

tf.import_graph_def

```
import_graph_def(  
    graph_def,  
    input_map=None,  
    return_elements=None,  
    name=None,  
    op_dict=None,  
    producer_op_list=None  
)
```

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

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

Imports the graph from `graph_def` into the current default `Graph`.

This function provides a way to import a serialized TensorFlow `GraphDef` protocol buffer, and extract individual objects in the `GraphDef` as `tf.Tensor` and `tf.Operation` objects. Once extracted, these objects are placed into the current default `Graph`. See [tf.Graph.as_graph_def](#) for a way to create a `GraphDef` proto.

Args:

- `graph_def`: A `GraphDef` proto containing operations to be imported into the default graph.
- `input_map`: A dictionary mapping input names (as strings) in `graph_def` to `Tensor` objects. The values of the named input tensors in the imported graph will be re-mapped to the respective `Tensor` values.
- `return_elements`: A list of strings containing operation names in `graph_def` that will be returned as `Operation` objects; and/or tensor names in `graph_def` that will be returned as `Tensor` objects.
- `name`: (Optional.) A prefix that will be prepended to the names in `graph_def`. Note that this does not apply to imported function names. Defaults to `"import"`.
- `op_dict`: (Optional.) A dictionary mapping op type names to `OpDef` protos. Must contain an `OpDef` proto for each op type named in `graph_def`. If omitted, uses the `OpDef` protos registered in the global registry.
- `producer_op_list`: (Optional.) An `OpList` proto with the (possibly stripped) list of `OpDef`s used by the producer of the graph. If provided, attrs for ops in `graph_def` that are not in `op_dict` that have their default value according to `producer_op_list` will be removed. This will allow some more `GraphDef`s produced by later binaries to be accepted by earlier binaries.

Returns:

A list of `Operation` and/or `Tensor` objects from the imported graph, corresponding to the names in `return_elements`.

Raises:

- `TypeError`: If `graph_def` is not a `GraphDef` proto, `input_map` is not a dictionary mapping strings to `Tensor` objects, or `return_elements` is not a list of strings.
- `ValueError`: If `input_map`, or `return_elements` contains names that do not appear in `graph_def`, or `graph_def` is not well-formed (e.g. it refers to an unknown tensor).

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Last updated November 2, 2017.

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