Homework 2 Instructions

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The homework assignment is to be done in groups of up to 3 students.

For part 3 of the assignment, we recommend using a GPU. Follow the instructions to run on Google Colab, you may also use Google Cloud or a personal laptop/PC (note that some experiments may be very long without GPU).

1 Setup

The setup is the same as in the first assignment. Download assignment2.zip file from moodle. Unzip the folder and install Conda as in the instructions of assignment 1. Note that the conda environment created is now hw2_env_cpu/gpu and not hw1_env. If you don't have GPU on your computer, install hw2_env_cpu. Otherwise, install hw2_env_gpu to be able to run part 3 locally.

If you run part 3 on Google Colab, use environment_hw2_gpu.yml for setup.

2 Assignment

2.1 Working with the Assignment

The folder structure is the same as for assignment 1. Follow the notebooks instructions starting from notebook 0. You are only required to change the code in the folder hw2. As in assignment 1:

1. The notebooks contain material you need to know, instructions about what to do and also code blocks that will test and visualize your implementations.
2. Within the notebooks, anything you need to do is marked with a TODO beside it. It will explain what to implement and in which file.
3. Within the assignment code package, all locations where you need to write code are marked with a special marker (YOUR CODE). Additionally, implementation guidelines, technical details and hints are in some cases provided in a comment above.

This homework assignment is an adaptation of the one from the cs236605 course: `https://vistalab-technion.github.io/cs236605/`

4. Sometimes there are open questions to answer. Your answers should also be written within the assignment package, not within the notebook itself. The notebook will specify where to write each answer.

2.2 Submitting your work

If you didn't complete some optional parts, simply remove the corresponding ipynb file (or move it to another directory). Then, as for assignment 1, run:

```
python main.py prepare-submission --id ID1 --id ID2 --id ID3
```

where ID1, ID2 and ID3 are your id numbers.

Additionally, you can use the –skip-run flag to skip running your notebooks (and just merge them) in case you already ran everything and you're sure that all outputs are present:

```
python main.py prepare-submission --skip-run --id ...
```

If you are unable to solve the entire assignment and wish to submit a partial solution you can create a submission with errors by adding an allow-errors flag, like so:

```
python main.py prepare-submission --allow-errors --id ...
```

Finally zip the output, download the zip file from the remote vm, and submit it on Moodle.

Good luck!