

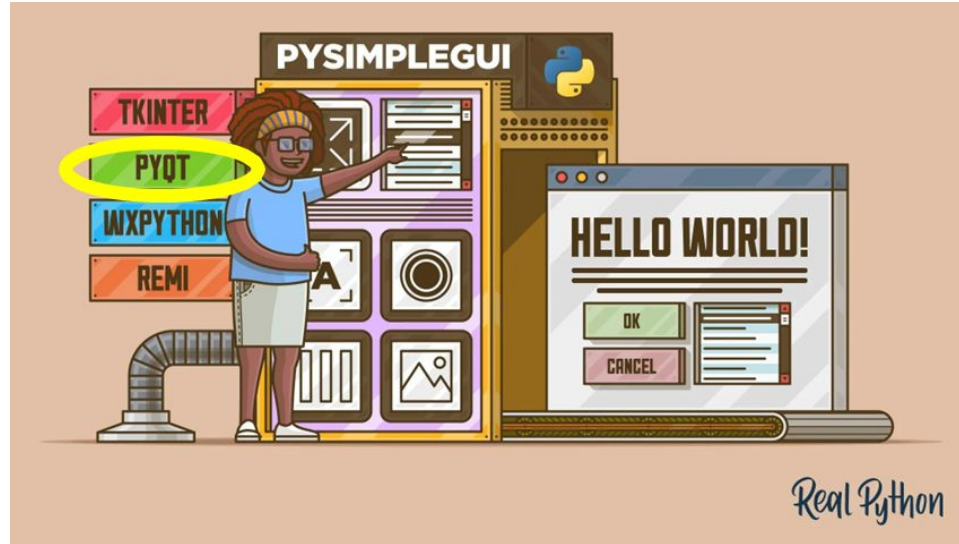
# **Data Science**

# **Survival Skills**

Homework 10

# Description of the Homework

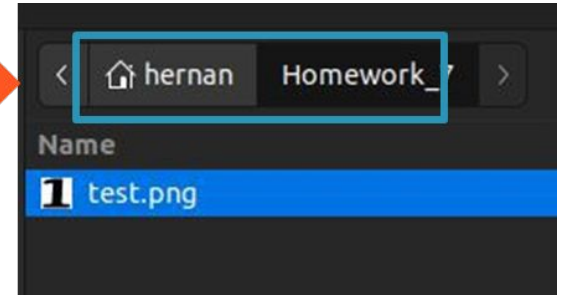
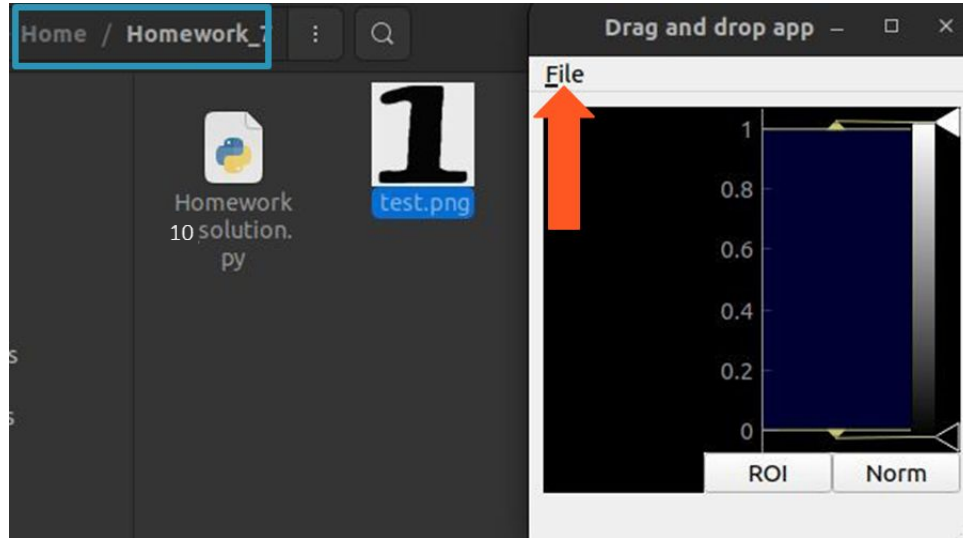
You are going to use PyQt5 to create a GUI from scratch.



Your task is to use PyQtGraph and integrate all the following functionalities:

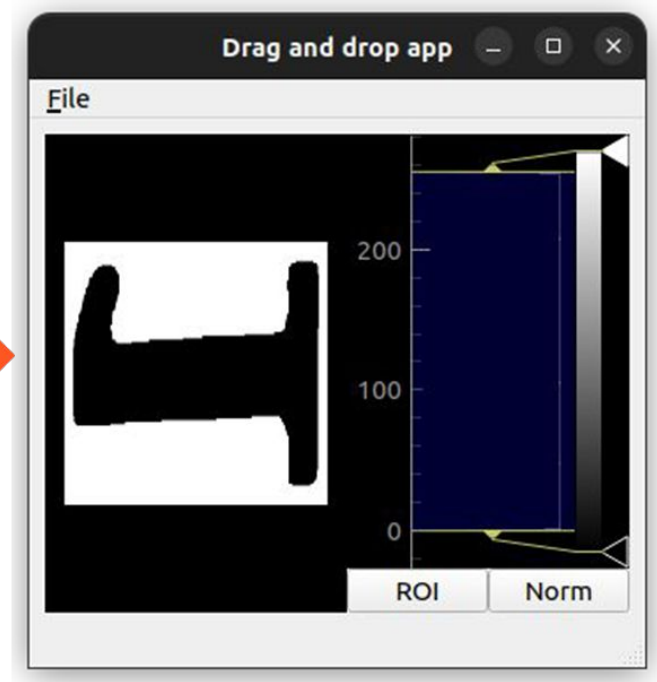
# Homework 10: Tasks 1/3

- Create a QFileDialog to load a file. If a file is an IMAGE FILE (e.g. ends with png, jpg, ...), show it!



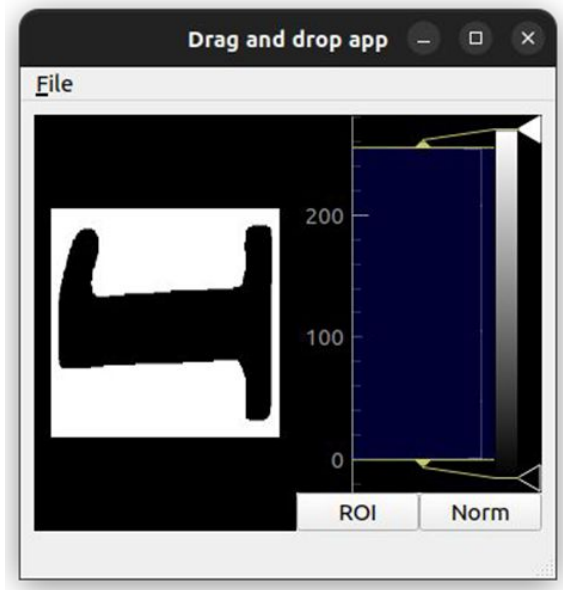
# Homework 10: Task 2/3

- Implement a Drag and drop from your file explorer.

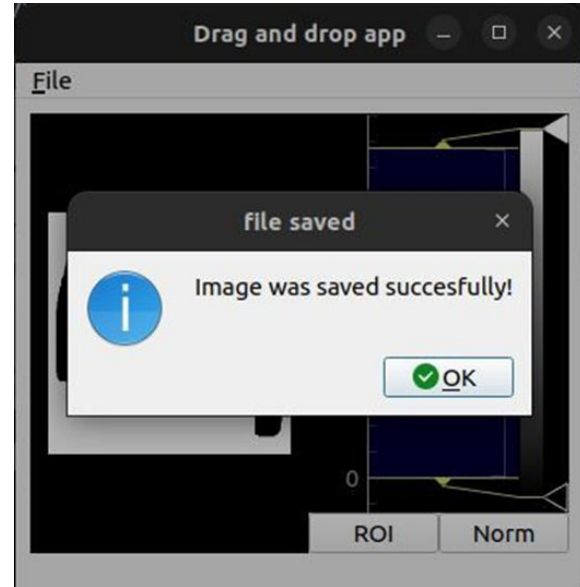


# Homework 10: Task 3/3

- Implement the saving routine of this file using e.g. Imageio.
- If saved, show a success message, otherwise an error message.
- Enable Ctrl+S as a shortcut for the saving routine.



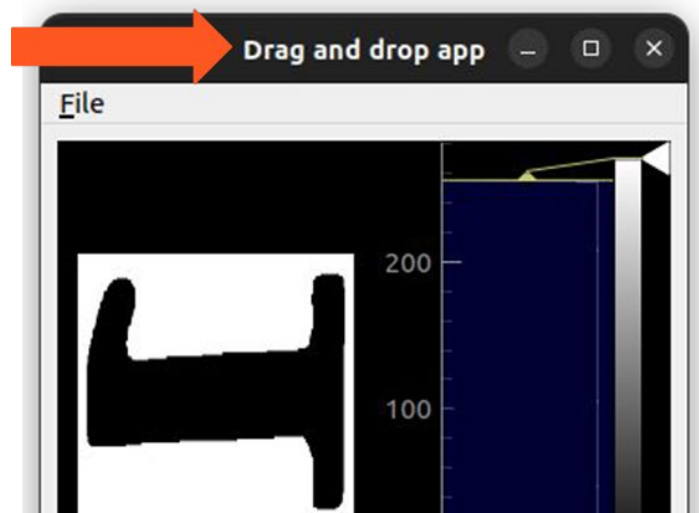
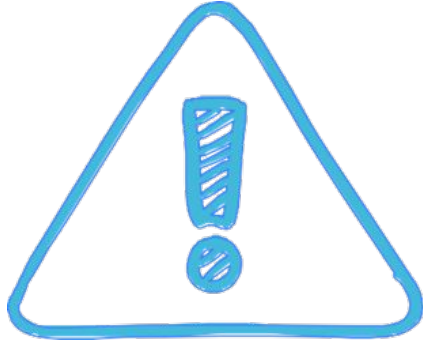
→  
Ctrl+s



# Homework 10: Submission

Upload to StudOn **your code** (a single python file) and **a single slide** as a **PDF** file showing only your GUI and its functionalities. We will check for plagiarism in your code.

Important note: **The QMainWindow must show your name.**



# Homework: Requirements

You must complete **all** homework assignments (**unless otherwise specified**) following these guidelines:

- **One** slide/page.
- **PDF** file format only.
- It has to contain your **name, student (matriculation) number** and **IdM** in the down-left corner.
- Font: **Arial**, Font-size: > **10 Pt**.
- Answer **all** the questions and solve all the tasks requested.
- Be careful with **plagiarism**. Repeated solutions will not be accepted!