



What are GANs?

Deep GANs

Week 4 Quiz: GANs



Quiz: GANs

8 questions

Assignment: Generate Hands with GANs



Programming Assignment:

Generated Hands

1h

Course Resources



Reading: References

10 min



Reading: What next?

10 min

Acknowledgments



References

This course drew from the following resources:

Week 1:

- [A Neural Algorithm of Artistic Style](#) (Gatys, Ecker & Bethge, 2015)
- [Perceptual Losses for Real-Time Style Transfer and Super-Resolution](#) (Johnson, Alahi & Li, 2016)
- [Visualizing and Understanding Convolutional Networks](#) (Zeiler & Fergus, 2013)
- [numpy.einsum](#)
- [Exploring the structure of a real-time, arbitrary neural artistic stylization network](#) (Ghiasi, Lee, Kudlur, Dumoulin & Shlens, 2017)

Week 3:

- [Kullback-Leibler divergence](#)
- [Balancing reconstruction error and Kullback-Leibler divergence in Variational Autoencoders](#) (Asperti & Trentin, 2020)

Week 4:

- [GANs Specialization](#) by DeepLearning.AI
- [Self-Normalizing Neural Networks](#) (Klambauer, Unterthiner, Mayr & Hochreiter, 2017)
- [Unsupervised Representation Learning with Deep Convolutional Generative Adversarial Networks](#) (Radford, Metz & Chintala, 2016)