#### TopoorFlow

TensorFlow API r1.4

# tf.NoGradient

Contents

Aliases:

## Aliases:

- tf.NoGradient
- tf.NotDifferentiable

NoGradient(op\_type)

Defined in tensorflow/python/framework/ops.py.

See the guide: Building Graphs > Defining new operations

Specifies that ops of type op\_type is not differentiable.

This function should not be used for operations that have a well-defined gradient that is not yet implemented.

This function is only used when defining a new op type. It may be used for ops such as **tf.size()** that are not differentiable. For example:

tf.NotDifferentiable("Size")

The gradient computed for 'op\_type' will then propagate zeros.

For ops that have a well-defined gradient but are not yet implemented, no declaration should be made, and an error *must* be thrown if an attempt to request its gradient is made.

### Args:

op\_type: The string type of an operation. This corresponds to the OpDef.name field for the proto that defines the
operation.

#### Raises:

• TypeError: If op\_type is not a string.

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