UNIVERSITAT POLITÈCNICA DE CATALUNYA
BARCELONATECH

Visual Programming: Automation Without Code

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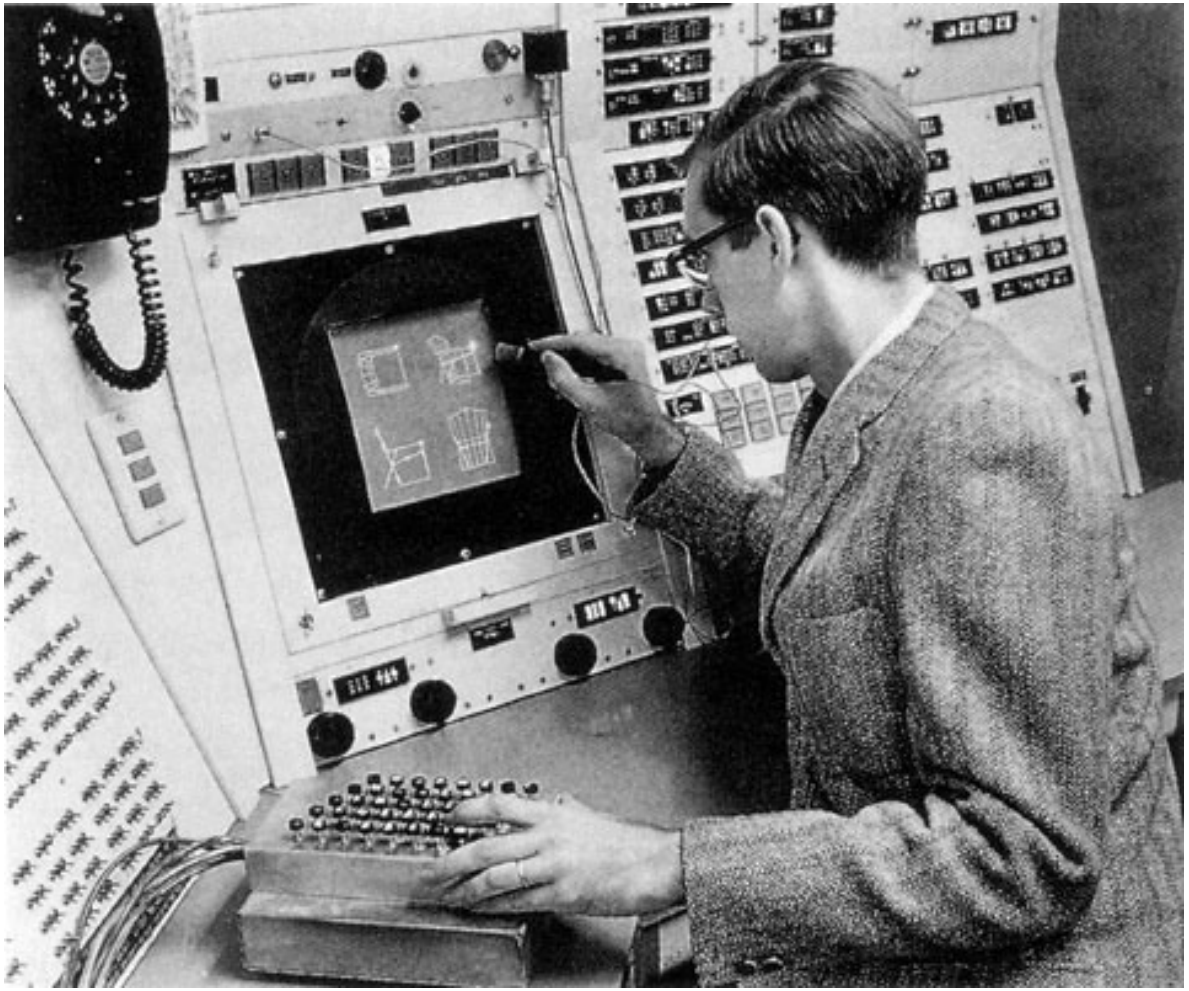
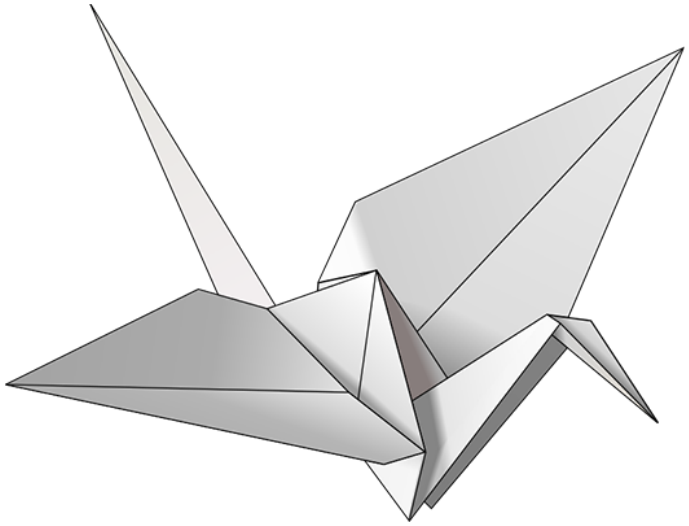
Master of Science in Computational Mechanics

COSTCO

We Need Computers!



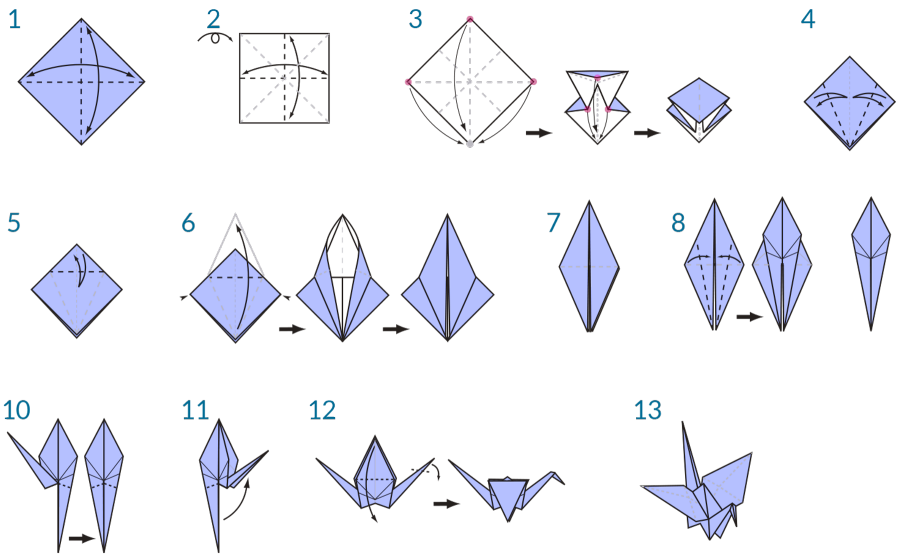
What is Visual Programming?



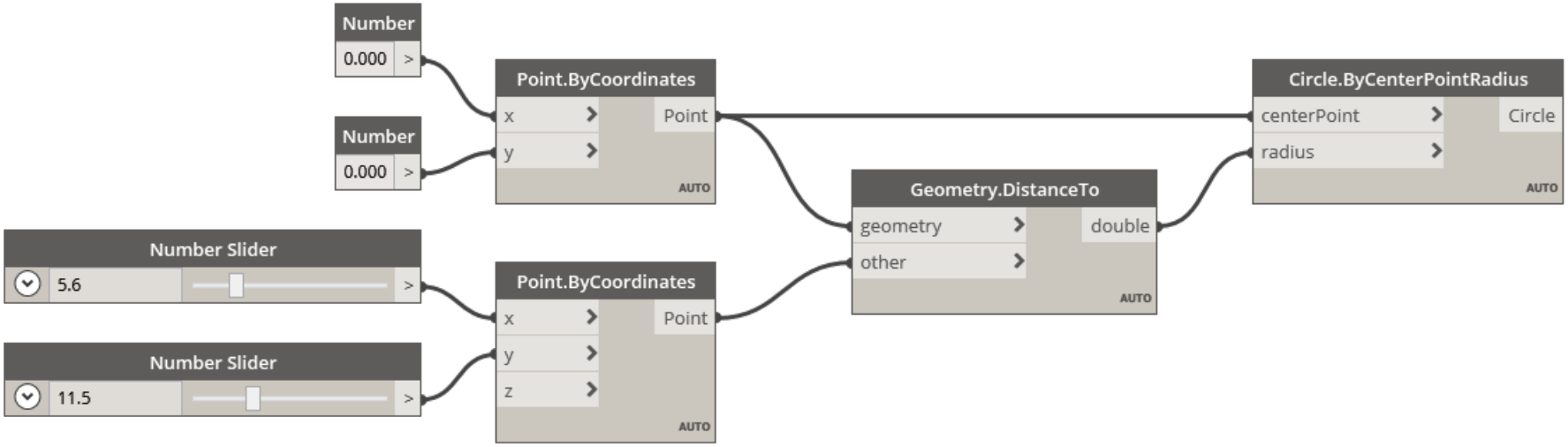
Code Algorithm vs Visual Algorithm

Textual Instructions:

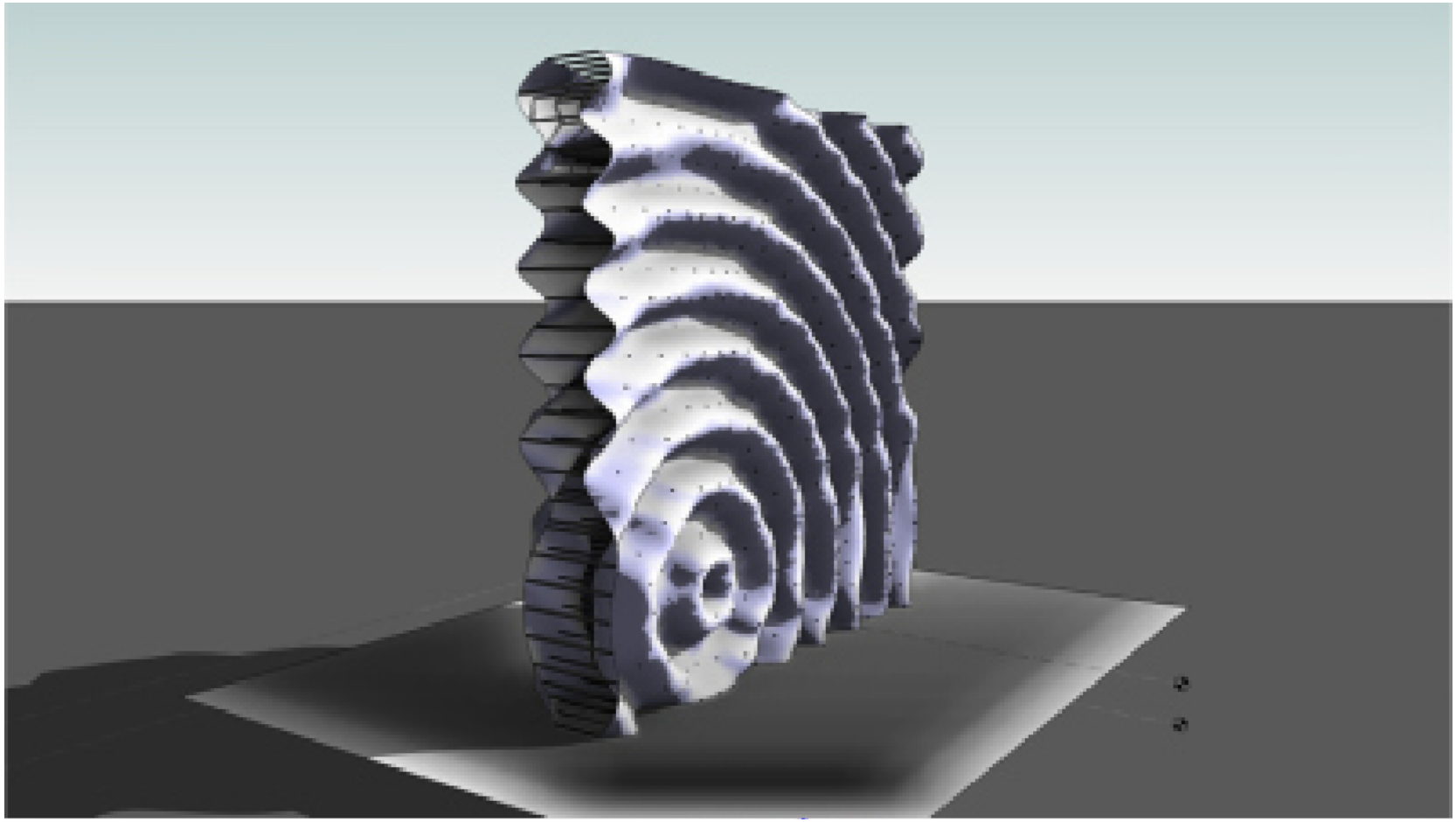
1. Start with a square piece of paper, colored side up. Fold in half and open. Then fold in half the other way.
2. Turn the paper over to the white side. Fold the paper in half, crease well and open, and then fold again in the other direction.
3. Using the creases you have made, Bring the top 3 corners of the model down to the bottom corner. Flatten model.
4. Fold top triangular flaps into the center and unfold.
5. Fold top of model downwards, crease well and unfold.
6. Open the uppermost flap of the model, bringing it upwards and pressing the sides of the model inwards at the same time. Flatten down, creasing well.
7. Turn model over and repeat Steps 4-6 on the other side.
8. Fold top flaps into the center.
9. Repeat on other side.
10. Fold both 'legs' of model up, crease very well, then unfold.
11. Inside Reverse Fold the "legs" along the creases you just made.
12. Inside Reverse Fold one side to make a head, then fold down the wings.
13. You now have a crane.



Visual Programming Structure



Visual Programming Applications



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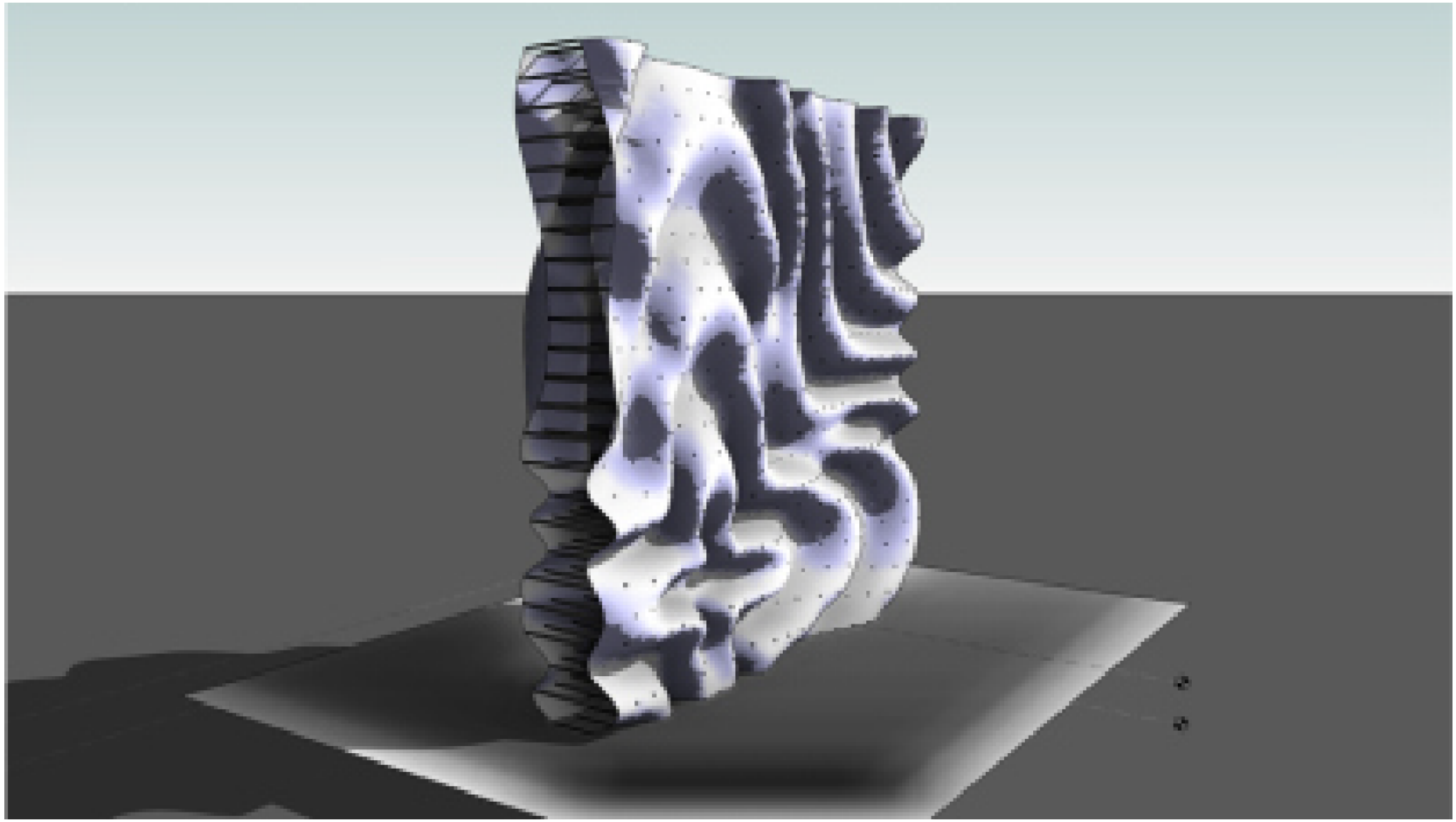
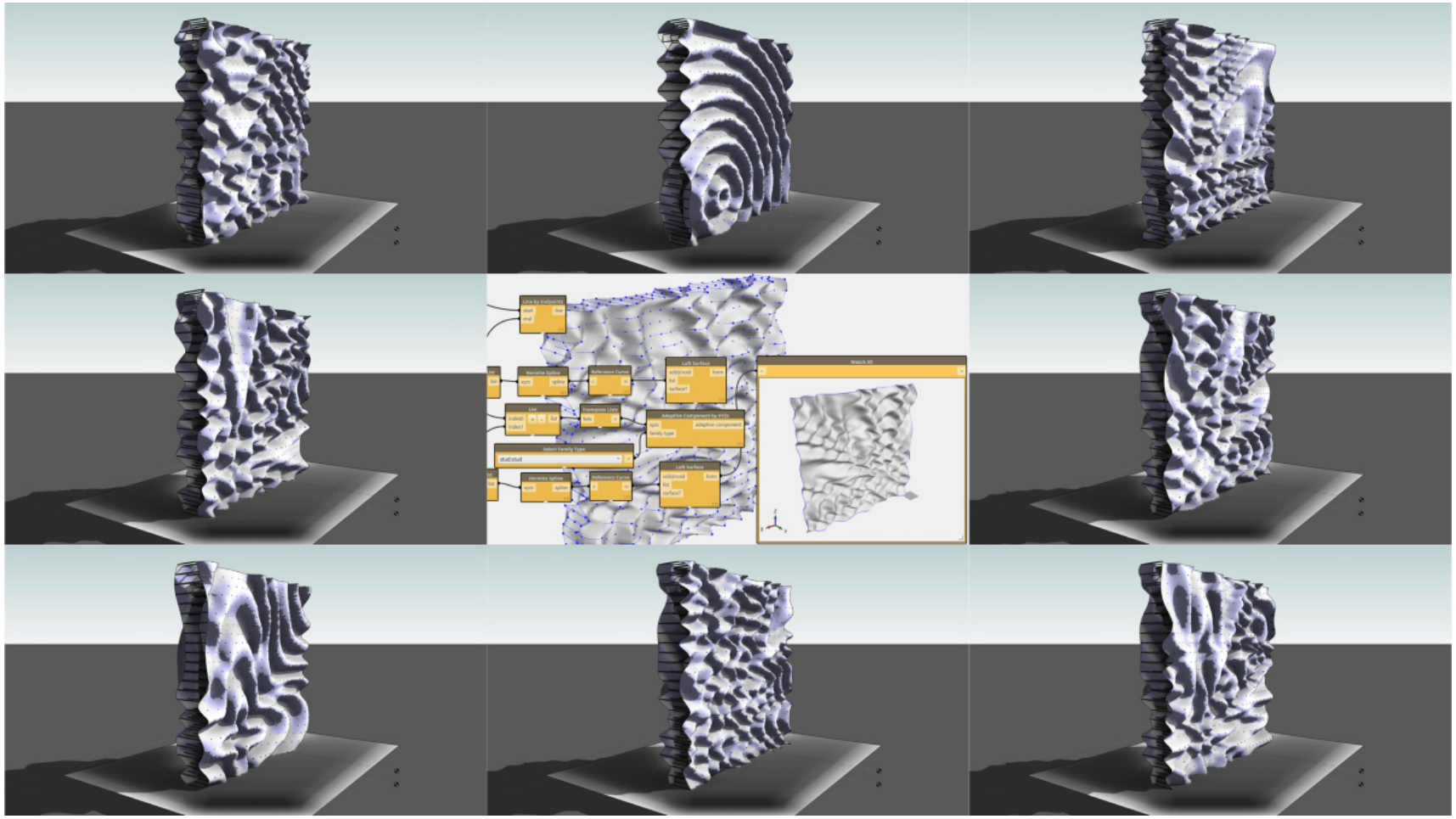


Visual Programming Applications



Conclusions

VP aims to make easier the automation of a task…

Easy Coding = More People Motivated About Programming

Infinite Software Creativity