

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, QApplicationimport 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