Readme File Deep Learning Ex3

GAN & WGAN

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# How to mount Google Drive to the Colab

In order to load trained models, and test for accuracy, as well as saving the models you train, mounting google drive to the colab is useful.

1. In the drive, create the following folders, where indentation indicates sub-directory:

* deep\_learning
  + Ex3
    - logs
    - models
      * DCGAN
      * WGAN

2. Run section 1, or alternatively, run sections 1.1, 1.2, 1.3. **when you reach section 1.3, follow the instructions written in the colab**. If you do not do this, the code will raise error and will not run properly.

2.1. Go to the site by clicking on the link

2.2. Choose the drive you want to mount to the colab (which you created the deep\_learning folder and the subfolders)

2.3. Enter the confirmation code in the designated area, and press enter to finish mounting the drive.

2.4. If you fail to complete these steps, please contact either Tomer or Yoni, and we will be of further assistance.

3. Run the rest of section 1.

# Training a network from scratch

In order to train a network with a specific model:

1. Run sections and 2. of the colab.

2. Go to section 2.1. in the colab, the Config section

3. Change the “TRAIN\_SPECIFIC\_MODE” variable from False to True and run section 2.1. to implement the change.

3.1. If wanted, you can set the different setting as wanted:

* EPOCH NUM – number of epochs of the training
* MU – the learning rate of the training
* BATCH\_SIZE – the batch size

4. Go to section 3. Of the colab, “Training a specific mode”

5. Choose the wanted mode and allocate the mode variable to that mode.

6. Run section 3. Of the Colab.

7. Run section 4. Of the Colab.

# Loading a pre-trained model & generating images

1. Run section 2. of the colab.

2. Go to section 2.1. in the colab, the Config section

3. Change the “LOAD\_AND\_TEST” variable from False to True and run section 2.1. to implement the change.

4. Go to section 5. Of the colab, “Loading a trained model & generating images”

5. Choose the wanted mode and allocate the mode variable to that mode.

6. Run section 5. Of the Colab.