

CS 523: Multimedia Systems

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Today

- Work on final project!

CycleGAN, Zhu et al. 2017

[https://arxiv.org/abs/
1703.10593](https://arxiv.org/abs/1703.10593)

[https://github.com/junyanz/
CycleGAN](https://github.com/junyanz/CycleGAN)
[https://junyanz.github.io/
CycleGAN/](https://junyanz.github.io/CycleGAN/)



A Constrained Sequence-to-Sequence Neural Model for Sentence Simplification, Zhang et al. 2017

<https://arxiv.org/abs/1704.02312>

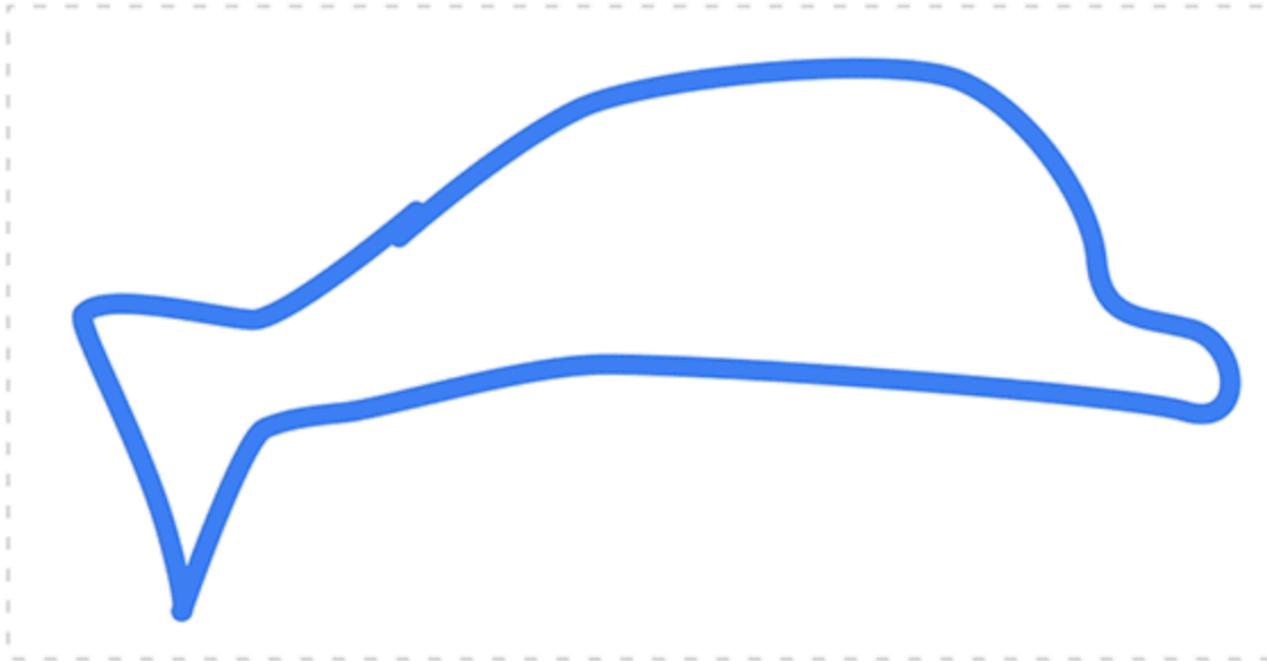
Normal Sentence	In the last decades of his life, dukas became well known as a teacher of composition , with many famous students.
Simple Sentence	Later in his life, dukas became well known as a music teacher, with many famous students.

AutoDraw, 2017

<https://www.blog.google/topics/machine-learning/fast-drawing-everyone/>

<https://www.autodraw.com/>

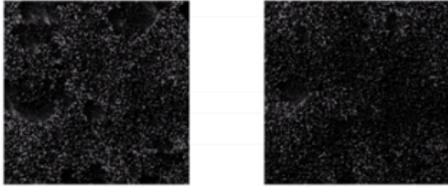
Do you mean:



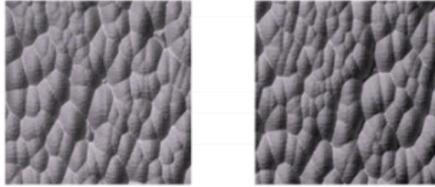
A Procedural Texture Generation Framework Based on Semantic Descriptions, Dong et al., 2017

<https://arxiv.org/abs/1704.04141>

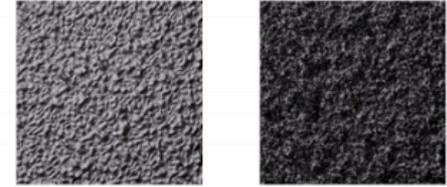
Irregular, Granular, Complex, Speckled, Messy



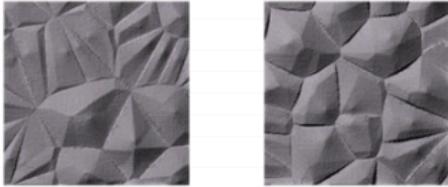
Cellular, Complex, Crinkled, Disordered, Repetitive, Uneven



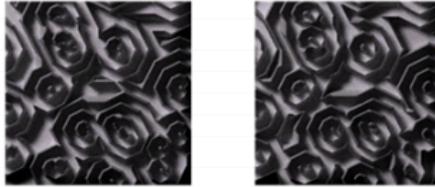
Dense, Coarse, Messy, Granular, Complex, Uniform,



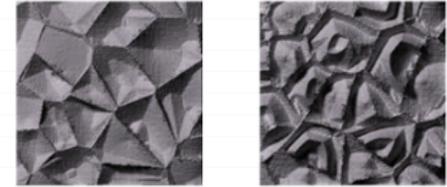
Irregular, Grid, Repetitive, Uneven, Rocky, Disordered, random



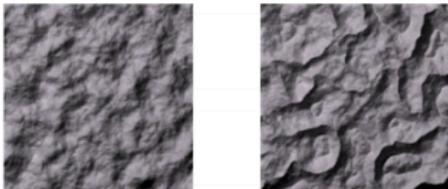
Uniform, Spiraled, Well-ordered, Repetitive, Ridged, Cyclical, Simple, Lined



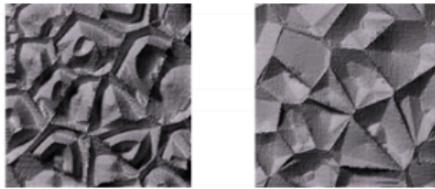
Irregular, marbled, Repetitive, Ridged, Uneven, Simple, Honeycombed, Lined



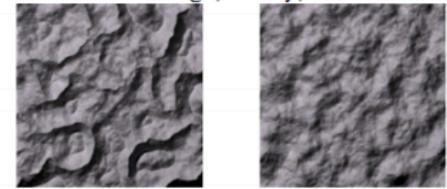
Rocky, Irregular, Complex, Fuzzy, Uneven, Rough



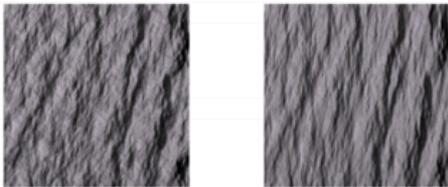
Irregular, Marbled, Repetitive, Ridged, Honeycombed, Lined



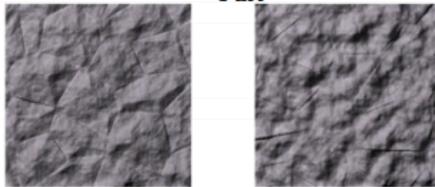
Irregular, Fuzzy, Repetitive, Ridged, Uneven, Rough, Rocky, Fine



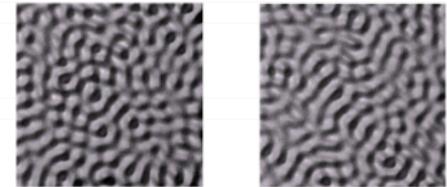
Ridged, Coarse, Rough, Lined, Simple, Fine



Fuzzy, Repetitive, Ridged, Uneven, Rough, Rocky, Fine



Granular, Well-ordered, Cellular, Simple, Rough, Gouged, Disordered



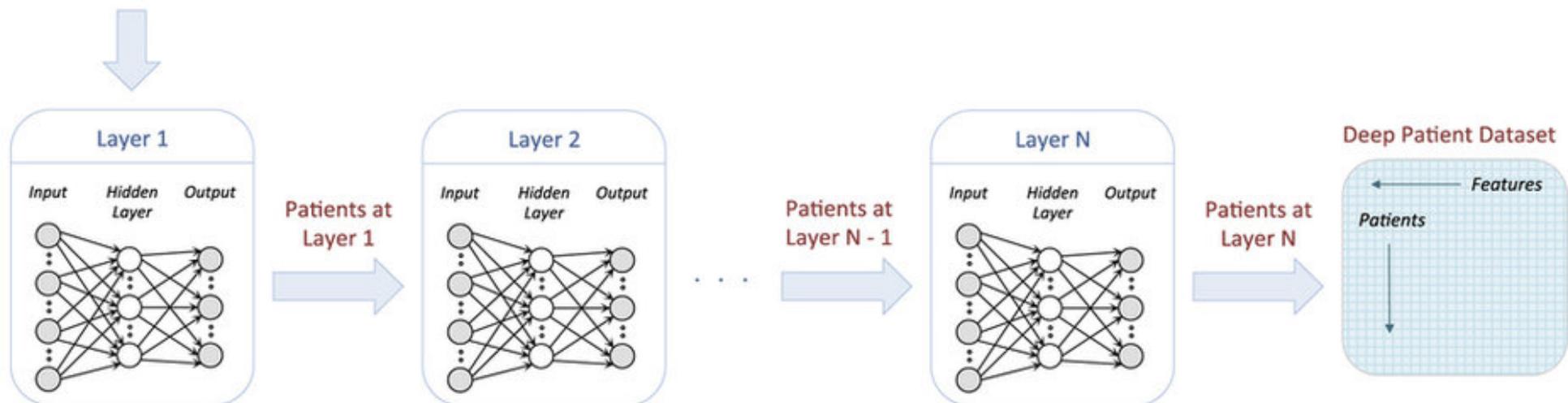
Deep Patient, 2017

<https://www.nature.com/articles/srep26094>

Raw Patient Dataset



Clinical Descriptors



Unsupervised Sentiment Neuron, OpenAI 2017

<https://blog.openai.com/unsupervised-sentiment-neuron/>

This is one of Crichton's best books. The characters of Karen Ross, Peter Elliot, Munro, and Amy are beautifully developed and their interactions are exciting, complex, and fast-paced throughout this impressive novel. And about 99.8 percent of that got lost in the film. Seriously, the screenplay AND the directing were horrendous and clearly done by people who could not fathom what was good about the novel. I can't fault the actors because frankly, they never had a chance to make this turkey live up to Crichton's original work. I know good novels, especially those with a science fiction edge, are hard to bring to the screen in a way that lives up to the original. But this may be the absolute worst disparity in quality between novel and screen adaptation ever. The book is really, really good. The movie is just dreadful.

Sketch-RNN, Ha and Eck 2017

<https://arxiv.org/abs/1704.03477>

Human Input

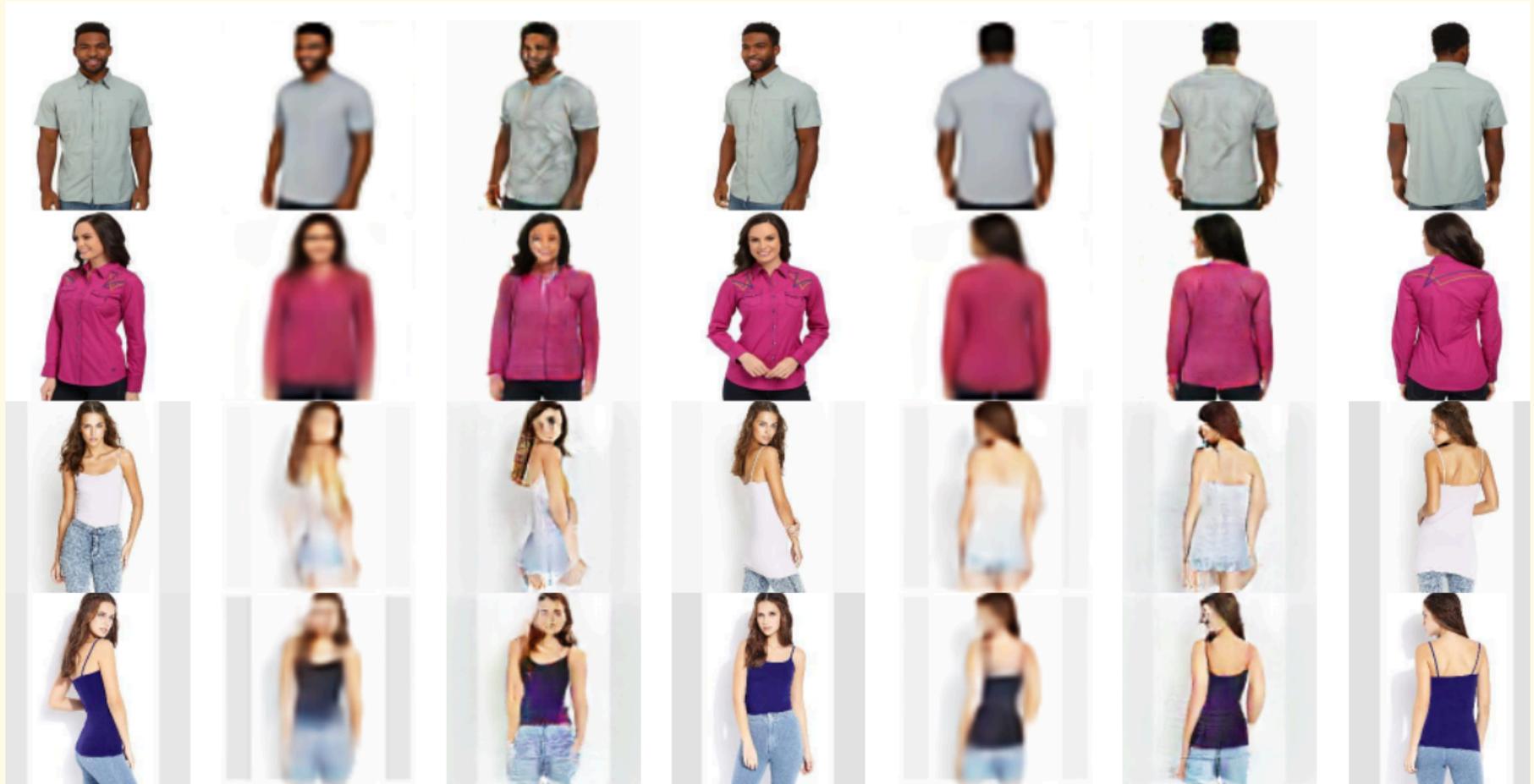
Reconstructions



Figure 9: Conditional generation of cats.

VariGANs / DeepFashion, Zhao et al. 2017

<https://arxiv.org/abs/1704.04886>



(a) Input Images

(b) Coarse Images

(c) Fine Images

(d) GT Images

(e) Coarse Images

(f) Fine Images

(g) GT Images