

tf.keras.backend.cast

```
cast(  
    x,  
    dtype  
)
```

Defined in [tensorflow/python/keras/_impl/keras/backend.py](#).

Casts a tensor to a different dtype and returns it.

You can cast a Keras variable but it still returns a Keras tensor.

Arguments:

- `x`: Keras tensor (or variable).
- `dtype`: String, either (`'float16'` , `'float32'` , or `'float64'`).

Returns:

Keras tensor with dtype ``dtype``.

Example:

```
>>> from keras import backend as K  
>>> input = K.placeholder((2, 3), dtype='float32')  
>>> input  
<tf.Tensor 'Placeholder_2:0' shape=(2, 3) dtype=float32>  
# It doesn't work in-place as below.  
>>> K.cast(input, dtype='float16')  
<tf.Tensor 'Cast_1:0' shape=(2, 3) dtype=float16>  
>>> input  
<tf.Tensor 'Placeholder_2:0' shape=(2, 3) dtype=float32>  
# you need to assign it.  
>>> input = K.cast(input, dtype='float16')  
>>> input  
<tf.Tensor 'Cast_2:0' shape=(2, 3) dtype=float16>
```

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