

## tf.contrib.gan.losses.combine\_adversarial\_loss

```
combine_adversarial_loss(  
    gan_loss,  
    gan_model,  
    non_adversarial_loss,  
    weight_factor=None,  
    gradient_ratio=None,  
    gradient_ratio_epsilon=1e-06,  
    scalar_summaries=True,  
    gradient_summaries=True  
)
```

Defined in [tensorflow/contrib/gan/python/losses/python/tuple\\_losses\\_impl.py](#).

Combine adversarial loss and main loss.

Uses `combine_adversarial_loss` to combine the losses, and returns a modified GANLoss namedtuple.

### Args:

- `gan_loss`: A GANLoss namedtuple. Assume the GANLoss.generator\_loss is the adversarial loss.
- `gan_model`: A GANModel namedtuple. Used to access the generator's variables.
- `non_adversarial_loss`: Same as `main_loss` from `combine_adversarial_loss`.
- `weight_factor`: Same as `weight_factor` from `combine_adversarial_loss`.
- `gradient_ratio`: Same as `gradient_ratio` from `combine_adversarial_loss`.
- `gradient_ratio_epsilon`: Same as `gradient_ratio_epsilon` from `combine_adversarial_loss`.
- `scalar_summaries`: Same as `scalar_summaries` from `combine_adversarial_loss`.
- `gradient_summaries`: Same as `gradient_summaries` from `combine_adversarial_loss`.

### Returns:

A modified GANLoss namedtuple, with `non_adversarial_loss` included appropriately.

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