tf.summary.image

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```
image(
    name,
    tensor,
    max_outputs=3,
    collections=None
)
```

Defined in tensorflow/python/summary.py

(https://www.github.com/tensorflow/tensorflow/blob/r1.2/tensorflow/python/summary/summary.py).

See the guide: Summary Operations > Generation of Summaries

(https://www.tensorflow.org/api_guides/python/summary#Generation_of_Summaries)

Outputs a Summary protocol buffer with images.

The summary has up to max_outputs summary values containing images. The images are built from tensor which must be 4-D with shape [batch_size, height, width, channels] and where channels can be:

- 1: tensor is interpreted as Grayscale.
- 3: tensor is interpreted as RGB.
- 4: tensor is interpreted as RGBA.

The images have the same number of channels as the input tensor. For float input, the values are normalized one image at a time to fit in the range [0, 255]. uint8 values are unchanged. The op uses two different normalization algorithms:

- If the input values are all positive, they are rescaled so the largest one is 255.
- If any input value is negative, the values are shifted so input value 0.0 is at 127. They are then rescaled so that either the smallest value is 0, or the largest one is 255.

The tag in the outputted Summary. Value protobufs is generated based on the name, with a suffix depending on the max_outputs setting:

- If max_outputs is 1, the summary value tag is 'name/image'.
- If max_outputs is greater than 1, the summary value tags are generated sequentially as 'name/image/0', 'name/image/1', etc.

Args:

- name: A name for the generated node. Will also serve as a series name in TensorBoard.
- tensor: A 4-D uint8 or float32 Tensor of shape [batch_size, height, width, channels] where channels is 1, 3, or 4.
- max_outputs: Max number of batch elements to generate images for.
- **collections**: Optional list of ops.GraphKeys. The collections to add the summary to. Defaults to [_ops.GraphKeys.SUMMARIES]

Returns:

A scalar Tensor of type string. The serialized Summary protocol buffer.

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上次更新日期: 六月15,2017