

tf.identity_n

```
identity_n(  
    input,  
    name=None  
)
```

Defined in `tensorflow/python/ops/gen_array_ops.py`.

Returns a list of tensors with the same shapes and contents as the input

tensors.

This op can be used to override the gradient for complicated functions. For example, suppose $y = f(x)$ and we wish to apply a custom function g for backprop such that $dx = g(dy)$. In Python,

```
with tf.get_default_graph().gradient_override_map(  
    {'IdentityN': 'OverrideGradientWithG'}):  
    y, _ = identity_n([f(x), x])  
  
@tf.RegisterGradient('OverrideGradientWithG')  
def ApplyG(op, dy, _):  
    return [None, g(dy)] # Do not backprop to f(x).
```

Args:

- `input`: A list of `Tensor` objects.
- `name`: A name for the operation (optional).

Returns:

A list of `Tensor` objects. Has the same type as `input`.

Except as otherwise noted, the content of this page is licensed under the [Creative Commons Attribution 3.0 License](#), and code samples are licensed under the [Apache 2.0 License](#). For details, see our [Site Policies](#). Java is a registered trademark of Oracle and/or its affiliates.

Last updated November 2, 2017.

Stay Connected

[Blog](#)

[GitHub](#)

[Twitter](#)

Support

[Issue Tracker](#)

[Release Notes](#)

[Stack Overflow](#)

English

[Terms](#) | [Privacy](#)