

## tf.image.decode\_png

```
decode_png(  
    contents,  
    channels=0,  
    dtype=tf.uint8,  
    name=None  
)
```

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

See the guide: [Images > Encoding and Decoding](#)

Decode a PNG-encoded image to a uint8 or uint16 tensor.

The attr `channels` indicates the desired number of color channels for the decoded image.

Accepted values are:

- 0: Use the number of channels in the PNG-encoded image.
- 1: output a grayscale image.
- 3: output an RGB image.
- 4: output an RGBA image.

If needed, the PNG-encoded image is transformed to match the requested number of color channels.

This op also supports decoding JPEGs and non-animated GIFs since the interface is the same, though it is cleaner to use `tf.image.decode_image`.

### Args:

- `contents`: A `Tensor` of type `string`. 0-D. The PNG-encoded image.
- `channels`: An optional `int`. Defaults to `0`. Number of color channels for the decoded image.
- `dtype`: An optional `tf.DType` from: `tf.uint8`, `tf.uint16`. Defaults to `tf.uint8`.
- `name`: A name for the operation (optional).

### Returns:

A `Tensor` of type `dtype`. 3-D with shape `[height, width, channels]`.

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