

## tf.contrib.image.transform

```
transform(  
    images,  
    transforms,  
    interpolation='NEAREST'  
)
```

Defined in [tensorflow/contrib/image/python/ops/image\\_ops.py](#).

Applies the given transform(s) to the image(s).

## Args:

- **images**: A tensor of shape (num\_images, num\_rows, num\_columns, num\_channels) (NHWC), (num\_rows, num\_columns, num\_channels) (HWC), or (num\_rows, num\_columns) (HW).
- **transforms**: Projective transform matrix/matrices. A vector of length 8 or tensor of size N x 8. If one row of transforms is [a0, a1, a2, b0, b1, b2, c0, c1], then it maps the *output* point (x, y) to a transformed *input* point (x', y') = ((a0 x + a1 y + a2) / k, (b0 x + b1 y + b2) / k), where k = c0 x + c1 y + 1. The transforms are *inverted* compared to the transform mapping input points to output points.
- **interpolation**: Interpolation mode. Supported values: "NEAREST", "BILINEAR".

## Returns:

Image(s) with the same type and shape as **images**, with the given transform(s) applied. Transformed coordinates outside of the input image will be filled with zeros.

## Raises:

- **TypeError**: If **image** is an invalid type.

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