

## tf.contrib.lookup.index\_to\_string\_table\_from\_tensor

```
index_to_string_table_from_tensor(  
    mapping,  
    default_value='UNK',  
    name=None  
)
```

Defined in [tensorflow/contrib/lookup/lookup\\_ops.py](#).

Returns a lookup table that maps a **Tensor** of indices into strings.

This operation constructs a lookup table to map int64 indices into string values. The mapping is initialized from a string **mapping** 1-D **Tensor** where each element is a value and the corresponding index within the tensor is the key.

Any input which does not have a corresponding index in 'mapping' (an out-of-vocabulary entry) is assigned the **default\_value**

The underlying table must be initialized by calling **tf.tables\_initializer.run()** or **table.init.run()** once.

Elements in **mapping** cannot have duplicates, otherwise when executing the table initializer op, it will throw a **FailedPreconditionError**.

Sample Usages:

```
mapping_string = tf.constant(["emerson", "lake", "palmer"])  
indices = tf.constant([1, 5], tf.int64)  
table = tf.contrib.lookup.index_to_string_table_from_tensor(  
    mapping_string, default_value="UNKNOWN")  
values = table.lookup(indices)  
...  
tf.tables_initializer().run()  
  
values.eval() ==> ["lake", "UNKNOWN"]
```

Args:

- **mapping**: A 1-D string **Tensor** that specifies the strings to map from indices.
- **default\_value**: The value to use for out-of-vocabulary indices.
- **name**: A name for this op (optional).

Returns:

The lookup table to map a string values associated to a given index **int64 Tensors**.

Raises:

- **ValueError**: when **mapping** is not set.

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