

12 Additional Results

In this section we show additional result images. The images are explained in the captions.

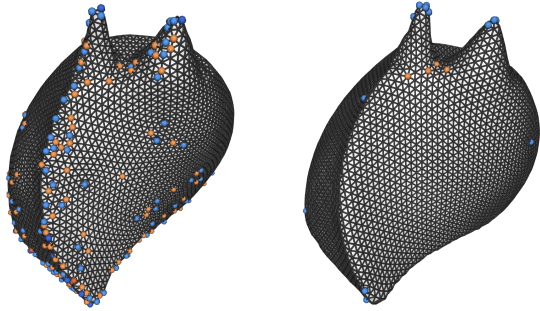


Figure 17: *Left: input model of 10 v4, 133 v5 vertices, 132 v7 and 3 v8 vertices. Right: final model of 18 v5 vertices and 6 v7 vertices.*

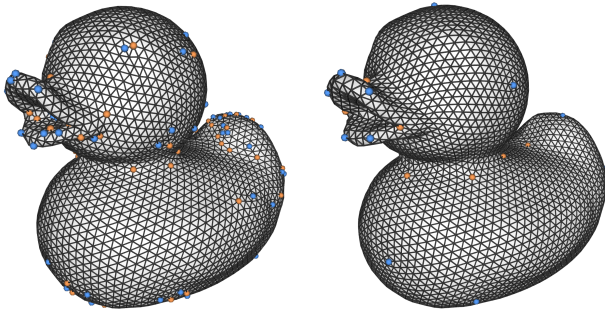


Figure 20: *Left: A duck model with 86 irregular vertices with valence 5 and 74 irregular vertices with valence 7. Right: Our editing system allows the reduction of the irregular vertices to 22 vertices with valence 5 and 10 vertices with valence 7.*



Figure 21: *An alternative pattern for the Souzaou model.*



Figure 22: *A spaceship model with a zebra pattern.*

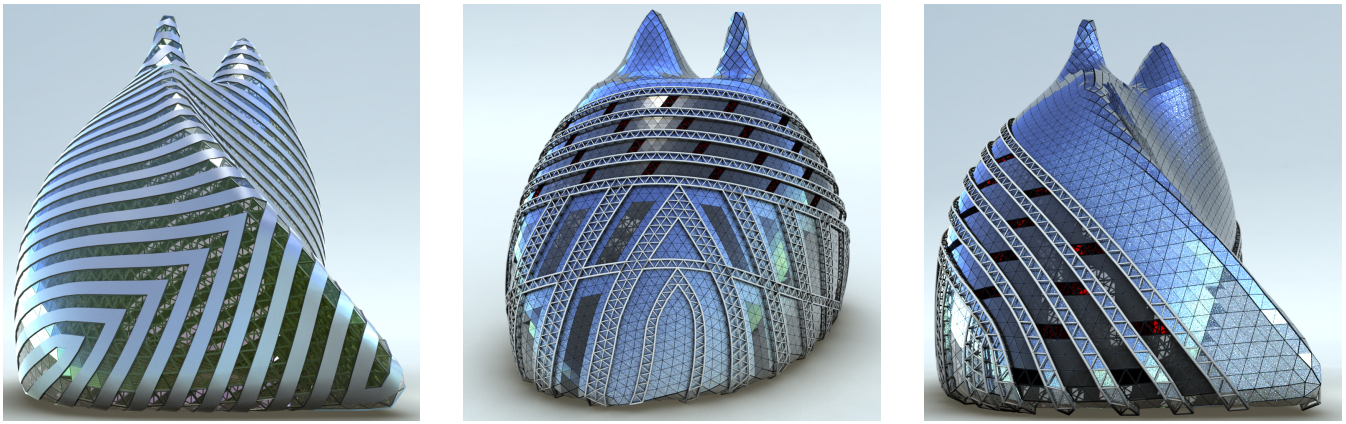


Figure 16: Architecture with different designs: A zebra pattern (left), the front view of a shopping mall design (middle), and the side view of the shopping mall design (right). All designs have in common that the designer first reduced the singularities to a reasonable number (Fig. 17). The first design is the zebra pattern composed with equal-spaced strips (See Fig. 16 left). The second is the pattern of weaving panels (See Fig. 16 middle and right).

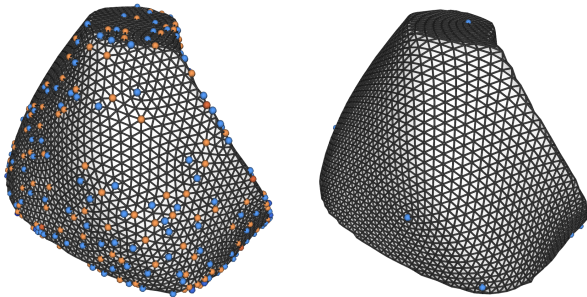


Figure 23: Left: input model of 142 v5 vertices and 132 v7 vertices. Right: final model of 16 v5 vertices and 4 v7 vertices.

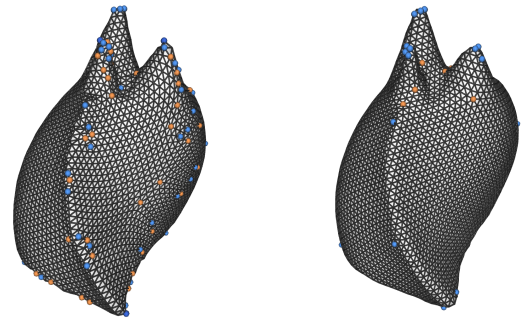


Figure 25: Left: input model of 3 v4, 90 v5 vertices and 84 v7 vertices. Right: final model of 21 v5 vertices and 9 v7 vertices.

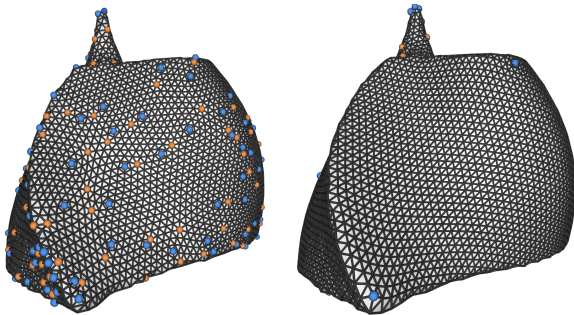


Figure 24: Left: input model of 2 v4, 140 v5 vertices and 132 v7 vertices. Right: final model of 16 v5 vertices and 4 v7 vertices.

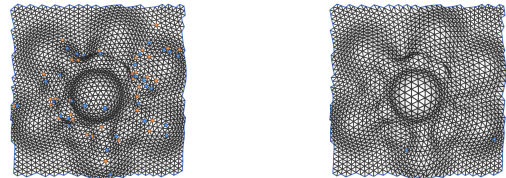


Figure 26: Left: input model of 3 v4, 30 v5 vertices and 34 v7 vertices. Right: final model of 2 v5 vertices.

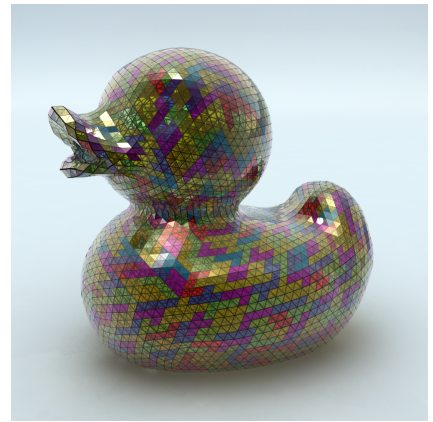
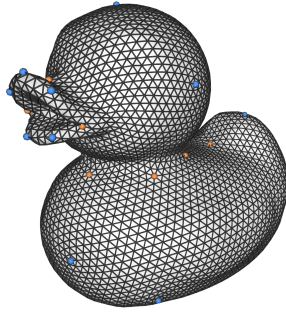
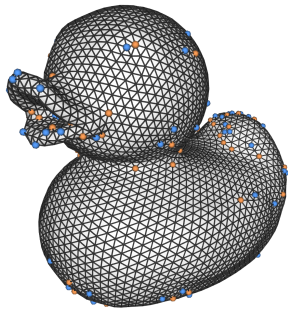


Figure 18: *Left: A duck model with 86 irregular vertices with valence 5 and 74 irregular vertices with valence 7. Middle Left: The duck was edited to reduce the irregular vertices to 22 vertices with valence 5 and 10 vertices with valence 7. Middle Right: A Tetris like pattern is applied to the edited duck mesh. Right: A triangle pattern is applied to the edited duck mesh. The Tetris blocks and the triangle building blocks are placed in such a way that no building block is allowed to contain an irregular vertex.*

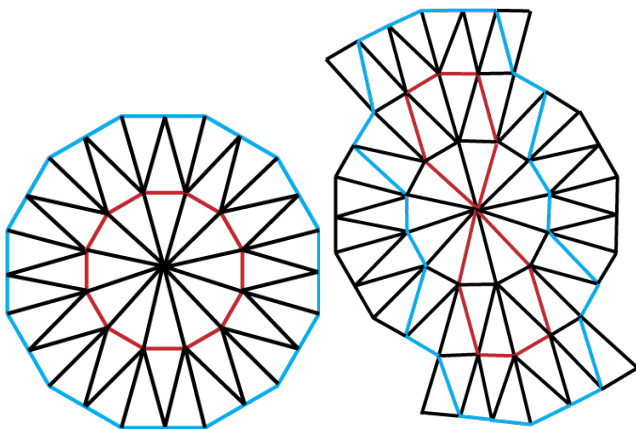


Figure 27: *Moving a v12 vertex.*

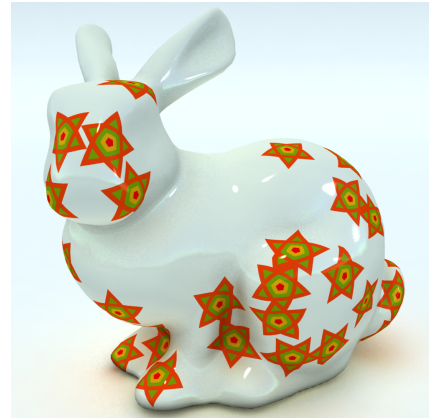
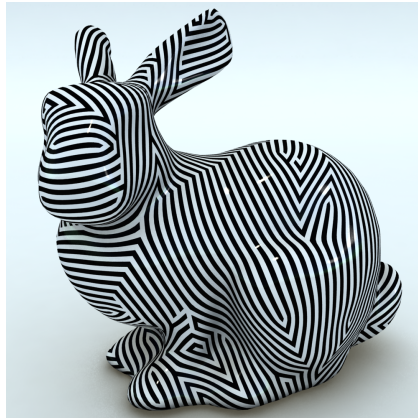
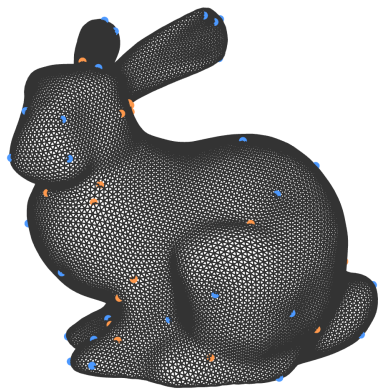


Figure 19: *Bunny with different designs : A zebra pattern and a star pattern.*