

tf.zeros_like

```
zeros_like(  
    tensor,  
    dtype=None,  
    name=None,  
    optimize=True  
)
```

Defined in [tensorflow/python/ops/array_ops.py](#).

See the guide: [Constants, Sequences, and Random Values > Constant Value Tensors](#)

Creates a tensor with all elements set to zero.

Given a single tensor (**tensor**), this operation returns a tensor of the same type and shape as **tensor** with all elements set to zero. Optionally, you can use **dtype** to specify a new type for the returned tensor.

For example:

```
tensor = tf.constant([[1, 2, 3], [4, 5, 6]])  
tf.zeros_like(tensor) # [[0, 0, 0], [0, 0, 0]]
```

Args:

- **tensor**: A **Tensor**.
- **dtype**: A type for the returned **Tensor**. Must be **float32**, **float64**, **int8**, **int16**, **int32**, **int64**, **uint8**, **complex64**, or **complex128**.
- **name**: A name for the operation (optional).
- **optimize**: if true, attempt to statically determine the shape of 'tensor' and encode it as a constant.

Returns:

A **Tensor** with all elements set to zero.

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