

(https://profile.intra.42.fr)

# SCALE FOR PROJECT LEAFFLICTION (/PROJECTS/LEAFFLICTION)

You should evaluate 2 students in this team



Git repository

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## Introduction

- Remain polite, courteous, respectful and constructive throughout the evaluation process. The well-being of the community depends on it.
- Identify with the person (or the group) evaluated the eventual dysfunctions of the work. Take the time to discuss and debate the problems you have identified.
- You must consider that there might be some difference in how your peers might have understood the project's instructions and the scope of its functionalities. Always keep an open mind and grade him/her as honestly as possible. The pedagogy is valid only and only if peer-evaluation is conducted seriously.

## Guidelines

- Only grade the work that is in the student or group's GiT repository.
- Double-check that the GiT repository belongs to the student or the group. Ensure that the work is for the relevant project and also check that "git clone" is used in an empty folder.
- Check carefully that no malicious aliases was used to fool you and make you evaluate something other than the content of the official repository.
- To avoid any surprises, carefully check that both the evaluating

and the evaluated students have reviewed the possible scripts used to facilitate the grading.

- If the evaluating student has not completed that particular project yet, it is mandatory for this student to read the entire subject prior to starting the defence.

- Use the flags available on this scale to signal an empty repository, non-functioning program, a norm error, cheating etc. In these cases, the grading is over and the final grade is 0 (or -42 in case of cheating). However, with the exception of cheating, you are encouraged to continue to discuss your work (even if you have not finished it) in order to identify any issues that may have caused this failure and avoid repeating the same mistake in the future.

- Remember that for the duration of the defence, no segfault, no other unexpected, premature, uncontrolled or unexpected termination of the program, else the final grade is 0. Use the appropriate flag.

You should never have to edit any file except the configuration file if it exists.

If you want to edit a file, take the time to explicit the reasons with the evaluated student and make sure both of you are okay with this.

## Attachments

 test\_images.zip ([https://cdn.intra.42.fr/document/document/17546/test\\_images.zip](https://cdn.intra.42.fr/document/document/17546/test_images.zip))

 subject.pdf (<https://cdn.intra.42.fr/pdf/pdf/88988/en.subject.pdf>)

 leaves.zip (<https://cdn.intra.42.fr/document/document/17547/leaves.zip>)

## Mandatory Part

### Error Management

- During the defense, as soon as you need help to verify a point, the student evaluated must help you.
- git clone the student's project
- Download the subject's data set
- Download the student's data set or ask where the directory is located
- Check that the signature contained in "signature.txt" is identical to that of the ".zip" file of the data set. A simple "diff" should allow you to compare the two signatures. If necessary, ask the student being evaluated where their ".zip" file is located.
- If something doesn't work as expected or the two signatures differ, the evaluation stops here.
- If the language used is python you must check the norm (use flag if norm error) pip install flake8 alias norminette\_python=flake8 norminette\_python "student's project directory"

☒ Yes☐ No

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**Part 1 Analysis of the Data Set**

Read the code, Run the code and pie chart as in the subject must appear

```
$> ./Distribution.[extension] ./Apple
```

☒ Yes☐ No

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**Part 2 Data augmentation**

Read the code, Run the code and 6 images as in the subject must appear

```
$> ./Augmentation.[extension] ./Apple/apple_healthy/image (1).JPG
```

and 6 versions of the same image must have been created

For exemple:

```
$> ls
image (1)_Flip.JPG
image (1)_Rotate.JPG
image (1)_Skew.JPG
image (1)_Shear.JPG
image (1)_Crop.JPG
image (1)_Distortion.JPG
```

☒ Yes☐ No

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**Part 1 Analysis of the Data Set (additional verification)**

Now you have to use the program of the part 1 on the "augmented\_directory" of the student, these are the images that they must have generated with the program of the part 2 to balance his data set in number of image, each part of the pie char must be equal.

```
$> ./Distribution.[extension] ./augmented\_directory
```

If the pie chart is still the same as above you must put 0 to this exercise and exercise Part 1 Analysis of the Data Set

☒ Yes☐ No

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**Part 3 Image Transformation**

Read the code, Run the code and 6 images as in the subject must appear.

```
$> ./Transformation.[extension] ./Apple/apple_healthy/image (1).JPG
```

The techniques used must be able to extract the characteristics of the plants,  
you can ask for explanations on each one of the transformations

☒ Yes

☐ No

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#### Part 4 Classification

Ask the student to run his program on a test set of minimum 100 images,  
the result of good prediction must be over 90%.

☒ Yes

☐ No

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#### Part 4 Classification (explanation of the model)

The student must be able to explain the machine learning model he has chosen and how it works.

- 0 if the student can't explain (think of flag cheating or Concerning situation if you have big doubt that the student did the project)
- 5 the explanations are fluid, the student is able to explain the model and why he chose this one over another

Rate it from 0 (failed) through 5 (excellent)



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#### Part 4 Classification (Unit\_test1)

Download the "test\_images.zip" folder

Take the images from the "Unit\_test1" folder and give one point for each correct Apple leaf image classified.

For example:

```
$> ./predict.[extension] ./test_images/Unit_test1/Apple_healthy1.JPG
```

Ensure that the classification matches the image name  
and replace the latter to prevent the student from accessing it.

Rate it from 0 (failed) through 5 (excellent)



## Part 4 Classification (Unit\_test2)

Take the images from the "Unit\_test2" folder and give one point for each correct Grape leaf image classified.

For exemple:

```
$> ./predict.[extension] ./test_images/Unit_test2/Grape_spot.JPG
```

If the 10 images are misclassified, ask yourself how the student was able to get a good classification in his validation set.



Rate it from 0 (failed) through 5 (excellent)

## Ratings

Don't forget to check the flag corresponding to the defense



Ok



Outstanding project

Empty work



Incomplete work



Invalid compilation



Norme



Cheat



Crash



Incomplete group



Concerning situation

## Conclusion

Leave a comment on this evaluation

Finish evaluation

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