

used for all embedding layers, a single filename can be passed.

Examples

Basic usage:

```
tensorboard_callback = tf.keras.callbacks.TensorBoard(log_dir="./logs")
model.fit(x_train, y_train, epochs=2, callbacks=[tensorboard_callback])
# Then run the tensorboard command to view the visualizations.
```

Custom batch-level summaries in a subclassed Model:

```
class MyModel(tf.keras.Model):

    def build(self, _):
        self.dense = tf.keras.layers.Dense(10)

    def call(self, x):
        outputs = self.dense(x)
        tf.summary.histogram('outputs', outputs)
        return outputs

model = MyModel()
model.compile('sgd', 'mse')

# Make sure to set `update_freq=N` to log a batch-level summary every N batches.
# In addition to any [`tf.summary`](https://www.tensorflow.org/api_docs/python/tf/summary)
# contained in `Model.call`, metrics added in
# `Model.compile` will be logged every N batches.
tb_callback = tf.keras.callbacks.TensorBoard('./logs', update_freq=1)
model.fit(x_train, y_train, callbacks=[tb_callback])
```

Custom batch-level summaries in a Functional API Model:

```
def my_summary(x):
    tf.summary.histogram('x', x)
    return x

inputs = tf.keras.Input(10)
x = tf.keras.layers.Dense(10)(inputs)
outputs = tf.keras.layers.Lambda(my_summary)(x)
model = tf.keras.Model(inputs, outputs)
model.compile('sgd', 'mse')

# Make sure to set `update_freq=N` to log a batch-level summary every N batches.
# In addition to any [`tf.summary`](https://www.tensorflow.org/api_docs/python/tf/summary)
# contained in `Model.call`, metrics added in
# `Model.compile` will be logged every N batches.
tb_callback = tf.keras.callbacks.TensorBoard('./logs', update_freq=1)
model.fit(x_train, y_train, callbacks=[tb_callback])
```

Profiling:

```
# Profile a single batch, e.g. the 5th batch.
tensorboard_callback = tf.keras.callbacks.TensorBoard(
    log_dir='./logs', profile_batch=5)
model.fit(x_train, y_train, epochs=2, callbacks=[tensorboard_callback])

# Profile a range of batches, e.g. from 10 to 20.
tensorboard_callback = tf.keras.callbacks.TensorBoard(
    log_dir='./logs', profile_batch=(10,20))
model.fit(x_train, y_train, epochs=2, callbacks=[tensorboard_callback])
```