

CE103 Algorithms and Programming I

Week-12

C/Cpp GUI Programming

The Microsoft Foundation Class

MFC Tutorial

Visual C++ / MFC Calculator 3 - YouTube

MFC C++ : My videos source code download available now to members - YouTube

The Windows GUI interface programming using Microsoft Foundation Classes (MFC) with Visual C++ and .Net hands-on approach tutorials

Module 1: Using Visual C++ 6.0, .Net and Windows MFC Graphic User Interface (GUI) programming hands-on tutorial-Module1

GTK 4

<https://www.msys2.org/>

<https://www.msys2.org/>

Programming with gtkmm 4

Build and run GTK 4 applications with Visual Studio

<https://www.gtk.org/>

The Meson Build system

The GTK Project - A free and open-source cross-platform widget toolkit

```
// Include gtk
```

```
#include <gtk/gtk.h>
```

```
static void on_activate (GtkApplication *app) {  
    // Create a new window  
    GtkWidget *window = gtk_application_window_new (app);  
    // Create a new button  
    GtkWidget *button = gtk_button_new_with_label ("Hello, World!");  
    // When the button is clicked, close the window passed as an argument  
    g_signal_connect_swapped (button, "clicked", G_CALLBACK (gtk_window_close), window);  
    gtk_window_set_child (GTK_WINDOW (window), button);  
    gtk_window_present (GTK_WINDOW (window));  
}
```

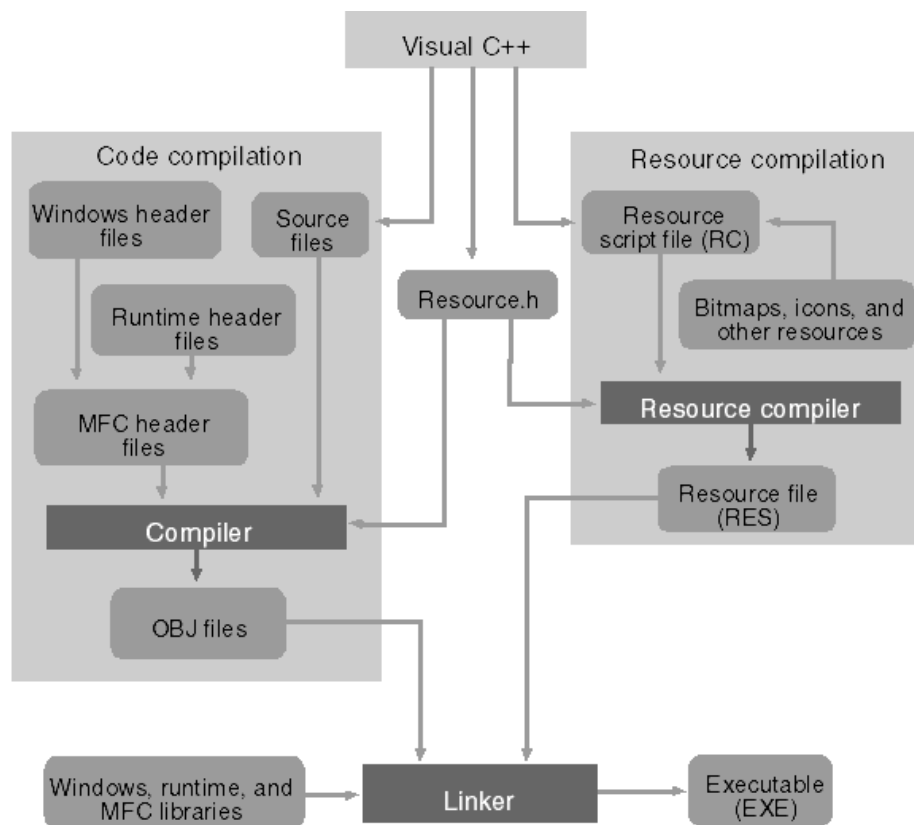


Figure 1: The Visual C++ application build process

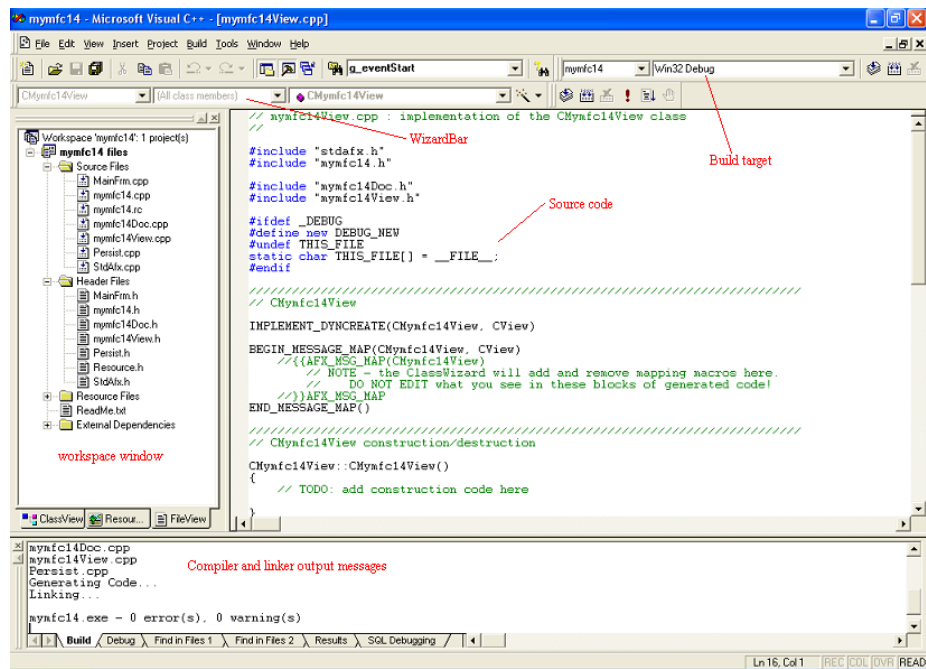


Figure 2: Visual C++ 6.0 windows with main components displayed

```
int main (int argc, char *argv[]) {
    // Create a new application
    GtkApplication *app = gtk_application_new ("com.example.GtkApplication",
                                              G_APPLICATION_FLAGS_NONE);
    g_signal_connect (app, "activate", G_CALLBACK (on_activate), NULL);
    return g_application_run (G_APPLICATION (app), argc, argv);
}
```

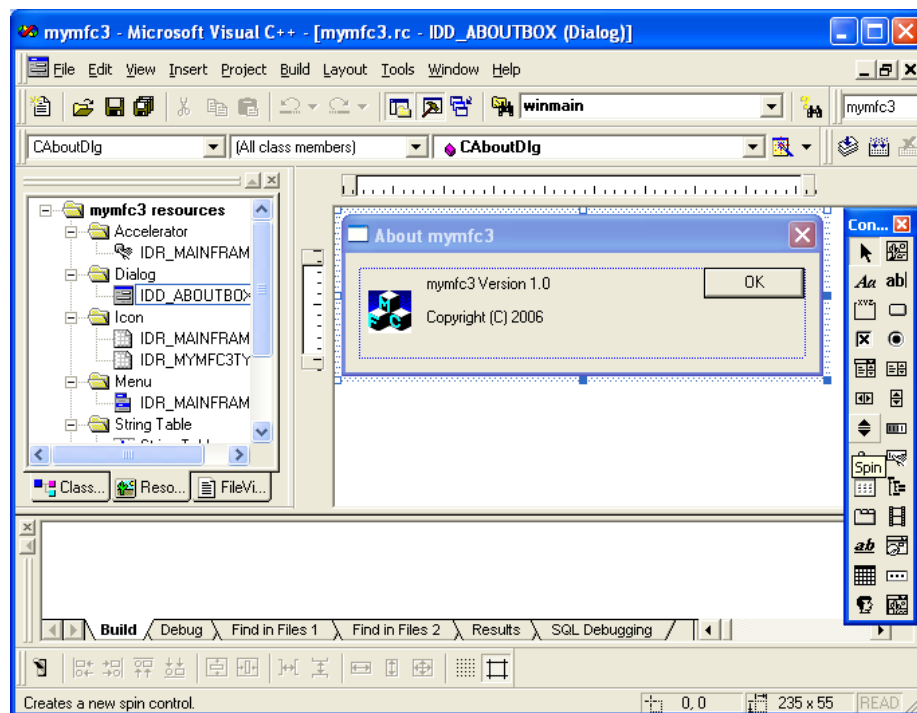


Figure 3: Visual C++ ResourceView