

## tf.train.string\_input\_producer

```
string_input_producer(  
    string_tensor,  
    num_epochs=None,  
    shuffle=True,  
    seed=None,  
    capacity=32,  
    shared_name=None,  
    name=None,  
    cancel_op=None  
)
```

Defined in [tensorflow/python/training/input.py](#).

See the guides: [Inputs and Readers > Input pipeline](#), [Reading data > Reading from files](#)

Output strings (e.g. filenames) to a queue for an input pipeline.

★ **Note:** if `num_epochs` is not `None`, this function creates local counter epochs. Use `local_variables_initializer()` to initialize local variables.

### Args:

- `string_tensor`: A 1-D string tensor with the strings to produce.
- `num_epochs`: An integer (optional). If specified, `string_input_producer` produces each string from `string_tensor` `num_epochs` times before generating an `OutOfRange` error. If not specified, `string_input_producer` can cycle through the strings in `string_tensor` an unlimited number of times.
- `shuffle`: Boolean. If true, the strings are randomly shuffled within each epoch.
- `seed`: An integer (optional). Seed used if `shuffle == True`.
- `capacity`: An integer. Sets the queue capacity.
- `shared_name`: (optional). If set, this queue will be shared under the given name across multiple sessions. All sessions open to the device which has this queue will be able to access it via the `shared_name`. Using this in a distributed setting means each name will only be seen by one of the sessions which has access to this operation.
- `name`: A name for the operations (optional).
- `cancel_op`: Cancel op for the queue (optional).

### Returns:

A queue with the output strings. A `QueueRunner` for the Queue is added to the current `Graph`'s `QUEUE_RUNNER` collection.

### Raises:

- `ValueError`: If the `string_tensor` is a null Python list. At runtime, will fail with an assertion if `string_tensor` becomes a null tensor.

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