

# Lab-setup instructions troubleshooter

## 04/11/2020

In this file, we present a list of common issues encountered by the students and possible solutions. This is not an exhaustive list, and we will need your help to make it as complete as possible.

In general, if you have any issues with Python on your computer, and you cannot manage to solve it then the fastest fix is to use Google Colab.

See the link: <https://colab.research.google.com/>

## Issues with Anaconda

Check the list of errors below. In case you do not manage to solve your issue, and you already have tried to reinstall Anaconda, then you may try to use the PIP installer. Check the HOW TO USE PIP section.

Alternatively, you can program on the cloud (use Google Colab). See the link: <https://colab.research.google.com/>

### LIST OF ERRORS

1. "ERROR conda.core.link:\_execute(698): An error occurred while installing package 'conda-forge::qt'"
  - a. Check the following links
    - i. <https://stackoverflow.com/questions/57563352/error-installing-conda-packages-conda-core-link-execute696-an-error-occurre>
    - ii. <https://stackoverflow.com/questions/56826833/conda-error-on-update-conda-core-link-execute637-an-error-occurred-while-i>
    - iii. <https://stackoverflow.com/questions/8142058/chcp-is-not-recognized-as-an-internal-or-external-command-operable-program-or>
2. "CHCP" errors:
  - a. Check the following links
    - i. <https://stackoverflow.com/questions/47614437/unable-to-activate-conda-environment-as-chcp-and-cmd-is-not-recognized-as-in>
    - ii. <https://stackoverflow.com/questions/8142058/chcp-is-not-recognized-as-an-internal-or-external-command-operable-program-or>
3. "UnsatisfiableError: The following specifications were found to be incompatible with the existing python installation in your environment"
  - a. The solution is to read the error message. Most likely your version of python is too old or recent.

# Issues with Google Colab

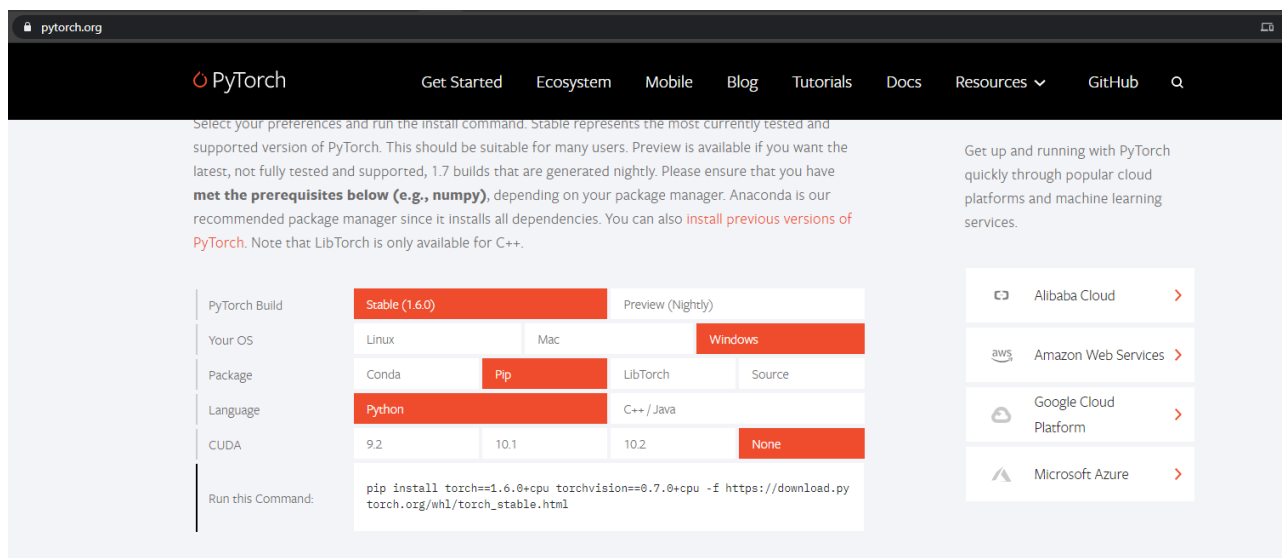
## LIST OF ERRORS

1. Can't execute "env.render()" or gym environment render on Google Colab:
  - a. You can't use the render() function on Google colab. You need to avoid using that command. If you want to see the "video" of the environment, then you need to run the code on your computer.

## HOW TO USE PIP

To use PIP:

1. Remove Anaconda
2. Install Python3 (version 3.4 atleast): <https://www.python.org/>
3. Install the libraries using the command "pip install NAMEOFTHELIBRARY" (like "pip install numpy").
4. Check the lab set up instruction pdf to see which libraries are needed.
  - a. "pip install conda install numpy jupyter matplotlib scipy jupyterlab ipywidgets nodejs tqdm gym pybox2d"
    - i. If you get any error check which library gives you the error
  - b. Check the install pytorch section at: <https://pytorch.org/> (check image below). Choose stable build, your OS, Pip package, Python language and NO Cuda (alternatively, if you have a GPU with CUDA you can choose the corresponding cuda version)



The screenshot shows the PyTorch website's installation guide. It features a navigation bar with links to 'Get Started', 'Ecosystem', 'Mobile', 'Blog', 'Tutorials', 'Docs', 'Resources', 'GitHub', and a search icon. The main content area is titled 'Select your preferences and run the install command.' and provides instructions on choosing between 'Stable' and 'Preview' builds, selecting an OS (Linux, Mac, Windows), a package manager (Conda, Pip, LibTorch, Source), a language (Python, C++ / Java), and a CUDA version (9.2, 10.1, 10.2, or None). A 'Run this Command:' section displays the specific pip install command for the selected configuration. On the right, there is a section titled 'Get up and running with PyTorch quickly through popular cloud platforms and machine learning services.' which lists cloud providers: Alibaba Cloud, Amazon Web Services, Google Cloud Platform, and Microsoft Azure, each with a corresponding icon and a right-pointing arrow.

PyTorch Build	Stable (1.6.0)	Preview (Nightly)		
Your OS	Linux	Mac	Windows	
Package	Conda	Pip	LibTorch	Source
Language	Python	C++ / Java		
CUDA	9.2	10.1	10.2	None

Run this Command:

```
pip install torch==1.6.0+cpu torchvision==0.7.0+cpu -f https://download.pytorch.org/whl/torch_stable.html
```