

tf.train.LoggingTensorHook

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Class `LoggingTensorHook`

Inherits From: `SessionRunHook`

Defined in `tensorflow/python/training/basic_session_run_hooks.py`.

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

Prints the given tensors every N local steps, every N seconds, or at end.

The tensors will be printed to the log, with `INFO` severity. If you are not seeing the logs, you might want to add the following line after your imports:

```
tf.logging.set_verbosity(tf.logging.INFO)
```

Note that if `at_end` is True, `tensors` should not include any tensor whose evaluation produces a side effect such as consuming additional inputs.

Methods

`__init__`

```
__init__(
    tensors,
    every_n_iter=None,
    every_n_secs=None,
    at_end=False,
    formatter=None
)
```

Initializes a `LoggingTensorHook`.

Args:

- `tensors`: `dict` that maps string-valued tags to tensors/tensor names, or `iterable` of tensors/tensor names.
- `every_n_iter`: `int`, print the values of `tensors` once every N local steps taken on the current worker.
- `every_n_secs`: `int` or `float`, print the values of `tensors` once every N seconds. Exactly one of `every_n_iter` and `every_n_secs` should be provided.

- `at_end`: `bool` specifying whether to print the values of `tensors` at the end of the run.
- `formatter`: function, takes dict of `tag -> Tensor` and returns a string. If `None` uses default printing all tensors.

Raises:

- `ValueError`: if `every_n_iter` is non-positive.

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)
```

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