

tf.image.per_image_standardization

```
per_image_standardization(image)
```

Defined in [tensorflow/python/ops/image_ops_impl.py](#).

See the guide: [Images > Image Adjustments](#)

Linearly scales `image` to have zero mean and unit norm.

This op computes $(x - \text{mean}) / \text{adjusted_stddev}$, where `mean` is the average of all values in `image`, and `adjusted_stddev = max(stddev, 1.0/sqrt(image.NumElements()))`.

`stddev` is the standard deviation of all values in `image`. It is capped away from zero to protect against division by 0 when handling uniform images.

Args:

- `image`: 3-D tensor of shape `[height, width, channels]`.

Returns:

The standardized image with same shape as `image`.

Raises:

- `ValueError`: if the shape of 'image' is incompatible with this function.

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