TencorFlow

```
TensorFlow API r1.4
```

tf.slice

```
slice(
   input_,
   begin,
   size,
   name=None
)
```

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

See the guide: Tensor Transformations > Slicing and Joining

Extracts a slice from a tensor.

This operation extracts a slice of size size from a tensor input starting at the location specified by begin. The slice size is represented as a tensor shape, where size[i] is the number of elements of the 'i'th dimension of input that you want to slice. The starting location (begin) for the slice is represented as an offset in each dimension of input. In other words, begin[i] is the offset into the 'i'th dimension of input that you want to slice from.

Note that **tf.Tensor.\_\_getitem\_\_** is typically a more pythonic way to perform slices, as it allows you to write **foo[3:7,** :-2] instead of **tf.slice([3, 0], [4, foo.get\_shape()[1]-2])**.

**begin** is zero-based; **size** is one-based. If **size[i]** is -1, all remaining elements in dimension i are included in the slice. In other words, this is equivalent to setting:

```
size[i] = input.dim_size(i) - begin[i]
```

This operation requires that:

```
0 <= begin[i] <= begin[i] + size[i] <= Di for i in [0, n]</pre>
```

For example:

## Args:

- input\_: A **Tensor**.
- begin: An int32 or int64 Tensor.
- size: An int32 or int64 Tensor.
- name: A name for the operation (optional).

Returns:

## A $\ensuremath{\mathsf{Tensor}}$ the same type as $\ensuremath{\mathsf{input}}$ .

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Last updated November 2, 2017.

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