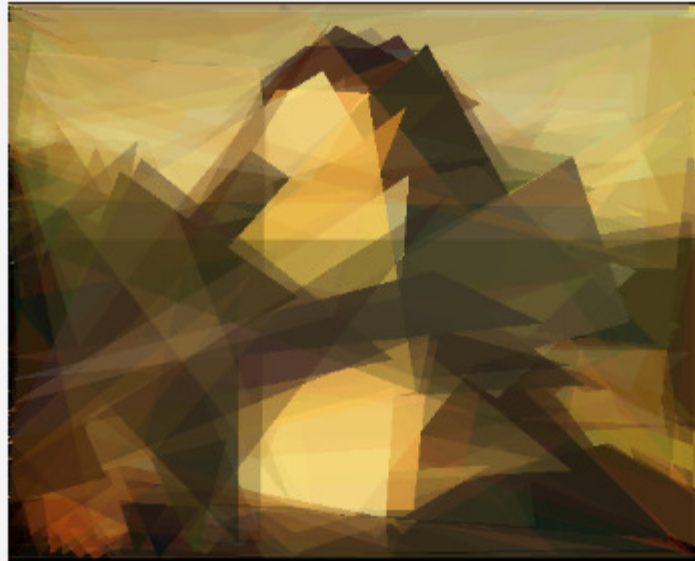


A Quick Example of Crossover and the getUnStuck method Aiding in Overcoming Local Optima Hill Climbing Gets Stuck on



This is a screen shot of where the program stalled out with hill climbing. After stalling out the getUnstuck method was called and triggered the start of hill climbing on the next most fit genome in the tribe. Thanks to the cross over the next most fit genome is very similar to the most fit one but has slight genetic differences which often allows for breaking out of the local optima (If not getUnstuck will just get triggered again).



Current Best Fitness: 94.55150943090221

This is another point in the program where the hill climbing stalled out and the same methodology was used.



Current Best Fitness: 94.70666991031317

And by using that methodology we were able to break out of the local optima and continue upwards in fitness.