

## Activity4 & 5: Regenerative\_morph

```
regenerative_morph x
C:\Users\kaviy\Python3.8\python.exe C:/Users/kaviy/Desktop/ML_Assignment3/regenerative_morph.py

Creating Frame 55
4805639 function calls (4804739 primitive calls) in 106.781 seconds

Ordered by: standard name

ncalls  tottime  percall  cumtime  percall  filename:lineno(function)
      1   0.000   0.000   0.000   0.000  :0(Win32_GetForegroundWindow)
      11   0.000   0.000   0.000   0.000  :0(__build_class__)
     1269   0.000   0.000   0.000   0.000  :0(__getitem__)
      5/4   0.000   0.000   0.016   0.004  :0(__import__)
      77   0.000   0.000   0.000   0.000  :0(__new__)
       1   0.000   0.000   0.000   0.000  :0(__reduce_ex__)
       4   0.000   0.000   0.000   0.000  :0(_abc_init)
      96   0.000   0.000   0.000   0.000  :0(_abc_instancecheck)
     57/16  0.000   0.000   0.000   0.000  :0(_abc_subclasscheck)
      18   0.000   0.000   0.000   0.000  :0(_abc_subclassregister)
      27   0.000   0.000   0.000   0.000  regenerative_morph.py:12(im2col_sliding_strided)
       3   5.359   1.786  106.562  35.521  regenerative_morph.py:121(target2sources)
       1   0.031   0.031  106.781  106.781  regenerative_morph.py:260(regenerative_morph)
       9   0.000   0.000   0.000   0.000  regenerative_morph.py:28(create_patches)
    25424   67.281   0.003   77.797   0.003  regenerative_morph.py:44(patch_match)
    20300   1.594   0.000   1.969   0.000  regenerative_morph.py:63(idx2patch)
    254662   1.406   0.000   1.406   0.000  regenerative_morph.py:80(pixel_cohere)
    254662  10.484   0.000  14.906   0.000  regenerative_morph.py:99(pixel_complete)
      16   0.000   0.000   0.000   0.000  scale.py:106(set_default_locators_and_formatters)
       8   0.000   0.000   0.000   0.000  scale.py:118(get_transform)
```

## Regenerative\_morph\_slow

```
regenerative_morph_slow x
C:\Users\kaviy\Python3.8\python.exe C:/Users/kaviy/Desktop/ML_Assignment3/regenerative_morph_slow.py

Creating Frame 55
```

## Part 2: Docker

- a) Downloading Image

```

C:\Users\tranp>cd C:\Users\tranp\OneDrive\Desktop\computefest_folder

C:\Users\tranp\OneDrive\Desktop\computefest_folder>dir
Volume in drive C is Windows
Volume Serial Number is 908B-FEAS

Directory of C:\Users\tranp\OneDrive\Desktop\computefest_folder

11/05/2020  12:14 PM    <DIR>          .
11/05/2020  12:14 PM    <DIR>          ..
11/05/2020  12:15 PM    <DIR>          2020-ComputeFest
               0 File(s)                0 bytes
               3 Dir(s)  9,496,285,184 bytes free

C:\Users\tranp\OneDrive\Desktop\computefest_folder>cd 2020-computefest

```

## b) Running Image

```

C:\Users\tranp\OneDrive\Desktop\computefest_folder\2020-ComputeFest\notebook_to_cloud\ml_deploy_demo>docker run -it --rm -p 5000:5000 e0ac6239a43a /bin/bash ml_deploy_d...
/bin/bash: dylanrandle/ml_deploy_demo/run.sh: No such file or directory

C:\Users\tranp\OneDrive\Desktop\computefest_folder\2020-ComputeFest\notebook_to_cloud\ml_deploy_demo>docker run -it --rm -p 5000:5000 e0ac6239a43a /bin/bash ml_deploy_demo/run.sh

PWD /app
[2020-11-05 23:46:59 +0000] [1] [INFO] Starting gunicorn 20.0.4
[2020-11-05 23:46:59 +0000] [1] [INFO] Listening at: http://0.0.0.0:5000 (1)
[2020-11-05 23:46:59 +0000] [1] [INFO] Using worker: sync
[2020-11-05 23:46:59 +0000] [8] [INFO] Booting worker with pid: 8
2020-11-05 23:47:01.391679: W tensorflow/stream_executor/platform/default/dso_loader.cc:55] Could not load dynamic library 'libnvinfer.so.6'; dlerror: libnvinfer.so.6: cannot open shared object file: No such file or directory
2020-11-05 23:47:01.392038: W tensorflow/stream_executor/platform/default/dso_loader.cc:55] Could not load dynamic library 'libnvinfer_plugin.so.6'; dlerror: libnvinfer_plugin.so.6: cannot open shared object file: No such file or directory
2020-11-05 23:47:01.392104: W tensorflow/compiler/tf2tensorrt/utils/py_utils.cc:30] Cannot dlopen some TensorRT libraries. If you would like to use Nvidia GPU with TensorRT, please make sure the missing libraries mentioned above are installed properly.
INFO <PID 8:MainProcess> root.initialize_logging(): Logging initialized.
INFO <PID 8:MainProcess> root.initialize_logging(): Logging initialized.
[2020-11-05 23:48:52 +0000] [1] [CRITICAL] WORKER TIMEOUT (pid:8)
[2020-11-05 23:48:52 +0000] [8] [INFO] Worker exiting (pid: 8)
[2020-11-05 23:48:52 +0000] [20] [INFO] Booting worker with pid: 20
2020-11-05 23:48:53.935232: W tensorflow/stream_executor/platform/default/dso_loader.cc:55] Could not load dynamic library 'libnvinfer.so.6'; dlerror: libnvinfer.so.6: cannot open shared object file: No such file or directory
2020-11-05 23:48:53.935411: W tensorflow/stream_executor/platform/default/dso_loader.cc:5

```

## c) Result:

