TancarFlow

TensorFlow API r1.4

tf.clip_by_value

```
clip_by_value(
    t,
    clip_value_min,
    clip_value_max,
    name=None
)
```

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

See the guide: Training > Gradient Clipping

Clips tensor values to a specified min and max.

Given a tensor t, this operation returns a tensor of the same type and shape as t with its values clipped to clip_value_min and clip_value_max. Any values less than clip_value_min are set to clip_value_min. Any values greater than clip_value_max are set to clip_value_max.

Args:

- t:A Tensor.
- clip_value_min: A 0-D (scalar) Tensor, or a Tensor with the same shape as t. The minimum value to clip by.
- clip_value_max: A 0-D (scalar) Tensor, or a Tensor with the same shape as t. The maximum value to clip by.
- name: A name for the operation (optional).

Returns:

A clipped Tensor.

Raises:

• ValueError: if the clip tensors would trigger array broadcasting that would make the returned tensor larger than the input.

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