

## tf.keras.preprocessing.image.apply\_transform

```
apply_transform(  
    x,  
    transform_matrix,  
    channel_axis=0,  
    fill_mode='nearest',  
    cval=0.0  
)
```

Defined in [tensorflow/python/keras/\\_impl/keras/preprocessing/image.py](#).

Apply the image transformation specified by a matrix.

## Arguments:

- `x`: 2D numpy array, single image.
- `transform_matrix`: Numpy array specifying the geometric transformation.
- `channel_axis`: Index of axis for channels in the input tensor.
- `fill_mode`: Points outside the boundaries of the input are filled according to the given mode (one of `{'constant', 'nearest', 'reflect', 'wrap'}`).
- `cval`: Value used for points outside the boundaries of the input if `mode='constant'`.

## Returns:

The transformed version of the input.

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