Alias Tutorial Knowledge

Rear Quarter Panel + Bumper

A-class modeling Step by step, detailed modeling process

Intro

Get a comprehensive insight into how to perform A Class Surfacing and High Quality Reverse Modeling. Immerse yourself into intricacies of real A class modeling with this step by step, detailed modeling process explanation. Just watch this 3 parts video tutorial on my YouTube channel. Additionally, on my blog, you can get a PDF with major points from the tutorials, and download a finalized 3D model together with the scan data to try your hand at.

Project Workflow

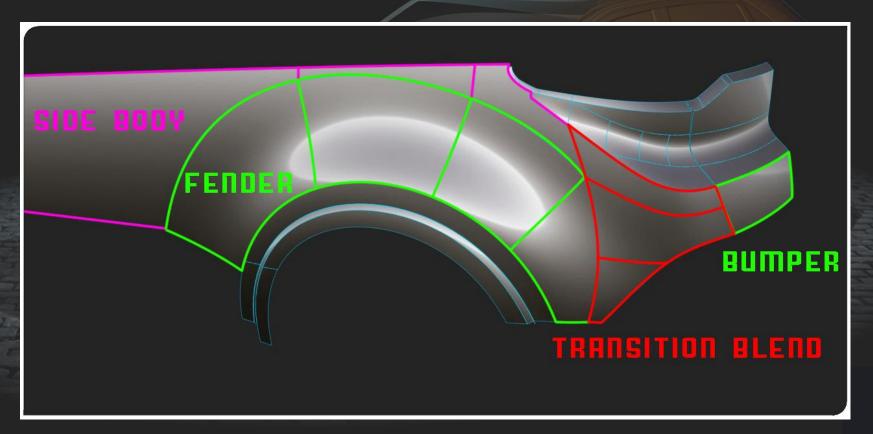
In this tutorial I work on one of the most complex areas of this car's bodywork. Basically, the task is to blend three different surface patches that will be integrated into one elegant solution.

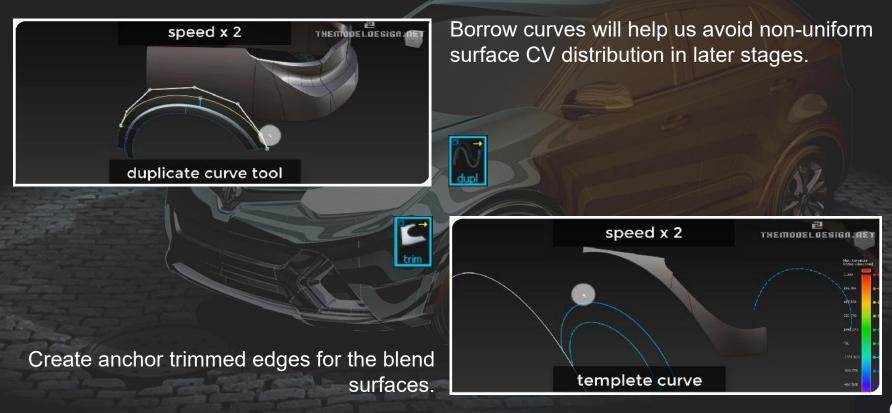


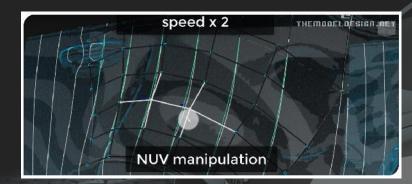
Each particular video tutorial introduces a modeling process of primary surfaces. These are: Bumper slab surfaces, side body surfaces and fenders. They form the foundation for our final portion of surfacing, which is the blend bumper. Produced geometry has A class qualities. By understanding the tribulations behind A class modeling, you will be able to analyze steps taken, and anticipate steps ahead to achieve very good results relatively quickly, and non-destructively manipulate geometry within 1mm of surface to model deviation.



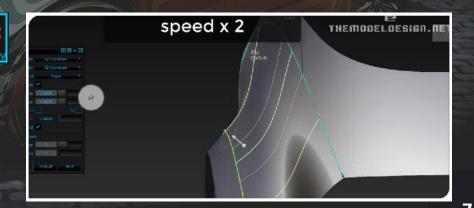
Bumper slab surfaces, side body surfaces and fenders. They form the foundation for our final portion of surfacing, which is the blend bumper.



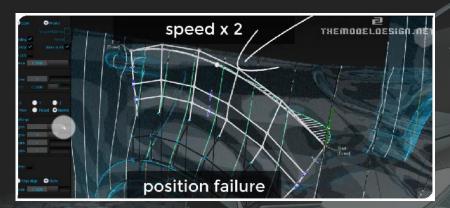




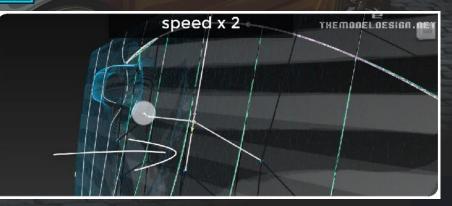
When highlights look nothing like the scan, manipulate CVs to achieve results that are very close to what we are after. Bubble moves down as soon as I touch the CVs? If you overdo you can move the bubble up again a little bit.



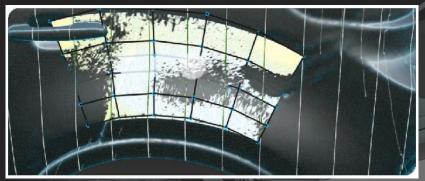
Auxiliary surface - helps us create fender surfaces at initial stages of modeling.



Position failure G0 but I don't worry about this at the moment. I can always add more degrees later on, for now I am happy about the result.



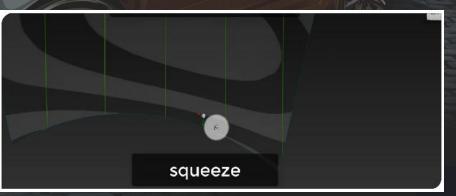
Do you see the gap difference here? It is getting smaller. We have the history active so everything remains connected and alive as we manipulate the CVs.

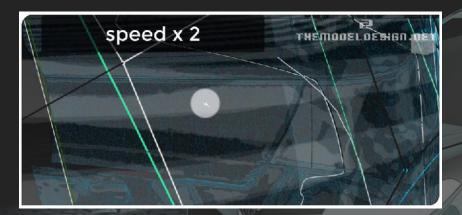


Don't rely on tools alone. Compare overlapping data and their colors.

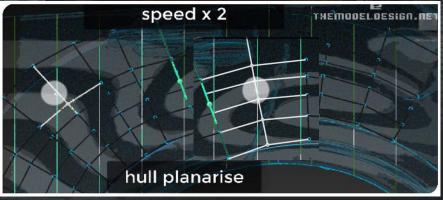


I squeezed the view to see any highlights imperfection even better, I am first of all looking at the zebra stripe in here. I want to make it nice and round.





We are very close. What I am looking at is zebra and at the same time the gap between these two lines which are scan line and our surface line.



You can use a hull planarize with history active, this way you won't destroy the continuity.

