CPSC 340 Assignment Submission Instructions for 2020W2

1 The assignments

- The code and data for assignment `X` is in `aX.zip` on Canvas, under Files.
- Make sure to do the version of the assignment from the current semester.
- Modifications/updates/clarifications after the assignment is first put online will be marked in **red**. If there are major updates, I will announce them.

1.1 Groups

- You can work on your own or in a group of 2.
- You can have different groups on different assignments.
- If you work in a group, check how to submit as a group on Gradescope in Section 4.

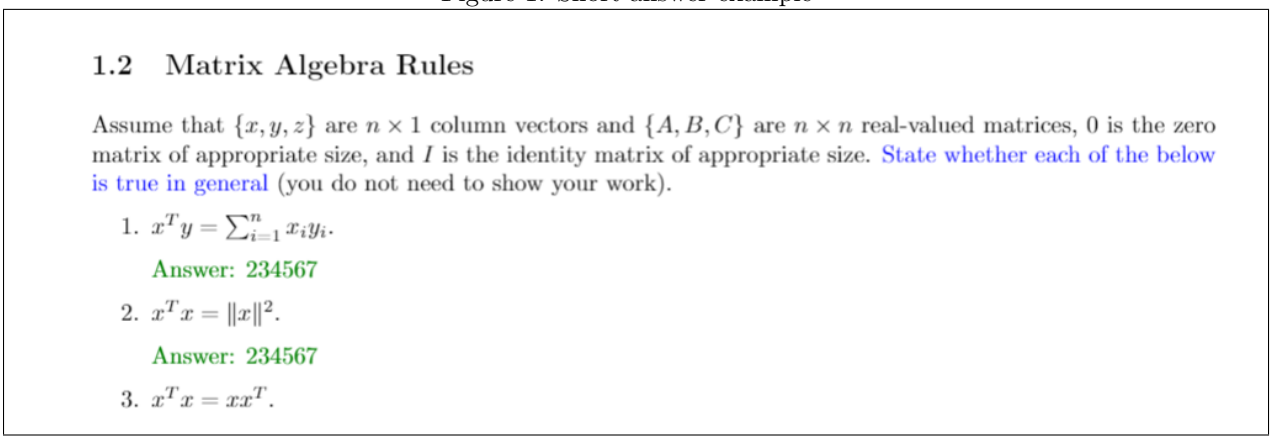
1.2 Grading

- All homework assignments have the same weight.
- We try to provide grades within 10 days of the initial assignment submission deadline.
- If you think there is a problem with your grade, you have one week to raise a concern from the time that your grades were posted. After that, your grade is final.
- To raise a concern, use the `regrade request` on Gradescope.

2 Submission format

- **Put your name(s) and student number(s) on the first page.**
- Your submission needs to be organized sequentially using the (sub-)section numbers in the assignment.
- Figures AND relevant code need to be placed in the appropriate location in the document.
- If you use information from students outside your group or from other sources, cite this at the start of each question. **You will receive a mark of 0 for the assignment (and possibly more) if you are found copying from other sources without citation**.
- Make sure your answers are easy to find, clearly written and easy for the TA to understand. TAs can reduce your mark if your answers aren't clear or difficult to understand (even if correct).
- One easy way to reduce the chance of this happening is to prepare your report in LaTeX. To help you with this, I will put the LaTeXfile used to generate the assignment PDF on the webpage. The file is `a1.tex`. You can use the $\backslash ans\{\}$ command to write your answers (appearing in green). Here is an example of a legible answer format:

Figure 1: Short answer example



1.2 Matrix Algebra Rules

Assume that $\{x, y, z\}$ are $n \times 1$ column vectors and $\{A, B, C\}$ are $n \times n$ real-valued matrices, 0 is the zero matrix of appropriate size, and I is the identity matrix of appropriate size. State whether each of the below is true in general (you do not need to show your work).

1. $x^T y = \sum_{i=1}^{n} x_i y_i$.

   Answer: 234567

2. $x^T x = \|x\|^2$.

   Answer: 234567

3. $x^T x = x x^T$.

2.1 Including code

- For questions that ask for code, include the code in the PDF at the appropriate location.
- If only a small change was needed, show the change and to say where in the code the change was made.
- The simplest way to include code in LaTeXis to include a screenshot using `includegraphics`. See Fig. 2 for what it should look like. There are also ways to import code as text and still have it look reasonable. See `https://www.overleaf.com/learn/latex/code_listing`.

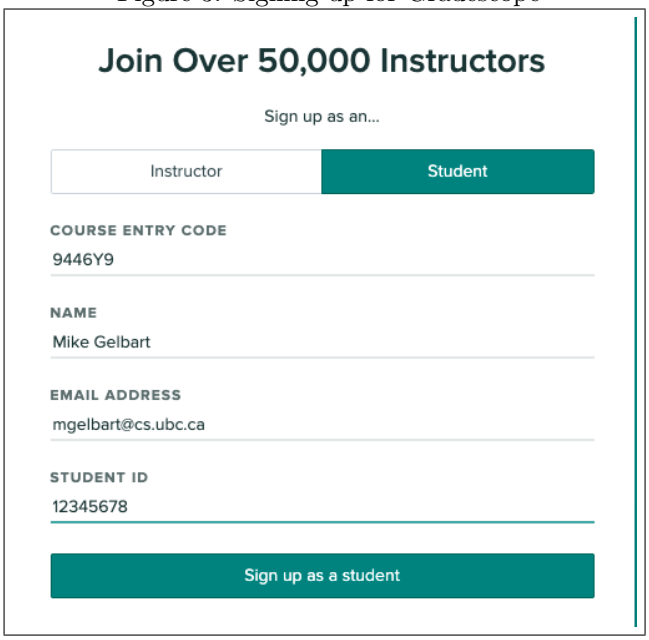
Figure 2: What a question with code will look like

```
import os
import sys
import random
import math
import numpy as np
import skimage.io
import matplotlib
import matplotlib.pyplot as plt

# Root directory of the project
ROOT_DIR = os.path.abspath("../")

# Import Mask RCNN
sys.path.append(ROOT_DIR)  # To find local version of the library
from mrcnn import utils
import mrcnn.model as modellib
from mrcnn import visualize
# Import COCO config
sys.path.append(os.path.join(ROOT_DIR, "samples/coco/"))  # To find local version
import coco

%matplotlib inline

# Directory to save logs and trained model
MODEL_DIR = os.path.join(ROOT_DIR, "logs")

# Local path to trained weights file
COCO_MODEL_PATH = os.path.join(ROOT_DIR, "mask_rcnn_coco.h5")
# Download COCO trained weights from Releases if needed
if not os.path.exists(COCO_MODEL_PATH):
    utils.download_trained_weights(COCO_MODEL_PATH)

# Directory of images to run detection on
IMAGE_DIR = os.path.join(ROOT_DIR, "images")
```

3 Signing up on Gradescope

- Go to `https://www.gradescope.ca` to sign up. We are using the Canadian-hosted Gradescope; do **not** go to gradescope.com. The `course entry code` is `9446Y9`
- Your account on gradescope.ca is completely separate from any accounts you may have on gradescope.com.
- **Fill out your information as shown in Fig 3.**
- Use your your UBC Student number in the `Student ID field`.
- f you already have an account on gradescope.ca, make sure the information is up to date.

Figure 3: Signing up for Gradescope



4 Submitting on Gradescope

- **Submit your assignments as a single PDF to Gradescope.** See Fig 4
- When submitting, you will be prompted to indicate which page contains which question. See Fig. 5
  - For each question, make sure to indicate **all** pages that correspond to that question.
  - Make sure all questions are assigned to at least one page.

  If you fail to do so, that may result in having a score of 0 for that question.
- If you work in a group, **only hand in one assignment**. Use Gradescope's group feature. See Fig. 6

  `https://help.gradescope.com/article/m5qz2xsnjy-student-add-group-members`
- Assignments are due at 11:55pm Vancouver time on submission deadline.

- You can submit each assignment multiple times. We recommend submitting a preliminary version early.

Figure 4: When uploading the file

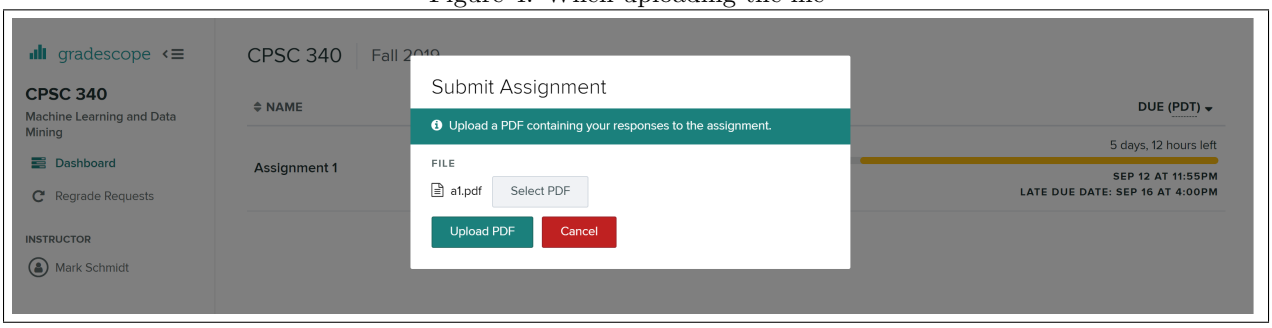


Figure 5: Assigning questions to pages

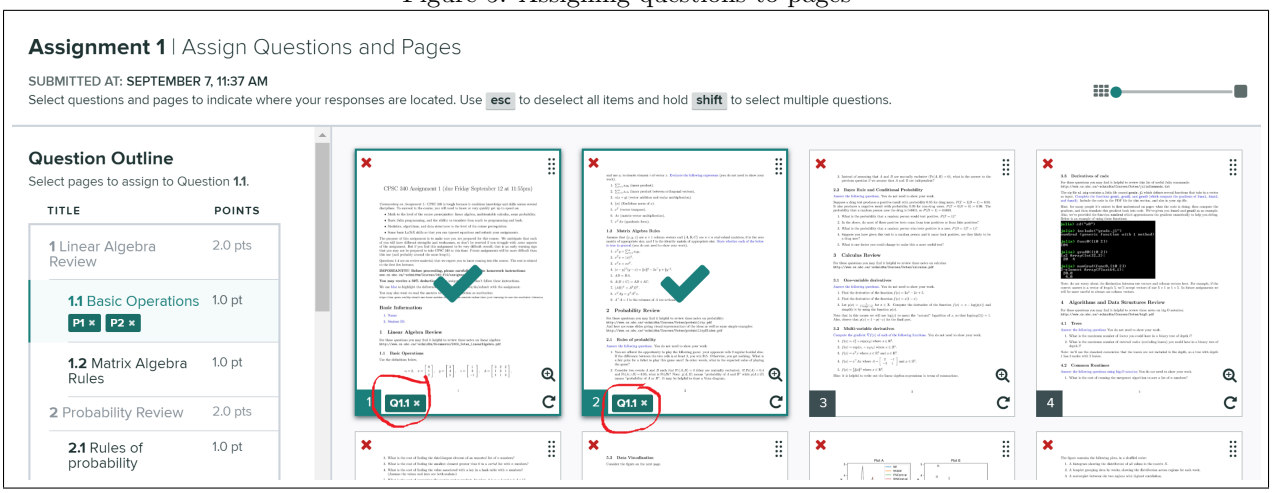


Figure 6: If you are working in pairs, *submit your assignment first* and then configure your group using the "Group Members" button. Select your partner using the dialog box. Make sure your partner has a valid email address.