tf.image.decode_image

```
decode_image(
    contents,
    channels=None,
    name=None
)
```

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

See the guide: Images > Encoding and Decoding

Convenience function for `decode_bmp`, `decode_gif`, `decode_jpeg`, and `decode_png`.

Detects whether an image is a BMP, GIF, JPEG, or PNG, and performs the appropriate operation to convert the input bytes `string` into a `Tensor` of type `uint8`.

> ★ **Note:** `decode_gif` returns a 4-D array `[num_frames, height, width, 3]`, as opposed to `decode_bmp`, `decode_jpeg` and `decode_png`, which return 3-D arrays `[height, width, num_channels]`. Make sure to take this into account when constructing your graph if you are intermixing GIF files with BMP, JPEG, and/or PNG files.

Args:

- `contents`: 0-D `string`. The encoded image bytes.
- `channels`: An optional `int`. Defaults to `0`. Number of color channels for the decoded image.
- `name`: A name for the operation (optional)

Returns:

`Tensor` with type `uint8` with shape `[height, width, num_channels]` for BMP, JPEG, and PNG images and shape `[num_frames, height, width, 3]` for GIF images.

Raises:

- `ValueError`: On incorrect number of channels.

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