TensorFlow

# tf.parse_single_example

```
parse_single_example(
    serialized,
    features,
    name=None,
    example_names=None
)
```

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

See the guides: Inputs and Readers > Converting, Reading data > Reading from files

Parses a single `Example` proto.

Similar to `parse_example` , except:

For dense tensors, the returned `Tensor` is identical to the output of `parse_example` , except there is no batch dimension, the output shape is the same as the shape given in `dense_shape` .

For `SparseTensor` s, the first (batch) column of the indices matrix is removed (the indices matrix is a column vector), the values vector is unchanged, and the first ( `batch_size` ) entry of the shape vector is removed (it is now a single element vector).

One might see performance advantages by batching `Example` protos with `parse_example` instead of using this function directly.

## Args:

- `serialized` : A scalar string Tensor, a single serialized Example. See `_parse_single_example_raw` documentation for more details.
- `features` : A `dict` mapping feature keys to `FixedLenFeature` or `VarLenFeature` values.
- `name` : A name for this operation (optional).
- `example_names` : (Optional) A scalar string Tensor, the associated name. See `_parse_single_example_raw` documentation for more details.

## Returns:

A `dict` mapping feature keys to `Tensor` and `SparseTensor` values.

## Raises:

- `ValueError` : if any feature is invalid.

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