Window styles

Windows programming

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In this talk

- Window's styles
- 2. Functions to work with a window
- 3. Basic message

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Window styles

WS_CHILD | WS_VISIBLE

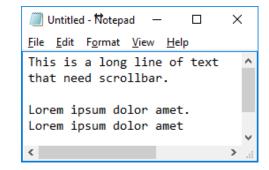
WS_DISABLED // EnableWindow(handle, TRUE/FALSE)

WS_BORDER

WS_CAPTION: has title bar & border

WS_OVERLAPPEDWINDOW

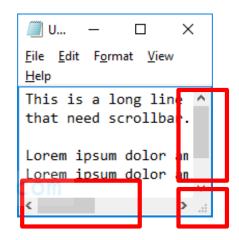
WS_OVERLAPPED | WS_CAPTION | WS_SYSMENU | WS_THICKFRAME | WS_MINIMIZEBOX | WS_MAXIMIZEBOX



Other styles

- WS_HSCROLL, WS_VSCROLL
- WS_SIZEBOX

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■ WS_TABSTOP: can receive the **keyboard focus** when the user presses the TAB key

Most basic functions

- Working with caption
 - GetWindowText / SetWindowText
 - GetWindowTextLength
- ShowWindow(handle, nCmdShow)
 - SW_SHOW / SW_HIDE
 - SW_MAXIMIZE / SW_MINIMIZE / SW_RESTORE
- CloseWindow(handle)
 - If the main window is closed, what happens?

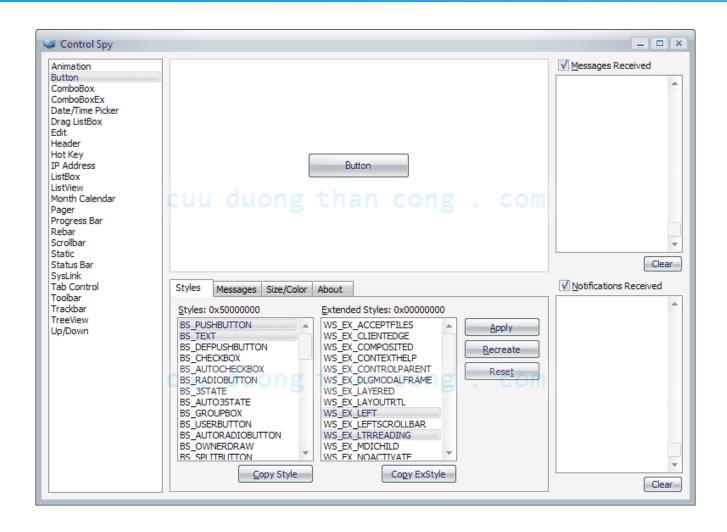
Basic messages

- WM_ENABLE: enabled state changed
- WM_MOVE / WM_MOVING
- WM_SIZE / WM_SIZING

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Control spy

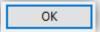




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5 types of buttons

1. BS_PUSHBUTTON



- 2. BS_CHECKBOX / BS_AUTOCHECKBOX
- 3. BS_3STATE / BS_AUTO3STATE
- 4. BS_RADIOBUTTON / BS_AUTORADIOBUTTON
- 5. BS_GROUPBOX: GroupBoxong ... com



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Checkbox

- Get state of checkbox
 - SendMessage(hwnd, BM_GETCHECK, 0, 0)
- Set state of checkbox
 - SendMessage(hwnd, BM_SETCHECK, BST_CHECKED, 0)
- BST_CHECKED | BST_INDETERMINATE |
 BST_UNCHECKED
 - Allow Remote Assistance

✓ Allow Remote Assistance

Radio button

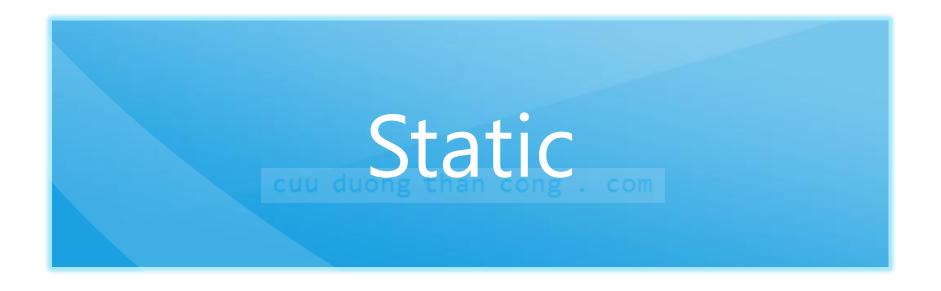
- Multiple group of radio button, use WS_GROUP
 - CreateWindow(L"BUTTON"), L"Choice",
 WS_CHILD | WS_VISIBLE | BS_AUTORADIOBUTTON | WS_GROUP,
 500, 100, 200, 40, hWnd, NULL, hInstance, NULL);

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Image in button

- BM_GETIMAGE
- BM_SETIMAGE
 - wParam: IMAGE_BITMAP | IMAGE_ICON
 - IParam: image handle than cong ...



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Basic style

- ☐ SS_LEFT / SS_RIGHT / SS_CENTER
- SS_ENDELLIPSIS: auto truncated & add ...
- SS_BITMAP / SS_ICON: Image static control

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Basic style

- ES_LEFT / ES_RIGHT / ES_CENTER
- ES_AUTOHSCROLL / ES_AUTOVSCROLL
- ES_MULTILINE
- ES_LOWERCASE / ES_UPPERCASE
- ES_PASSWORD / ES_READONLY / ES_NUMBER

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Basic messages

- EN_CHANGE: text changed
- EN_HSCROLL, EN_VSCROLL
- EN_SETFOCUS / EN_KILLFOCUS

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Basic functions

- EM_SETPASSWORDCHAR
- EM_SETREADONLY
- EM_GETSEL conduction of the conduction of the
 - SendMessage(handle, EM_GETSEL, &startPos, &endPos);
- EM_GETLINE / EM_GETLINECOUNT

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SendMessage (hwndEdit, WM_CUT, 0, 0);
SendMessage (hwndEdit, WM_COPY, 0, 0);
SendMessage (hwndEdit, WM_PASTE, 0, 0);

Homework

- Create a Notepad app.
- Can open, Save text file with Unicode
- Can Cut, Copy, Paste

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