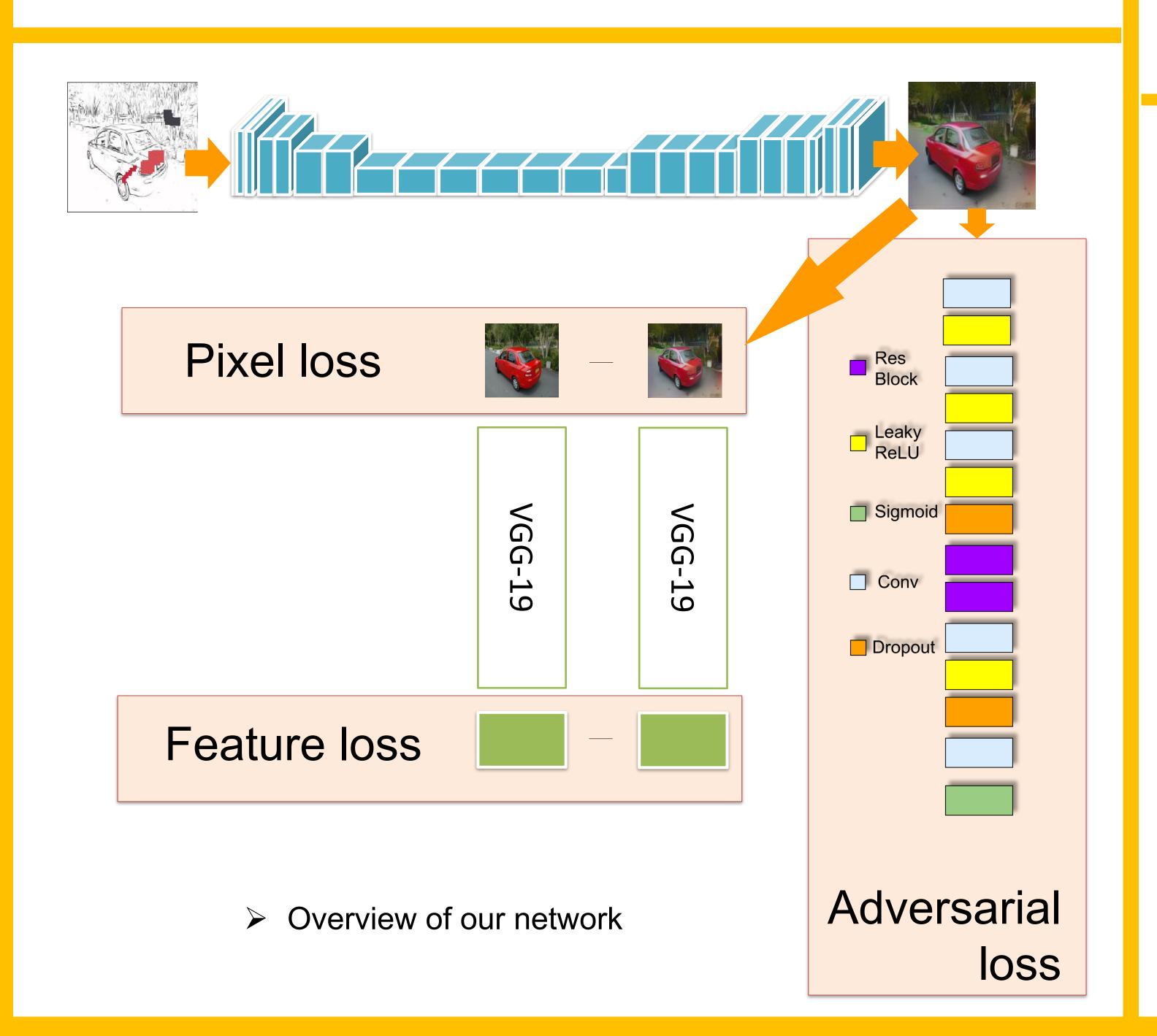
### Scribbler: Controlling Deep Image Synthesis with Sketch and Color

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# **IEEE 2017 Conference on Computer Vision and Pattern** Recognition

#### Overview:

> We propose a deep adversarial image synthesis architecture that is conditioned on sketched boundaries and sparse color strokes to generate realistic cars, bedrooms, or faces. We demonstrate a sketch based image synthesis system which allows users to 'scribble' over the sketch to indicate preferred color for objects. Our network can then generate convincing images that satisfy both the color and the sketch constraints of user.

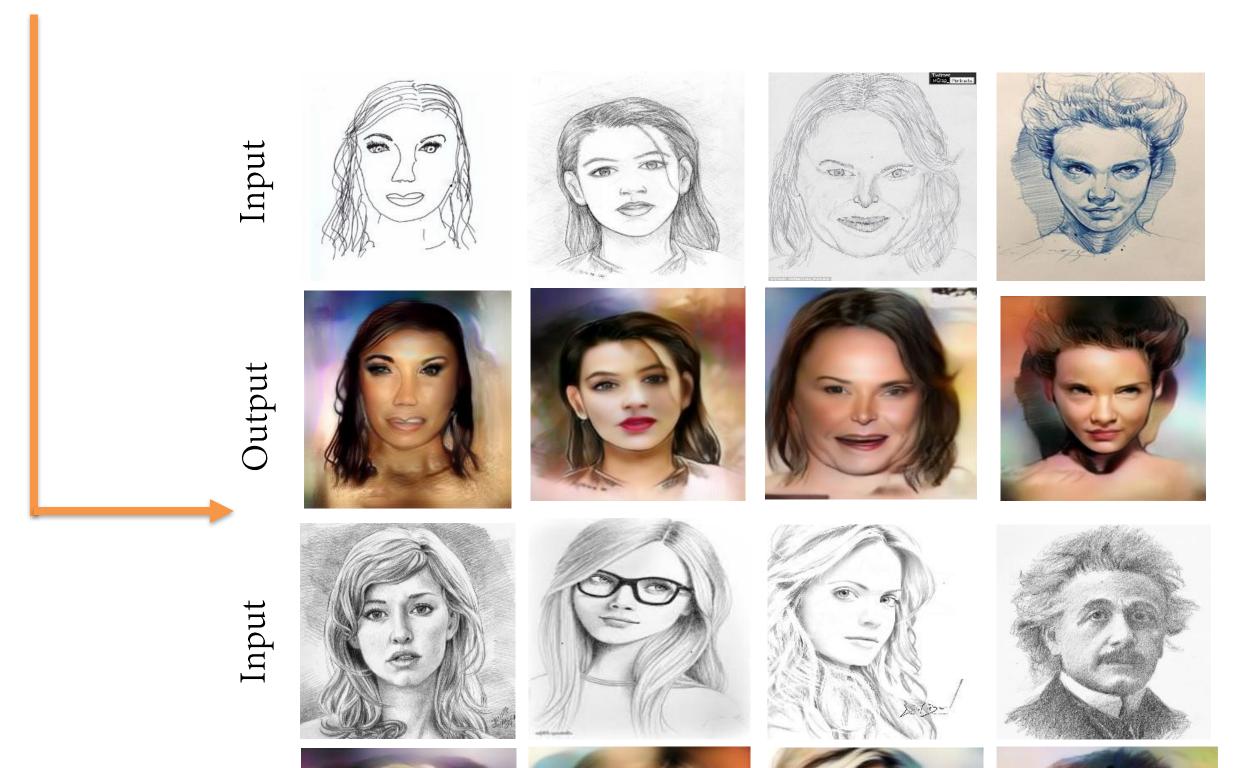


# Controlling with sketch: Sketch based Image editing



- Random cropping
- More sketch styles





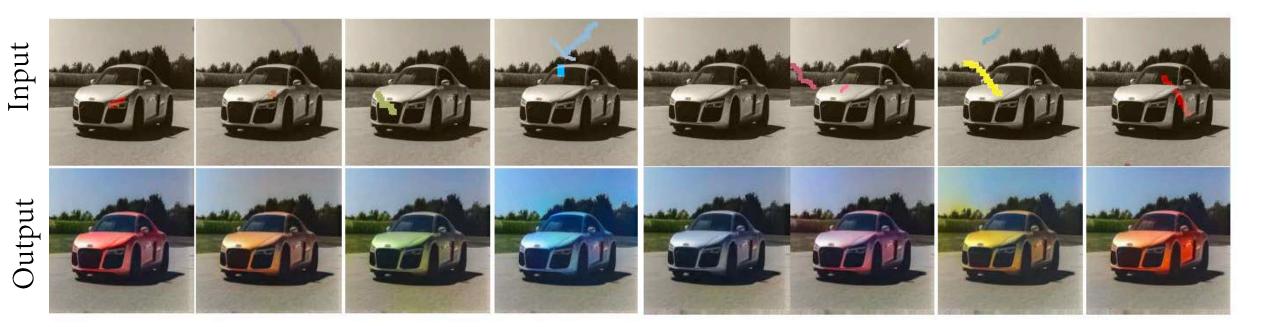




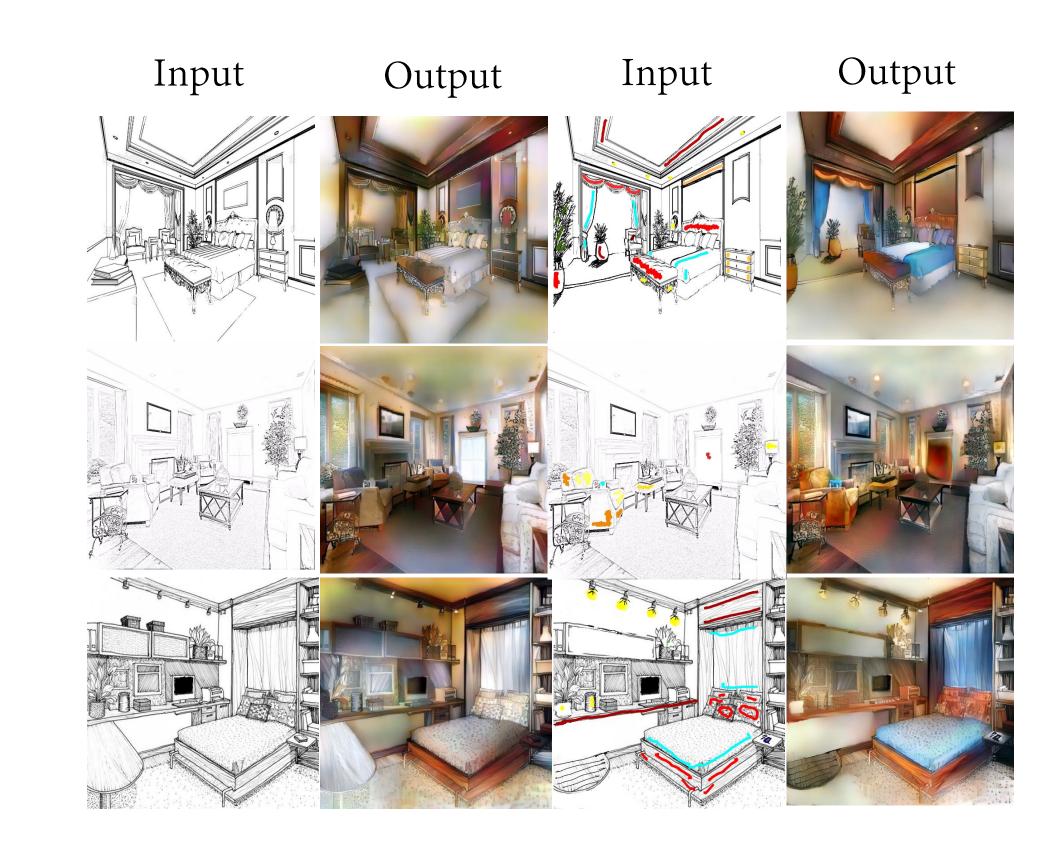


### Controlling with color stroke:

Guided Image Colorization



### Controlling with sketch and color stroke:



scribbler.eye.gatech.edu