

✔ **Congratulations! You passed!**

Grade received **100%** To pass 80% or higher

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Week 3 Quiz

Latest Submission Grade 100%

1. If you want to track training data, such as accuracy and loss and visualize it on TensorBoard, what programming pattern would you use?

1 / 1 point

- ☐ Store them in a database and point TensorBoard at that DB
- ☐ It just happens automatically
- ☒ Store them in a log file and use epoch-by-epoch callbacks to update it. Have Tensorboard read that log file
- ☐ Store them in a log file, and at the end of the training, pass that to TensorBoard

✔ **Correct**

2. If you are using a callback to manage logging of data for TensorBoard, where would you specify it?

1 / 1 point

- ☐ When you design the model
- ☐ While preprocessing the data
- ☐ After you're done training
- ☒ During the model.fit process

✔ **Correct**

3. What's the name of the class in TensorFlow that handles and manages logging to TensorBoard?

1 / 1 point

- ☐ tf.logs.TensorBoard.callback
- ☐ tf.TensorBoard.callback
- ☒ tf.keras.callbacks.TensorBoard
- ☐ tf.keras.TensorBoard.callbacks

✔ **Correct**

4. How do you get a histogram plotting each epoch in your training?

1 / 1 point

- ☐ Set use_histogram=true and histogram_freq=1
- ☐ Set use_histogram=true
- ☐ Set histogram_freq=all
- ☒ Set histogram_freq=1

✔ **Correct**

5. If you want to upload your logs to tensorboard.dev to share with others, what command do you use?

1 / 1 point

- ☐ tensorboard upload --logdir ./logs
- ☐ tensorboard dev --logdir ./logs
- ☒ tensorboard dev upload --logdir ./logs
- ☐ tensorboard upload dev --logdir ./logs

✔ **Correct**

6. When you share your logs on tensorboard.dev, what is the URL signature that you share with others?

1 / 1 point

- ☐ tensorboard.dev/[code]
- ☐ tensorboard.dev/logs/[code]
- ☒ tensorboard.dev/experiment/[code]

☐ tensorboard.dev/board/[code]

☒ Correct

7. If you want to write an image to logs for TensorBoard to represent it, what API call should you use?

1 / 1 point

- ☐ tf.summary.write_image() - with image as a parameter
- ☐ image.write(tf.summary.TensorBoard)
- ☐ tf.summary() - with image as a parameter
- ☒ tf.summary.image() -- with image as a parameter

☒ Correct

8. If you have written logs (including images and more) to logs/train_data, and want to inspect them with TensorBoard, what's the command to use?

1 / 1 point

- ☐ %tensorboard --dir logs/train_data
- ☐ %tensorboard --logs logs/train_data
- ☒ %tensorboard --logdir logs/train_data
- ☐ %tensorboard --logdir train_data

☒ Correct

9. If you want to create a simple, custom, callback on-the-fly, what API would you use?

1 / 1 point

- ☒ tf.keras.callbacks.LambdaCallback
- ☐ tf.keras.callbacks.Dynamic
- ☐ tf.keras.callbacks.Simple
- ☐ tf.keras.callbacks.Lambda

☒ Correct

10. Which module in TensorFlow provides APIs to store data that TensorBoard and other tools can use?

1 / 1 point

- ☒ tf.summary
- ☐ tf.data
- ☐ tf.debug
- ☐ tf.logs

☒ Correct