## TopoorFlow

TensorFlow API r1.4

tf.contrib.layers.stack

```
stack(
   inputs,
   layer,
   stack_args,
   **kwargs
)
```

Defined in tensorflow/contrib/layers/python/layers/layers.py.

Builds a stack of layers by applying layer repeatedly using stack\_args.

stack allows you to repeatedly apply the same operation with different arguments stack\_args[i]. For each application of the layer, stack creates a new scope appended with an increasing number. For example:

```
y = stack(x, fully_connected, [32, 64, 128], scope='fc')
# It is equivalent to:

x = fully_connected(x, 32, scope='fc/fc_1')
x = fully_connected(x, 64, scope='fc/fc_2')
y = fully_connected(x, 128, scope='fc/fc_3')
```

If the scope argument is not given in kwargs, it is set to layer.\_\_name\_\_, or layer.func.\_\_name\_\_ (for functools.partial objects). If neither \_\_name\_\_ nor func.\_\_name\_\_ is available, the layers are called with scope='stack'.

## Args:

- inputs: A Tensor suitable for layer.
- layer: A layer with arguments (inputs, \*args, \*\*kwargs)
- stack\_args: A list/tuple of parameters for each call of layer.
- \*\*kwargs: Extra kwargs for the layer.

## Returns:

A **Tensor** result of applying the stacked layers.

## Raises:

• ValueError: If the op is unknown or wrong.

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