## TopoorFlow

TensorFlow API r1.4

## tf.segment\_mean

```
segment_mean(
   data,
   segment_ids,
   name=None
)
```

Defined in tensorflow/python/ops/gen\_math\_ops.py.

See the guide: Math > Segmentation

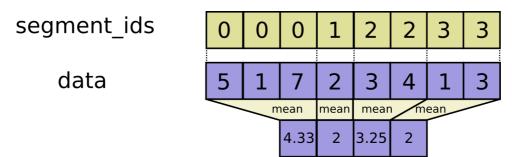
Computes the mean along segments of a tensor.

Read the section on segmentation for an explanation of segments.

∑jdataj

Computes a tensor such that  $output_j = N$  where **mean** is over **j** such that **segment\_ids[j] == i** and **N** is the total number of values summed.

If the mean is empty for a given segment ID i, output[i] = 0.



## Args:

- data: A Tensor. Must be one of the following types: float32, float64, int32, int64, uint8, int16, int8, uint16, half.
- segment\_ids: A **Tensor**. Must be one of the following types: int32, int64. A 1-D tensor whose rank is equal to the rank of data's first dimension. Values should be sorted and can be repeated.
- name: A name for the operation (optional).

## Returns:

A **Tensor** . Has the same type as data . Has same shape as data, except for dimension 0 which has size k, the number of segments.

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