

tf.name_scope

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Class `name_scope`

Aliases:

- Class `tf.keras.backend.name_scope`
- Class `tf.name_scope`

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

See the guide: [Building Graphs > Utility functions](#)

A context manager for use when defining a Python op.

This context manager validates that the given `values` are from the same graph, makes that graph the default graph, and pushes a name scope in that graph (see [tf.Graph.name_scope](#) for more details on that).

For example, to define a new Python op called `my_op`:

```
def my_op(a, b, c, name=None):
    with tf.name_scope(name, "MyOp", [a, b, c]) as scope:
        a = tf.convert_to_tensor(a, name="a")
        b = tf.convert_to_tensor(b, name="b")
        c = tf.convert_to_tensor(c, name="c")
        # Define some computation that uses `a`, `b`, and `c`.
        return foo_op(..., name=scope)
```

Methods

`__init__`

```
__init__(
    name,
    default_name=None,
    values=None
)
```

Initialize the context manager.

Args:

- `name` : The name argument that is passed to the `op` function.
- `default_name` : The default name to use if the `name` argument is `None` .
- `values` : The list of `Tensor` arguments that are passed to the `op` function.

`__enter__`

```
__enter__()
```

Start the scope block.

Returns:

The scope name.

Raises:

- `ValueError` : if neither `name` nor `default_name` is provided but `values` are.

`__exit__`

```
__exit__(  
    type_arg,  
    value_arg,  
    traceback_arg  
)
```

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