

tf.lin_space

Contents

Aliases:

Aliases:

- `tf.lin_space`
- `tf.linspace`

```
lin_space(  
    start,  
    stop,  
    num,  
    name=None  
)
```

Defined in `tensorflow/python/ops/gen_math_ops.py`.

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

Generates values in an interval.

A sequence of `num` evenly-spaced values are generated beginning at `start`. If `num > 1`, the values in the sequence increase by `stop - start / num - 1`, so that the last one is exactly `stop`.

For example:

```
tf.linspace(10.0, 12.0, 3, name="linspace") => [ 10.0  11.0  12.0]
```

Args:

- `start`: A **Tensor**. Must be one of the following types: `float32`, `float64`. First entry in the range.
- `stop`: A **Tensor**. Must have the same type as `start`. Last entry in the range.
- `num`: A **Tensor**. Must be one of the following types: `int32`, `int64`. Number of values to generate.
- `name`: A name for the operation (optional).

Returns:

A **Tensor**. Has the same type as `start`. 1-D. The generated values.

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