

# Common dialogs

Windows programming

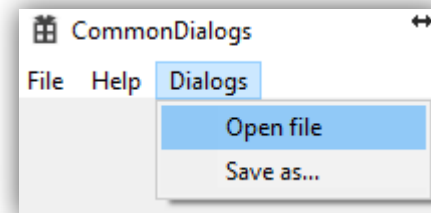
cuu duong than cong . com

# In this talk

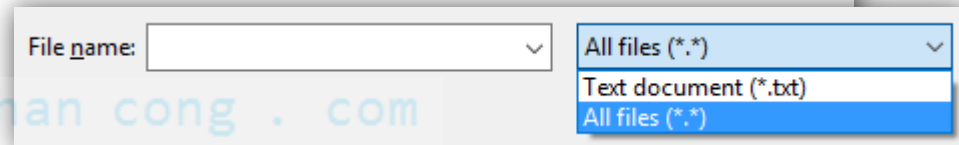
- ☐ Open and Save As Dialog Boxes
- ☐ Color Dialog Box
- ☐ Font Dialog Box
- ☐ Find and Replace Dialog Boxes

# Open file

```
const int BUFFER_SIZE = 260;  
OPENFILENAME ofn;
```



```
case ID_DIALOGS_OPENFILE:  
    ZeroMemory(&ofn, sizeof(ofn));  
    ofn.lStructSize = sizeof(ofn);  
    ofn.hwndOwner = hWnd;  
    ofn.nMaxFile = BUFFER_SIZE;  
    // Chú ý chuỗi bên dưới double zero terminated!  
    ofn.lpstrFilter = L"Text document (*.txt) \0*.txt\0All files (*.*)\0*.*\0";  
    ofn.nFilterIndex = 2; // Text | *.txt  
    ofn.lpstrInitialDir = NULL;  
    ofn.Flags = OFN_PATHMUSTEXIST | OFN_FILEMUSTEXIST;  
  
    if (GetOpenFileName(&ofn) == TRUE) {  
        MessageBox(hWnd, ofn.lpstrFile, L"File chosen", MB_OK);  
    }  
    else {  
        MessageBox(hWnd, L"You haven't chosen any file!", L"Cannot open", MB_OK);  
    }
```



# Save file

- ❑ **GetSaveFileName**
- ❑ Use the same structure **OPENFILENAME** like **GetOpenFileName**

cuu duong than cong . com

cuu duong than cong . com

# Choose color

```
CHOOSECOLOR cc;  
static COLORREF colors[16];  
static DWORD rgbCurrent; // initial color selection
```

```
case ID_DIALOGS_CHOOSECOLOR:  
    ZeroMemory(&cc, sizeof(cc));  
    cc.lStructSize = sizeof(cc);  
    cc.hwndOwner = hWnd;  
    cc.lpCustColors = (LPDWORD)colors;  
    cc.rgbResult = rgbCurrent;  
    cc.Flags = CC_FULLOPEN | CC_RGBINIT;  
  
    if (ChooseColor(&cc) == TRUE)  
    {  
        hBrush = CreateSolidBrush(cc.rgbResult);  
        rgbCurrent = cc.rgbResult;  
  
        //Yêu cầu cập nhật lại màu nền  
        InvalidateRect(hWnd, NULL, TRUE);  
    }
```

```
case WM_PAINT:  
    {  
        PAINTSTRUCT ps;  
        HDC hdc = BeginPaint(hWnd, &ps);  
        RECT rect;  
        GetClientRect(hWnd, &rect);  
        FillRect(hdc, &rect, hBrush);  
  
        EndPaint(hWnd, &ps);  
    }
```

static variable!

# Choose font

```
CHOOSEFONT cf;  
static LOGFONT lf;  
HFONT hfont;
```

```
case ID_DIALOGS_CHOOSEFONT:  
    ZeroMemory(&cf, sizeof(cf));  
    cf.lStructSize = sizeof(cf);  
    cf.hwndOwner = hWnd;  
    cf.lpLogFont = &lf;  
    cf.rgbColors = rgbCurrent;  
    cf.Flags = CF_SCREENFONTS | CF_EFFECTS;  
  
    if (ChooseFont(&cf) == TRUE)  
    {  
        hfont = CreateFontIndirect(cf.lpLogFont);  
        MessageBox(hWnd, cf.lpLogFont->lfFaceName, L"Font chosen", MB_OK);  
    }
```

# Find & replace

- ❑ **FindText / ReplaceText**
- ❑ Message: **FINDMSGSTRING**
- ❑ Data structure – **FINDREPLACE**
  - lpstrFindWhat
  - lpstrReplaceWith
  - Flags
    - FR\_DIALOGTERM
    - FR\_FINDNEXT
    - FR\_REPLACE
    - FR\_REPLACEALL
    - FR\_DOWN
    - FR\_MATCHCASE
    - FR\_WHOLEWORD

# Example

// Find

```
fr.lpstrFindWhat = L"Test";
```

```
fr.wFindWhatLen = 80;
```

```
fr.Flags = 0;
```

```
hdlg = FindText(&fr);
```

// Find & replace

```
fr.lpstrFindWhat = L"Test";
```

```
fr.wFindWhatLen = 80;
```

```
fr.lpstrReplaceWith = L"Hello";
```

```
fr.wReplaceWithLen = 80;
```

```
fr.Flags = FR_WHOLEWORD;
```

```
hdlg = ReplaceText(&fr);
```



# From Windows Vista

- ❑ **Common dialogs** has been replaced by **Common Item Dialog**
- ❑ [https://msdn.microsoft.com/en-us/library/windows/desktop/bb776913\(v=vs.85\).aspx](https://msdn.microsoft.com/en-us/library/windows/desktop/bb776913(v=vs.85).aspx)