



13th Summer School on **SCIENTIFIC VISUALIZATION**

Introduction to GUI development using Qt Exercises

Paolo Quadrani - p.quadrani@ Cineca.it
Andrea Negri - a.negri@ Cineca.it

SuperComputing Applications and Innovation Department



Exercise #1

Open `Helloworldexample/helloworld.py`

1a. rename button name to “OK”

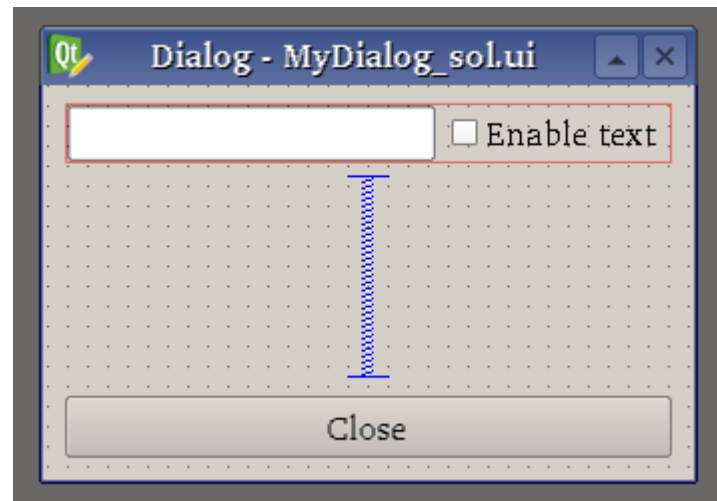
1b. close the application when OK button is clicked



Exercise #2

Open QtDesigner

2a. create a dialog like this one:



NOTES:

- * use layouts to organize widgets
- * use a spacer to constrain widgets (close button to the bottom and line edit and check box on top)



Exercise #2

2b. from terminal, use `pyuic4` to generate a Python class for your GUI, called `MyDialog.py`

Use `-x` flag to generate a standalone preview of the GUI

Open `pyuicExample/MyApp.py`

2c. modify code to create a `QDialog` that implements your GUI

NOTE: `MyDialog.py` must be in the same folder of `MyApp.py`

2d. when “Close” button is pressed, quit application

2e. use the checkbox to enable/disable text field



Exercise #3

Open QtDesigner and create a UI like this one:

Dialog - [Preview]

Name

Surname

Age

Email Subscribe

Ok Cancel

NOTE: use grid layout



Exercise #3

3a: use pyuic4 to generate python class

3b: for this dialog, functionalities required are (use skeleton InfoDialogExample/MyApp.py):

- ok button disabled by default, and enabled only if:
 - * enabled text field are filled (not empty)
 - * age is ≥ 18
- if check box is checked, mail field must enabled
- Cancel button closes application
- pressing ok will open a QMessageBox with a different message for subscribed and not subscribed user

3c. check email format