[CS x476 - Fall 2021](#)
Project 3: Scene Recognition with Deep Learning

Setup:
1. Install [Miniconda](#). (If you already have Miniconda installed, you can skip this step)
2. Create a conda environment using the appropriate terminal and command.
   - On **Windows**, open the installed "Anaconda Powershell Prompt".
   - On **MacOS** and **Linux**, you can open a terminal window.
   - Modify and run the command in the terminal, replace the "<OS>" in the following command with your OS (Linux, Mac, Windows): conda env create -f cv_proj3_configs/cv_proj3_env_<OS>.yml
3. Check if the cv_proj3 environment has been created properly.
   - Run: conda env list
4. Activate the conda environment.
   - Run: conda activate cv_proj3
   - To deactivate it, run: conda deactivate
5. Install the project packages.
   - Run: pip install -e . inside the repo folder.
   - This is a good practice when setting up a new conda environment that may have pip requirements. It installs the repo as a package in the environment.
6. Open the jupyter notebook to work on the project.
   - Run: jupyter notebook ./cv_proj3_code/proj3.ipynb
7. Sometimes jupyter notebook couldn't find the conda environment automatically, to solve that you could optionally run python -m ipykernel install --user --name=cv_proj3. Then select the right kernel (cv_proj3) inside your jupyter notebook by clicking the "Kernel" tab at the top and select "Change kernel" in the menu.

Testing & Submission:
1. Ensure that all sanity checks are passing
   - Run: pytest cv_proj3_unit_tests inside the cv_proj3_code folder.
2. Compress your code into a zip for submission
   - Run: python zip_submission.py --gt_username <your_gt_username>
3. Submit the zip to Gradescope for the code part
   - NOTE: we have two separate assignments on Gradescope for Project 3 Code
     - (4476) Project 3 (code) – 40 pts total (can achieve 45/40 if all Extra Credits are solved)
     - (6476) Project 3 (code) – 45 pts total
   - If you are a **4476** student, submit to the (**4476**) assignment
   - If you are a **6476** student, submit to the (**6476**) assignment
   - 5pts will be deducted if you make submission to the wrong assignment
4. Save the PowerPoint as PDF and submit the PDF to Gradescope for the report part.