#### TancarFlow

TensorFlow API r1.4

tf.sparse\_retain

```
sparse_retain(
    sp_input,
    to_retain
)
```

Defined in tensorflow/python/ops/sparse\_ops.py.

See the guide: Sparse Tensors > Manipulation

Retains specified non-empty values within a SparseTensor.

For example, if **sp\_input** has shape **[4, 5]** and 4 non-empty string values:

```
[0, 1]: a
[0, 3]: b
[2, 0]: c
[3, 1]: d
```

and to\_retain = [True, False, True], then the output will be a SparseTensor of shape [4, 5] with 2 non-empty values:

```
[0, 1]: a
[3, 1]: d
```

## Args:

- sp\_input: The input SparseTensor with N non-empty elements.
- to\_retain: A bool vector of length N with M true values.

# Returns:

A **SparseTensor** with the same shape as the input and **M** non-empty elements corresponding to the true positions in **to\_retain**.

### Raises:

• TypeError: If sp\_input is not a SparseTensor.

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