

## tf.sparse\_split

```
sparse_split(  
    keyword_required=KeywordRequired(),  
    sp_input=None,  
    num_split=None,  
    axis=None,  
    name=None,  
    split_dim=None  
)
```

Defined in [tensorflow/python/ops/sparse\\_ops.py](#).

See the guide: [Sparse Tensors > Manipulation](#)

Split a `SparseTensor` into `num_split` tensors along `axis`.

If the `sp_input.dense_shape[axis]` is not an integer multiple of `num_split` each slice starting from 0: `shape[axis] % num_split` gets extra one dimension. For example, if `axis = 1` and `num_split = 2` and the input is:

```
input_tensor = shape = [2, 7]  
[  a  d e ]  
[b c      ]
```

Graphically the output tensors are:

```
output_tensor[0] =  
[  a ]  
[b c ]  
  
output_tensor[1] =  
[ d e ]  
[      ]
```

Args:

- `keyword_required`: Python 2 standin for \* (temporary for argument reorder)
- `sp_input`: The `SparseTensor` to split.
- `num_split`: A Python integer. The number of ways to split.
- `axis`: A 0-D `int32 Tensor`. The dimension along which to split.
- `name`: A name for the operation (optional).
- `split_dim`: Deprecated old name for axis.

Returns:

`num_split` `SparseTensor` objects resulting from splitting `value`.

Raises:

- `TypeError` : If `sp_input` is not a `SparseTensor` .
- `ValueError` : If the deprecated `split_dim` and `axis` are both non None.

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