Wasserstein GANs with Gradient Penalty

- **Video:** Welcome to Week 3 — 1 min
- **Video:** Mode Collapse — 4 min
- **Video:** Problem with BCE Loss — 3 min
- **Video:** Earth Mover's Distance — 2 min
- **Video:** Wasserstein Loss — 4 min
- **Video:** Condition on Wasserstein Critic — 3 min
- **Video:** 1-Lipschitz Continuity Enforcement — 5 min
- **Programming Assignment:** WGAN — 3h
- **Lab:** (Optional) SN-GAN — 1h
- **Reading:** (Optional) The WGAN and WGAN-GP Papers — 2h
- **Reading:** (Optional) WGAN Walkthrough — 1h
- **Reading:** Works Cited — 5 min

Works Cited

All of the resources cited in Course 1 Week 3, in one place. You are encouraged to explore these papers/sites if they interest you—for this week, both papers have been included as an optional reading! They are listed in the order they appear in the lessons.

From the notebook:

- Wasserstein GAN (Arjovsky, Chintala, and Bottou, 2017): https://arxiv.org/abs/1701.07875
- Improved Training of Wasserstein GANs (Gulrajani et al., 2017): https://arxiv.org/abs/1704.00028
- MNIST Database: http://yann.lecun.com/exdb/mnist/

✓ Complete

Go to next item