TencorFlow

TensorFlow API r1.4

tf.boolean_mask

```
boolean_mask(
    tensor,
    mask,
    name='boolean_mask'
)
```

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

See the guide: Tensor Transformations > Slicing and Joining

Apply boolean mask to tensor. Numpy equivalent is tensor [mask].

```
# 1-D example
tensor = [0, 1, 2, 3]
mask = np.array([True, False, True, False])
boolean_mask(tensor, mask) # [0, 2]
```

In general, 0 < dim(mask) = K <= dim(tensor), and mask's shape must match the first K dimensions of tensor's shape. We then have: boolean_mask(tensor, mask)[i, j1,...,jd] = tensor[i1,...,iK,j1,...,jd] where (i1,...,iK) is the ith True entry of mask (row-major order).

Args:

- tensor : N-D tensor.
- mask: K-D boolean tensor, K <= N and K must be known statically.
- name: A name for this operation (optional).

Returns:

(N-K+1)-dimensional tensor populated by entries in tensor corresponding to True values in mask.

Raises:

• ValueError: If shapes do not conform.

Examples:

```
# 2-D example

tensor = [[1, 2], [3, 4], [5, 6]]

mask = np.array([True, False, True])

boolean_mask(tensor, mask) # [[1, 2], [5, 6]]
```

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