README

We tried to encapsulate the whole project in a single class for ease of accessibility

and solved the issue of the path and numerous locations as well

main.py = you have to give the path and image name

path = 'niman/Desktop' #give path like this

assuming till Users it would be same for you as well -> C:\Users\niman\Desktop\DIBI\_Project\35\_0gy\_2h\_p6.tif

To Do:

1. Download the Folder from OLAT and save it at the desired location without changing the name of the folder
2. Install the Packages from requirements.txt

To see how the code works :

The simplest way would be to delete the contents of the graph folder (ctrl+A+del) [but please have a look at the graphs before deleting them for trial ]: as it is the last process in the pipeline if after running the main.py file the contents reappeared, it shows that pipeline of the project is also working in your system, the code is error-free from our side, please contact us if some problem occurs while running the code.

Process.py file has the class of this project with all the functions, for this project pipeline

What we added new: nothing as such, just organized everything in a class, tried some new approaches, found a solution for a path for your ease

For running all functions individually: the following folders need to be created with the same names as mentioned as OpenCV doesn’t run if the folder does not exist: for organized results, we have a folder for each image with subfolders for cells(blue channel), red and green channels, Each Individual Cell(EachCell) and Distances within cell(EachCellDistance)

For ijm java modules, we have created a file replace\_path.py: which changes the path everywhere of that file: there are four files: If you want to run them you have to first change the path, as it contains our system path at numerous locations for saving the results in folders.

Folder: Experiments contain all the other methods we have tried so far so a bit unorganized and unstructured, all the approaches can be found in the PowerPoint presentation. All the folders need to exist within the folder name DIBI\_Project, as their paths have been mentioned or needed for the model, like model.yml is for the structured forest, graphs, individual cells, and overlap. You can also try running the code through Jupyter notebook named dibi.ipynb .For results have a look at a folder named with the name of the image which contains all the data.