Google Colab setup for tfod

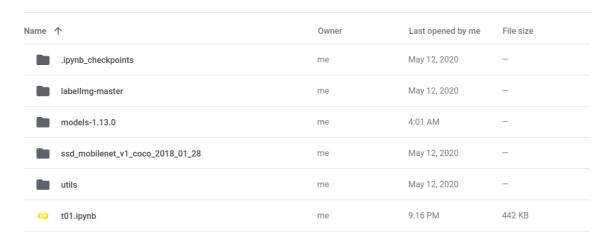
Steps to start training in Google Colab for tfod-

STEP 1. Do all the necessary steps shown on the previous page in your local system except the last step where training starts-



STEP 2. Move whole tfod folder to your google drive.

verify that it should have atleast the below content-





I'm using the ssd_mobilenet_v1_coco model that's I have ssd_mobilenet_v1_coco folder in the screenshot. You can upload your choice of the model there.



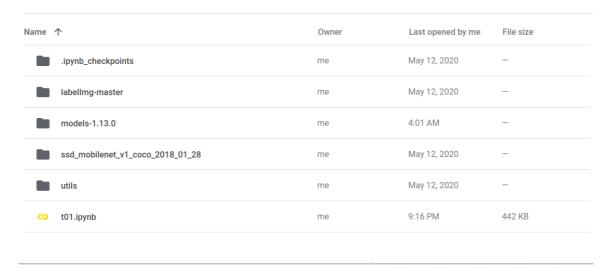
Since you have already done thod set up in your local system and already copied utils and your model zoo folder (i.e ssd_mobilenet_v1_coco in my case).

So if you want then you can only upload models-1.13.0, folder instead of all of them.

Here I have uploaded all of them just to replicate the exact same steps in local and Google Colab.

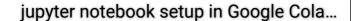
STEP 3. Open a jupyter notebook in the root of your folder structure. I mean just inside the tfod folder.

As you can see in the below screenshot you can see t01.ipynb.



STEP 4. Mount the drive in Colab and initialize it with GPU.

Refer the following video -





STEP 5. In the first cell run the following command so that it selects TensorFlow 1 for the training-

```
%tensorflow_version 1.x
```

STEP 6. In the notebook import os. And set a path to the research directory in a Variable as per your google drive.

```
import os
RESEARCH_DIR = "/content/drive/My Drive/PATH_TO_TFOD/tfod/models-
1.13.0/research"
```

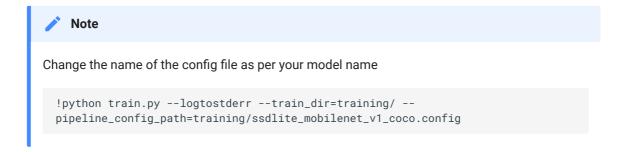
STEP 7. Run the following line to change the directory-

```
os.chdir(RESEARCH_DIR)
```

STEP 8. Run the following line to verify that you are in the research folder-

```
os.getcwd()
```

STEP 9. Now run the training command to start the training in Google Colab-

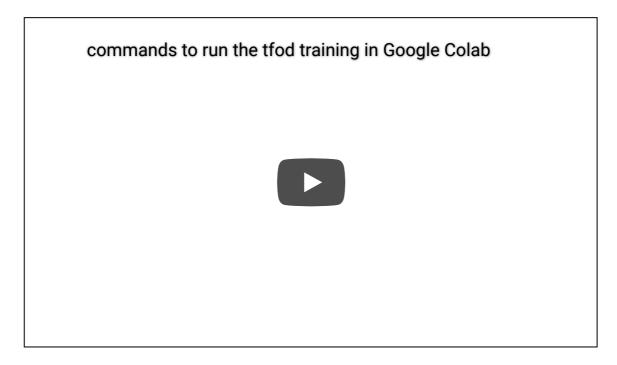


STEP 10. Copy and paste following code in your browser console to prevent Google Colab from terminating-

JS code¹-

```
function ClickConnect(){
console.log("Working");
document.querySelector("colab-toolbar-button").click()
}setInterval(ClickConnect,60000)
```

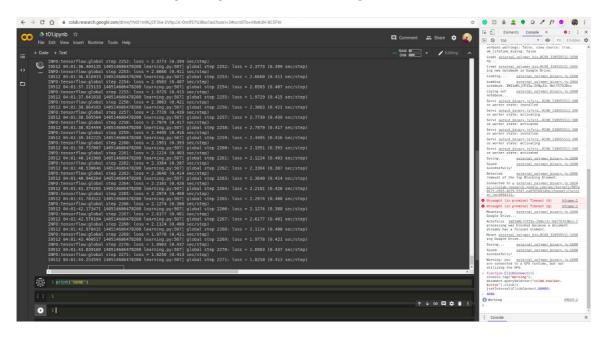
Refer the video below for final setup -



Screenshot of Google Colab code-



Screenshot of begining of final training-



1. "How to prevent Google Colab from disconnecting?" | MEDIUM BLOG ←