# 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.

*Last updated November 2, 2017.*