

## tf.train.StepCounterHook

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## Class `StepCounterHook`

Inherits From: [SessionRunHook](#)

Defined in [tensorflow/python/training/basic\\_session\\_run\\_hooks.py](#).

See the guide: [Training > Training Hooks](#)

Hook that counts steps per second.

## Methods

### `__init__`

```
__init__(
    every_n_steps=100,
    every_n_secs=None,
    output_dir=None,
    summary_writer=None
)
```

### `after_create_session`

```
after_create_session(
    session,
    coord
)
```

Called when new TensorFlow session is created.

This is called to signal the hooks that a new session has been created. This has two essential differences with the situation in which `begin` is called:

- When this is called, the graph is finalized and ops can no longer be added to the graph.
- This method will also be called as a result of recovering a wrapped session, not only at the beginning of the overall session.

Args:

- `session` : A TensorFlow Session that has been created.
- `coord` : A Coordinator object which keeps track of all threads.

## after\_run

```
after_run(  
    run_context,  
    run_values  
)
```

## before\_run

```
before_run(run_context)
```

## begin

```
begin()
```

## end

```
end(session)
```

Called at the end of session.

The `session` argument can be used in case the hook wants to run final ops, such as saving a last checkpoint.

If `session.run()` raises exception other than `OutOfRangeError` or `StopIteration` then `end()` is not called. Note the difference between `end()` and `after_run()` behavior when `session.run()` raises `OutOfRangeError` or `StopIteration`. In that case `end()` is called but `after_run()` is not called.

## Args:

- `session` : A TensorFlow Session that will be soon closed.

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