

tf.graph_util.convert_variables_to_constants

```
convert_variables_to_constants(  
    sess,  
    input_graph_def,  
    output_node_names,  
    variable_names_whitelist=None,  
    variable_names_blacklist=None  
)
```

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

Replaces all the variables in a graph with constants of the same values.

If you have a trained graph containing Variable ops, it can be convenient to convert them all to Const ops holding the same values. This makes it possible to describe the network fully with a single GraphDef file, and allows the removal of a lot of ops related to loading and saving the variables.

Args:

- `sess` : Active TensorFlow session containing the variables.
- `input_graph_def` : GraphDef object holding the network.
- `output_node_names` : List of name strings for the result nodes of the graph.
- `variable_names_whitelist` : The set of variable names to convert (by default, all variables are converted).
- `variable_names_blacklist` : The set of variable names to omit converting to constants.

Returns:

GraphDef containing a simplified version of the original.

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