TancarFlow

TensorFlow API r1.4

tf.reduce_all

```
reduce_all(
   input_tensor,
   axis=None,
   keep_dims=False,
   name=None,
   reduction_indices=None
)
```

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

See the guide: Math > Reduction

Computes the "logical and" of elements across dimensions of a tensor.

Reduces **input_tensor** along the dimensions given in **axis**. Unless **keep_dims** is true, the rank of the tensor is reduced by 1 for each entry in **axis**. If **keep_dims** is true, the reduced dimensions are retained with length 1.

If axis has no entries, all dimensions are reduced, and a tensor with a single element is returned.

For example:

```
x = tf.constant([[True, True], [False, False]])
tf.reduce_all(x)  # False
tf.reduce_all(x, 0)  # [False, False]
tf.reduce_all(x, 1)  # [True, False]
```

Args:

- input_tensor: The boolean tensor to reduce.
- axis: The dimensions to reduce. If None (the default), reduces all dimensions. Must be in the range [-rank(input_tensor), rank(input_tensor)).
- keep_dims: If true, retains reduced dimensions with length 1.
- name: A name for the operation (optional).
- reduction_indices: The old (deprecated) name for axis.

Returns:

The reduced tensor.

numpy compatibility

Equivalent to np.all

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