#### TancarFlow

TensorFlow API r1.4

tf.global\_norm

```
global_norm(
   t_list,
   name=None
)
```

Defined in tensorflow/python/ops/clip\_ops.py.

See the guide: Training > Gradient Clipping

Computes the global norm of multiple tensors.

Given a tuple or list of tensors t\_list, this operation returns the global norm of the elements in all tensors in t\_list. The global norm is computed as:

```
global_norm = sqrt(sum([12norm(t)**2 for t in t_list]))
```

Any entries in t\_list that are of type None are ignored.

### Args:

- t\_list: A tuple or list of mixed Tensors, IndexedSlices, or None.
- name: A name for the operation (optional).

Returns:

A 0-D (scalar) Tensor of type float .

## Raises:

• TypeError: If t\_list is not a sequence.

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