Common Widgets

|  |  |
| --- | --- |
| Application window | A container widget inside which other elements are arranged |
| Button | An area on which a mouse click triggers some operation |
| Textbox | Reads text input from a keyboard |
| Radio button | Allows a user select one of several options |
| Checkbox | Allows a user to select one or more of several options |
| Listbox/Drop down list | Presents a selectable list of items |

Simple GUI Application using PyQt

from PyQt5.QtWidgets import QMainWindow, QPushButton, QApplication

import sys

class Example(QMainWindow):

def \_\_init\_\_(self):

super().\_\_init\_\_()

btn = QPushButton("Hello World!", self)

btn.move(50,75)

self.setGeometry(100, 100, 200,150)

self.setWindowTitle('PyQt Window')

self.show()

if \_\_name\_\_ == '\_\_main\_\_':

app = QApplication(sys.argv)

ex = Example()

sys.exit(app.exec\_())

Major Classes in PyQt

|  |  |
| --- | --- |
| QtCore | Core non-GUI classes used by other modules |
| QtGui | Graphical user interface components |
| QtMultimedia | Classes for low-level multimedia programming |
| QtNetwork | Allows a user select one of several options |
| QtOpenGL | OpenGL support classes |
| QtScript | Classes for evaluating Qt Scripts |
| QtSql | Classes for database integration using SQL |
| QtSvg | Classes for displaying the contents of SVG files |
| QtWebKit | Classes for rendering and editing HTML |
| QtXml | Classes for handling XML |
| QtWidgets | Classes for creating classic desktop-style UIs. |
| QtDesigner | Classes for extending Qt Designer |