

## tf.contrib.util.constant\_value

```
constant_value(  
    tensor,  
    partial=False  
)
```

Defined in [tensorflow/python/framework/tensor\\_util.py](#).

See the guide: [Utilities \(contrib\)](#) > [Miscellaneous Utility Functions](#)

Returns the constant value of the given tensor, if efficiently calculable.

This function attempts to partially evaluate the given tensor, and returns its value as a numpy ndarray if this succeeds.

TODO(mrry): Consider whether this function should use a registration mechanism like gradients and ShapeFunctions, so that it is easily extensible.

NOTE: If `constant_value(tensor)` returns a non-`None` result, it will no longer be possible to feed a different value for `tensor`. This allows the result of this function to influence the graph that is constructed, and permits static shape optimizations.

#### Args:

- `tensor`: The Tensor to be evaluated.
- `partial`: If True, the returned numpy array is allowed to have partially evaluated values. Values that can't be evaluated will be None.

#### Returns:

A numpy ndarray containing the constant value of the given `tensor`, or None if it cannot be calculated.

#### Raises:

- `TypeError`: if tensor is not an ops.Tensor.

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