

tf.register_tensor_conversion_function

```
register_tensor_conversion_function(  
    base_type,  
    conversion_func,  
    priority=100  
)
```

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

See the guide: [Building Graphs > For libraries building on TensorFlow](#)

Registers a function for converting objects of **base_type** to **Tensor**.

The conversion function must have the following signature:

```
def conversion_func(value, dtype=None, name=None, as_ref=False):  
    # ...
```

It must return a **Tensor** with the given **dtype** if specified. If the conversion function creates a new **Tensor**, it should use the given **name** if specified. All exceptions will be propagated to the caller.

The conversion function may return **NotImplemented** for some inputs. In this case, the conversion process will continue to try subsequent conversion functions.

If **as_ref** is true, the function must return a **Tensor** reference, such as a **Variable**.

NOTE: The conversion functions will execute in order of priority, followed by order of registration. To ensure that a conversion function **F** runs before another conversion function **G**, ensure that **F** is registered with a smaller priority than **G**.

Args:

- base_type**: The base type or tuple of base types for all objects that **conversion_func** accepts.
- conversion_func**: A function that converts instances of **base_type** to **Tensor**.
- priority**: Optional integer that indicates the priority for applying this conversion function. Conversion functions with smaller priority values run earlier than conversion functions with larger priority values. Defaults to 100.

Raises:

- TypeError**: If the arguments do not have the appropriate type.

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