Module: tf.image

Defined in `tensorflow/python/ops/image_ops.py`.

Image processing and decoding ops.

See the Images guide.

Classes

`class ResizeMethod`

Functions

`adjust_brightness(...)`: Adjust the brightness of RGB or Grayscale images.

`adjust_contrast(...)`: Adjust contrast of RGB or grayscale images.

`adjust_gamma(...)`: Performs Gamma Correction on the input image.

`adjust_hue(...)`: Adjust hue of an RGB image.

`adjust_saturation(...)`: Adjust saturation of an RGB image.

`central_crop(...)`: Crop the central region of the image.

`convert_image_dtype(...)`: Convert `image` to `dtype`, scaling its values if needed.

`crop_and_resize(...)`: Extracts crops from the input image tensor and bilinearly resizes them (possibly

`crop_to_bounding_box(...)`: Crops an image to a specified bounding box.

`decode_and_crop_jpeg(...)`: Decode and Crop a JPEG-encoded image to a uint8 tensor.

`decode_bmp(...)`: Decode the first frame of a BMP-encoded image to a uint8 tensor.

`decode_gif(...)`: Decode the first frame of a GIF-encoded image to a uint8 tensor.

`decode_image(...)`: Convenience function for `decode_bmp`, `decode_gif`, `decode_jpeg`,

`decode_jpeg(...)`: Decode a JPEG-encoded image to a uint8 tensor.

`decode_png(...)`: Decode a PNG-encoded image to a uint8 or uint16 tensor.

`draw_bounding_boxes(...)`: Draw bounding boxes on a batch of images.

`encode_jpeg(...)`: JPEG-encode an image.

`encode_png(...)`: PNG-encode an image.

`extract_glimpse(...)` : Extracts a glimpse from the input tensor.

`extract_jpeg_shape(...)` : Extract the shape information of a JPEG-encoded image.

`flip_left_right(...)` : Flip an image horizontally (left to right).

`flip_up_down(...)` : Flip an image vertically (upside down).

`grayscale_to_rgb(...)` : Converts one or more images from Grayscale to RGB.

`hsv_to_rgb(...)` : Convert one or more images from HSV to RGB.

`non_max_suppression(...)` : Greedily selects a subset of bounding boxes in descending order of score.

`pad_to_bounding_box(...)` : Pad `image` with zeros to the specified `height` and `width`.

`per_image_standardization(...)` : Linearly scales `image` to have zero mean and unit norm.

`random_brightness(...)` : Adjust the brightness of images by a random factor.

`random_contrast(...)` : Adjust the contrast of an image by a random factor.

`random_flip_left_right(...)` : Randomly flip an image horizontally (left to right).

`random_flip_up_down(...)` : Randomly flips an image vertically (upside down).

`random_hue(...)` : Adjust the hue of an RGB image by a random factor.

`random_saturation(...)` : Adjust the saturation of an RGB image by a random factor.

`resize_area(...)` : Resize `images` to `size` using area interpolation.

`resize_bicubic(...)` : Resize `images` to `size` using bicubic interpolation.

`resize_bilinear(...)` : Resize `images` to `size` using bilinear interpolation.

`resize_image_with_crop_or_pad(...)` : Crops and/or pads an image to a target width and height.

`resize_images(...)` : Resize `images` to `size` using the specified `method`.

`resize_nearest_neighbor(...)` : Resize `images` to `size` using nearest neighbor interpolation.

`rgb_to_grayscale(...)` : Converts one or more images from RGB to Grayscale.

`rgb_to_hsv(...)` : Converts one or more images from RGB to HSV.

`rot90(...)` : Rotate an image counter-clockwise by 90 degrees.

`sample_distorted_bounding_box(...)` : Generate a single randomly distorted bounding box for an image.

`total_variation(...)` : Calculate and return the total variation for one or more images.

`transpose_image(...)` : Transpose an image by swapping the first and second dimension.

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