

tf.summary.tensor_summary

```
tensor_summary(  
    name,  
    tensor,  
    summary_description=None,  
    collections=None,  
    summary_metadata=None,  
    family=None,  
    display_name=None  
)
```

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

See the guide: [Summary Operations > Generation of Summaries](#)

Outputs a **Summary** protocol buffer with a serialized tensor.proto.

Args:

- **name** : A name for the generated node. If **display_name** is not set, it will also serve as the tag name in TensorBoard. (In that case, the tag name will inherit tf name scopes.)
- **tensor** : A tensor of any type and shape to serialize.
- **summary_description** : A long description of the summary sequence. Markdown is supported.
- **collections** : Optional list of graph collections keys. The new summary op is added to these collections. Defaults to **[GraphKeys.SUMMARIES]**.
- **summary_metadata** : Optional SummaryMetadata proto (which describes which plugins may use the summary value).
- **family** : Optional; if provided, used as the prefix of the summary tag, which controls the name used for display on TensorBoard when **display_name** is not set.
- **display_name** : A string used to name this data in TensorBoard. If this is not set, then the node name will be used instead.

Returns:

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

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