

tf.placeholder

```
placeholder(  
    dtype,  
    shape=None,  
    name=None  
)
```

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

See the guides: [Inputs and Readers > Placeholders](#), [Reading data > Feeding](#)

Inserts a placeholder for a tensor that will be always fed.

Important: This tensor will produce an error if evaluated. Its value must be fed using the `feed_dict` optional argument to `Session.run()`, `Tensor.eval()`, or `Operation.run()`.

For example:

```
x = tf.placeholder(tf.float32, shape=(1024, 1024))  
y = tf.matmul(x, x)  
  
with tf.Session() as sess:  
    print(sess.run(y)) # ERROR: will fail because x was not fed.  
  
    rand_array = np.random.rand(1024, 1024)  
    print(sess.run(y, feed_dict={x: rand_array})) # Will succeed.
```

Args:

- `dtype`: The type of elements in the tensor to be fed.
- `shape`: The shape of the tensor to be fed (optional). If the shape is not specified, you can feed a tensor of any shape.
- `name`: A name for the operation (optional).

Returns:

A `Tensor` that may be used as a handle for feeding a value, but not evaluated directly.

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