

Yih-Chuan Lin
CSIE Windows Programming Class
National Formosa University



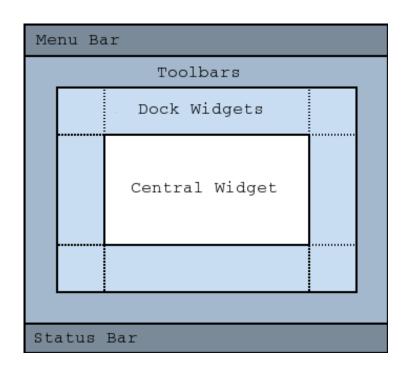


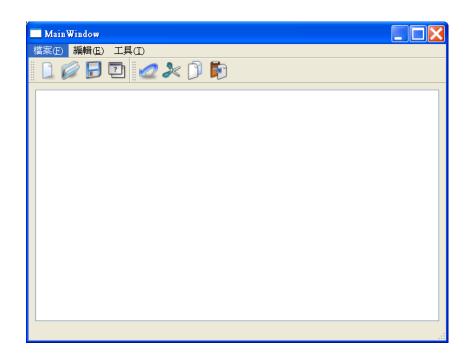
- 學習目的
 - ●認識Qt MainWindow之主視窗框架
 - ●練習使用Qt Designer工具製作主視窗人機介面
 - ●學習如何整合Qt Designer視窗人機介面於應用 程式中





Qt 主視窗之框架:提供建立應用程式人機界面的架構





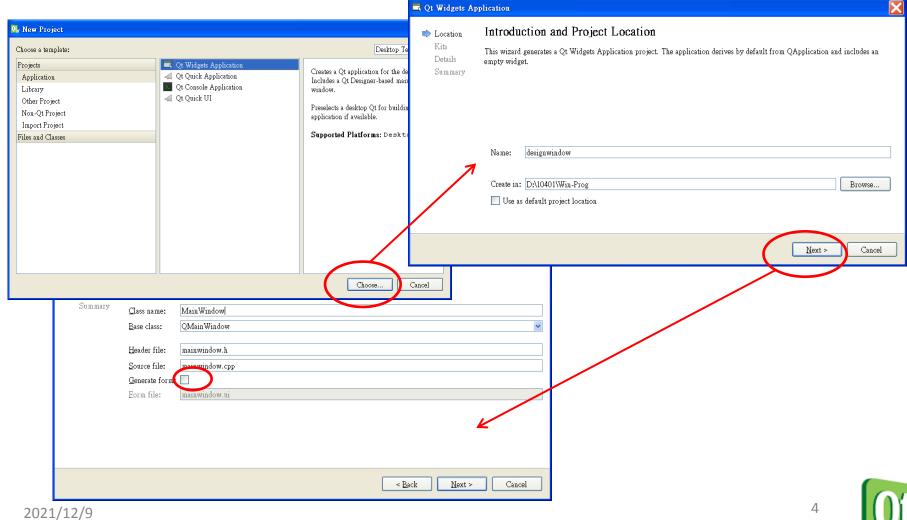
相關類別:

QMainWindow, QMenuBar, QToolBar, QDockWidget, QStatusBar.



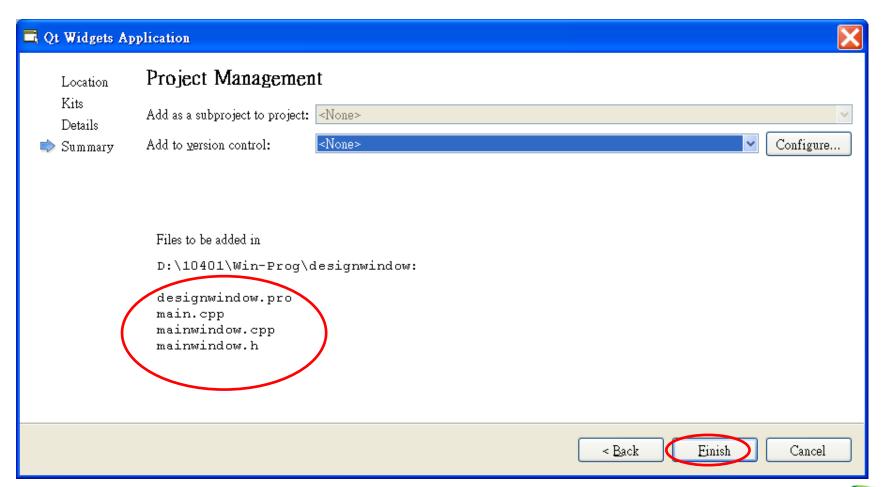


Create a mainwindow application:





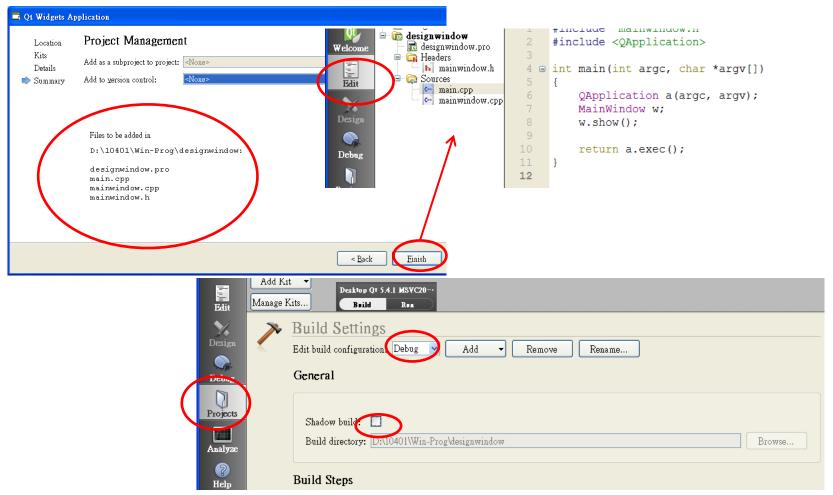
Create a dialog-based application:







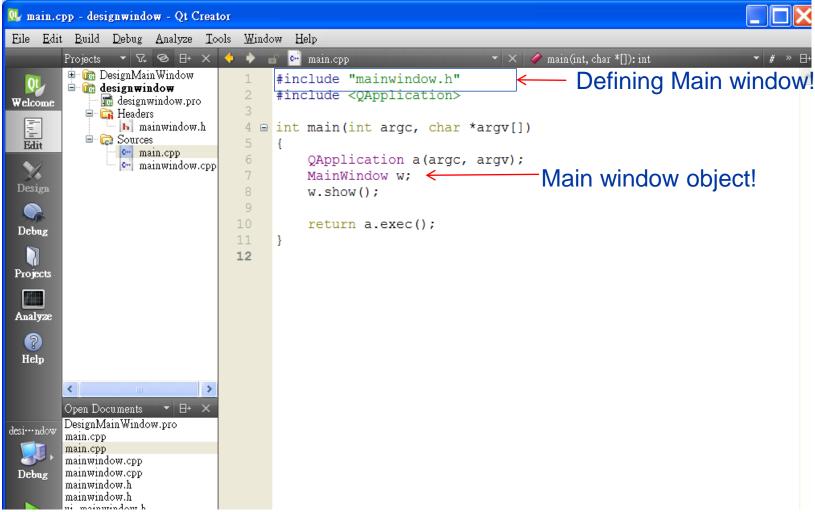
Create a mainwindow application:







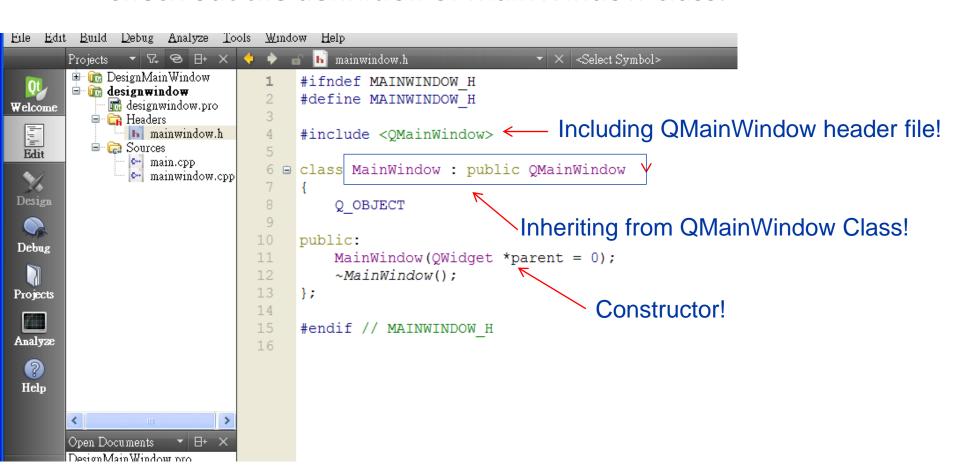
Check out the main function:





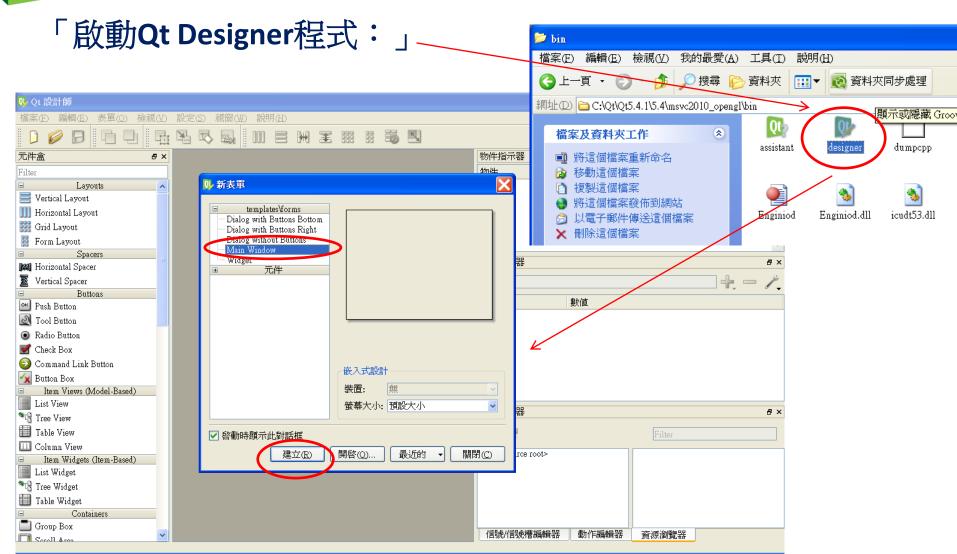


Check out the definition of MainWindow class:





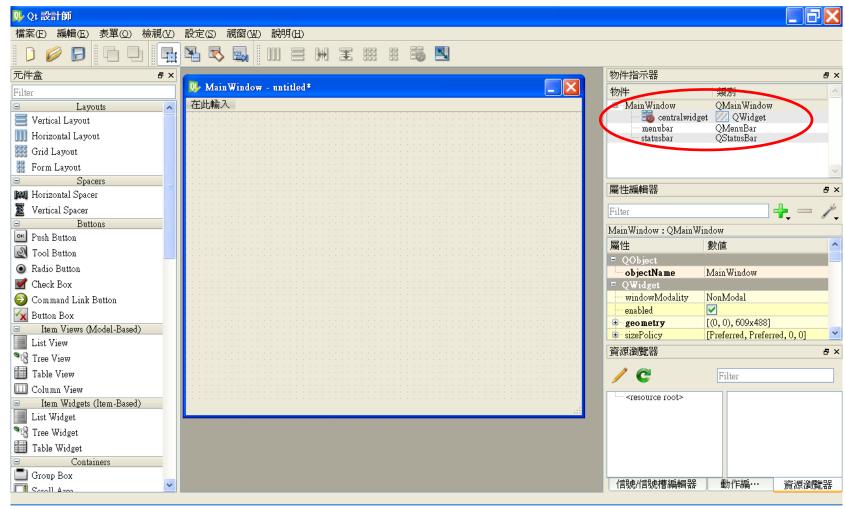








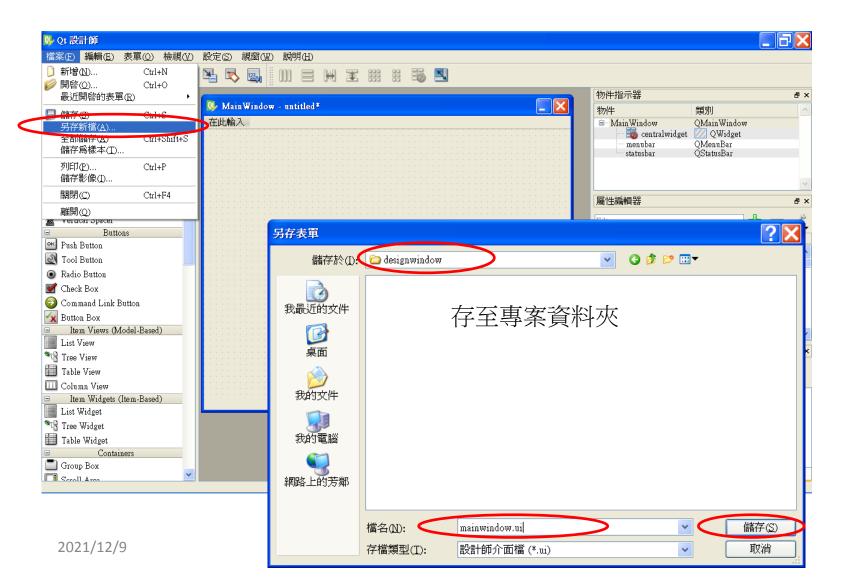
主視窗初始人機界面





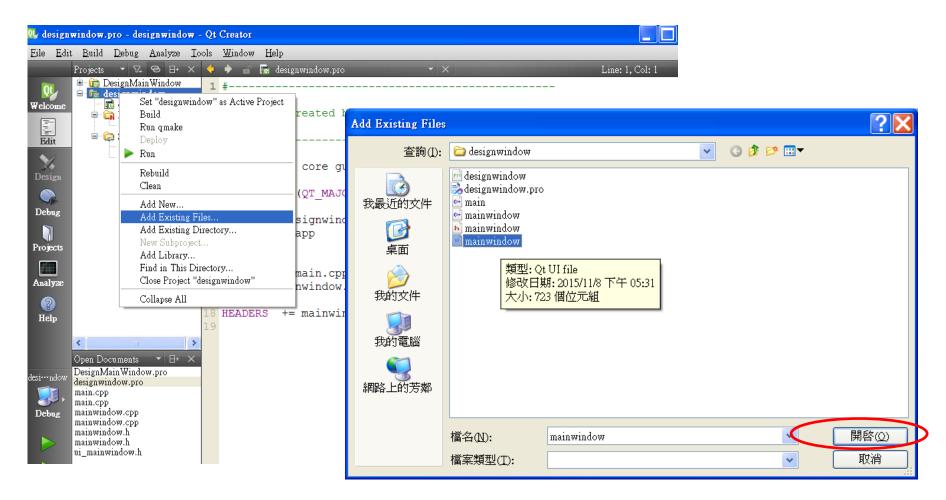


另存人機界面檔(mainwindow.ui)





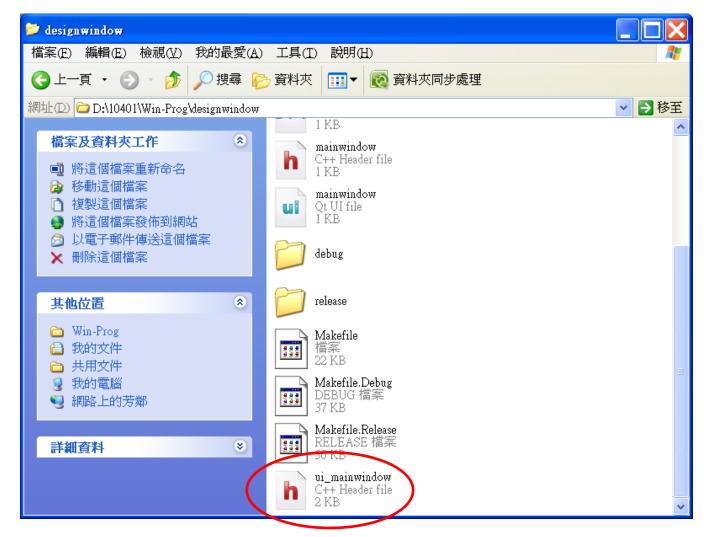
新增人機界面檔(mainwindow.ui)至專案







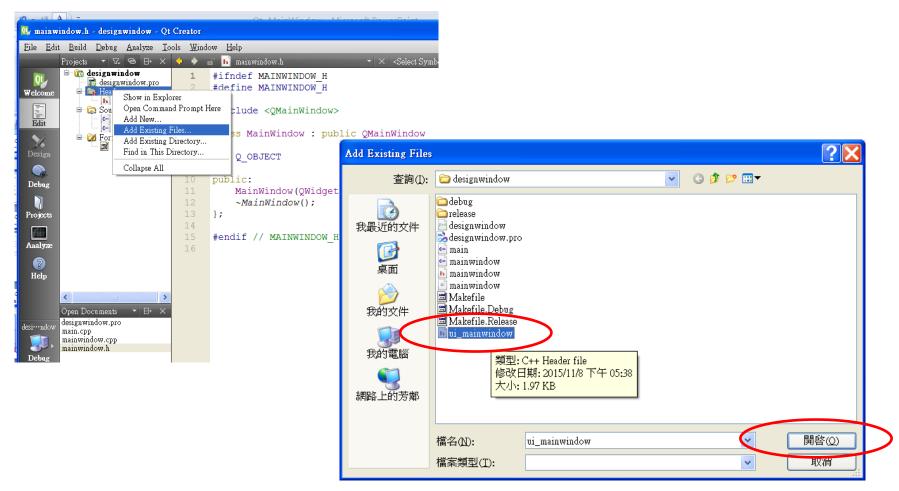
建置專案(Build All)後、查找 ui_mainwindow.h標頭檔







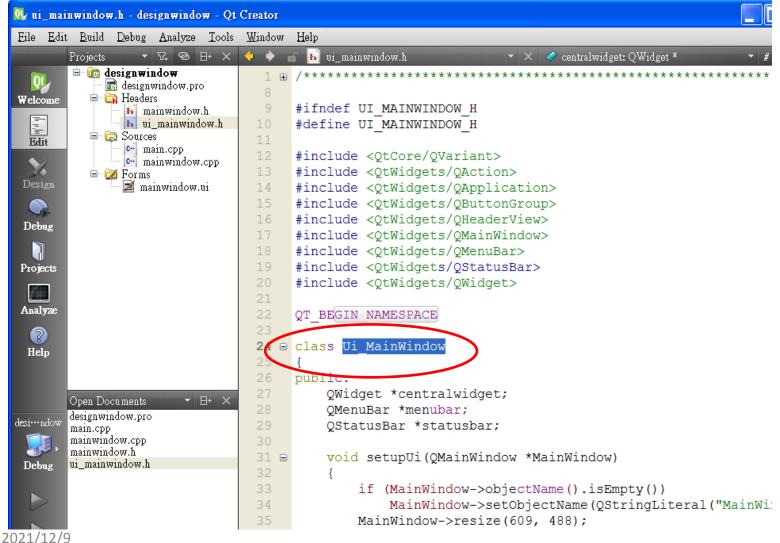
引入ui_mainwindow.h標頭檔







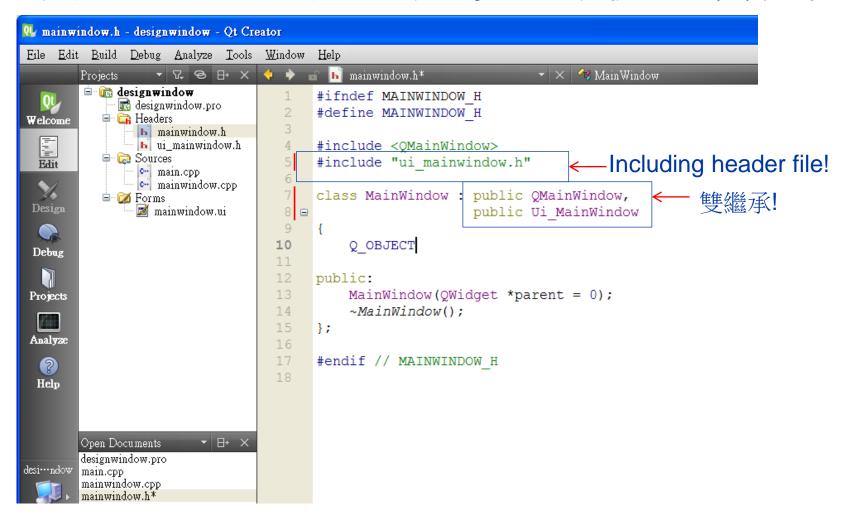
檢視人機介面定義類別: Ui_MainWindow







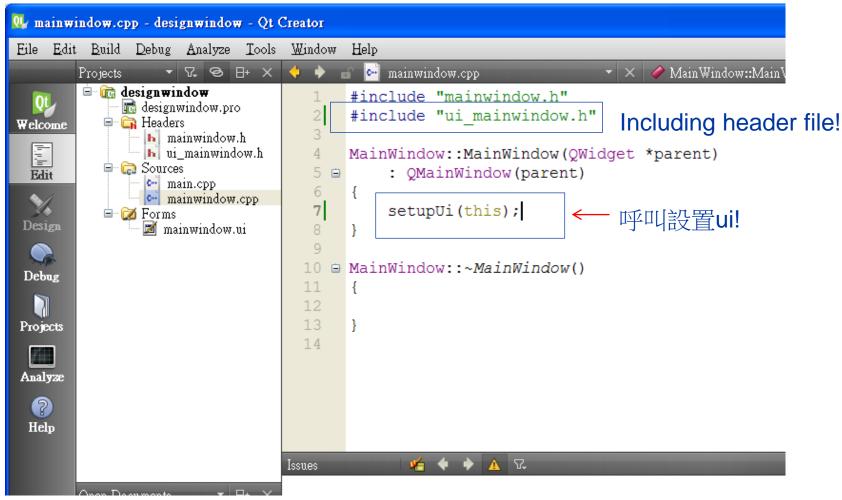
變更mainwindow類別的定義:多重繼承 (加入人機界面)







變更mainwindow類別的建構函數:設置人機界面



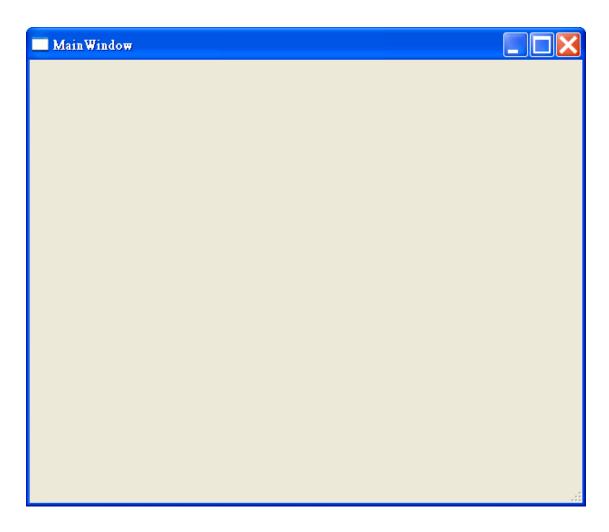




2021/12/9

Qt- MainWindow

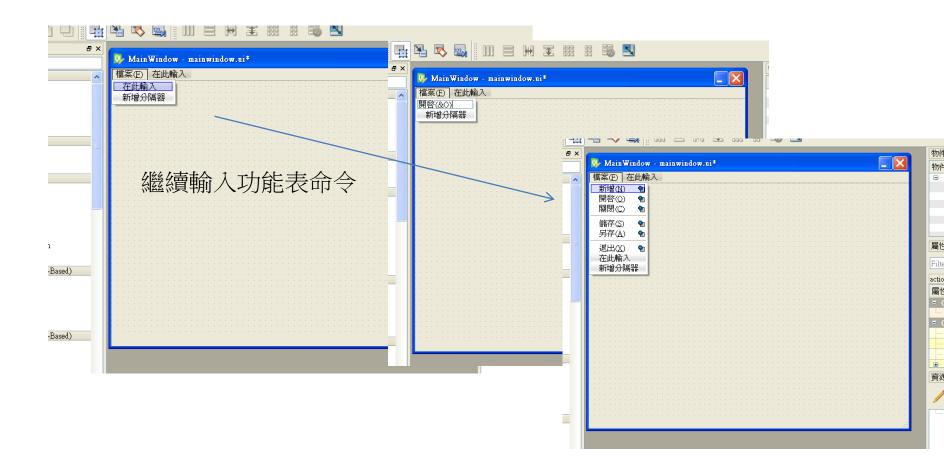
建置、執行專案







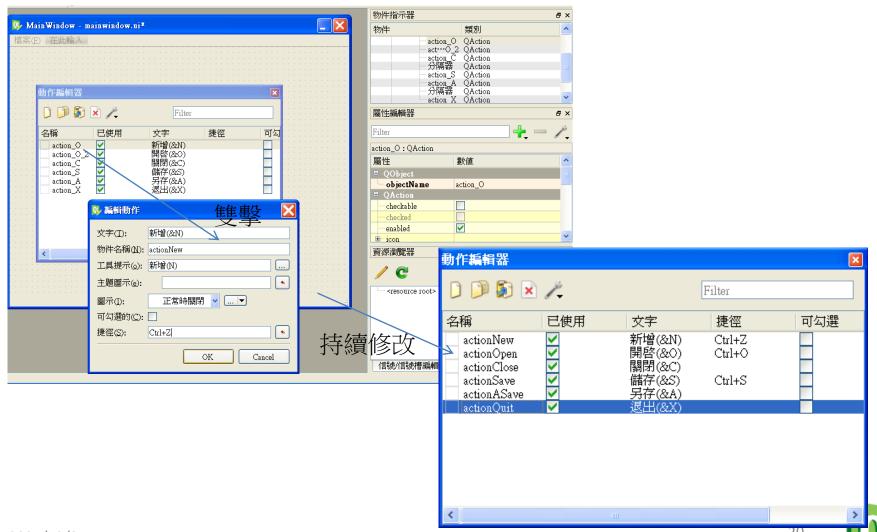
Qt Designer: double-clicking [在此輸入],輸入第一個功能表名字





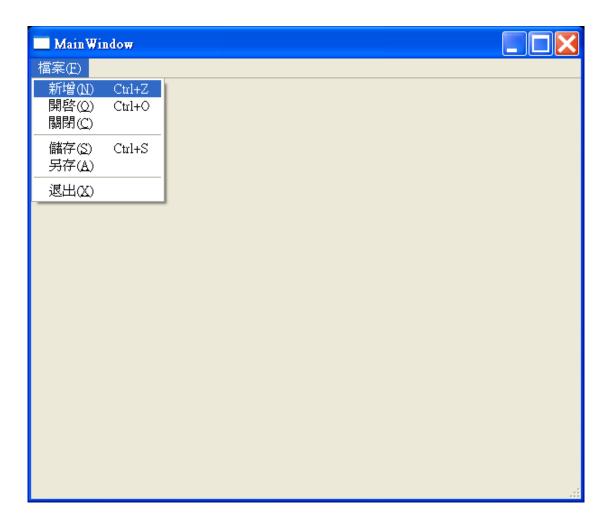


Qt Designer: 修改功能表命令物件名(動作物件:QAction objects)





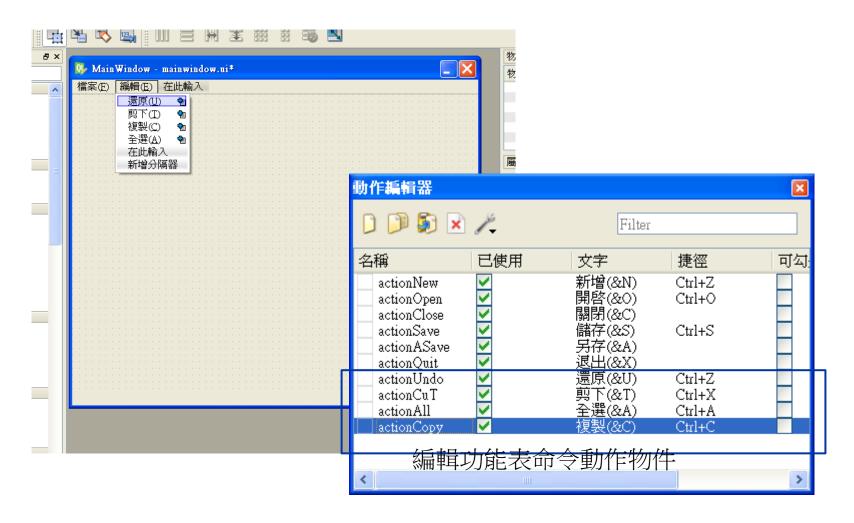
Qt Designer存檔後;Qt Creator 建置、執行專案







Qt Designer:繼續新增"編輯"功能表及其功能表命令







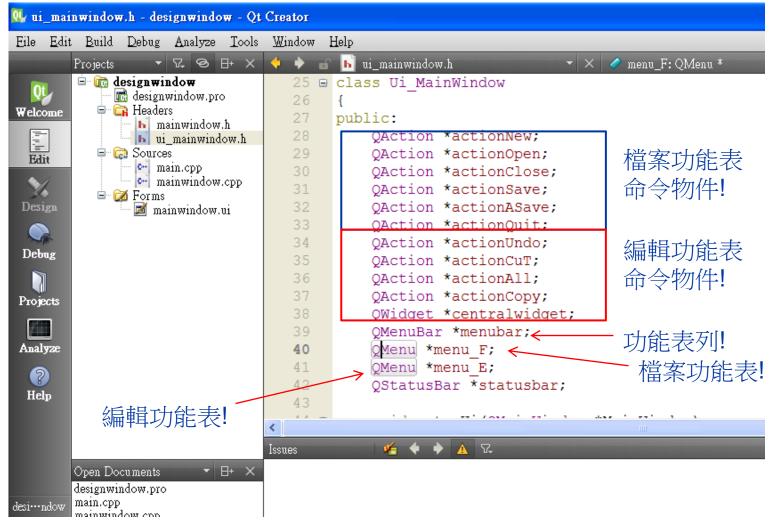
Qt Designer存檔後;Qt Creator 建置、執行專案

■ Main Window			
檔案(E)	編輯(E)		
	還原(U)	Ctrl+Z	
	剪下(I)	Ctrl+X	
	複製(C) 全選(A)	Ctrl+C Ctrl+A	
	± /2 (11)	Cuitin	
			.:





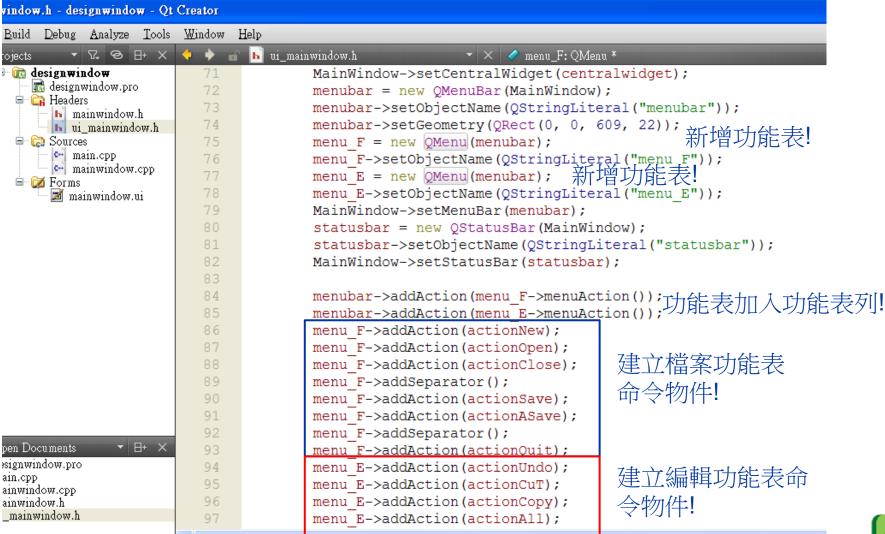
Qt Creator 檢視 ui_mainwindow.h







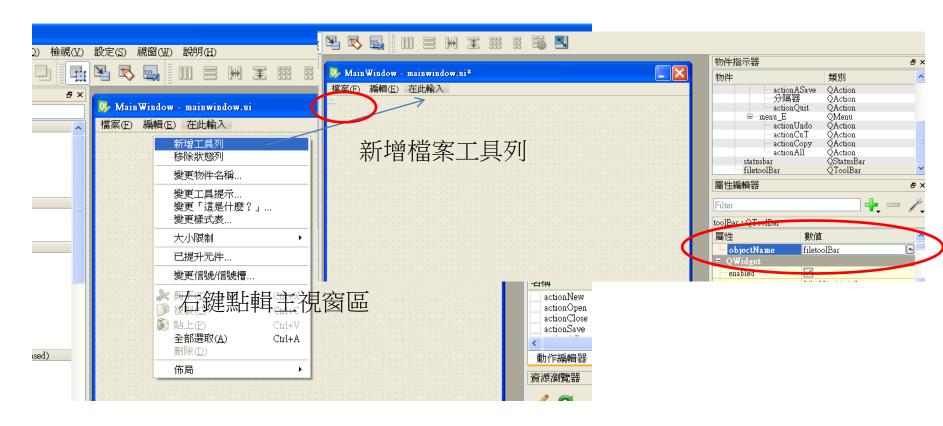
Qt Creator 檢視 ui_mainwindow.h



Qt



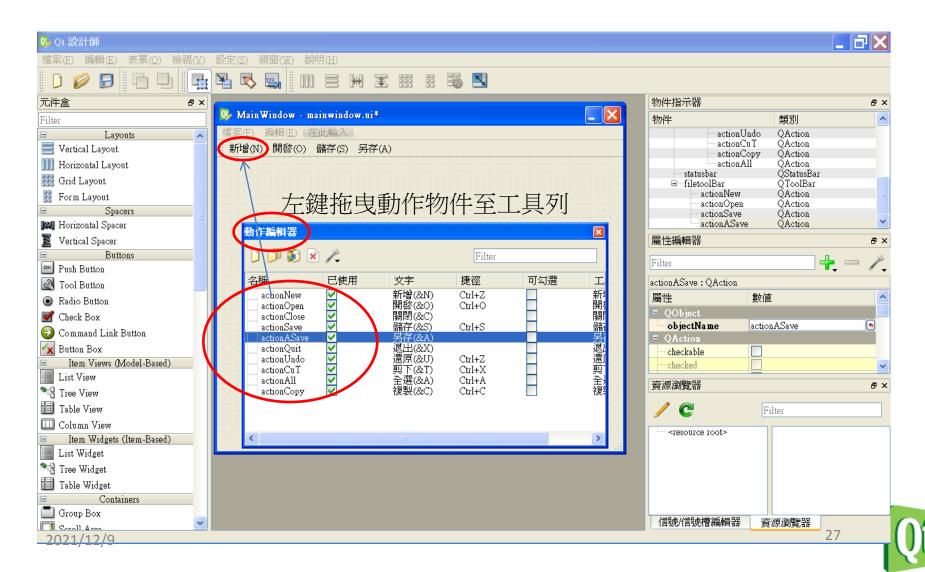
Qt Designer新增工具列:檔案工具列、編輯工具列





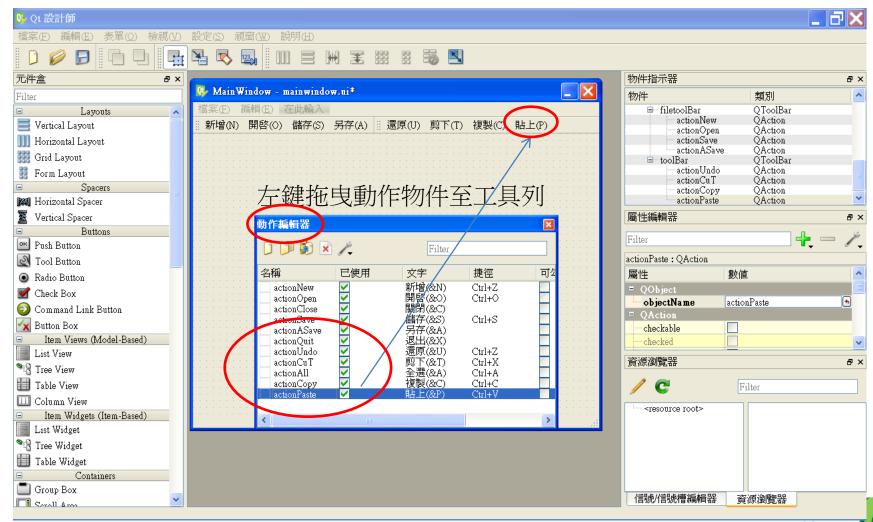


Qt Designer新增檔案動作物件至檔案工具列



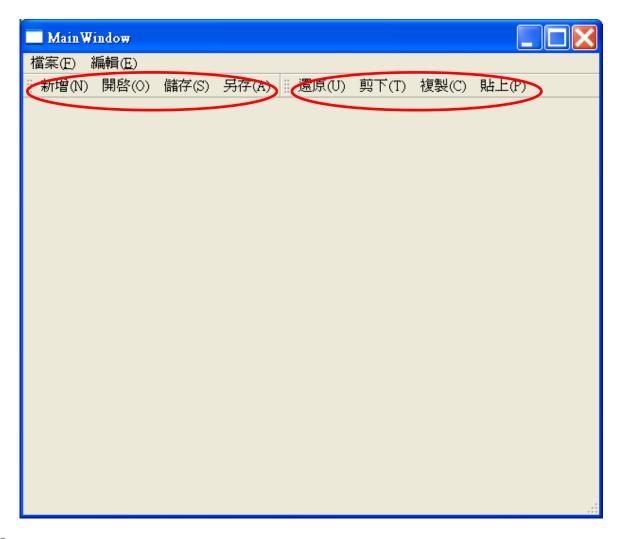


Qt Designer新增檔案動作物件至編輯工具列





Qt Designer存檔後;Qt Creator 建置、執行專案







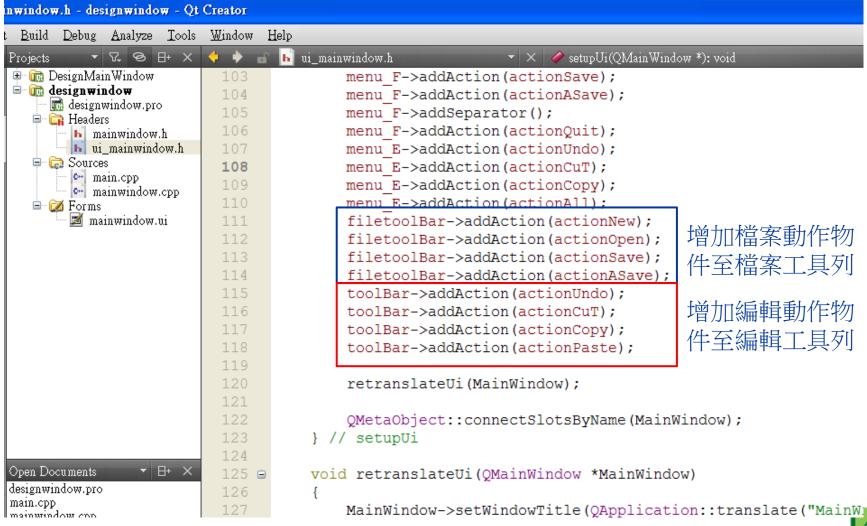
Qt Creator 檢視 ui_mainwindow.h

```
v.h - designwindow - Qt Creator
Debug Analyze Tools Window Help
                             ui mainwindow.h
    ▼ 17. 69 E+ X
                                                      🔻 🗙 🥏 setupUi(QMainWindow *): void
                                  actionPaste = new QAction(MainWindow);
esignMainWindow
esignwindow
                                  actionPaste->setObjectName(QStringLiteral("actionPaste"));
                    74
📆 designwindow.pro
                                  centralwidget = new OWidget(MainWindow);
🚡 Headers
                                  centralwidget->setObjectName(QStringLiteral("centralwidget"));
  mainwindow.h
  ui_mainwindow.h
                                  MainWindow->setCentralWidget(centralwidget);
Sources
                                  menubar = new QMenuBar(MainWindow);
  main.cpp
                                  menubar->setObjectName(QStringLiteral("menubar"));
  mainwindow.cpp
                                  menubar->setGeometry(ORect(0, 0, 609, 22));
🔰 Forms
  🌌 mainwindow.ui
                                  menu F = new OMenu (menubar);
                                  menu F->setObjectName(QStringLiteral("menu F"));
                                  menu E = new QMenu (menubar);
                                  menu E->setObjectName(OStringLiteral("menu E"));
                    84
                                  MainWindow->setMenuBar(menubar);
                                  statusbar = new QStatusBar(MainWindow);
                                  statusbar->setObjectName(QStringLiteral("statusbar"));
                                  MainWindow->setStatusBar(statusbar):
                                  filetoolBar = new QToolBar(MainWindow);
                                  filetoolBar->setObjectName(OStringLiteral("filetoolBar"));
                                  MainWindow->addToolBar(Qt::TopToolBarArea, filetoolBar);
                                  MainWindow->insertToolBarBreak(filetoolBar);
                                  edittoolBar = new OToolBar(MainWindow);
                                  edittoolBar->setObjectName(QStringLiteral("edittoolBar"));
cuments
                                  MainWindow->addToolBar(Qt::TopToolBarArea, edittoolBar);
ndow.pro
                                  menubar->addAction(menu F->menuAction());
dow.cop
                                  menubar->addAction(menu E->menuAction());
dow.h
vindow.h
                                  menu F->addAction(actionNew);
```





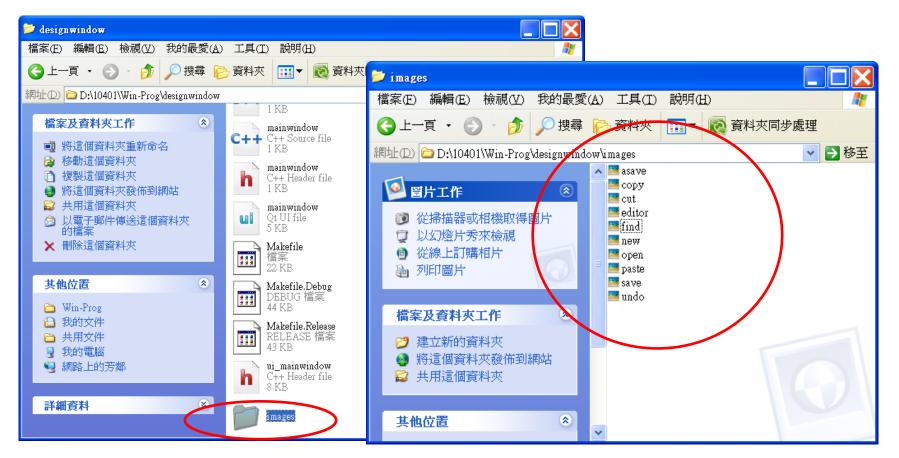
Qt Creator 檢視 ui_mainwindow.h



Qt



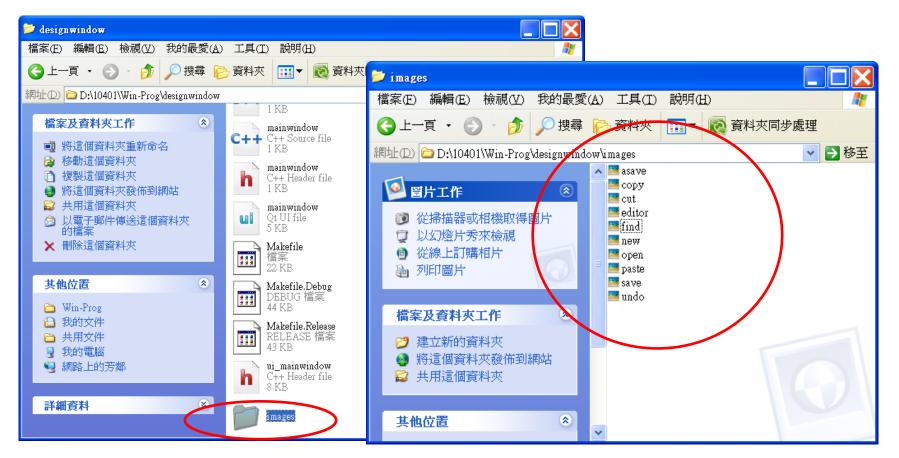
新增資源檔(resource):為動作物件加入圖示(icon) 複製圖示檔案至專案資料夾下,置於images子資料夾內







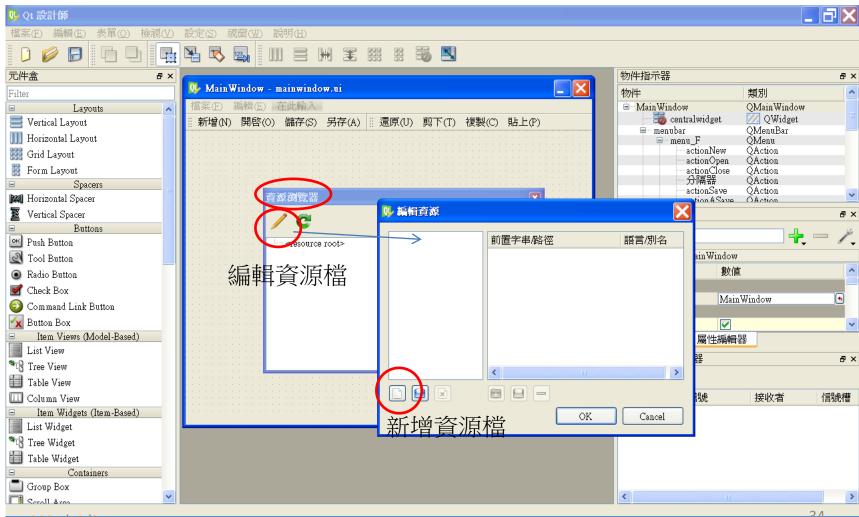
新增資源檔(resource):為動作物件加入圖示(icon) 複製圖示檔案至專案資料夾下,置於images子資料夾內







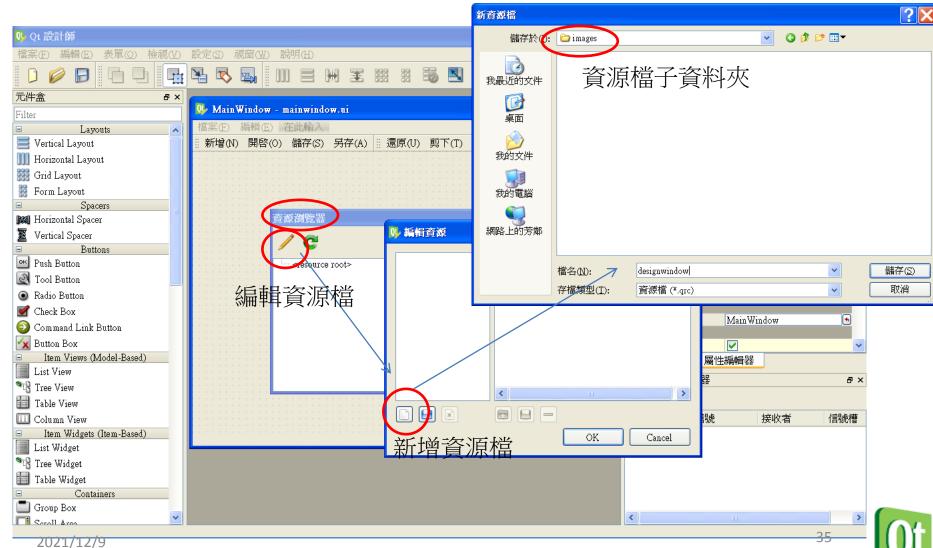
Qt Designer新增資源檔





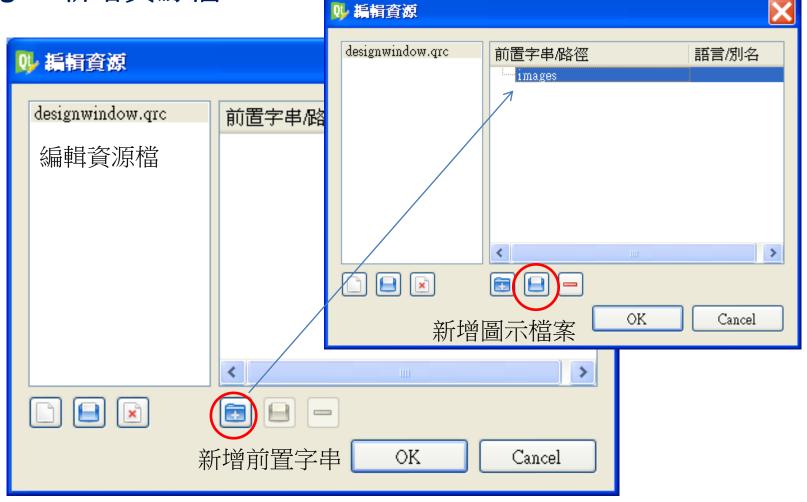


Qt Designer新增資源檔





Qt Designer新增資源檔





Qt Designer新增資源圖示檔







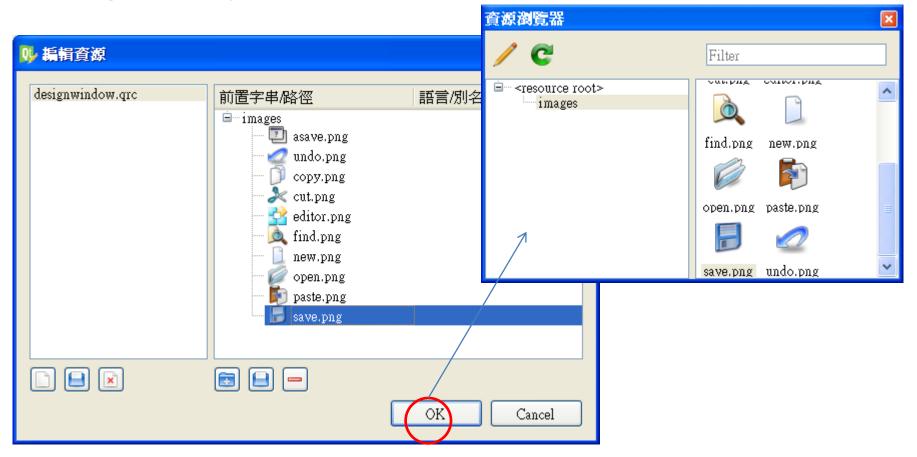
Qt Designer新增資源圖示檔







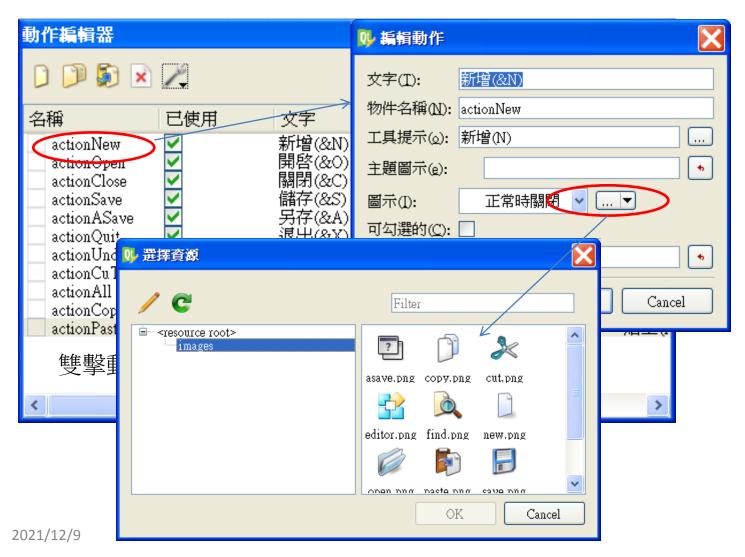
Qt Designer新增資源圖示檔







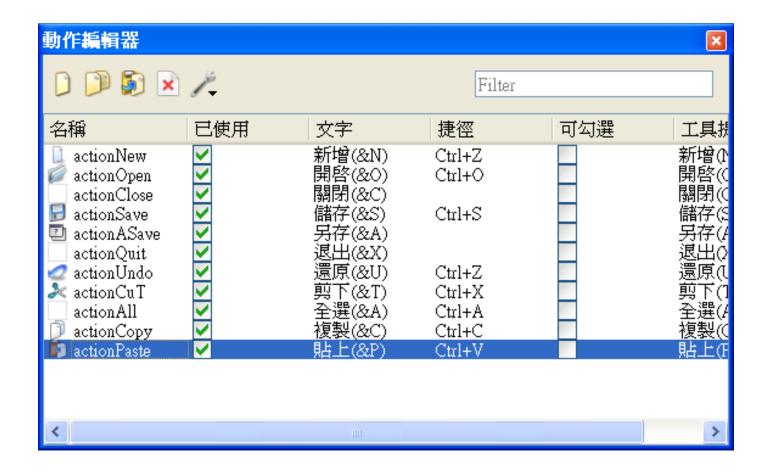
Qt Designer添加資源圖示給動作物件







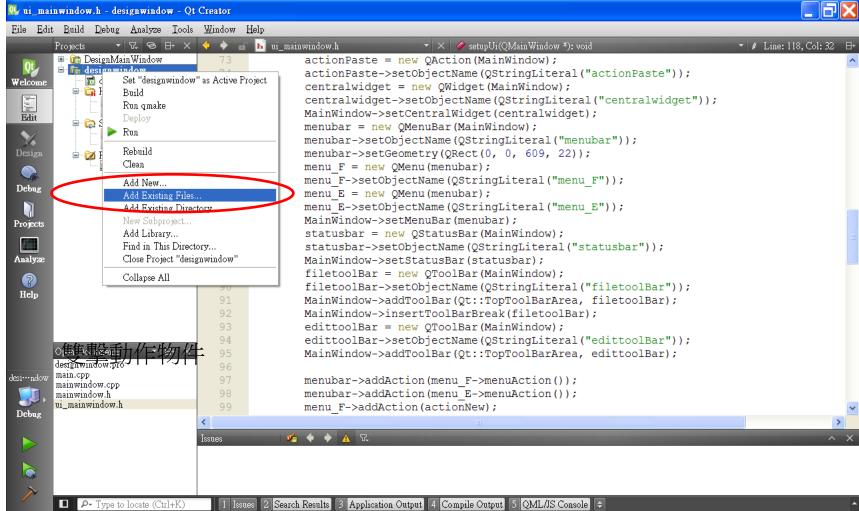
Qt Designer依下圖完成添加資源圖示給其它動作物件





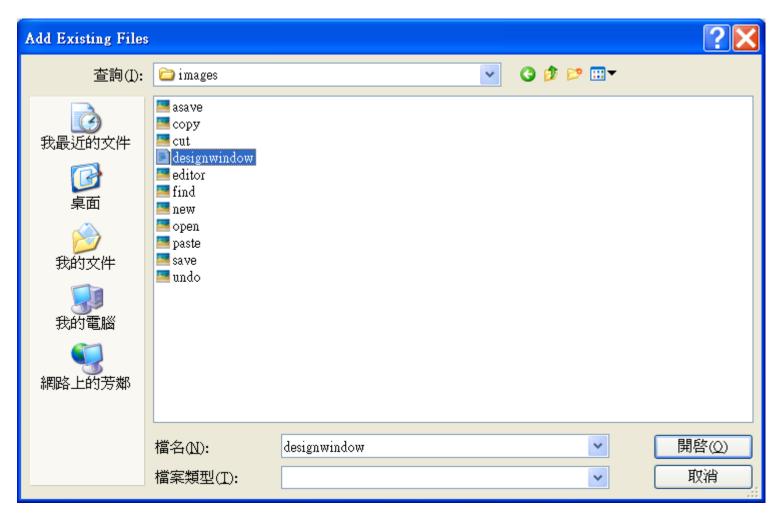


Qt Creator: 添加資源檔至專案檔中



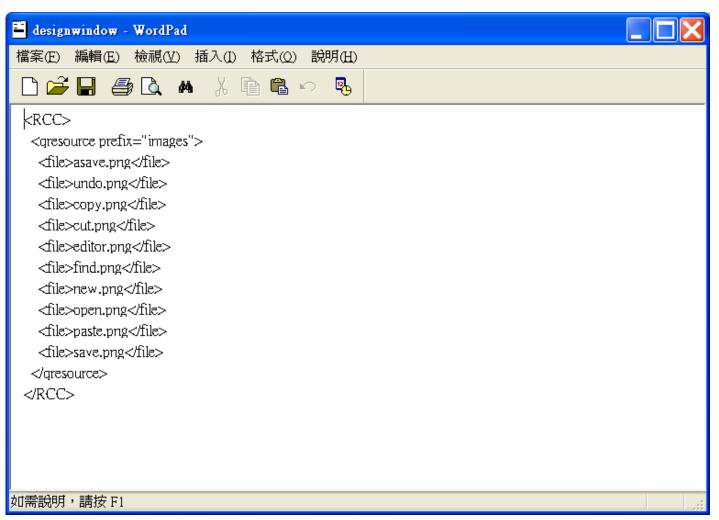
Qt





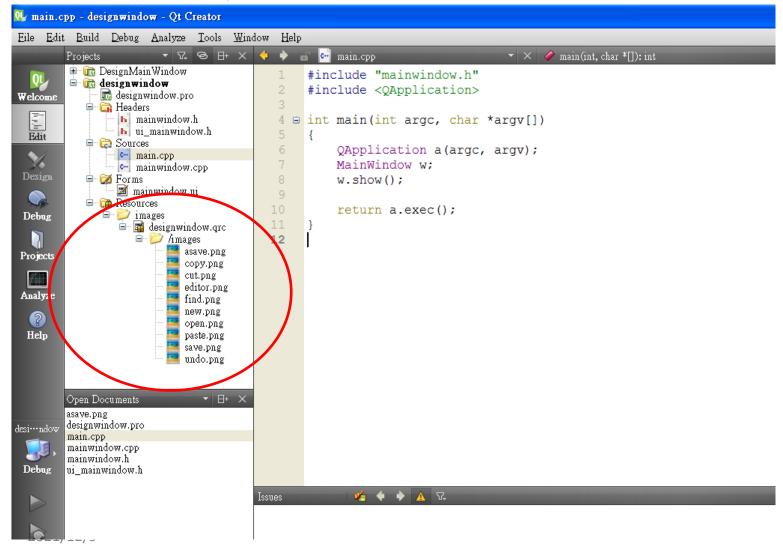






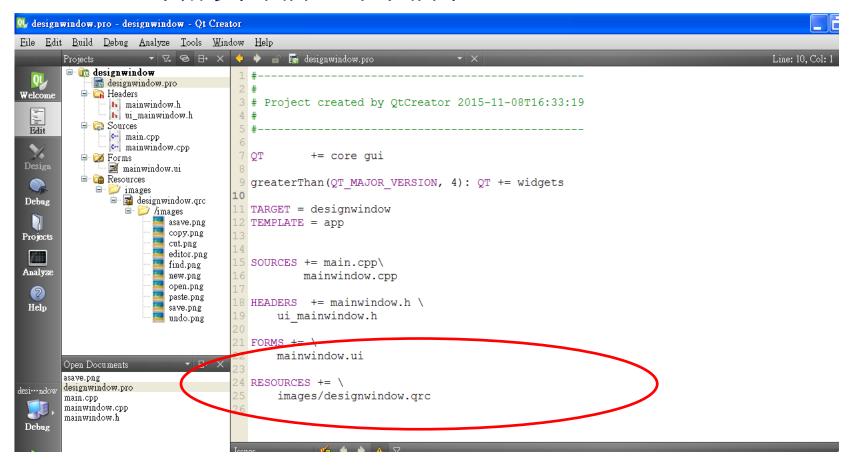








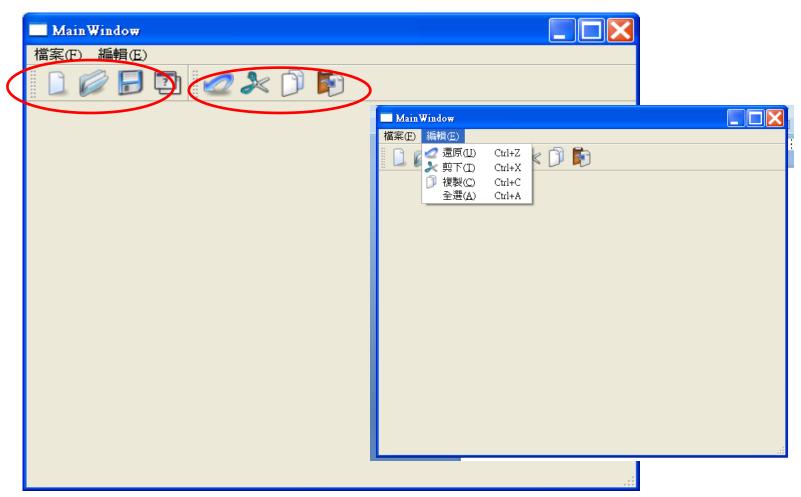








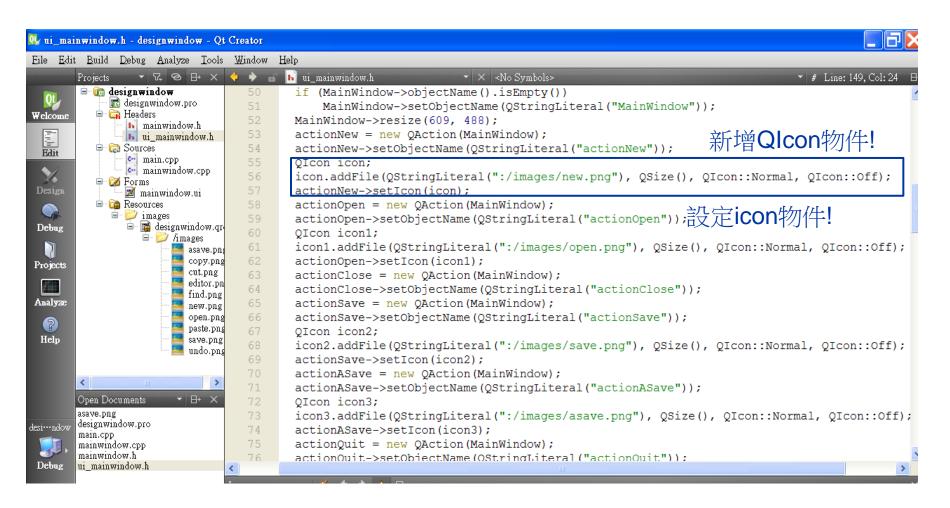
Qt Designer存檔後; Qt Creator 建置、執行專案







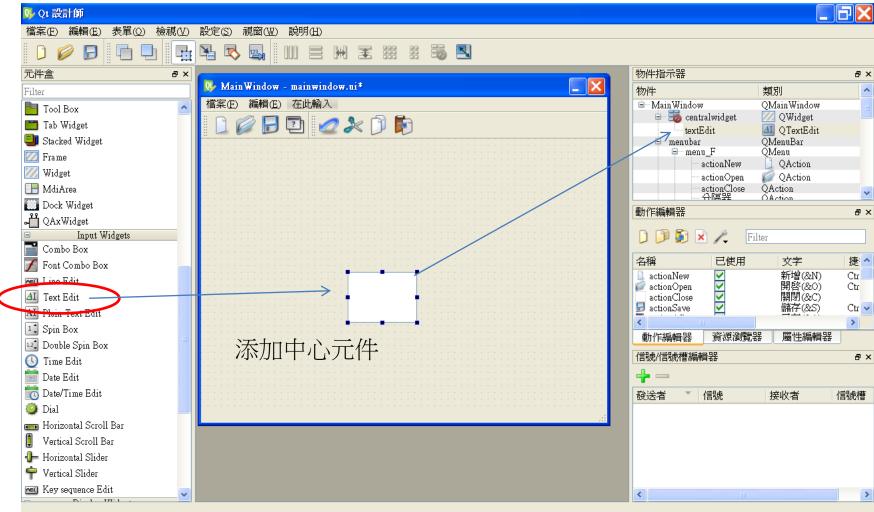
Qt Creator 檢視 ui_mainwindow.h







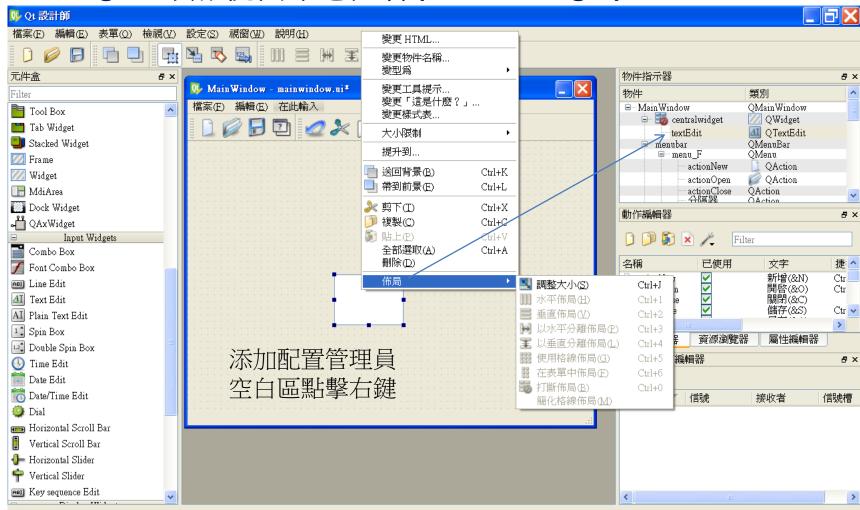
Qt Designer添加視窗中心元件(centralWidget)



Qt



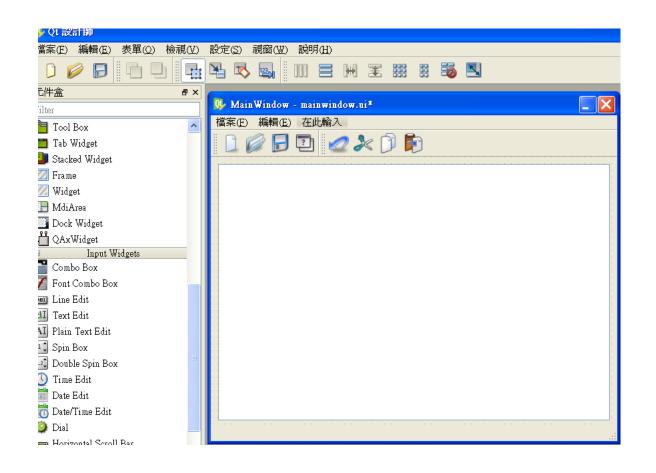
Qt Designer添加視窗中心元件(centralWidget)







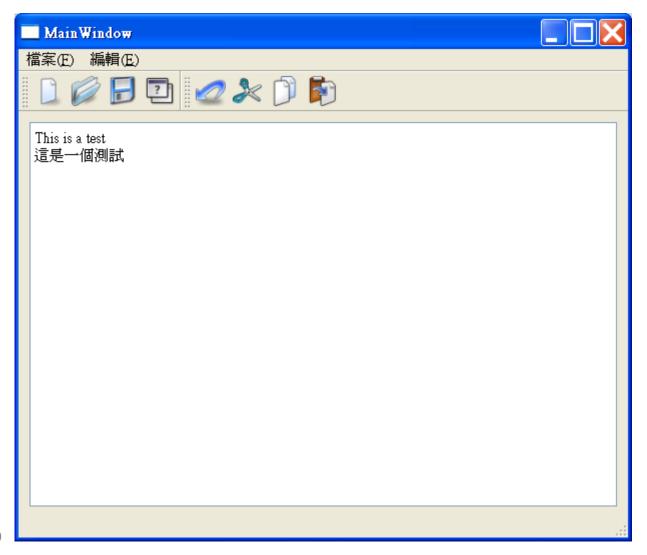
Qt Designer添加視窗中心元件(centralWidget)







Qt Designer存檔後;Qt Creator 建置、執行專案







Qt Creator 檢視 ui_mainwindow.h

