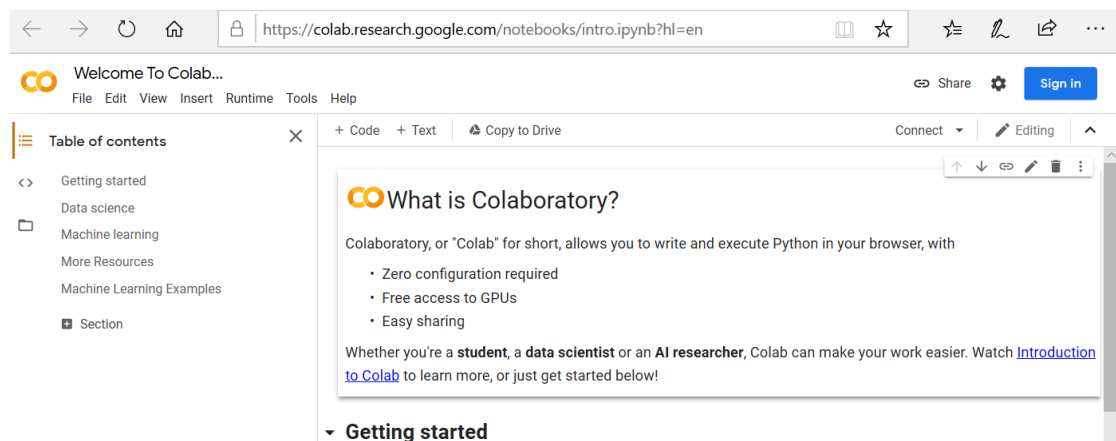# How to use Google Colab

- **Why we need Google Colab**

  Want to start Machine learning, but limit to the computer. Now, Google Colab can give you a hand.

  Follow the step, I help that you can get familiar with the Google Colab.

- **Using python to run CNN in Google Colab.**

  - **Step 1**: Go to https://colab.research.google.com/?hl=en . I advise you to use **Google Chrome** to open this link.
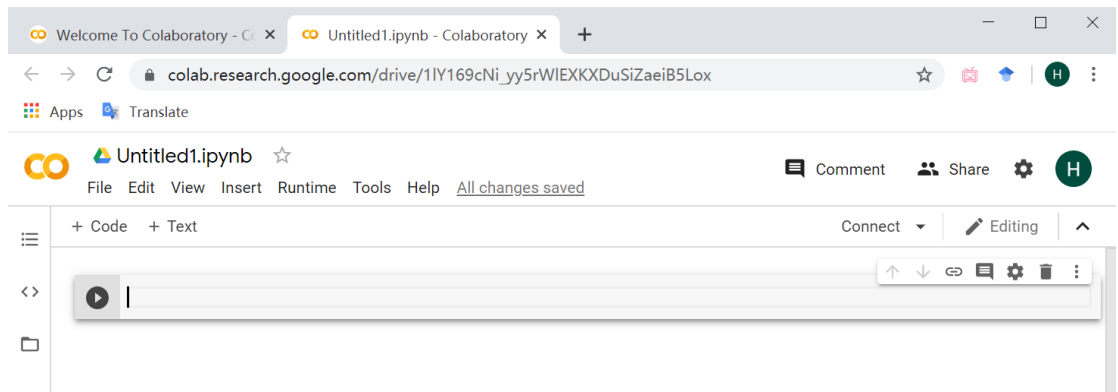

  - **Step 2**: Sign in with you google account (top right corner). Create a google account if you do not have one.

  - **Step 3**: Create a new Python 3 notebook by selecting "File" → "New notebook".
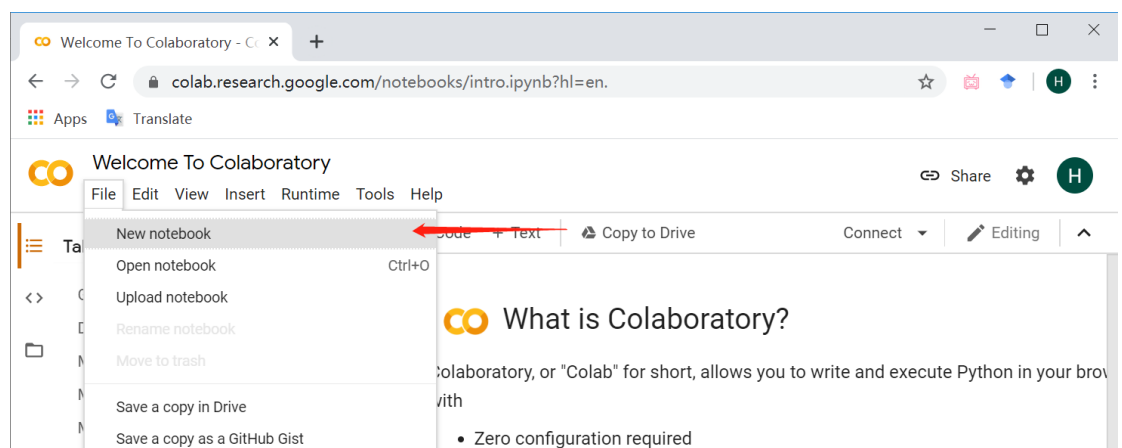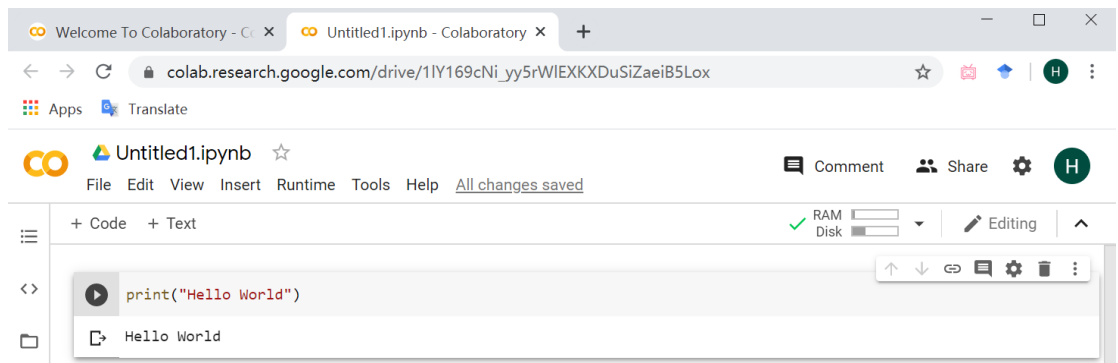
➢ **Step 4**: You can add a code cell by clicking the "+Code". You can add a text to illustrate the code by clicking "+Text.

➢ **Step 5**: Run the following code to print "Hello World".

➢ **Step 6**: Use **GPU** by selecting "Edit" → "Notebook settings". Change the hardware accelerator from "None" to "GPU" and then save it. Then, you can run the code by **GPU**.

➢ **Step 7**: Using python to run **CNN** for recognize **MNIST** in **Google Colab**. Download the code from my GitHub: https://github.com/Huafeng-XU/CNN-Mnist-in-Google-Colab/blob/master/CnnForMnist.py . Copy and paste it in the code space. Then you can run it to get the result.
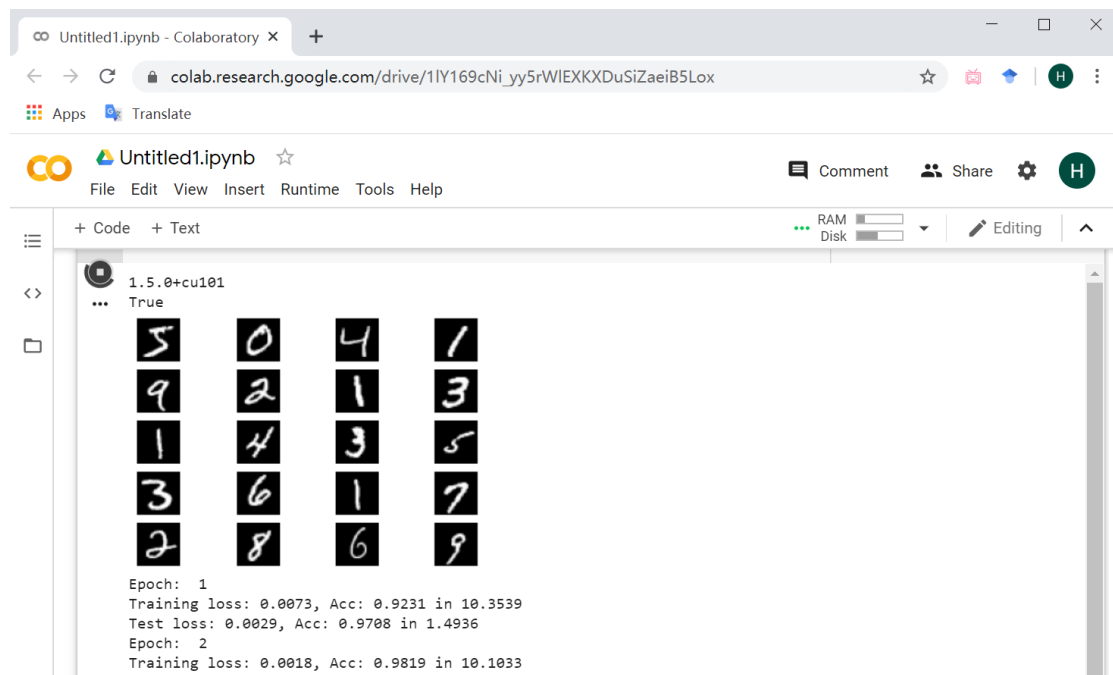
Reference:

[1]. Pattern Recognition: Theory & Application Pro.Kennetth K.M.Lam.