Primer entregable

* 1. Where does it come from?
     + CycleGAN es un GAN de image-to-image translation. Image-to-image translation is a class of vision and graphics problems where the goal is to learn the mapping between an input image and an output image using a training set of aligned image pairs. However, for many tasks, paired training data will not be available. We present an approach for learning to translate an image from a source domain X to a target domain Y in the absence of paired examples. Our goal is to learn a mapping G: X → Y such that the distribution of images from G(X) is indistinguishable from the distribution Y using an adversarial loss.
  2. What is your use case?
     + Transformar fotografías de caballos a cebras para que se vean como fotografias reales. Y viceversa. Por curiosidad a ver como se verían.
  3. Why did you choose this dataset?
     + It can be so interesting to convert a real life image into something else, such like zebras into horses and summer images to winter images, also the use of using paintings to real life images. We did have some trouble with our previous dataset but the selection of this model is so interesting to be able to apply a certain style to an image and make it seem so realistic.
  4. Is it appropriate for your use case?
     + Yes, the GAN does generate a completely new image based on the previous image but with the new desired style. Such as: <https://camo.githubusercontent.com/69cbc0371777fba5d251a564e2f8a8f38d1bf43f/68747470733a2f2f6a756e79616e7a2e6769746875622e696f2f4379636c6547414e2f696d616765732f7465617365725f686967685f7265732e6a7067>
  5. Cite any previous use cases for the dataset
     + <https://github.com/junyanz/CycleGAN>
     + <https://arxiv.org/pdf/1703.10593.pdf>
     + <https://junyanz.github.io/CycleGAN/>

Segundo entregable

Process the dataset to a representation that a Neural Network can take as input. You have complete freedom on how to do this; you don’t necessarily have to do it the same way we’ve been doing it in class, as long as the output can be properly used by the Neural Network. Provide an explanation of the step by step procedure to clean the data.

* + - The image are in jpg format, with the size of 256x256 and three layers of colors. In order to get the image to that size we need the image to be colored not black and white and with the help of the OpenCV library we manage to resize the image and save it with our requirements.
    - What we did in order to do a faster process was to create a script to clean all the images within a folder.