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.

Last updated November 2, 2017.

Support

Issue Tracker

Release Notes

Stack Overflow

English

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