

## tf.keras.preprocessing.image.random\_shift

```
random_shift(  
    x,  
    wrg,  
    hrg,  
    row_axis=1,  
    col_axis=2,  
    channel_axis=0,  
    fill_mode='nearest',  
    cval=0.0  
)
```

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

Performs a random spatial shift of a Numpy image tensor.

## Arguments:

- `x`: Input tensor. Must be 3D.
- `wrg`: Width shift range, as a float fraction of the width.
- `hrg`: Height shift range, as a float fraction of the height.
- `row_axis`: Index of axis for rows in the input tensor.
- `col_axis`: Index of axis for columns in the input tensor.
- `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:

Shifted Numpy image tensor.

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