TensorFlow

TensorFlow API r1.4

tf.cross

```
cross(
    a,
    b,
    name=None
)
```

Defined in tensorflow/python/ops/gen_math_ops.py.

See the guide: Math > Arithmetic Operators

Compute the pairwise cross product.

a and **b** must be the same shape; they can either be simple 3-element vectors, or any shape where the innermost dimension is 3. In the latter case, each pair of corresponding 3-element vectors is cross-multiplied independently.

Args:

- a: A Tensor. Must be one of the following types: float32, float64, int32, int64, uint8, int16, int8, uint16, half. A tensor containing 3-element vectors.
- b: A Tensor. Must have the same type as a. Another tensor, of same type and shape as a.
- name: A name for the operation (optional).

Returns:

A Tensor . Has the same type as a . Pairwise cross product of the vectors in a and b .

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