

## Module: tf.contrib.gan

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Defined in `tensorflow/contrib/gan/__init__.py`.

TFGAN grouped API. Please see README.md for details and usage.

## Modules

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`estimator` module: TFGAN grouped API. Please see README.md for details and usage.

`eval` module: TFGAN grouped API. Please see README.md for details and usage.

`features` module: TFGAN grouped API. Please see README.md for details and usage.

`losses` module: TFGAN grouped API. Please see README.md for details and usage.

## Classes

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`class ACGANModel`: An ACGANModel contains all the pieces needed for ACGAN training.

`class GANLoss`: GANLoss contains the generator and discriminator losses.

`class GANModel`: A GANModel contains all the pieces needed for GAN training.

`class GANTrainOps`: GANTrainOps contains the training ops.

`class GANTrainSteps`: Contains configuration for the GAN Training.

`class InfoGANModel`: An InfoGANModel contains all the pieces needed for InfoGAN training.

## Functions

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`acgan_model(...)`: Returns an ACGANModel contains all the pieces needed for ACGAN training.

`gan_loss(...)`: Returns losses necessary to train generator and discriminator.

`gan_model(...)`: Returns GAN model outputs and variables.

`gan_train(...)`: A wrapper around `contrib.training.train` that uses GAN hooks.

`gan_train_ops(...)`: Returns GAN train ops.

`get_joint_train_hooks(...)`: Returns a hooks function for sequential GAN training.

`get_sequential_train_hooks(...)`: Returns a hooks function for sequential GAN training.

`get_sequential_train_steps(...)` : Returns a thin wrapper around `slim.learning.train_step`, for GANs.

`infogan_model(...)` : Returns an InfoGAN model outputs and variables.

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