

RE: listview vertical scrollbar width

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Thank you Jeffrey

Excellent answer!

I was not aware it was this complex, and I simply can not spend a lot of time on this right now. I will likely choose another control—likely a datagrid—that will allow me to change the vertical scroll bar dimensions.

Again, thanks for your help.
–Kevin

""Jeffrey Tan[MSFT]"" wrote:

Hi,

This question is much more complicated than it looks like. .Net Winform ListView control encapsulates Windows build-in List-View to leverage its various functions.

Windows has two kinds of scroll bars. There are the "built-in" scroll bars that you get when you use the WS_HSCROLL and/or WS_VSCROLL window styles, and there are scroll bar controls, which are child windows hosted in the parent controls. ListView control's scrollbars are the first case, that is the VScrollbar is drawn by Windows because of the WS_VSCROLL window style. You may use Spy++ to view ListView control structure and its windows style to verify this.

Since Windows help the .Net Winform to draw the WS_VSCROLL scrollbar in ListView, .Net Winform has very little control over the painting process, all the work are done in the Win32 WndProc. More complex, Scrollbars are considered the non-client area of ListView, so this WS_VSCROLL scrollbar is drawn by WM_NCPAINT based on my experience.

So, logically, if we want to customize the Scrollbar, we should resort to the Win32 ListView messages to control it. Unfortunately, Win32 ListView messages did not expose any interface for us to change the WS_VSCROLL scrollbar width, this introduced the complexity of this issue. An official

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solution is getting rid of the default Windows painting for WS_VSCROLL scrollbar and drawing the vscrollbar ourselves. However, we have to owner-draw everything in ListView, which is really complex. Evenmore, we should draw the non-client area of ListView.

Another guy "Hans Dietrich" found this complexity and used another tricky way of hiding the WS_VSCROLL scrollbar by removing WS_VSCROLL style, and then create the second type of VScrollBar control to simulate the WS_VSCROLL scrollbar function. Since VScrollBar control is a control, it is easy to change its width. However, other details are still a little complex. He written a C++ sample in the article below, you may give the basic logic a read:

"ResizeScrollbar – How to change width of built-in scroll bars"

<http://www.codeproject.com/miscctrl/resizescrollbar.asp>

Sorry, I can not find any C# sample implementing the same logic as the article.

If you still want to go on with implementing this logic in C#, please feel free to tell me, I will try my best to help you. Thanks.

Best regards,
Jeffrey Tan
Microsoft Online Community Support

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