

tf.reduce_join

```
reduce_join(  
    inputs,  
    axis=None,  
    keep_dims=False,  
    separator='',  
    name=None,  
    reduction_indices=None  
)
```

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

See the guide: [Strings > Joining](#)

Joins a string Tensor across the given dimensions.

Computes the string join across dimensions in the given string Tensor of shape `[d_0, d_1, ..., d_n-1]`. Returns a new Tensor created by joining the input strings with the given separator (default: empty string). Negative indices are counted backwards from the end, with `-1` being equivalent to `n - 1`.

For example:

```
# tensor `a` is [["a", "b"], ["c", "d"]]  
tf.reduce_join(a, 0) ==> ["ac", "bd"]  
tf.reduce_join(a, 1) ==> ["ab", "cd"]  
tf.reduce_join(a, -2) = tf.reduce_join(a, 0) ==> ["ac", "bd"]  
tf.reduce_join(a, -1) = tf.reduce_join(a, 1) ==> ["ab", "cd"]  
tf.reduce_join(a, 0, keep_dims=True) ==> [["ac", "bd"]]  
tf.reduce_join(a, 1, keep_dims=True) ==> [["ab"], ["cd"]]  
tf.reduce_join(a, 0, separator=".") ==> ["a.c", "b.d"]  
tf.reduce_join(a, [0, 1]) ==> ["acbd"]  
tf.reduce_join(a, [1, 0]) ==> ["abcd"]  
tf.reduce_join(a, []) ==> ["abcd"]
```

Args:

- `inputs`: A **Tensor** of type **string**. The input to be joined. All reduced indices must have non-zero size.
- `axis`: A **Tensor** of type **int32**. The dimensions to reduce over. Dimensions are reduced in the order specified. Omitting `axis` is equivalent to passing `[n-1, n-2, ..., 0]`. Negative indices from `-n` to `-1` are supported.
- `keep_dims`: An optional **bool**. Defaults to **False**. If **True**, retain reduced dimensions with length **1**.
- `separator`: An optional **string**. Defaults to `""`. The separator to use when joining.
- `name`: A name for the operation (optional).

Returns:

A **Tensor** of type **string**. Has shape equal to that of the input with reduced dimensions removed or set to **1** depending on `keep_dims`.

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