

Class summary

In this class, Uwe Rossbacher, industry specialist for technical surfacing/styling at Autodesk, explains the unique principles of Class A automotive modeling. Specifically, he addresses the importance of modeling beyond the theoretical edges of a model, a key skill for top technical surfacing specialists in the automotive industry.

Code MA3478-P 12/4/13 (Wednesday) 2:30 PM











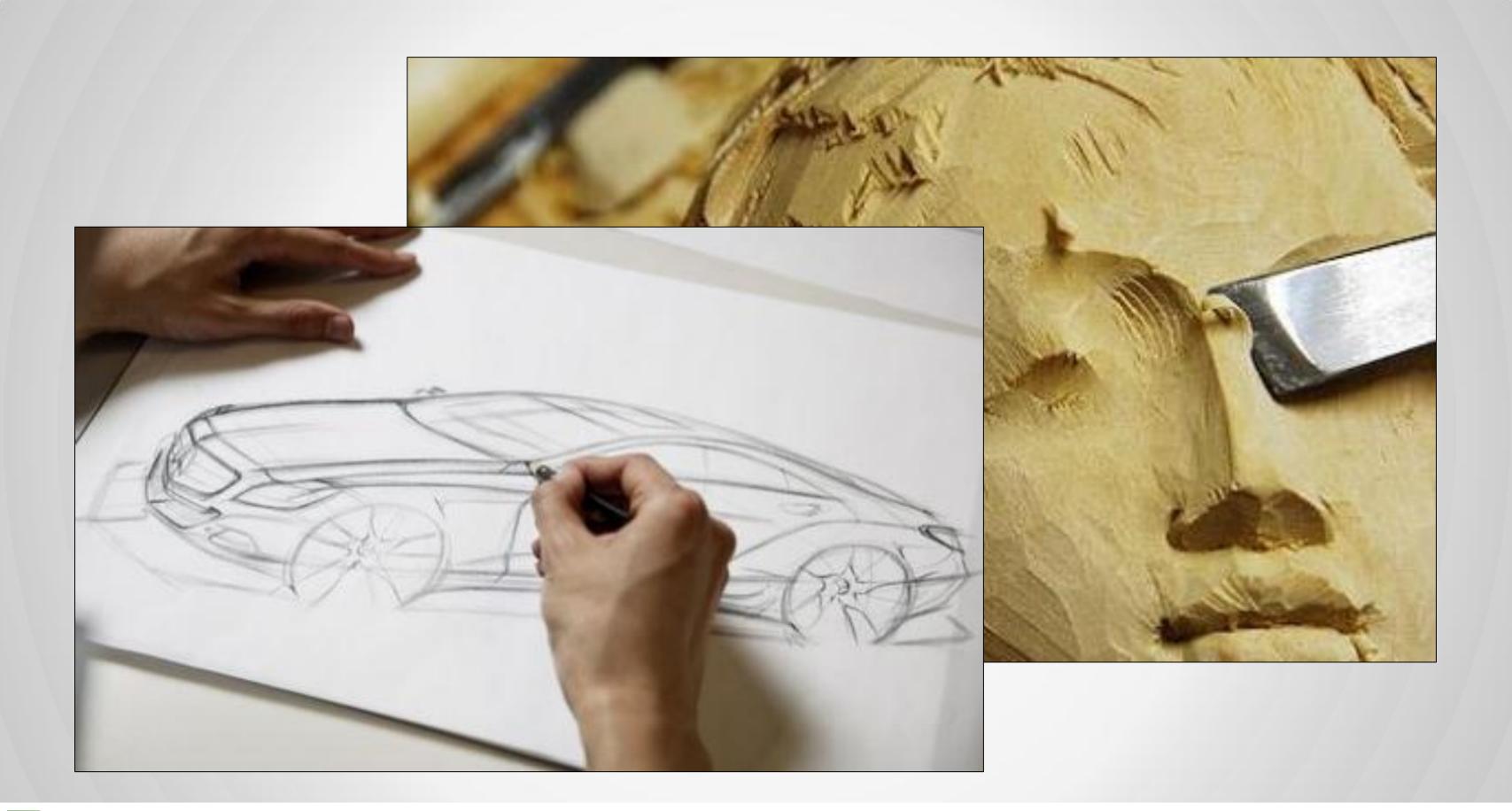


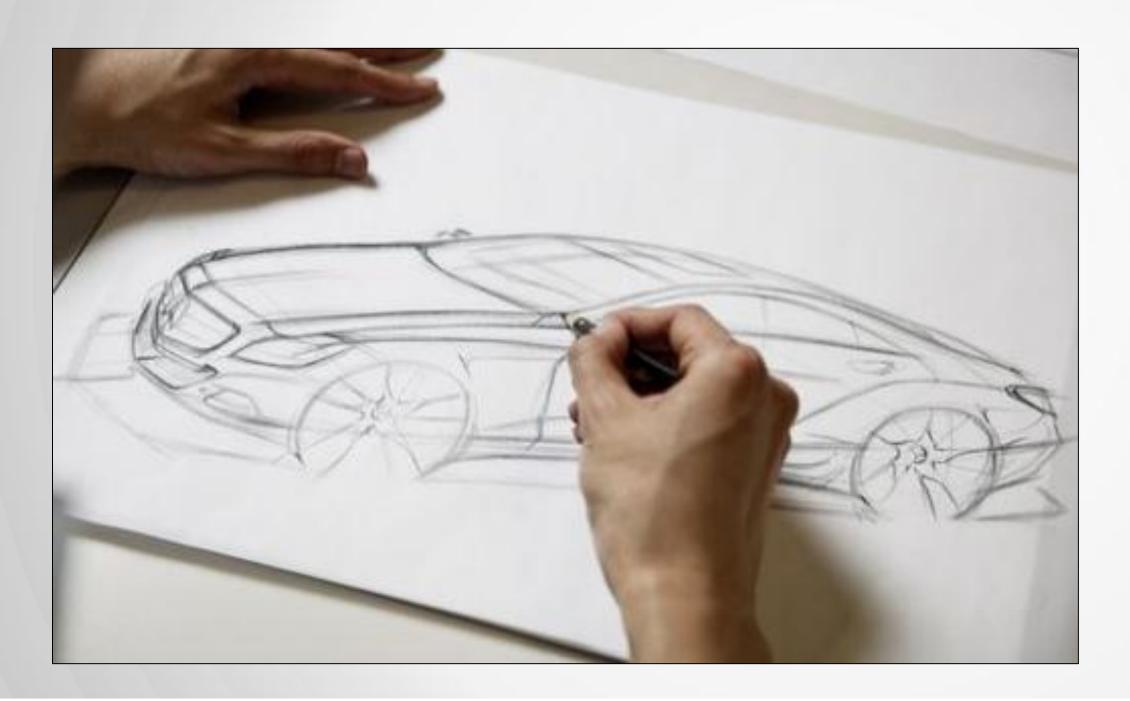


just another tool ...





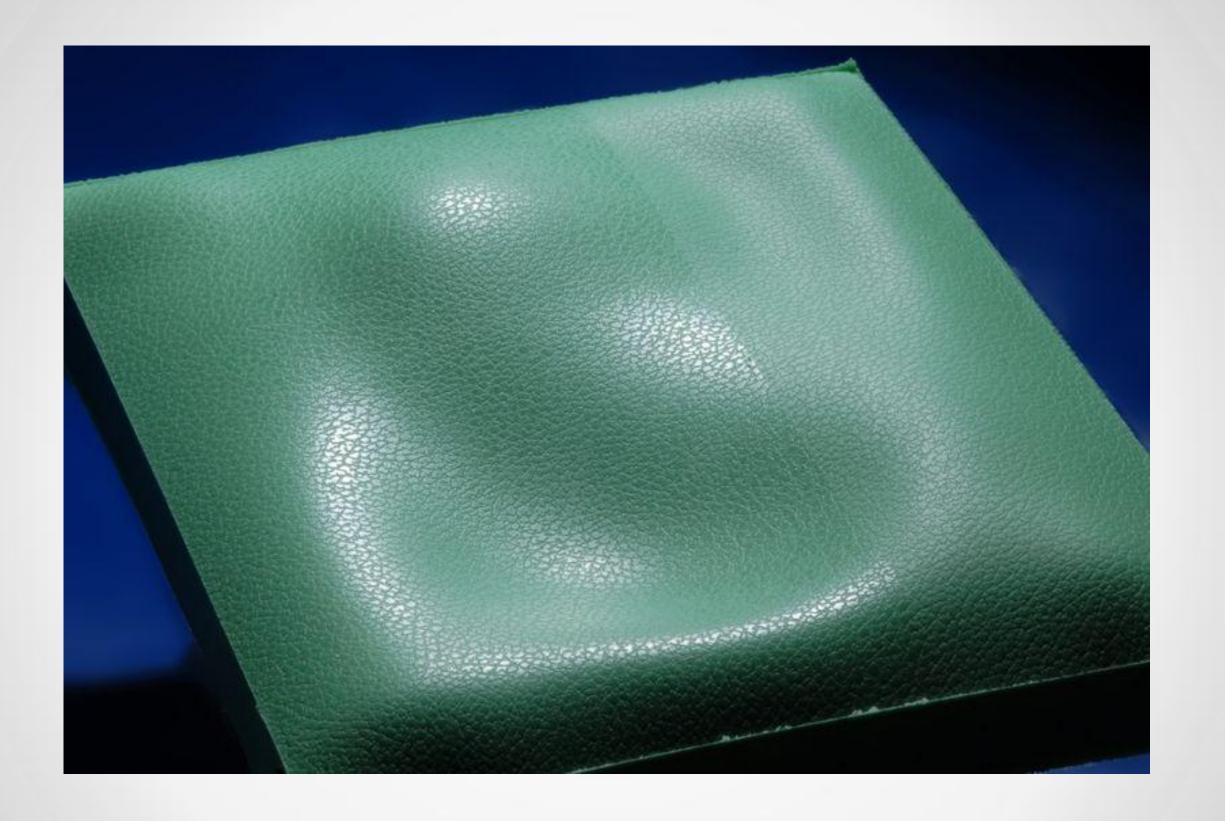


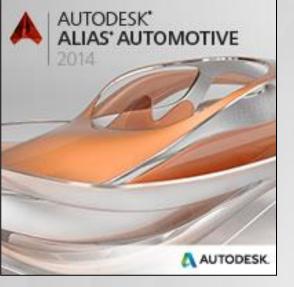




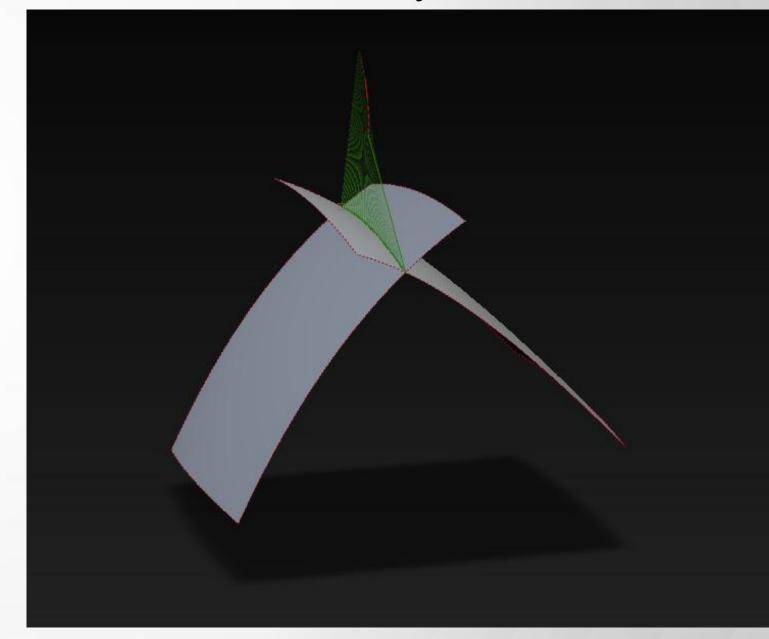






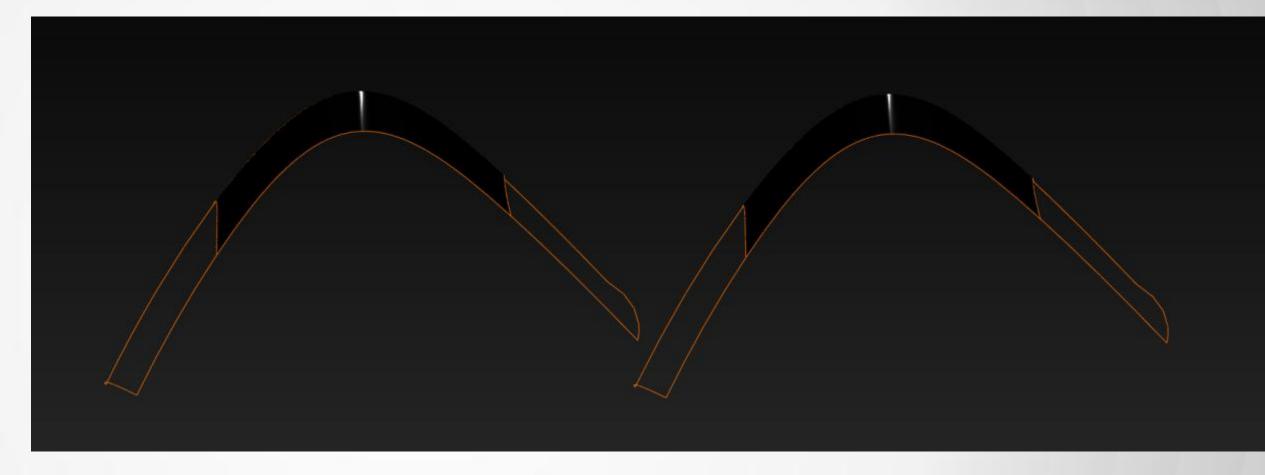


Show two freeform surfaces Intersect them Analyse the intersection

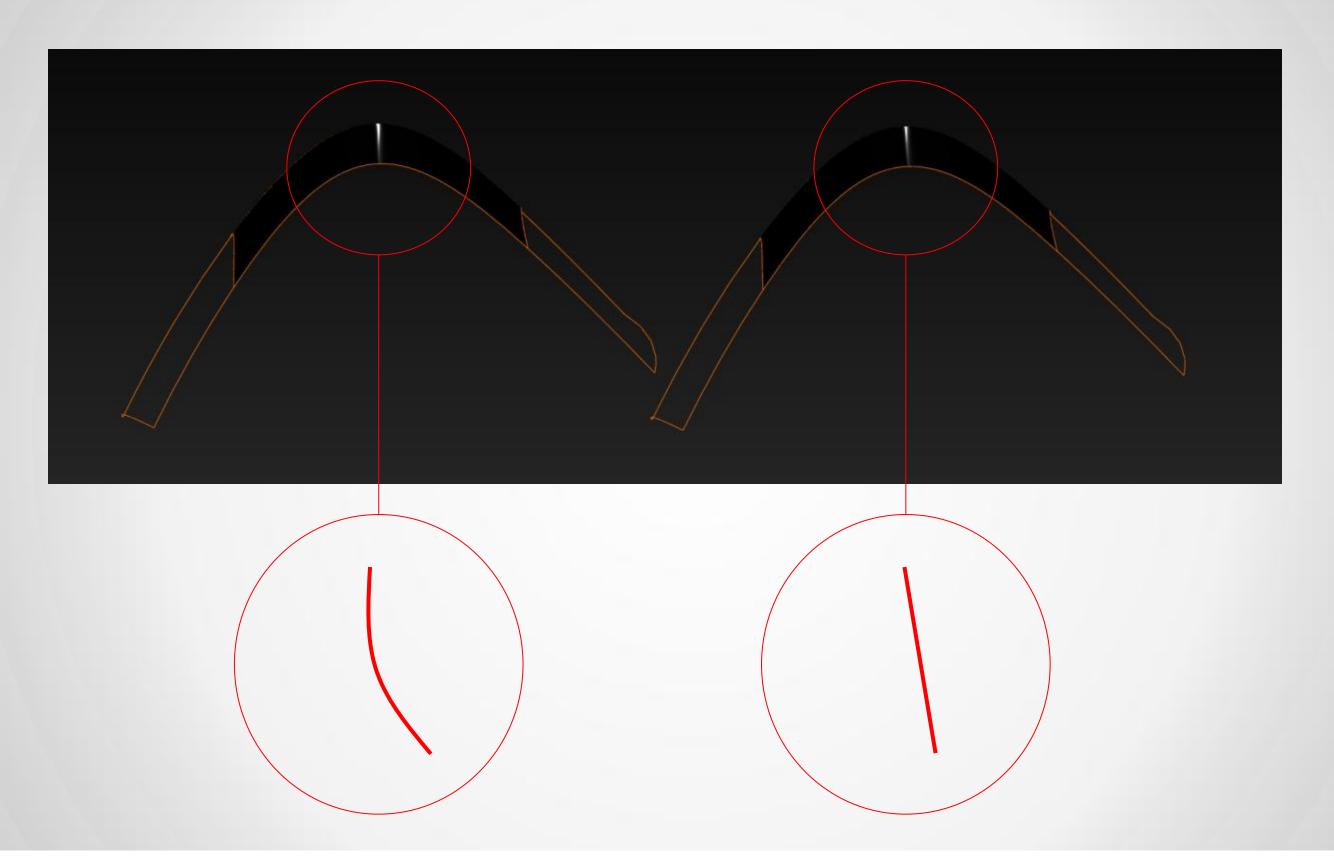


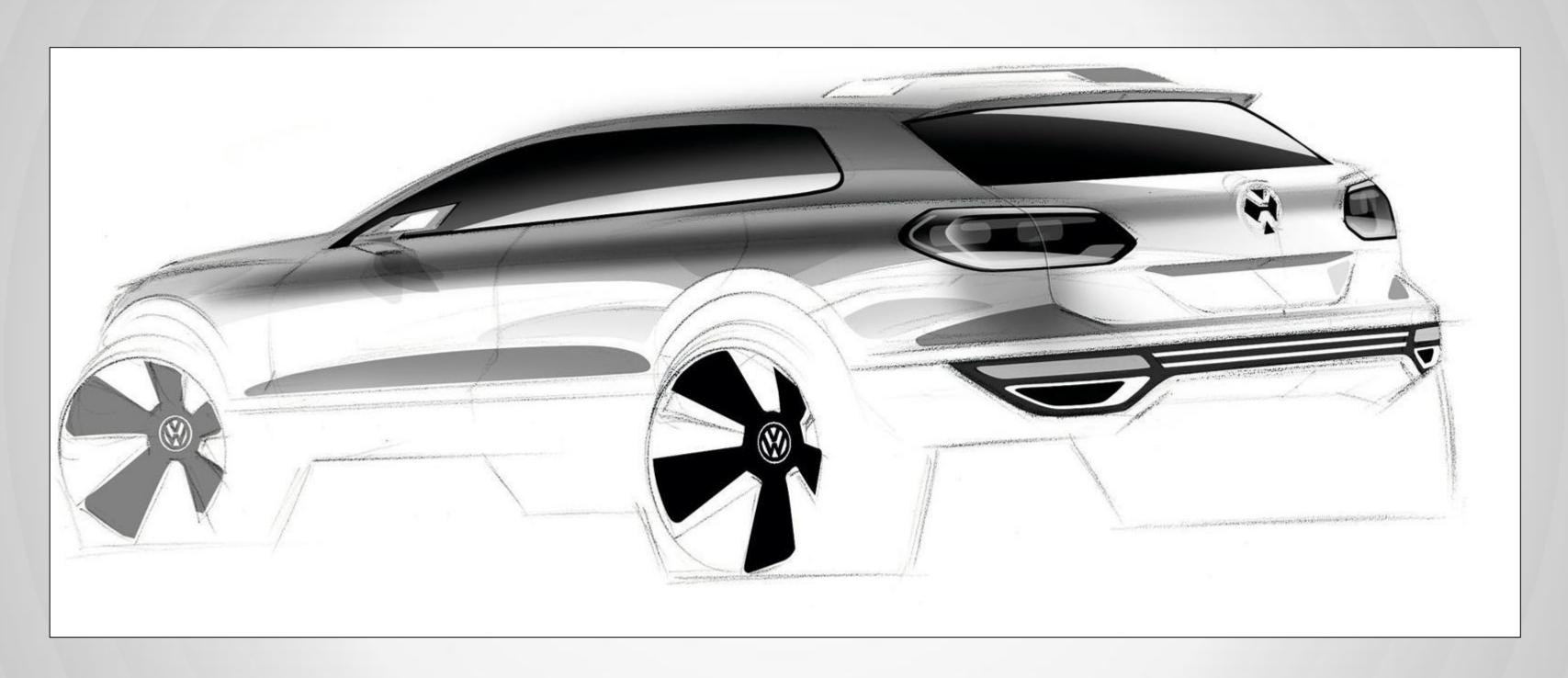


Why is it bad? Make a fillet!











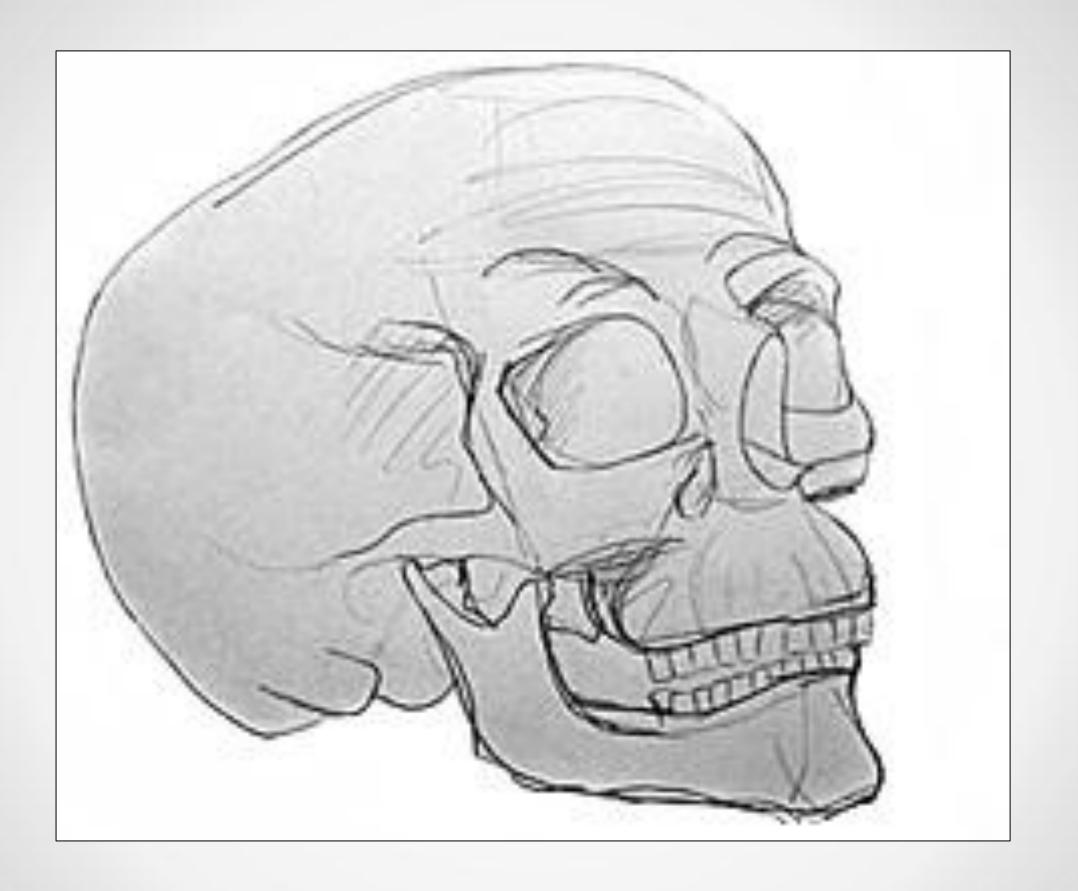




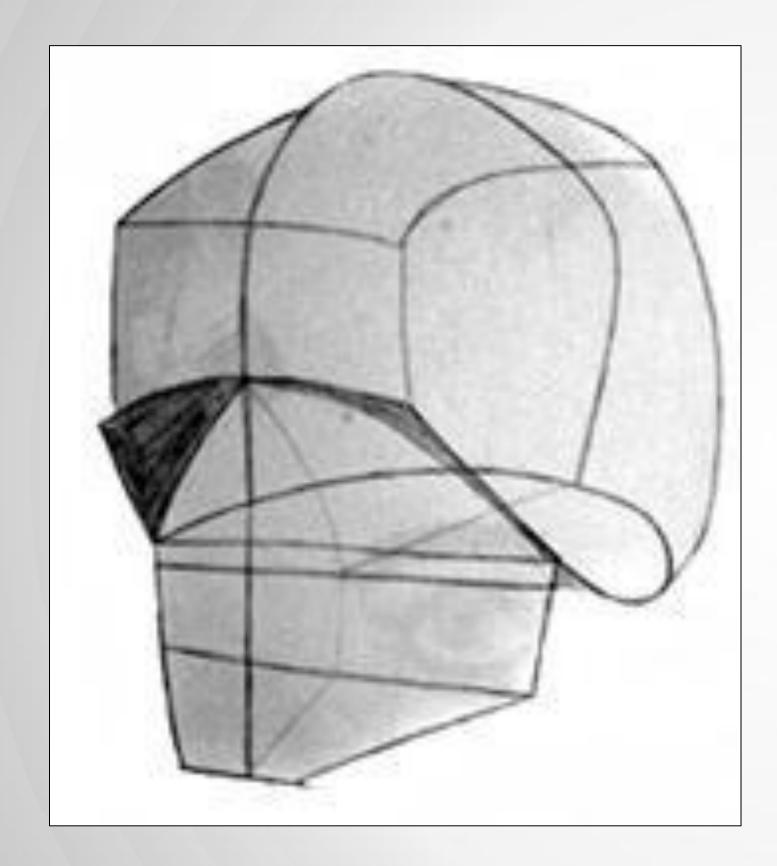


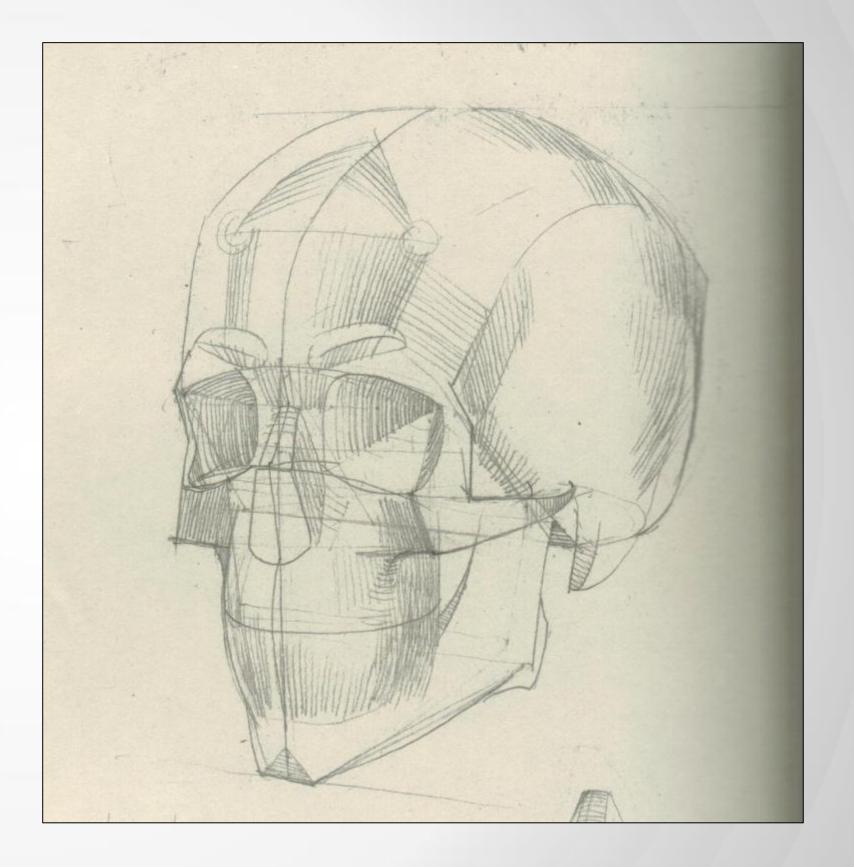




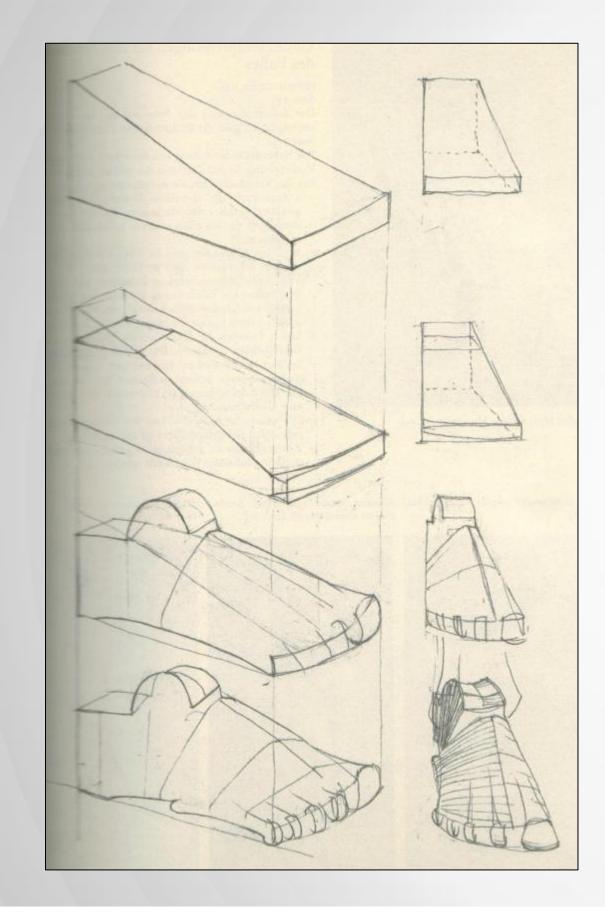


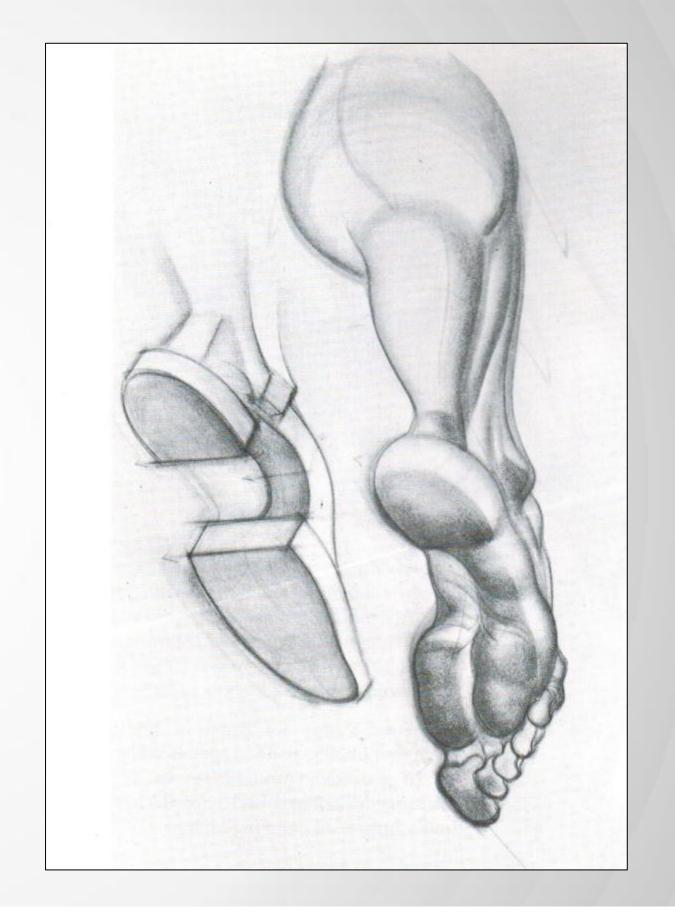














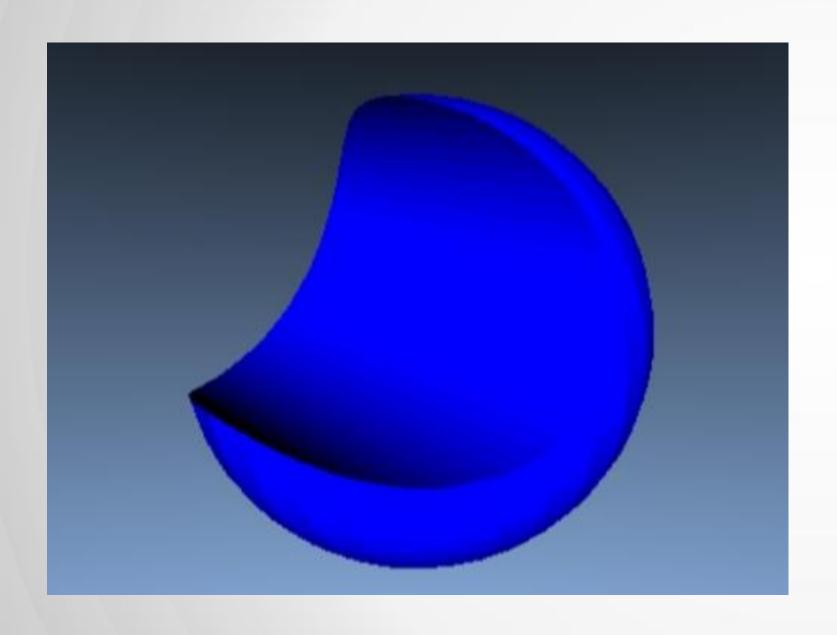


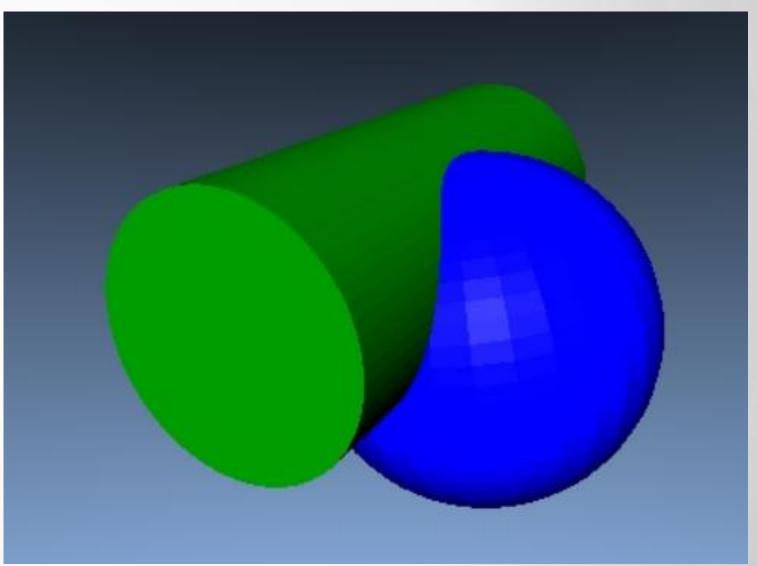






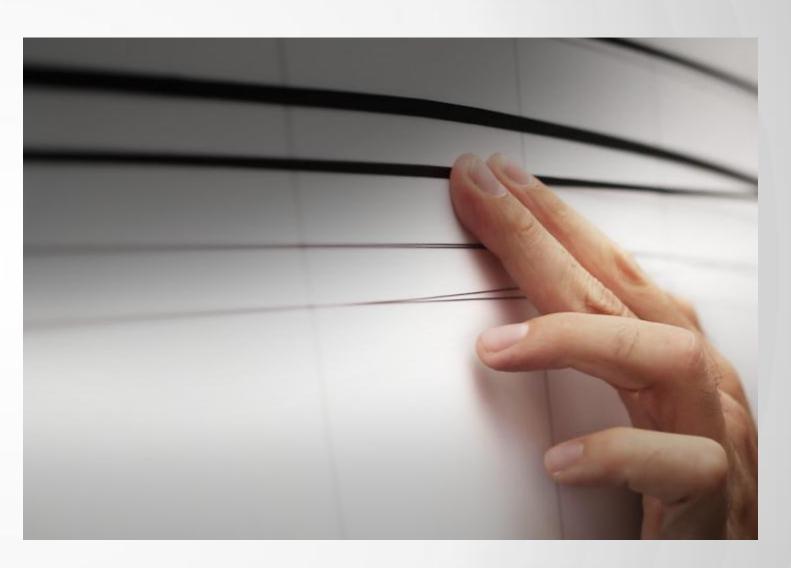
Lines appear as intersection of surfaces!





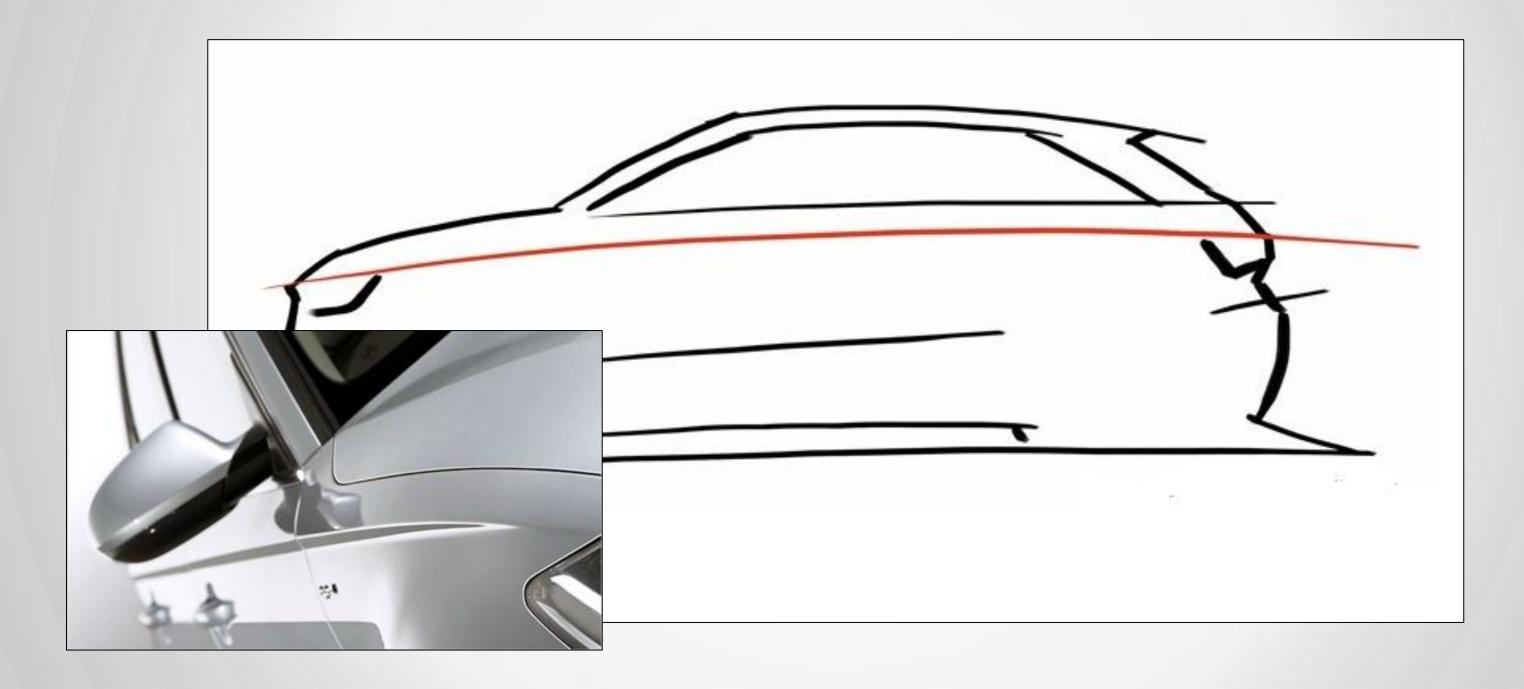
tightness of lines





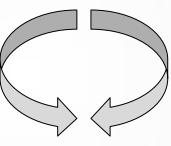


Tornado Line

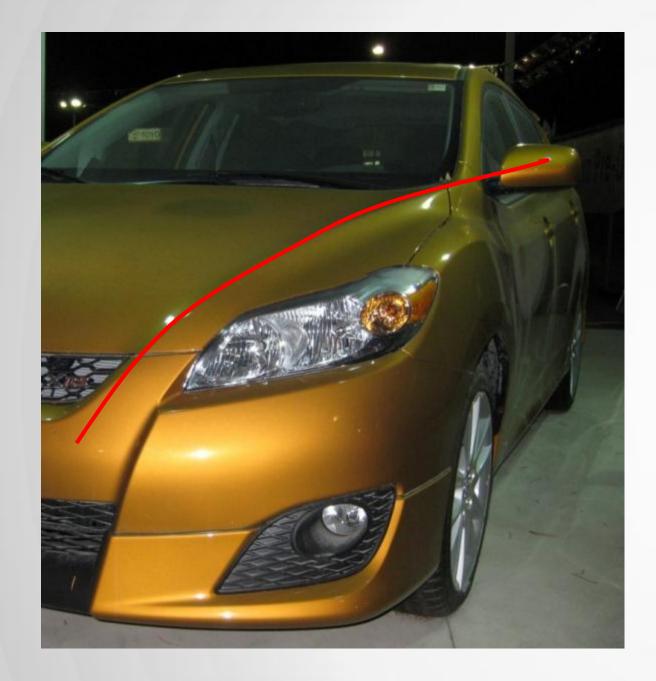


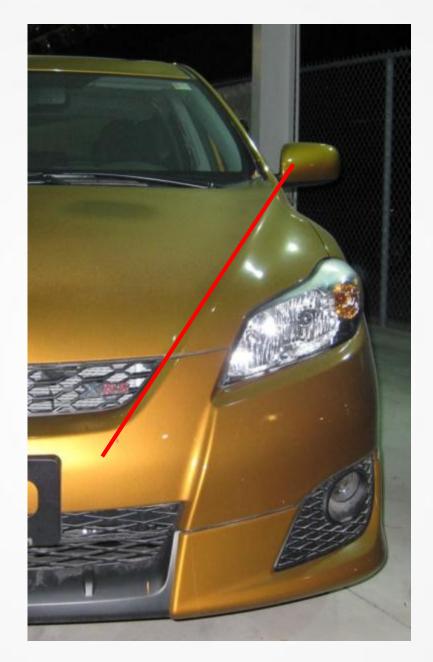


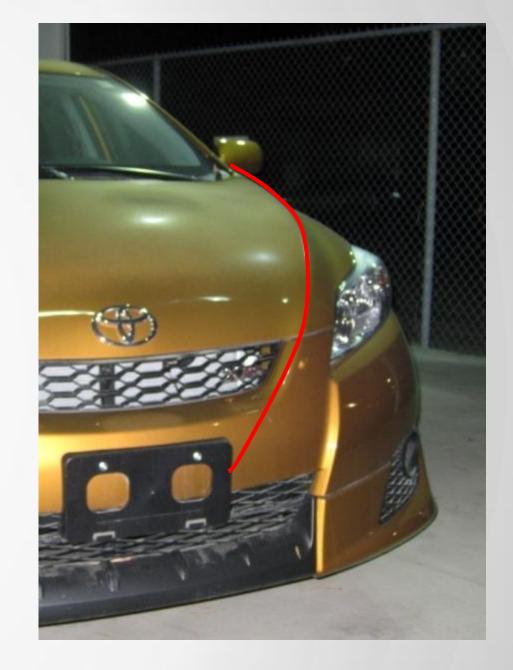


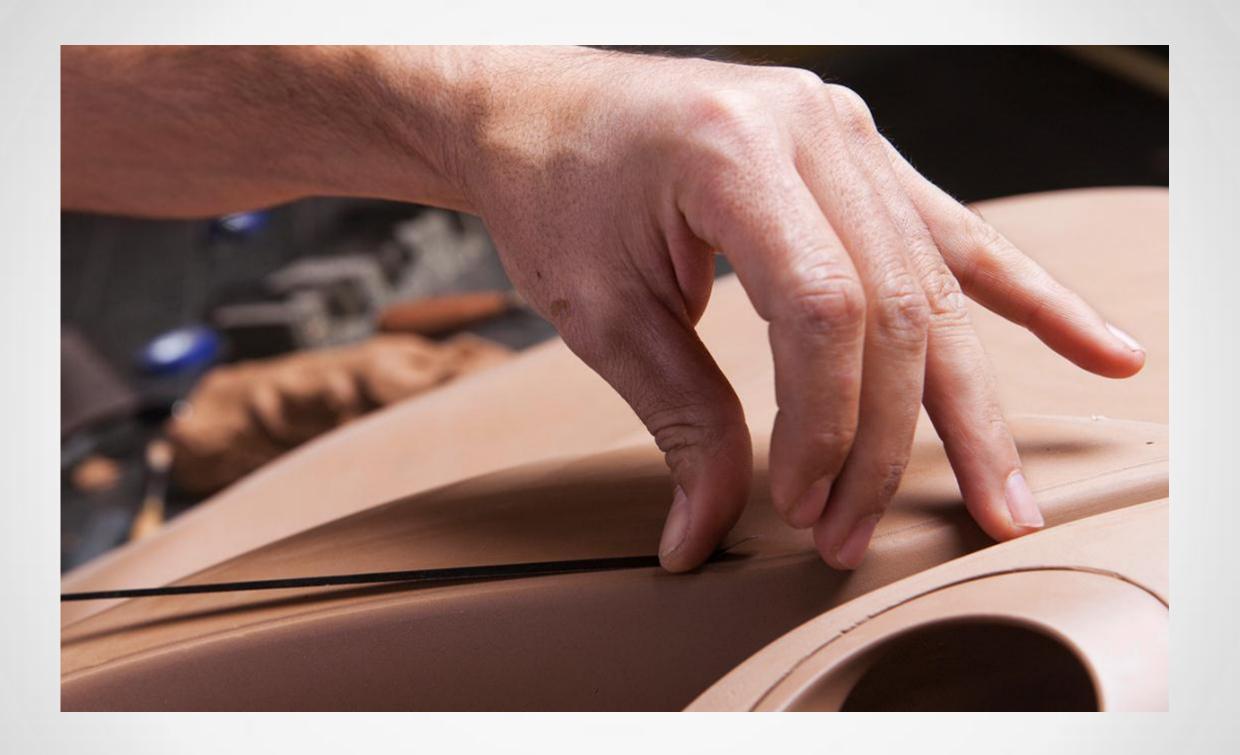












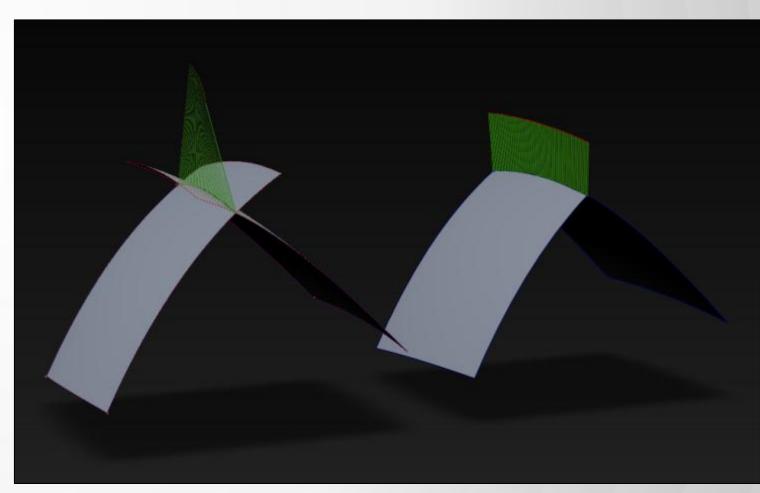


First 3d model Surfaces smoothing the recalculated after Idea based on with lines appearing as lines lines the modified intersections lines



Smooth the intersection Recalculate the freefrom surfaces

Show again a fillet!



Model the invisible edge!

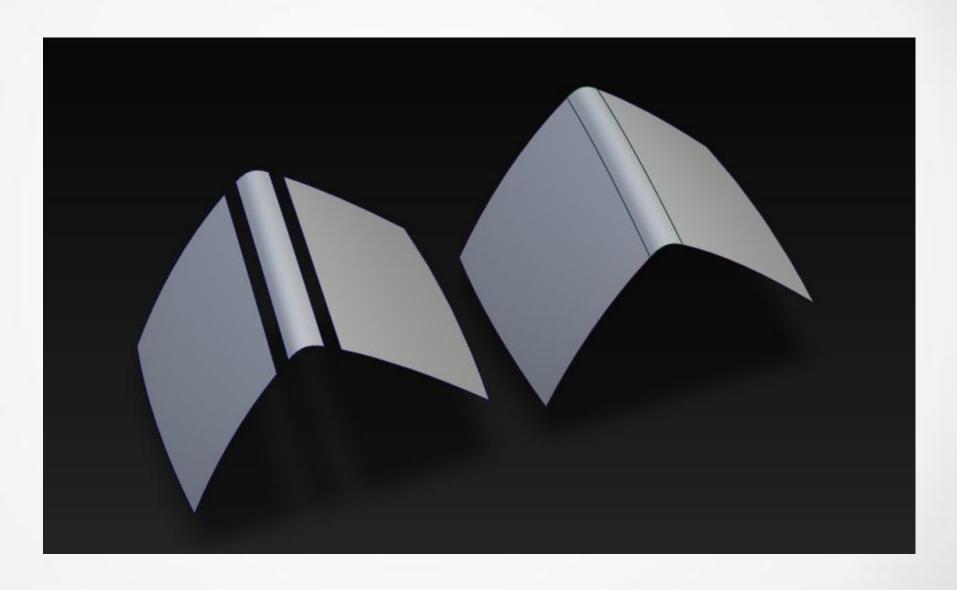
Theoretical Modeling





1. Radius that is too short

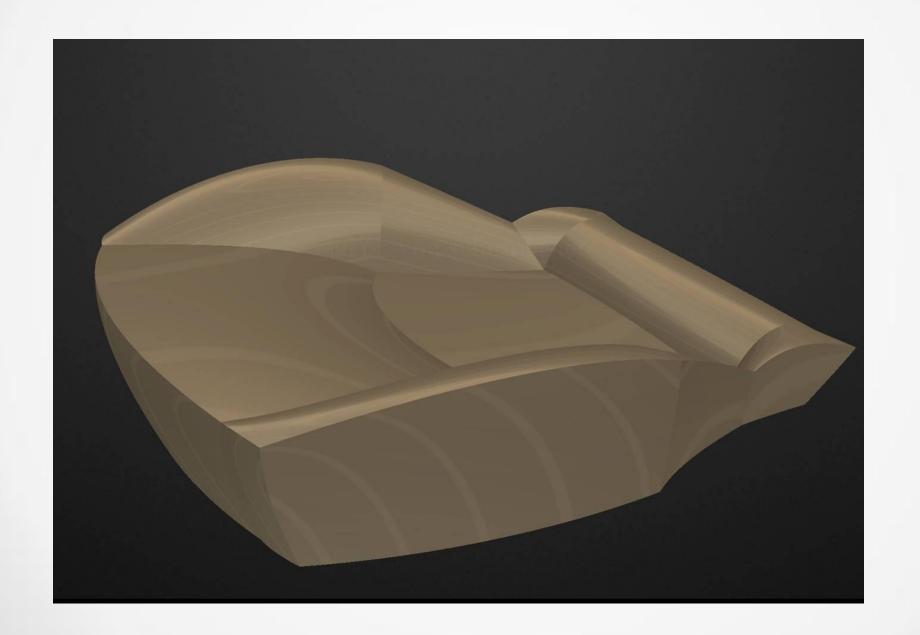
Try to do a smaller fillet!



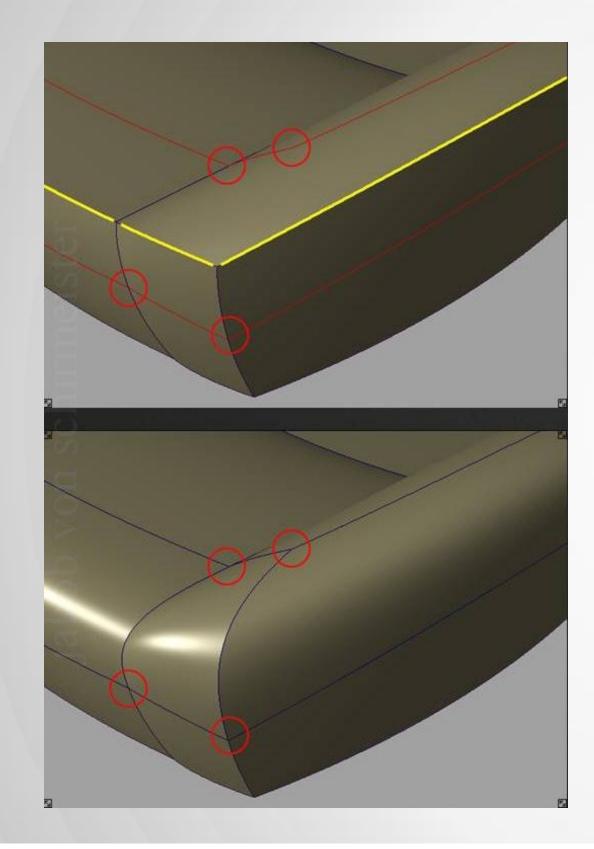


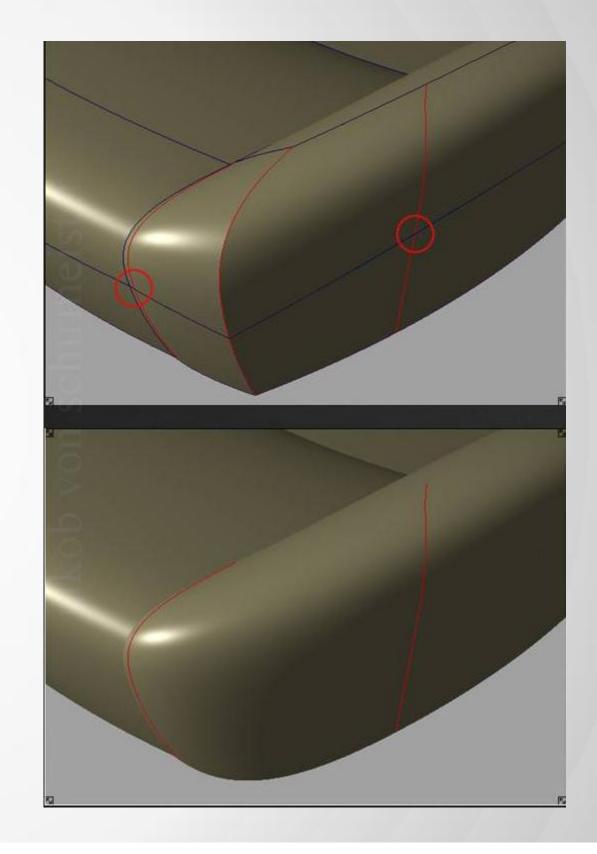


2. closing of corners





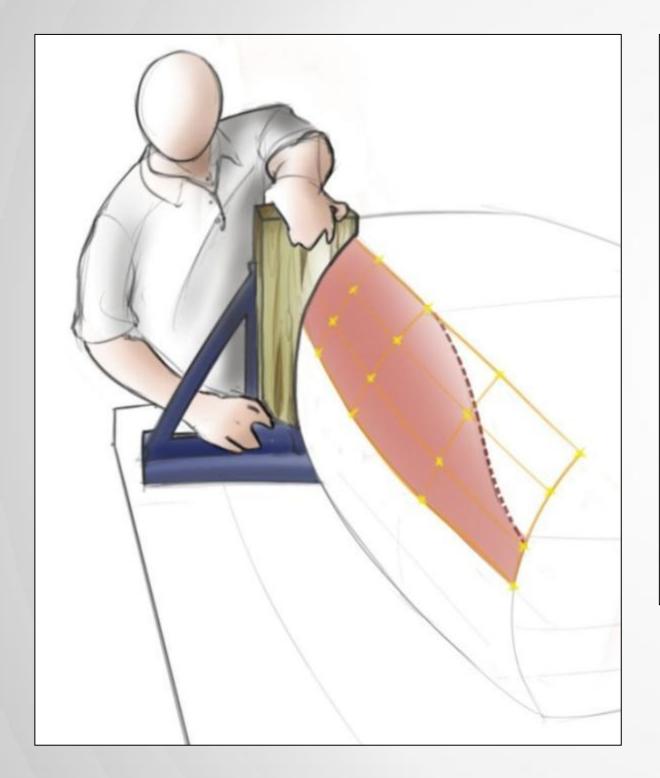


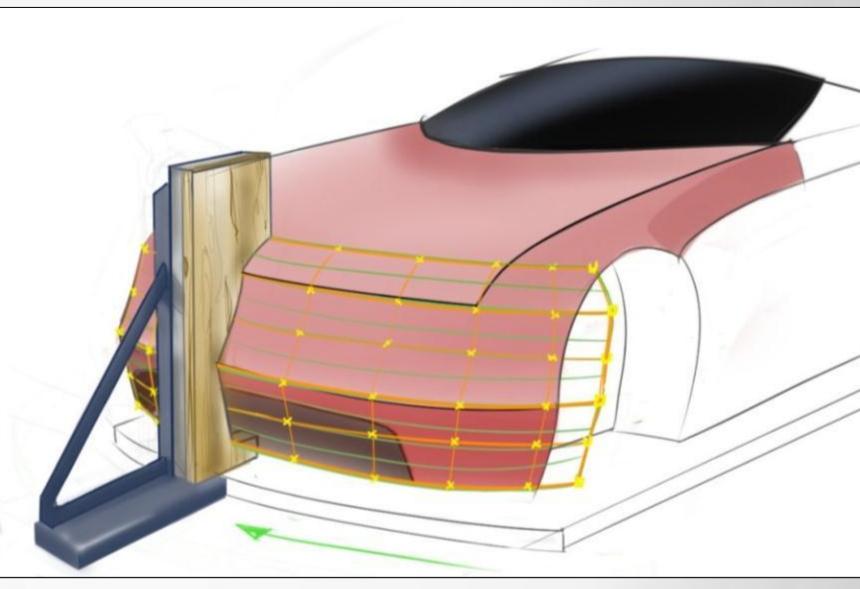






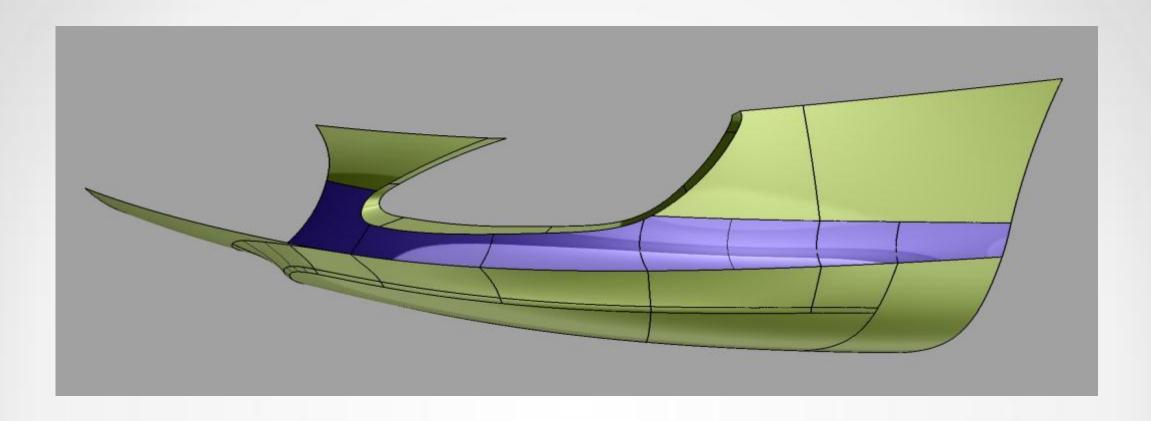
Handcraftmanship

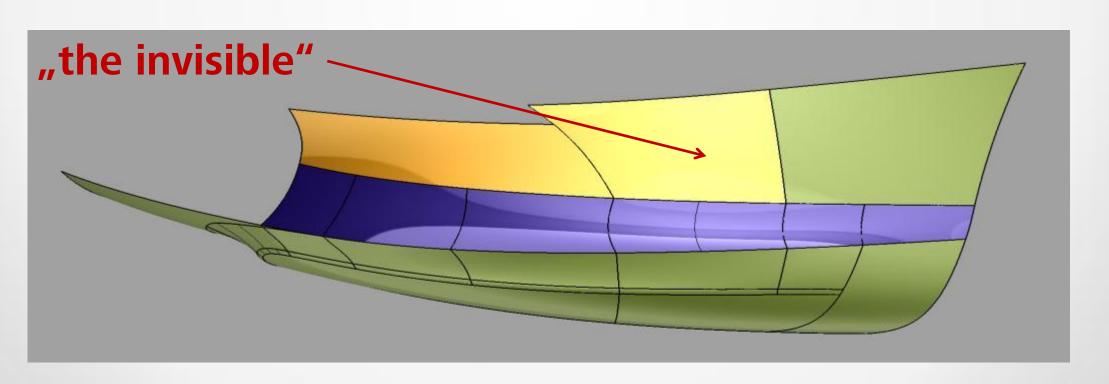




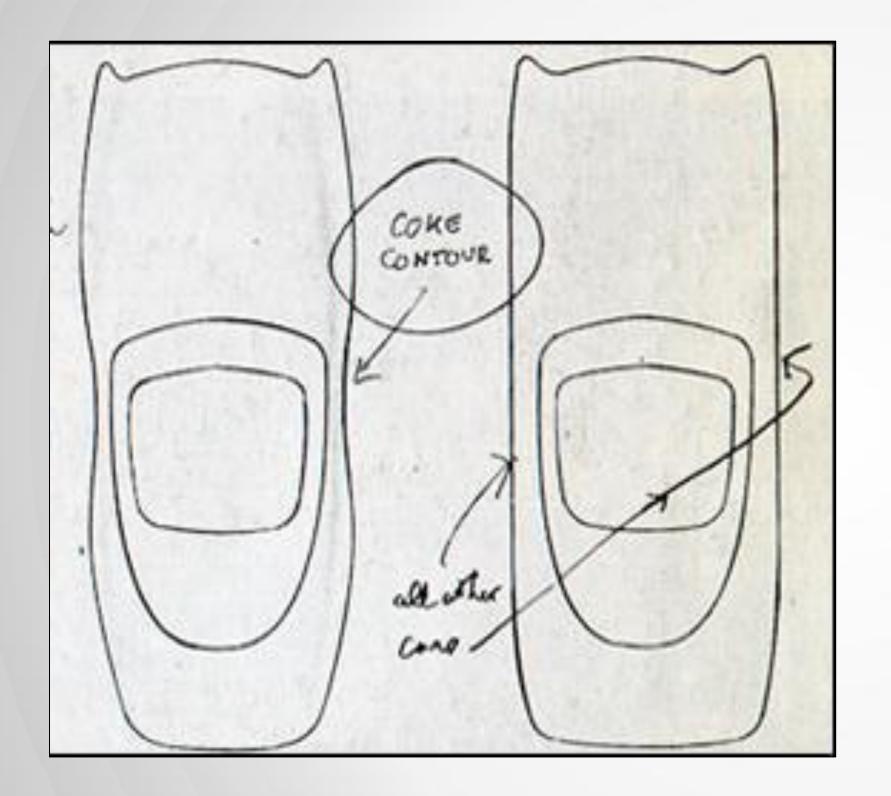


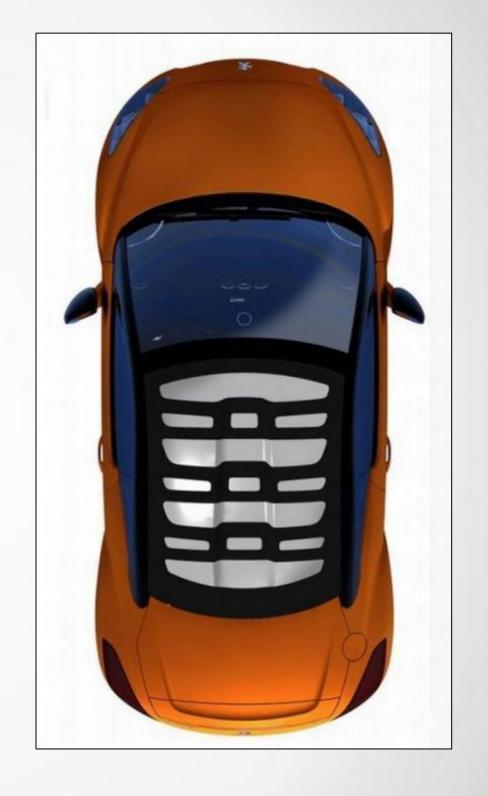
Holding different "areas" together



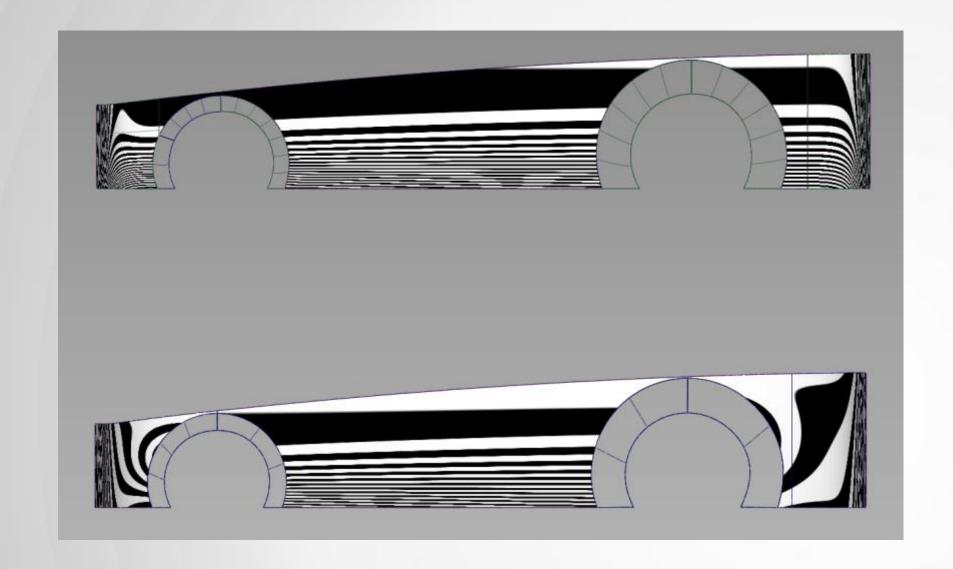


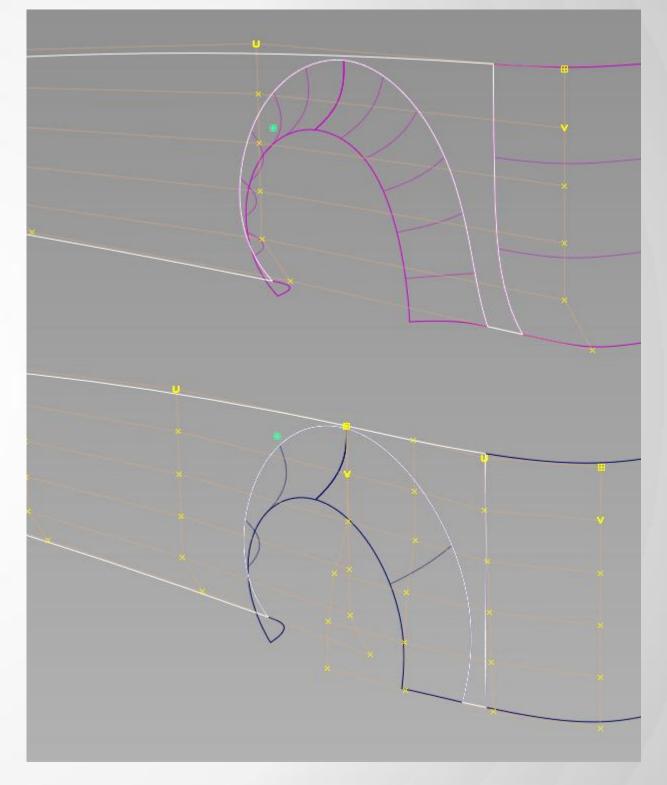
Approach shapes

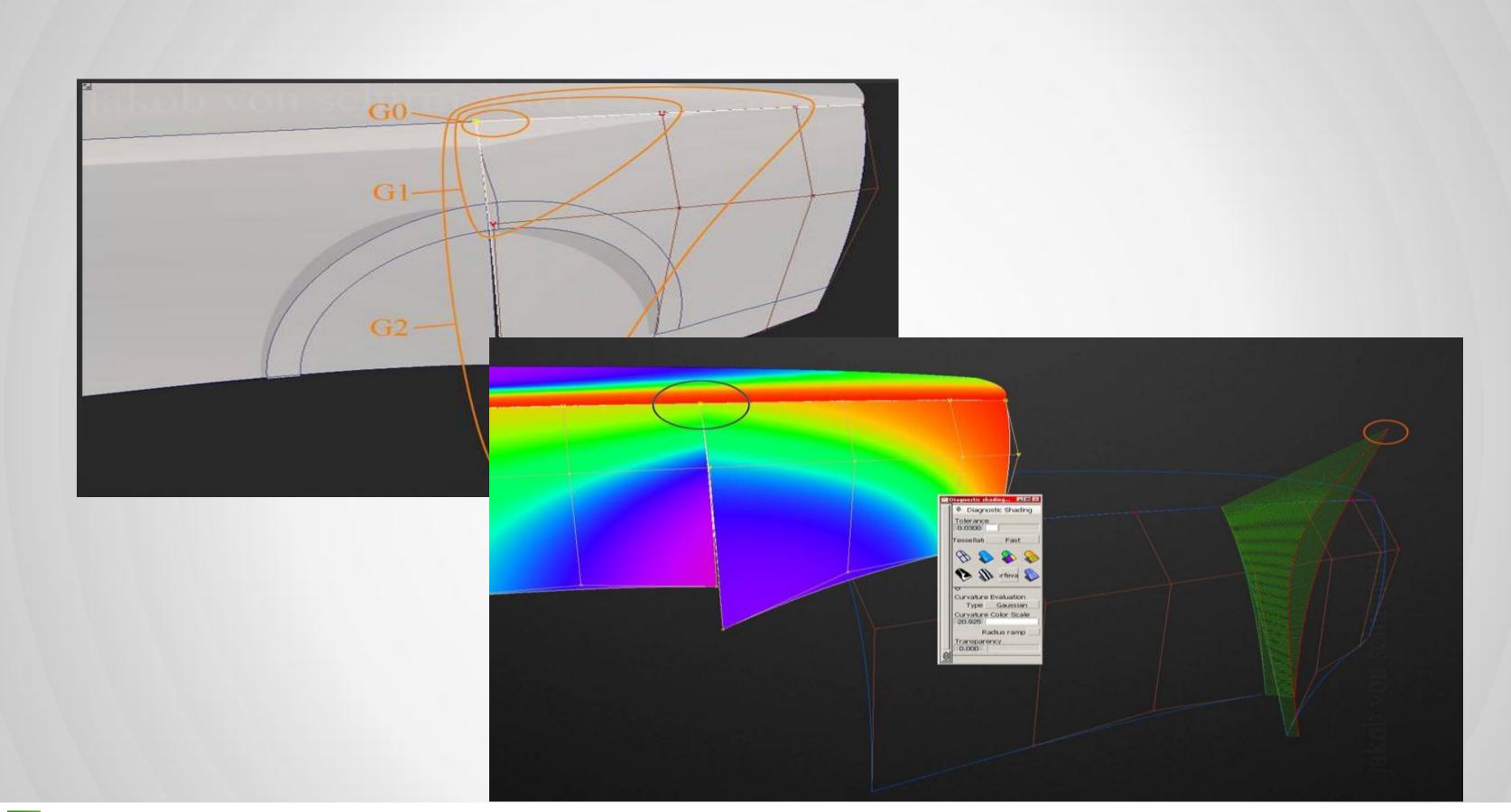




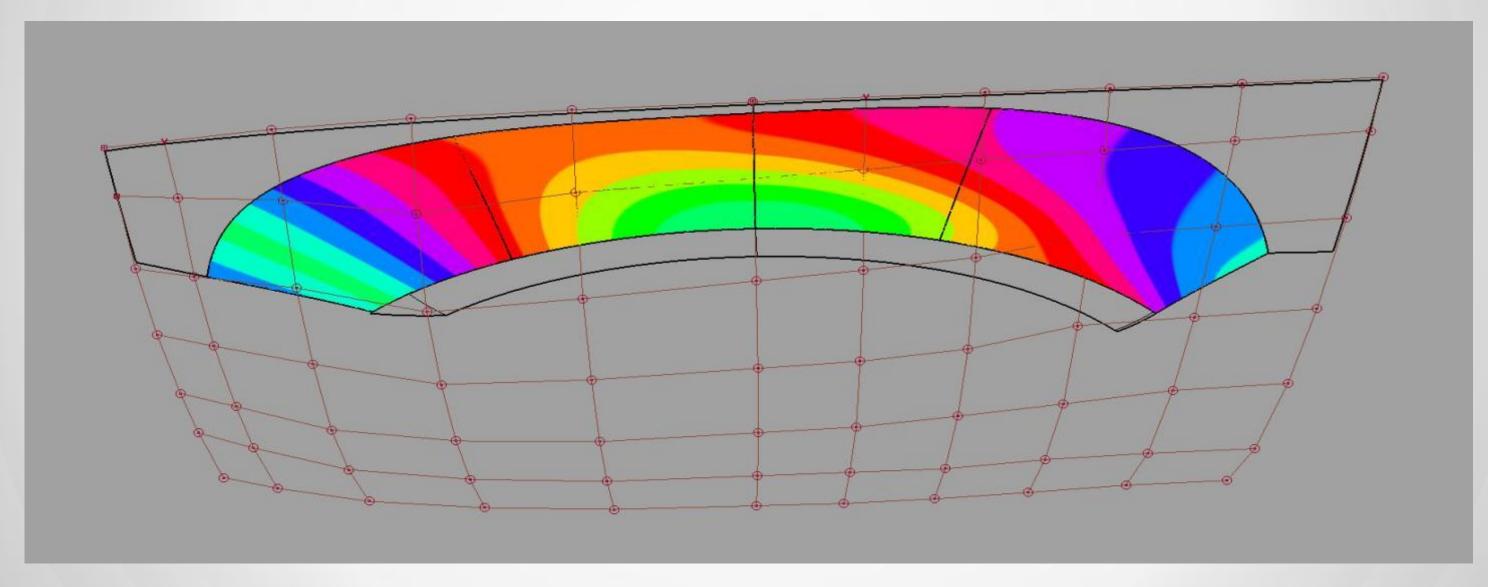
Highlight shaping













Key learning objectives

- Software is just another tool
- Designers draw lines while sculptors sculpt surfaces
- Lines appear as intersections of surfaces
- Theoretical edges define quality of any kind of blend
- Handcraftsmanship



