

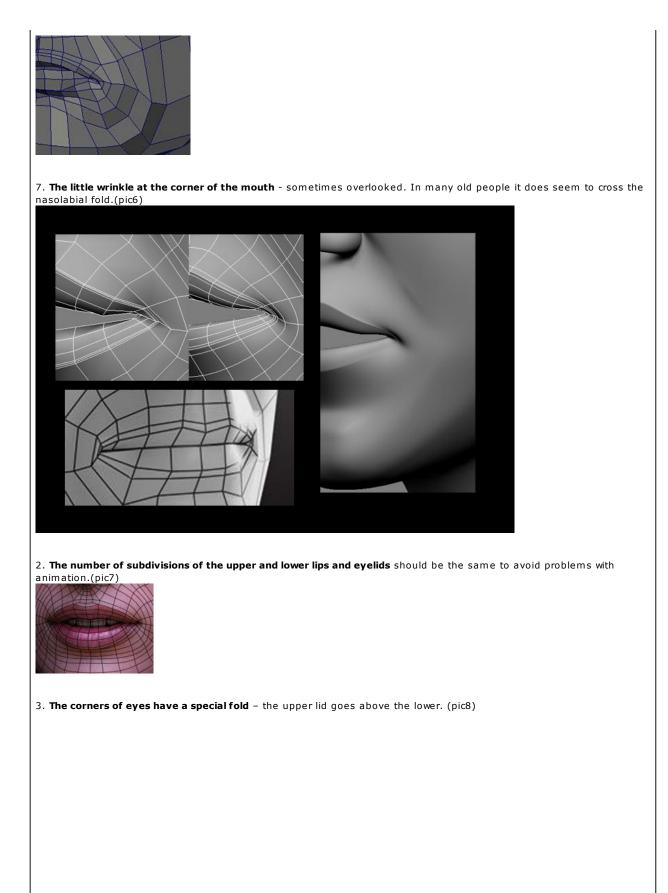
Beware of long polygons. You have to form an even balance of poly distribution, as you may get tearing and shearing.

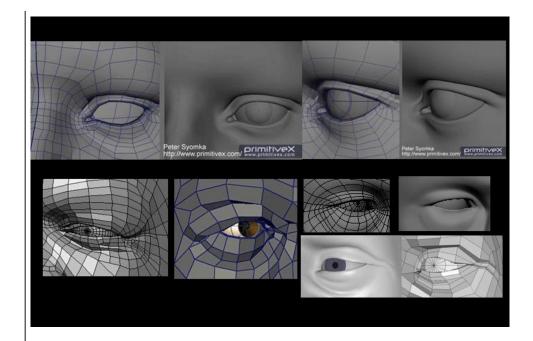


The next step is correct topology for animation. The question is: what kind of details we need for the form and animation?

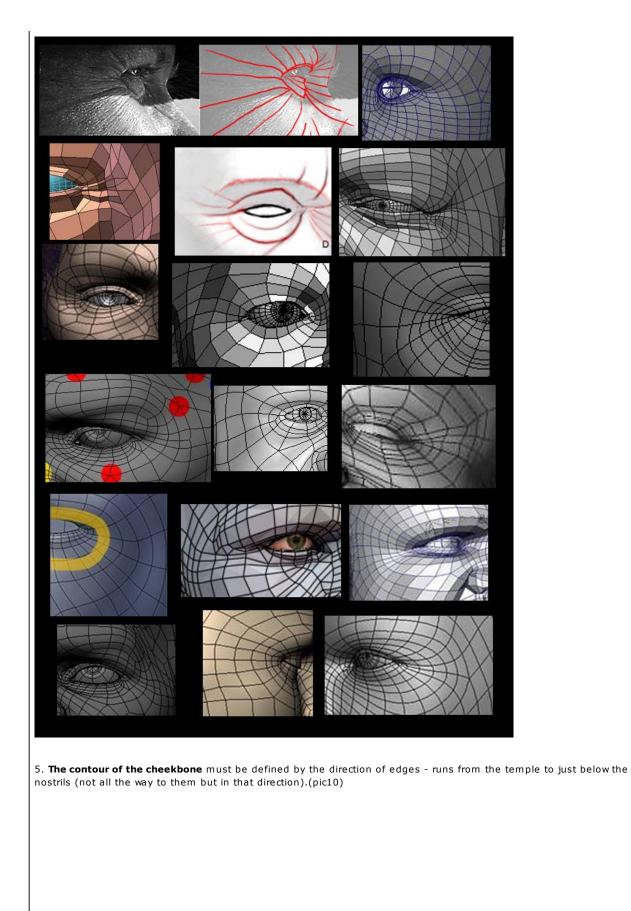
Important details:

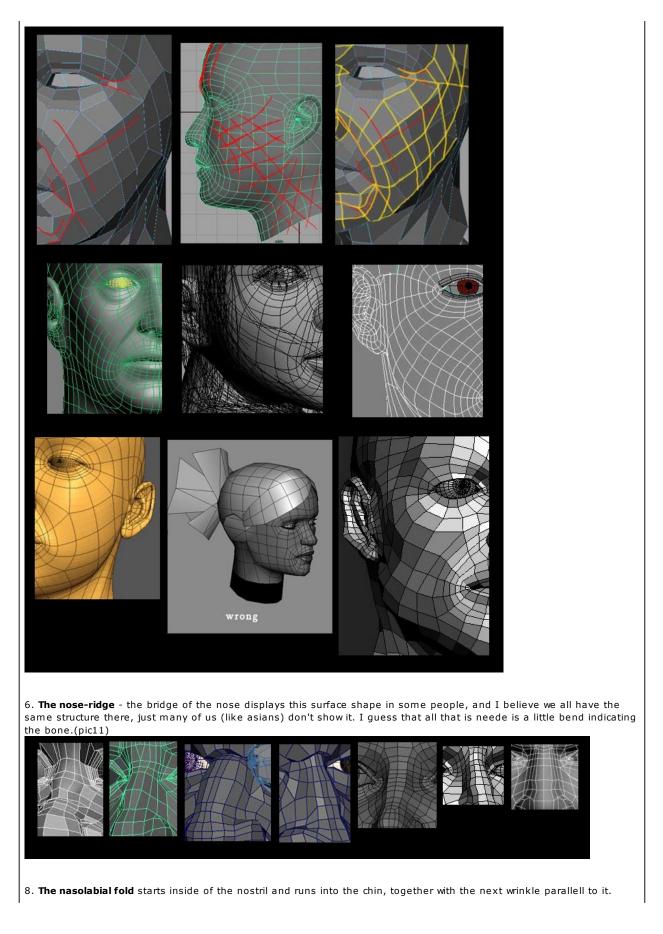
1. **The corners of the mouth** should not be one thin line – at least 2 edges forming the corner. In most wires I see 3 edges -one horizontally and one above and below.(pic5)



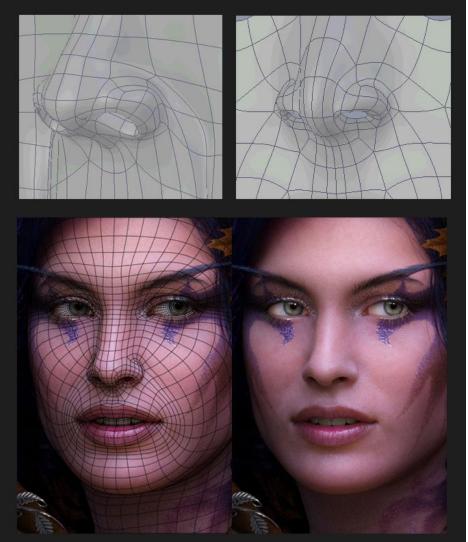


4. **The wrinkles at the corner of the eyes** - very hard to get right if the topology is wrong. I think it's a good idea to add them a a local detail not to make the mesh to dense. I'm not sure whether the circular topology is more logical there to the lines going to the skull base.(pic9)





Almost every single person on the planet shows something quite similar. (Although a few have the nasolabial fold hooking up a bit lower on the chin.) Toontje has a good example of nose modeling. <u>http://blenderartists.org/forum/show...t=93651&page=4</u> Unfortunately he doesn't explain how he models the nose, but you can see the loops diagram. The best nose I've seen. (pic12, 12b)

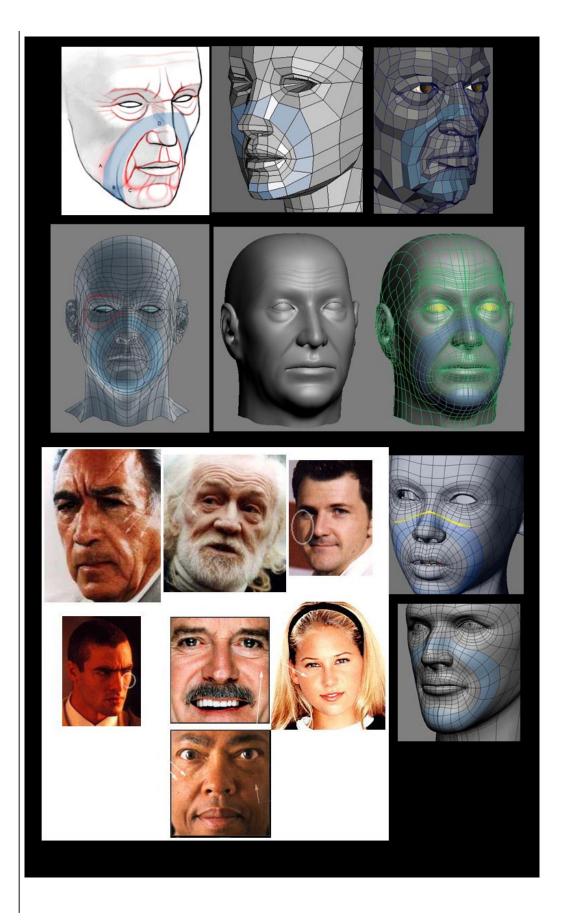


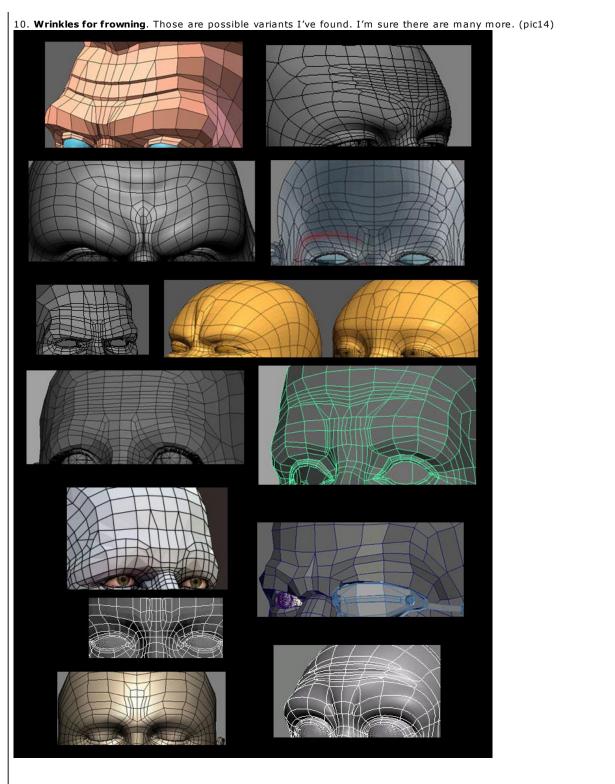


9. **The infraorbital fold** should be present (except in some very young children and very fat people it's hidden.) .(pic3) (The fatty deposit on the cheek just below it grows and kind of merges with the smaller deposit just under the eye.) infraorbital fold - edges should run from the inside eye-corner down to the jaw-muscle, not 45 degrees loops to this direction as many do (for an extremely fat person it may differ.)

Notice that this fold defines the eye socket and makes a fold line going from the eye (beak? Where the tears go from, I don't know the correct term in English, help!).

(pic13)



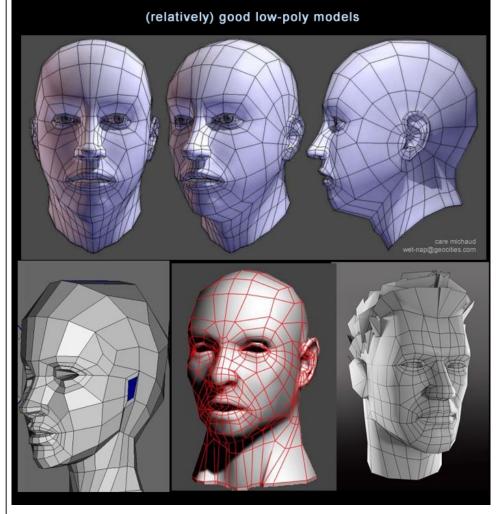


11. The final touch: add some assymetry. The more bad character is, the more you may add. In real life beauty and symmetry are the signs of health, so the more symmetrical face is, the more we like it, but it's rare in real life, so you may add some to make it more believeable. But make it after rigging, blendshapes etc, with a blendshgape of any alternative to make setup easier. Assymetrical characters are a pain to rig and skin. You even can collapre the stack with aplied blandshapes keepinf it rigged and skinned.

As you see, all these details come from the knowledge of anatomy, and further improvements can be made with

improving the knowledge of anatomy. I guess I will make "topology – body", but I think it's not as critical about animation, as we don't often need muscles of the body deforming to the extent we need facial articulation. But who knows, will wee.

Of course for a lowpoly model the details must be simplified, but the rules are the same. It's not an excuse making a wrong topology for a lowpoly model.(pic15)



And here's an example of topology which, unfortunately, in my opinion, doesn't serve well for animation, though the form is beautiful. (pic16)

Maybe we could now invent a "perfect topology" applying these rules. A low-poly version and	
nice. 😊	
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nice easy to read collection of information i'm sure a welcome addition for character artists alike	
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## Topology - head - Subdivision Modeling

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