tf.keras.backend.conv2d

```
conv2d(
    x,
    kernel,
    strides=(1, 1),
    padding='valid',
    data_format=None,
    dilation_rate=(1, 1)
)
```

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

2D convolution.

Arguments:

- `x`: Tensor or variable.
- `kernel`: kernel tensor.
- `strides`: strides tuple.
- `padding`: string, `"same"` or `"valid"`.
- `data_format`: `"channels_last"` or `"channels_first"`. Whether to use Theano or TensorFlow data format for inputs/kernels/outputs.
- `dilation_rate`: tuple of 2 integers.

Returns:

A tensor, result of 2D convolution.

Raises:

- `ValueError`: if `data_format` is neither `channels_last` or `channels_first`.

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