

tf.squeeze

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```
tf.squeeze(  
    input,  
    axis=None,  
    name=None,  
    squeeze_dims=None  
)
```

Defined in [tensorflow/python/ops/array_ops.py](#)
(https://www.github.com/tensorflow/tensorflow/blob/master/tensorflow/python/ops/array_ops.py).

See the guide: [Tensor Transformations > Shapes and Shaping](#)
(https://www.tensorflow.org/versions/master/api_guides/python/array_ops#Shapes_and_Shaping)

Removes dimensions of size 1 from the shape of a tensor.

Given a tensor `input`, this operation returns a tensor of the same type with all dimensions of size 1 removed. If you don't want to remove all size 1 dimensions, you can remove specific size 1 dimensions by specifying `axis`.

For example:

```
# 't' is a tensor of shape [1, 2, 1, 3, 1, 1]  
shape(squeeze(t)) ==> [2, 3]
```

Or, to remove specific size 1 dimensions:

```
# 't' is a tensor of shape [1, 2, 1, 3, 1, 1]  
shape(squeeze(t, [2, 4])) ==> [1, 2, 3, 1]
```

Args:

- **input**: A `Tensor`. The input to squeeze.
- **axis**: An optional list of `ints`. Defaults to `[]`. If specified, only squeezes the dimensions listed. The dimension index starts at 0. It is an error to squeeze a dimension that is not 1.
- **name**: A name for the operation (optional).
- **squeeze_dims**: Deprecated keyword argument that is now `axis`.

Returns:

A `Tensor`. Has the same type as `input`. Contains the same data as `input`, but has one or more dimensions of size 1 removed.

Raises:

- **ValueError**: When both `squeeze_dims` and `axis` are specified.

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