

# CS 639: Deep Learning for Computer Vision, Spring 2023

## Problem Set 0

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**Due: Tuesday, February 7<sup>nd</sup>, 11:59 PM**

### Instructions

1. Download the zipped assignment file from Canvas.
2. Once you unzip the downloaded content, please upload the folder to your Google Drive. Then, open each `*.ipynb` notebook file with Google Colab by right-clicking the `*.ipynb` file. No installation or setup is required. For more information, please see this tutorial on [using Colab](#).
3. Next, we recommend editing your `*.py` file on Google Colab, set the ipython notebook and the code side by side. Work through the notebook, executing cells and implementing the codes in the `*.py` file as indicated. You can save your work, both `*.ipynb` and `*.py`, in Google Drive (click “File” -> “Save”) and resume later if you don’t want to complete it all at once.
4. While working on the assignment, keep the following in mind:
  - The notebook and the python file have clearly marked blocks where you are expected to write code. **Do not write or modify any code outside of these blocks.**
  - **Do not add or delete cells from the notebook.** You may add new cells to perform scratch computations, but you should delete them before submitting your work.
  - **Run all cells, and do not clear out the outputs, before submitting.** You will only get credit for code that has been run.
5. Once you have completed a notebook, download the completed `uniqueid_PS0.zip` file, which is generated from your last cell of the `pytorch101.ipynb` file. Submit this to Canvas. Note that only one person from the group will need to do this.
6. **You may complete the assignment individually or with a partner (i.e., maximum group of 2 people). If you worked with a partner, provide the name of your partner in the `*.ipynb` file. We will be using MOSS to check instances of plagiarism/cheating.**

The goal of this assignment is for you to learn how to use [PyTorch](#) on [Google Colab](#) environment, so that you

- Develop proficiency with PyTorch tensors.
- Gain experience using notebooks on Google Colab.

The notebook `pytorch101.ipynb` will walk you through the basics of working with tensors in PyTorch. You are required to write code on `pytorch101.py`.

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This assignment is adapted from the Python and NumPy tutorials from Stanford CS 231n and CS 228.