

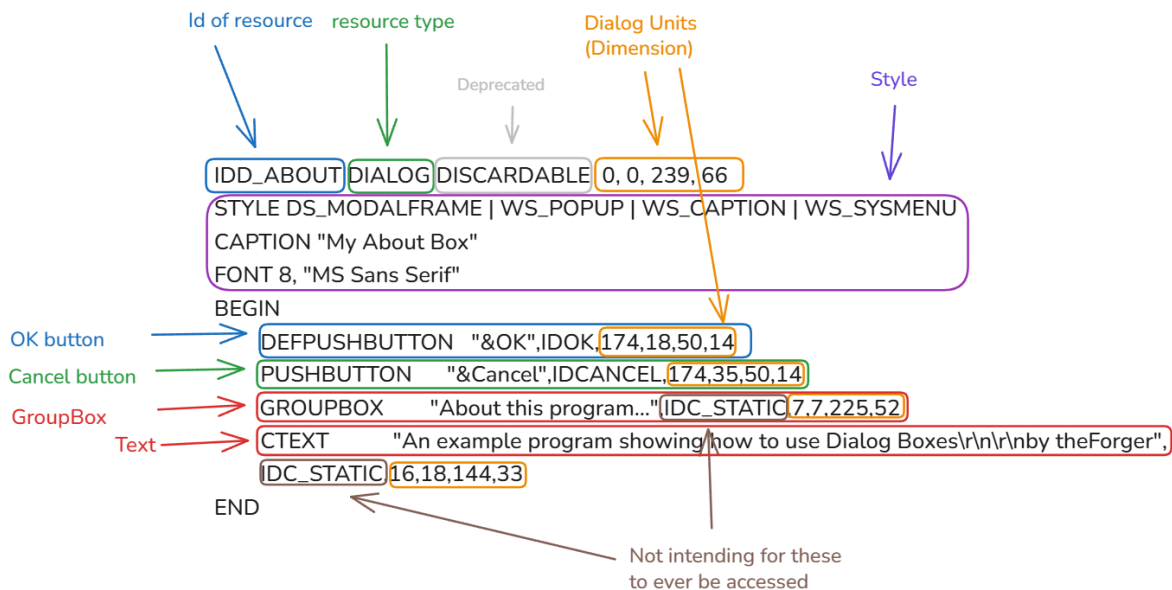
Dialogs, GUI coders best friend

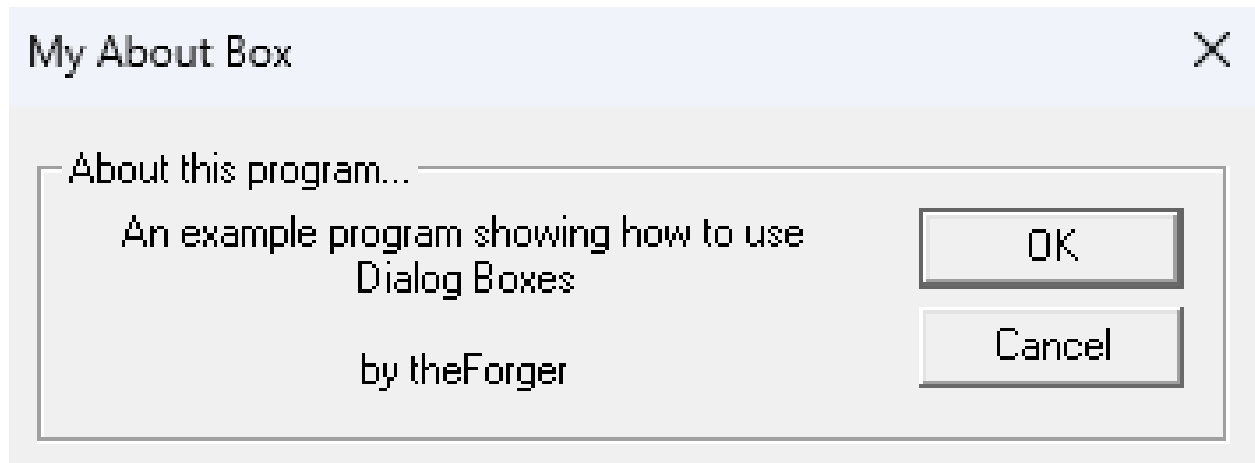
This information should be purely academic, as you almost always use a resource editor to create dialogs, but knowing how to do it from text is sometimes necessary, especially if you have no visual editor.

```

////////////////////////////////////
//
// Dialog
//
IDD_ABOUT DIALOG DISCARDABLE 0, 0, 239, 66
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "My About Box"
FONT 8, "MS Sans Serif"
BEGIN
    DEFPUSHBUTTON "OK", IDOK, 174, 18, 50, 14
    PUSHBUTTON "Cancel", IDCANCEL, 174, 35, 50, 14
    GROUPBOX "About this program...", IDC_STATIC, 7, 7, 225, 52
    CTEXT "An example program showing how to use Dialog Boxes\r\n\r\nby theForger",
        IDC_STATIC, 16, 18, 144, 33
END

```





To handle dialog actions the `WndProc` Callback handler can be used

```
case ID_STUFF_GOSOMEWHEREELSE:
{
    int ret = DialogBox(GetModuleHandle(NULL),
        MAKEINTRESOURCE(IDD_ABOUT), hwnd, AboutDlgProc);
    if (ret == IDOK) {
        MessageBox(hwnd, "Dialog exited with IDOK.", "Notice",
            MB_OK | MB_ICONINFORMATION);
    }
    else if (ret == IDCANCEL) {
        MessageBox(hwnd, "Dialog exited with IDCANCEL.", "Notice",
            MB_OK | MB_ICONINFORMATION);
    }
    else if (ret == -1) {
        MessageBox(hwnd, "Dialog failed!", "Error",
            MB_OK | MB_ICONINFORMATION);
    }
}
```



Here is important to pay attention to the `DialogBox` function. as is the one in charge of anchoring the Dialog created in the `.rc` file as well as confirming which function will be dialog handler.



This function `DialogBox()` Will enter what is called a **Modal loop**. Meaning that the user wont be able to do anything else until `EndDialog()` is called.

Modal Dialog Boxes

Dialog boxes are either "modal" or "modeless." The modal dialog box is the most common. When your program displays a modal dialog box, the user cannot switch between the dialog box and another window in your program. The user must explicitly end the dialog box, usually by clicking a push button marked either OK or Cancel. The user can, however, switch to another program while the dialog box is still displayed. Some dialog boxes (called "system modal") do not allow even this. System modal dialog boxes must be ended before the user can do anything else in Windows.

Charles Petzold

The dialog handler can be used to manage actions in the dialog. Is super important to manage the closing of the dialog after clicking a button, otherwise the program might be impossible to close gracefully.

DLGPROC callback function

```
BOOL CALLBACK AboutDlgProc(HWND hwnd, UINT Message, WPARAM wParam, LPARAM lParam)
{
    switch(Message)
    {
        case WM_INITDIALOG:

            return TRUE;
        case WM_COMMAND:
```

```
switch(LOWORD(wParam))
{
    case IDOK:
        EndDialog(hwnd, IDOK);
        break;
    case IDCANCEL:
        EndDialog(hwnd, IDCANCEL);
        break;
}
break;
default:
    return FALSE;
}
return TRUE;
}
```