TancarFlow

TensorFlow API r1.4

tf.keras.backend.shape

```
shape(x)
```

Defined in tensorflow/python/keras/_impl/keras/backend.py.

Returns the symbolic shape of a tensor or variable.

Arguments:

x : A tensor or variable.

Returns:

```
A symbolic shape (which is itself a tensor).
```

Examples:

```
# TensorFlow example
>>> from keras import backend as K
>>> tf_session = K.get_session()
>>> val = np.array([[1, 2], [3, 4]])
>>> kvar = K.variable(value=val)
>>> input = keras.backend.placeholder(shape=(2, 4, 5))
>>> K.shape(kvar)
<tf.Tensor 'Shape_8:0' shape=(2,) dtype=int32>
>>> K.shape(input)
<tf.Tensor 'Shape_9:0' shape=(3,) dtype=int32>
# To get integer shape (Instead, you can use K.int_shape(x))
>>> K.shape(kvar).eval(session=tf_session)
array([2, 2], dtype=int32)
>>> K.shape(input).eval(session=tf_session)
array([2, 4, 5], dtype=int32)
```

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Last updated November 2, 2017.

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