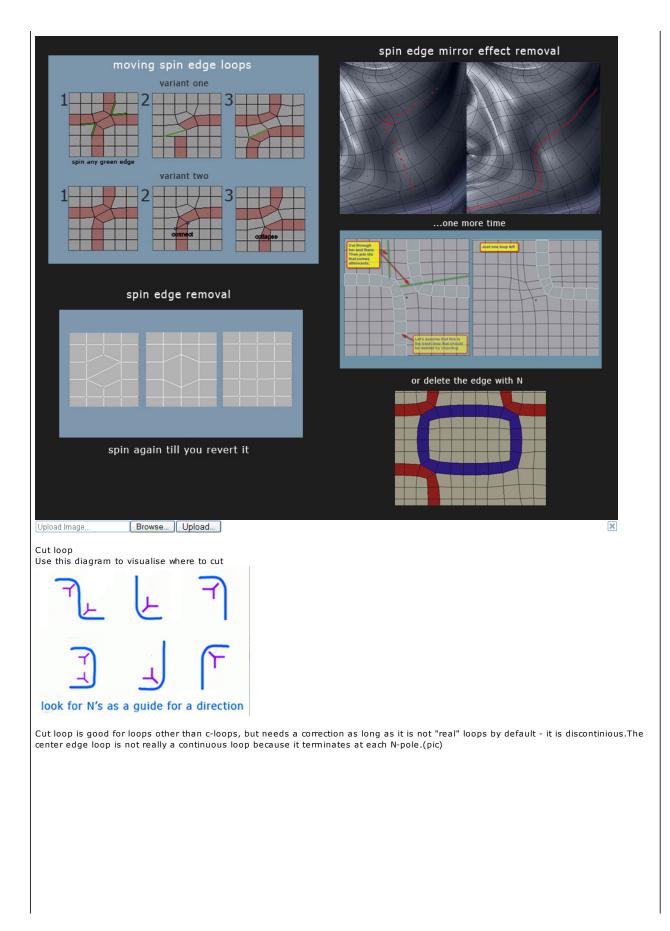
There are two problems to thie spin pole technique and they are:

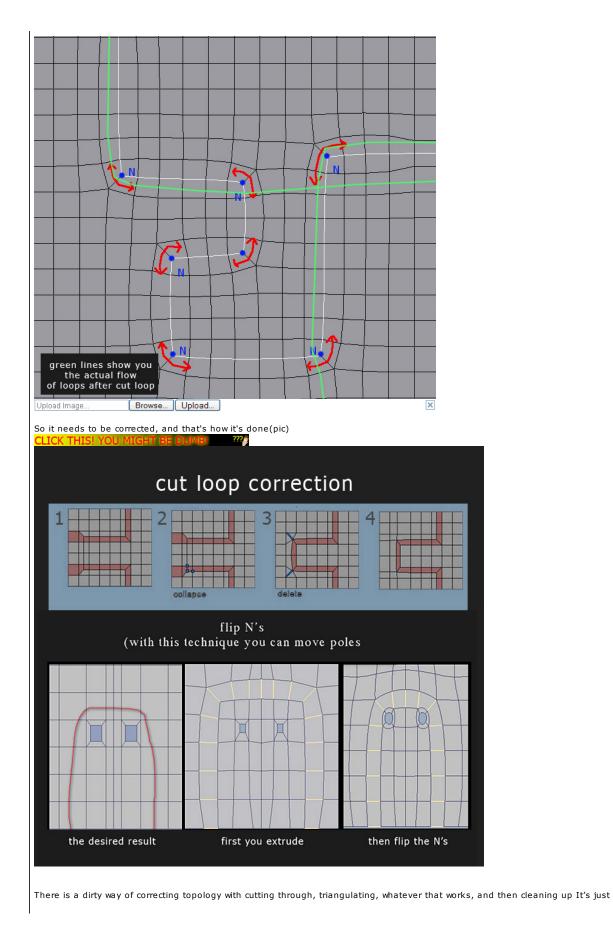
1: The mirror effect. 2: The NPole



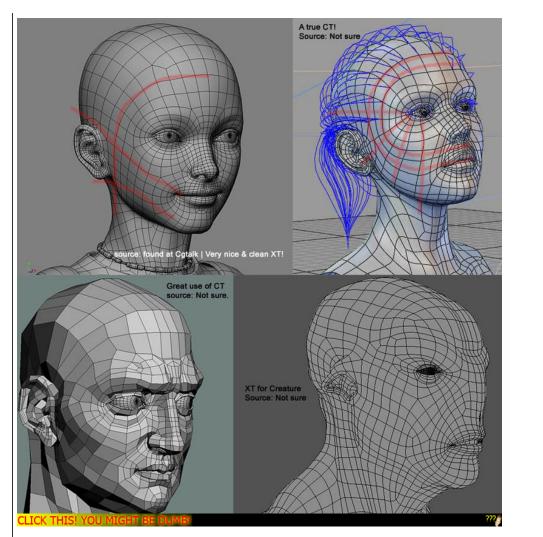
These two problems can be solved by unpoling the Npole and once that Npole is gone the rest will be gone.

Spin loop (can be closed, though produces additional poles, which can be deleted by collapsing. So you get an extrusion loop without an actual extrusion.





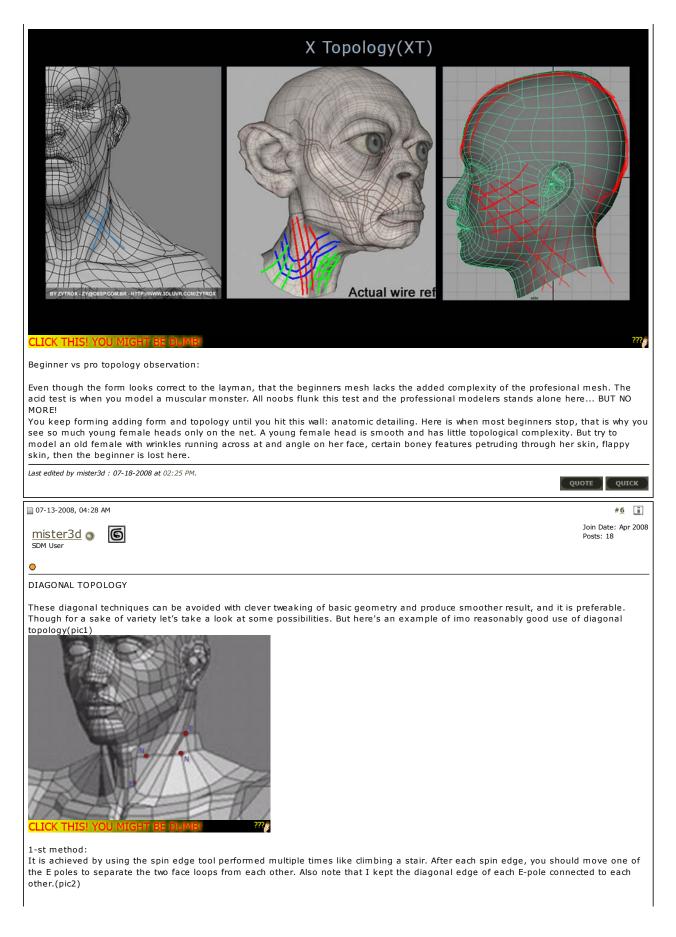


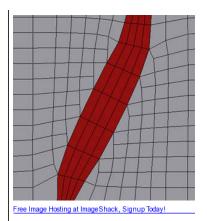


But X-topology better defines the jaw area by its N-pole, and perhaps the general form, and preferable for realistic models. S(spiral) topology is not that common but it's there for anyone who wants to get fancy with Topology. (show how to create)

By moving poles you can create new types.

X-topology is also important in muscle\organic modeling as long as it often follows the muscle flow more naturally. For example, X topology shows its superiority in neck muscles modeling, resulting in a more natural flow. X topology is just a more natural muscle flow than simply cylindrical as long as muscles often don't go straight.(pic3)

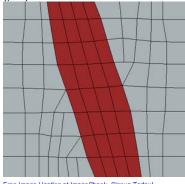




#### 2-nd method

The following image is done with T-loops. The diagonal topology is hereby achieved by making the N-pole quad look like a triangle and use is to 'paint' the border of the diagonal topology. This method comes with a penalty to the density of your mesh. Maybe it isn't that big a problem to begin with, or maybe it is desirable if you a planning to add detail in the dense area's anyway.... just a point to keep in mind:

I think that this topology is the cleanest of them all because of the orthogonal nature of the T loop. In the example above there are 3 T-loops of course. If this is a little to mystifying, I can explain the procedure, but is far too easy. I think moving pole around is trickier. (pic3)



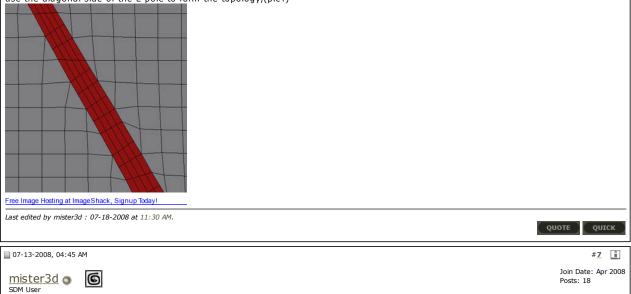
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#### 3-rd method

The last method is quick and dirty, and in my opinion it looks a bit messy. Maybe I should study it a bit more. You can also achieve diagonal topology with loops that almost that are almost aligned with the grid by breaking the grid. It was already explained in this thread. Just make a series of 'diamonds' and you achieved diagonal topology.

As everything else, this method has its advantages and disadvantages. The grid itself is very consistent and not all to distorted, but on the other hand, the internal topology of the diagonal is a mess.

use the diagonal side of the E-pole to form the topology,(pic4)



TEST YOURSELF	
believe practice is the goal. What's the point if you just read and do nothing? Here's a list of exercises and question	s.
Noving a single N-pole: hide a single N-pole of the forehead inside the eye and a single N-pole of the back inside the	ear.
a single N-pole a single N-pole	
mission brief: delete the 2 N-poles by hiding	
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