Instructions on Running the Code

The code for this project was built as an independent entity, and can be run via Terminal with UI command line.

The interface offers plenty of flexibility and automation.

It has its own interface, with default values and helper functions with a built-in manual on how to operate.

The Command Line Interface was built using Click Module Library, and designed in such a way that could be run on an ambient directory (and all of its content). Further, the code is designed to have the ability to run on multiple images (as specified in the CLI code running parameters command). If such were to be chosen, the code selects *N* (as specified) random Content and Style images for Style Transfer combinations.

Application

If to be seeking and exploring the CLI,

Let's run, and hence illustrate, some commands and walk through the process.

Running *python main.py*:

Figure 1: Running python main.py command

We can notice, when not specifying any parameters, the CLI doesn't run the code, but instead print some information on the used built-in functions the user may use, and indicates for a --help command which could be applied.

If to be ran,

Figure 2: Running *python main. py* --help

Will out come in the same information message.

Hence, according to the description in the information message above, let's run the following,

Figure 3: Running python main. py code -run - info

Figure 4: Running python main. py code - run - info - -help

We can read through the helping instructions and operate properly.

One command in particular which was printed is the following,

```
An example command for running the code:

python main.py style-transfer --content_dir_path=.\content_dir --style_dir_path=.\style_dir
```

Figure 5: A command via the helping section on code run info for how to run the code propely

Trying out the helper command for style_transfer function (main core command for this code),

Figure 6: Running python main. py style - transfer - -help

We have all the necessary information for running the code with the right parameters.

As such, if to run the code we can use multiple commands.

All relies on the fact that if any of the parameters wasn't to be specified (Yet, can't name it without an argument. If no argument to be used, then it's better to not mention the specific parameter), then a default value will be initiated (from the *config.py* file. Which its values in a .*env* file (a .*env_template* is provided in the project directory)).

As an example,

If none of the parameters were chosen,

Figure 7: Running *python main.py style – transfer*

The code will always (up to a certain precision) output such a result. And, of course, the code starts running (as specified in the message at the bottom). We can notice how the default arguments were applied.

Another variation for running the code with one of the 3 arguments,



Figure 8: Running python main. py style - trasfer - -number_content_style_images = 2

One can notice how, now, the *number_content_style_images* value was changed to 2 (rather than the default one above in figure 7).

That's that! Hope it's clear.

Have fun with the code, and try exploring out of the features!