

CE103 Algorithms and Programming I

C/Cpp GUI Programming

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2 Week-12 (C/Cpp GUI Programming)

2.0.0.1 Fall Semester, 2021-2022 Download DOC¹, SLIDE², PPTX³

3 C/Cpp GUI Programming

The Microsoft Foundation Class

MFC Tutorial⁴

Visual C++ / MFC Calculator 3 - YouTube⁵

MFC C++ : My videos source code download available now to members - YouTube⁶

The Windows GUI interface programming using Microsoft Foundation Classes (MFC) with Visual C++ and .Net hands-on approach tutorials⁷

Module 1: Using Visual C++ 6.0, .Net and Windows MFC Graphic User Interface (GUI) programming hands-on tutorial-Module1⁸

¹[ce103-week-12-c-cpp-gui.tr.md_doc.pdf](#)

²[ce103-week-12-c-cpp-gui.tr.md_slide.pdf](#)

³[ce103-week-12-c-cpp-gui.tr.md_slide.pptx](#)

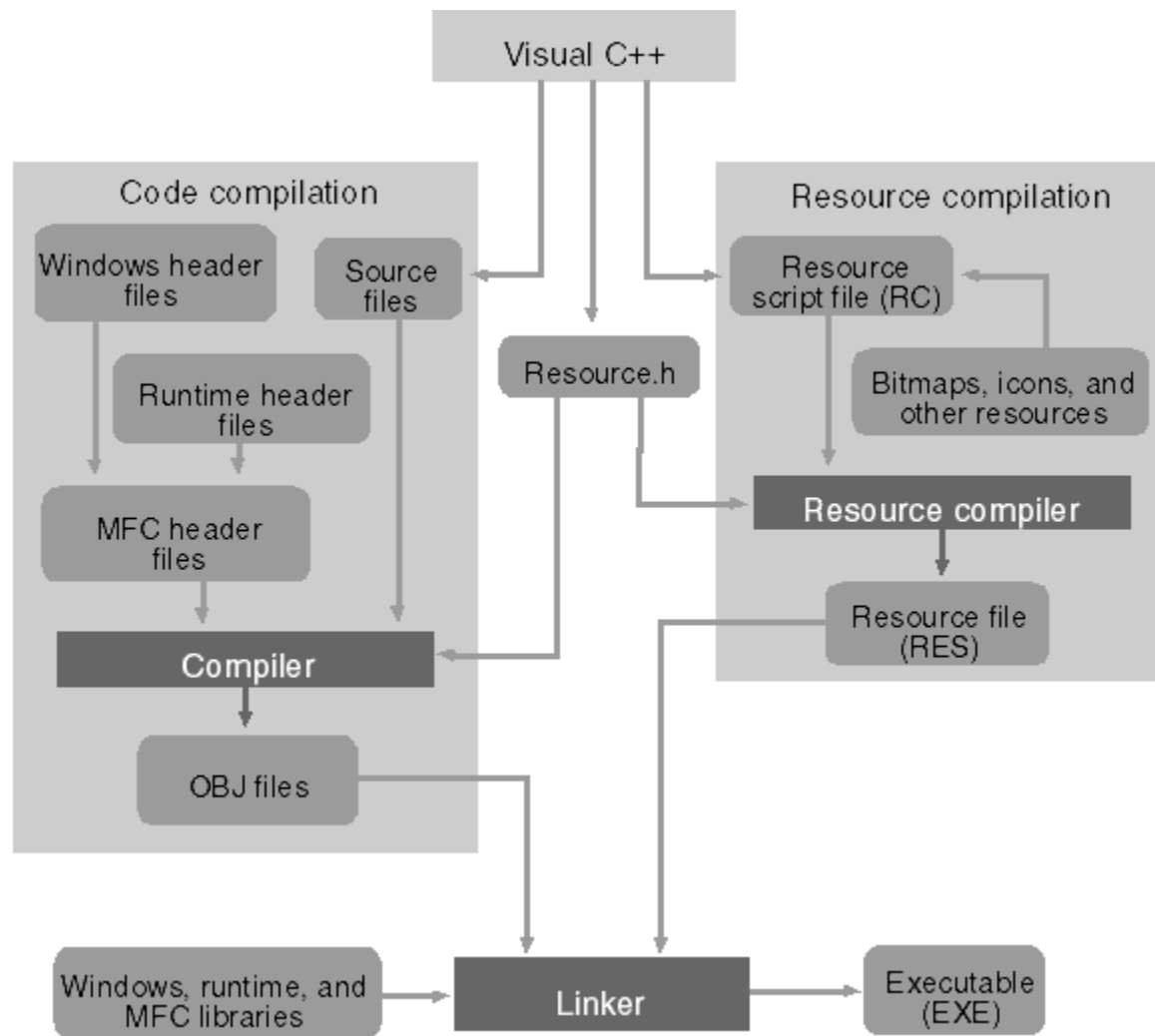
⁴<https://www.tutorialspoint.com/mfc/index.htm>

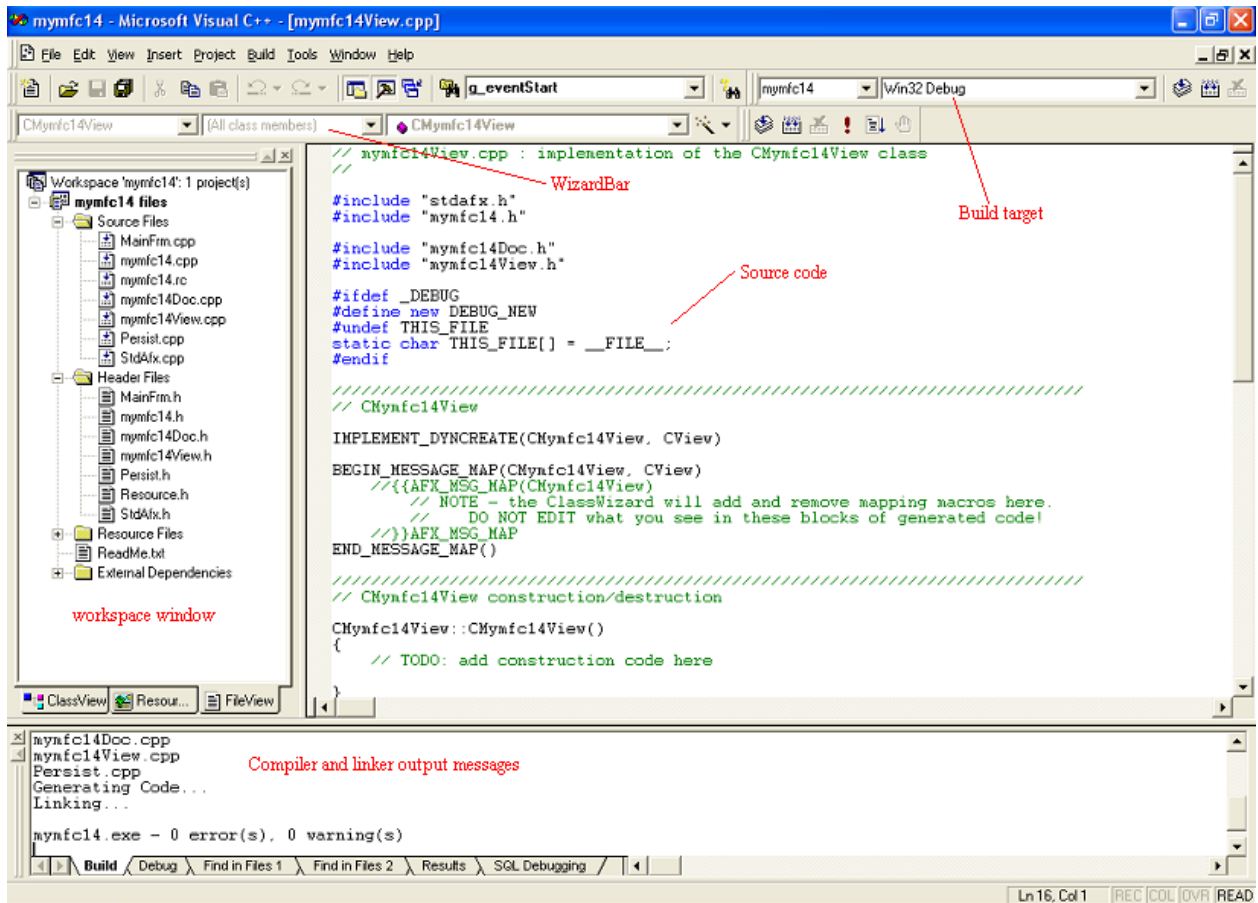
⁵https://www.youtube.com/watch?v=CgLLSi9aC4I&ab_channel=PekkaK.

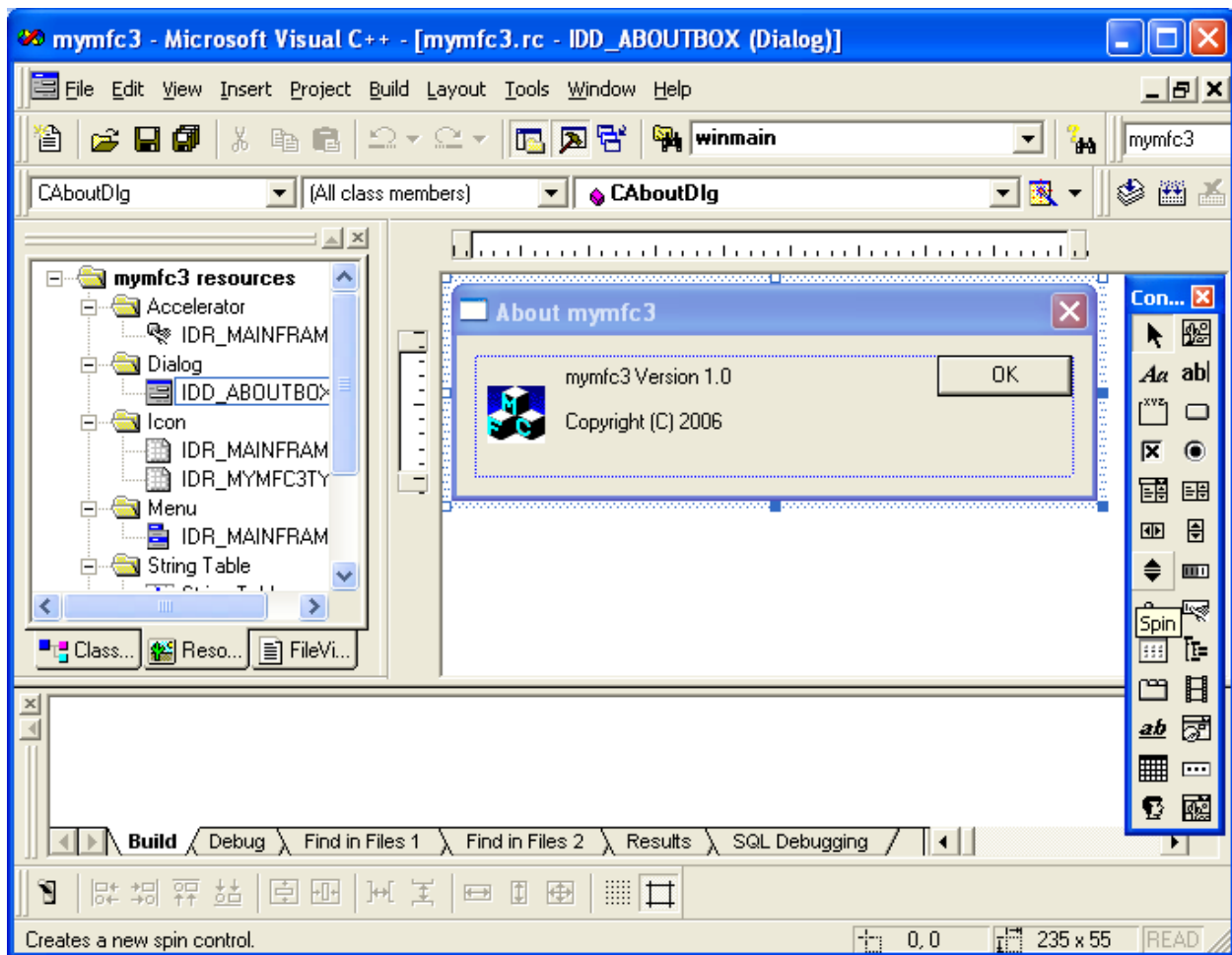
⁶https://www.youtube.com/watch?v=nmR1ZFYZDA&t=0s&ab_channel=PekkaK.

⁷<https://www.tenouk.com/cplusplusmfc.html>

⁸<https://www.tenouk.com/visualcplumfc/visualcplumfc1.html>







GTK 4

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

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

Programming with gtkmm 4⁹

Build and run GTK 4 applications with Visual Studio¹⁰

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

The Meson Build system¹¹

The GTK Project - A free and open-source cross-platform widget toolkit¹²

```
// 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);
}
```

⁹<https://developer-old.gnome.org/gtkmm-tutorial/stable/index.html>

¹⁰<https://www.collabora.com/news-and-blog/blog/2021/03/18/build-and-run-gtk-4-applications-with-visual-studio/>

¹¹<https://mesonbuild.com/index.html#features>

¹²<https://www.gtk.org/docs/architecture/>

```
gtk_window_set_child (GTK_WINDOW (window), button);
gtk_window_present (GTK_WINDOW (window));
}

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);
}
```

eBooks by Tags | RIP Tutorial¹³

¹³<https://riptutorial.com/ebook>