

## tf.contrib.image.rotate

```
rotate(  
    images,  
    angles,  
    interpolation='NEAREST'  
)
```

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

Rotate image(s) by the passed angle(s) in radians.

## 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).
- **angles**: A scalar angle to rotate all images by, or (if images has rank 4) a vector of length num\_images, with an angle for each image in the batch.
- **interpolation**: Interpolation mode. Supported values: "NEAREST", "BILINEAR".

## Returns:

Image(s) with the same type and shape as **images**, rotated by the given angle(s). Empty space due to the rotation will be filled with zeros.

## Raises:

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

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