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.

Support

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