Evaluation of GANs

✓ **Video:** Welcome to Course 2
3 min

✓ **Video:** Welcome to Week 1
1 min

✓ **Reading:** Syllabus
5 min

▭ **Reading:** Connect with your mentors and fellow learners on Slack!
5 min

▶ **Video:** Evaluation
6 min

▶ **Video:** Comparing Images
3 min

▶ **Video:** Feature Extraction
6 min

▶ **Video:** Inception-v3 and Embeddings
6 min

▶ **Video:** Fréchet Inception Distance (FID)
14 min

▶ **Video:** Inception Score
10 min

▭ **Reading:** (Optional) A Closer Look at Inception Score
1h

▶ **Video:** Sampling and Truncation
6 min

▭ **Reading:** (Optional) HYPE!!
1h 10m

▶ **Video:** Precision and Recall
5 min

▭ **Reading:** (Optional) More on Precision and Recall
1h 20m

Syllabus

Welcome to Course 2 of Generative Adversarial Networks (GANs): Build Better GANs! We hope you are eager to keep learning.

To make sure you are best equipped to learn, here is a note on the prerequisites for this specialization:

This specialization is designed for someone without familiarity with GANs to come in, learn the basics in Course 1, and still succeed with learning the advanced topics presented in Course 2 and 3. If you are familiar with GANs or consider yourself an advanced learner, you may find it most enriching to view the videos that you're unfamiliar with and supplement your learning with the optional notebooks. For anyone curious about a concept covered, you can also take a look at the optional readings for that week!

Here's a peek into Course 2: you will start Week 1 by learning the challenges of evaluating GANs and implementing the Fréchet Inception Distance (FID) evaluation method. Then in Week 2, you will compare different generative models and identify sources of bias in machine learning and some ways to detect them in GANs. Finally, in Week 3, you will learn and implement the techniques associated with the powerful, state-of-the-art StyleGAN.

- Week 1: GAN Evaluation

- Week 2: GAN Disadvantages and Bias

- Week 3: StyleGAN and Advancements

Let's keep learning!

✓ Complete   Go to next item