Subclassing

Windows programming

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What is subclassing?

- Replace message handlers of a window with your own
- Two types of subclassing
 - Instance cuu duong than cong . com
 - Global

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New technique

SetWindowSubclass

☐ LRESULT CALLBACK MyControlWndProc(

HWND hWnd, UINT msg,
WPARAM wParam, LPARAM lParam,
UINT PTR uIdSubclass, DWORD PTR dwRefData)

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Benefit

- Several subclasses can share the same subclass procedure and the ID can identify each call
- The important advantage is that each subclass instance has its own reference data

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Old technique

```
OldWndProc = (WNDPROC) SetWindowLongPtr (hButton, GWLP_WNDPROC, (LONG_PTR) NewWndProc);
```

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Store old data

SetProp (hwnd, L"MyData"), (HANDLE)pMyData);

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Disadvantage

- The window procedure can only be replaced once
- Difficult to remove a subclass after it is created
- Associating private data with a window is inefficient
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- To call the next procedure in a subclass chain, you cannot cast the old window procedure and call it, you must call it by using the CallWindowProc function

Further reading

Using Visual Styles with Custom and Owner-Drawn Controls

https://msdn.microsoft.com/enus/library/windows/desktop/dd373487(v=vs.85).as px

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