3.5 Assignment Solution

For this assignment you needed to input a few hyper-parameters for the model training. A possible solution is below but any combination of 2-4 words from the list provided in the comment should have done reasonably well (and more words might have worked too although after a point the small model may have started to struggle). For training steps, the longer you trained, the better the accuracy should have gotten, up to a point, and then you may have found that the model started to overfit. As for the learning rate, if it was too high the training most likely failed due to divergence, and if it was too low the training likely failed because it didn't make much progress. However, values somewhat close to the default settings should have worked reasonably well.

```
WANTED_WORDS = "yes,no"
TRAINING_STEPS = "12000,3000"
LEARNING_RATE = "0.001,0.0001"
```

This assignment was mostly designed to give you experience with the full training pipeline and flow to prepare you for Course 3 where we will be training on your own custom data and deploying the model to your own hardware. Now is the time to make sure you understand the full flow well so you are in a better position to debug later when things get more complicated.

We hope you had some fun picking some words and getting to see the model learn based on your choices! We hope you also had fun trying to trick it with custom input! As always you'll find the link to the assignment again below in case you want to explore it a bit more!

https://colab.research.google.com/github/tinyMLx/colabs/blob/master/3-5-18-TrainingKeywordSpotting.ipynb