COMP3057

Overview of PyTorch and CoLab

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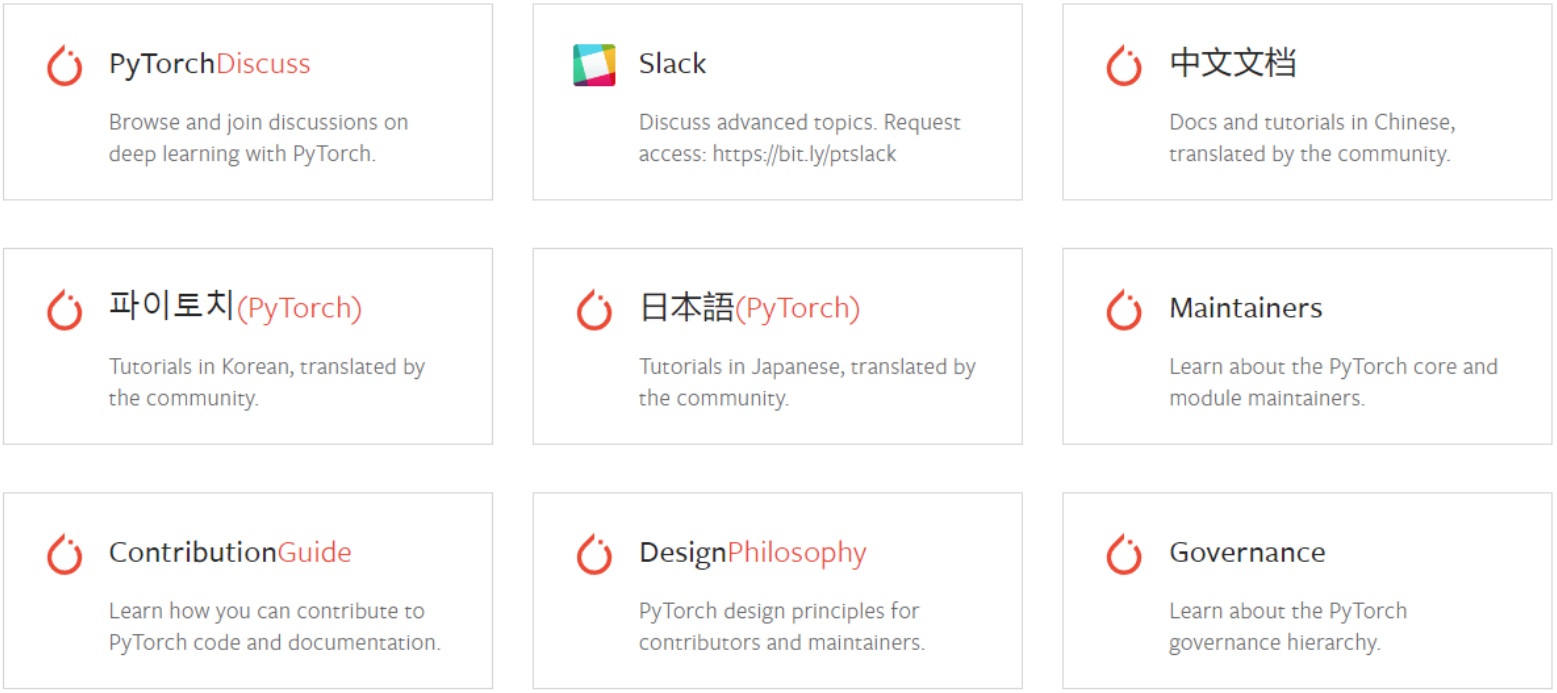
Introduction to AI platform

- Caffe: Developed by UC Berkeley, written in C++ with Python interface. No one use it.
- Tensorflow: Developed by Google. Deploy the ML model using Python
- Torch: Created by EPFL in lua. My first Deep Learning Platform! No one use it and update it.
- Pytorch: Created by Facebook based on Torch. Very popular now.
- Mindspore: Created by Huawei. Looks similar to Pytorch. HUAWEI uses it.
- PaddlePaddle: Created by Baidu. Baidu likes it but no one uses it.
- Google JAX: Created by Google, which uses it very often in their own papers. No one uses them at this moment.

PyTorch

- People all over the world are using it for research.



PyTorch

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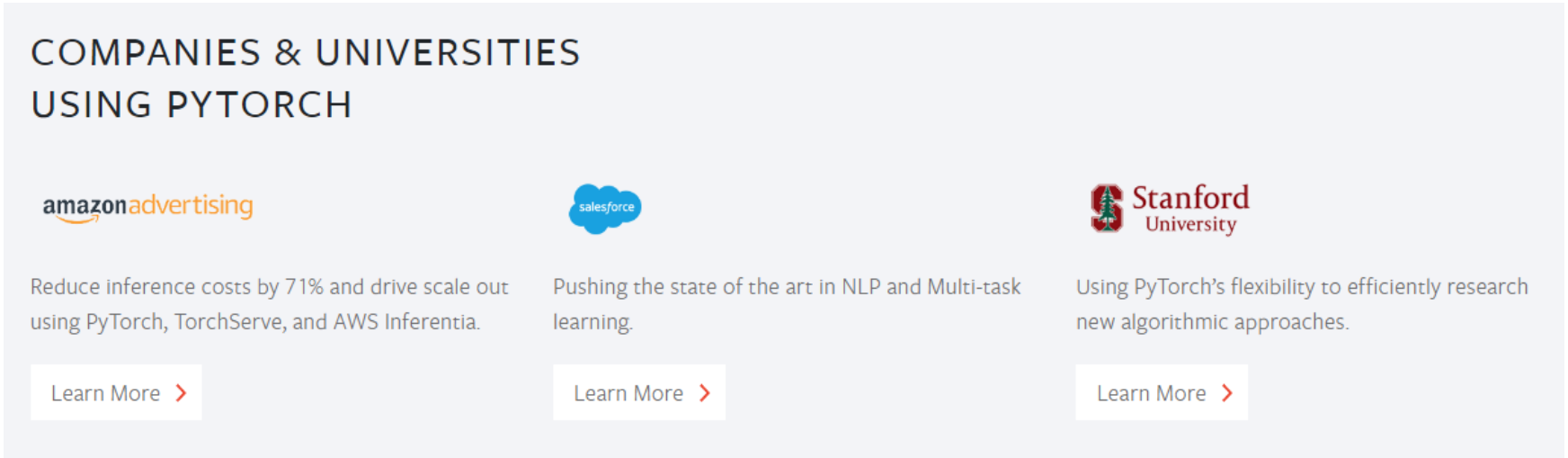
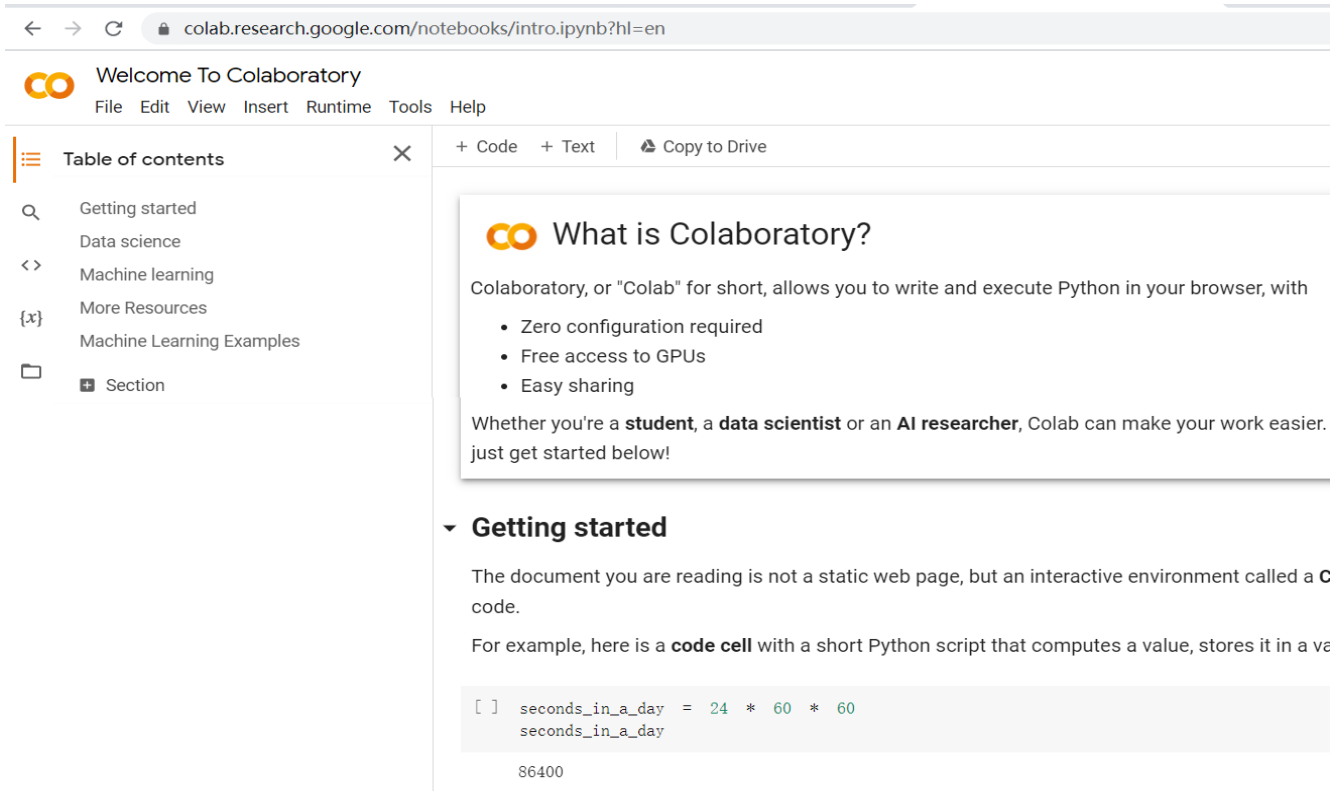


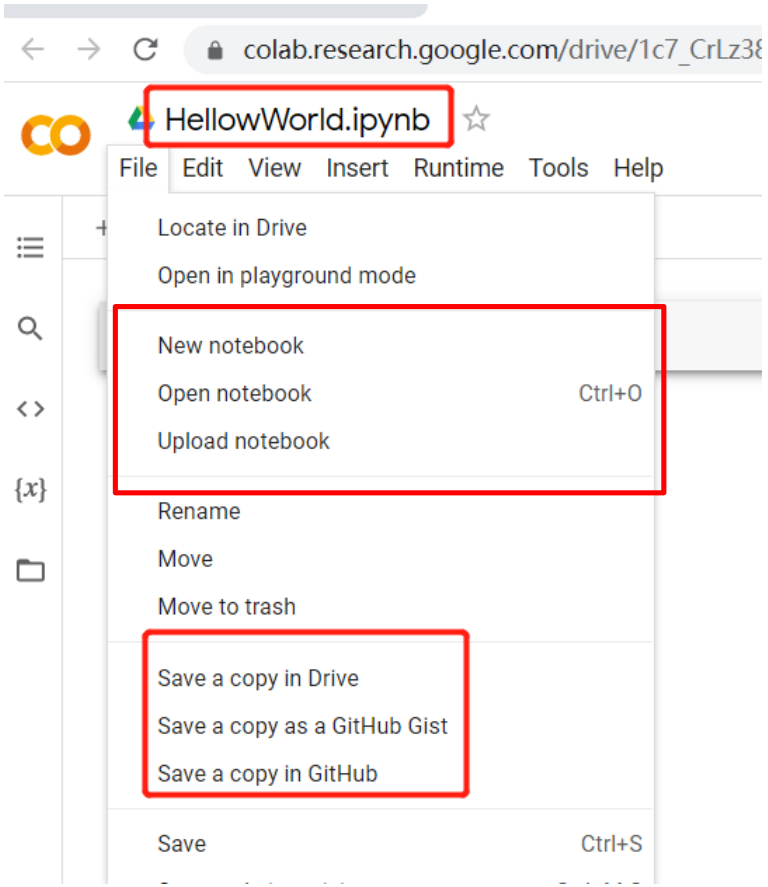
PyTorch in Google Colab

- We use Colab for teaching. You are free to try any platforms you like.

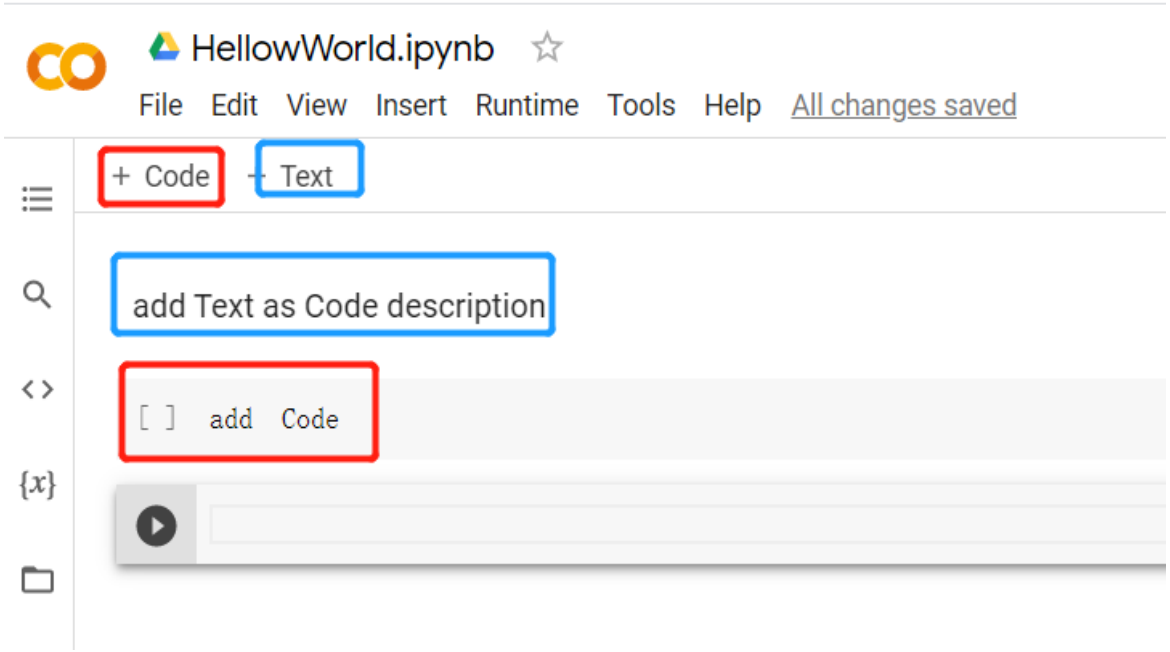


PyTorch in Google Colab

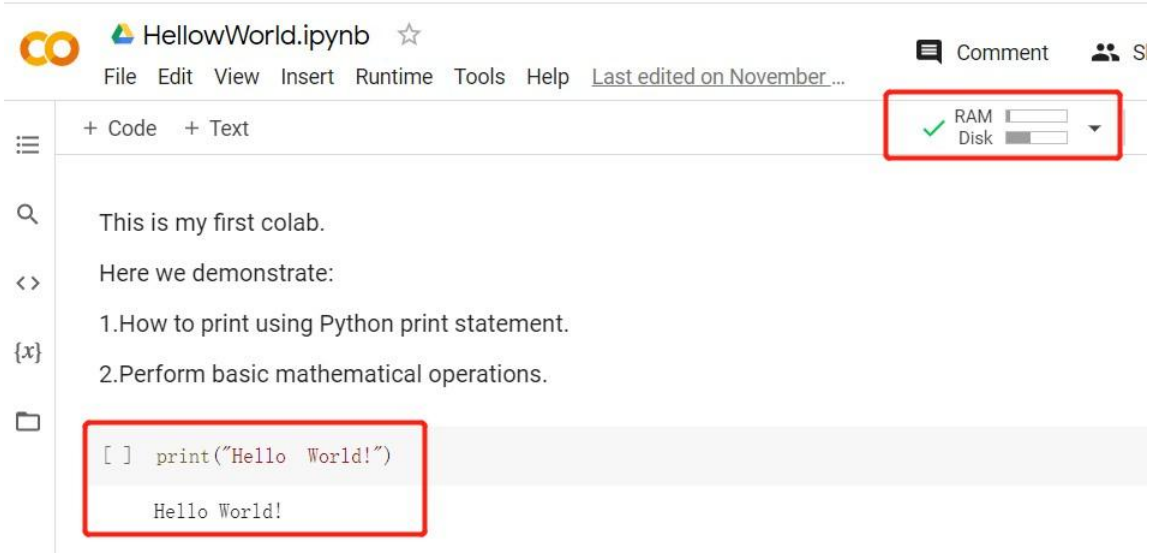
- Create a new file in Colab
- Name it as HelloWorld.ipynb
- Click Open notebook
- Let us write something



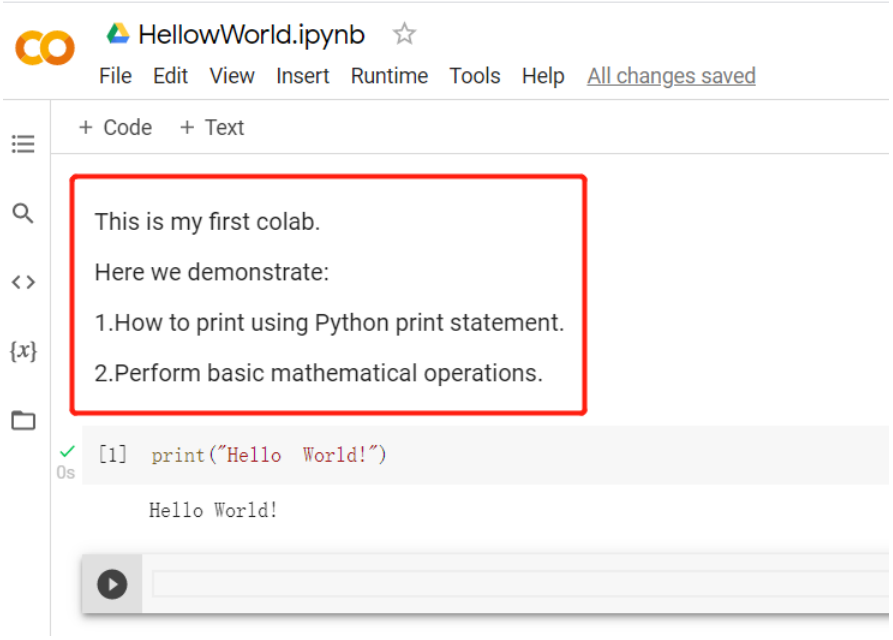
PyTorch in Google Colab



PyTorch in Google Colab



PyTorch in Google Colab



PyTorch in Google Colab