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George Shepherd's Windows Forms FAQ

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If you have a FAQ, or any other good Windows Forms resource, please email me. The Windows Forms FAQ forum is available if you need more information.

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3. Windows Forms Books

- 3.1 Windows Forms Programming in C#?
- 3.2 Programming Microsoft Windows with C#?
- 3.3 C# Design Patterns?

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- 4.2 Where can'l find a discussion of databinding and windows forms?
- 4.3 How do I test for a null value in DataView.RowFilter?
- 4.4 I don't have SQL Server. Is there any way to run the samples that need SQL server?
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 - 4.9 How do I bind a mdb file to a datagrid?
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- 5.2 How can I autosize the rowheights in my datagrid?
- 5.3 How do I prevent sorting a single column in my DataGrid?
- 5.4 How do I programmatically select a row in DataGrid?
- 5.5 How can I translate a point to a cell in the datagrid?
- 5.6 I lost the settings in my DataGrid set during design-time?
- 5.7 How do I prevent a click into the grid highlighting a cell?
- 5.8 How do I prevent the datagrid from displaying its append row (the row at the end with an asterisk)? 5.9 How can I put a combobox in a column of a datagrid?
- 5.10 How can I catch a double-click into a column header cell?
- 5.11 How can I select the entire row when the user clicks on a cell in the row?



- 5.12 How can I get text from a column header in a MouseUp event?
- 5.13 How do I hide a column?
- 5.14 How do I color a individual cell depending upon its value or some external method?
- 5.15 How can I put a checkbox in a column of my DataGrid?
- 5.16 How can I restrict the keystrokes that will be accepted in a column of my datagrid?
- 5.17 How do I make a field auto increment as new rows are added to my datagrid?
- 5.18 How can I prevent a particular cell from being editable?
- 5.19 How do I move columns in a datagrid?
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 - 5.24 How can I have a column of icons in my datagrid?
 - 5.25 How can I tell if the current row has changed and whether I am on the AddNew row or not?
 - 5.26 How do I hide the gridlines or set them to a particular color?
 - 5.27 How can I get the selected text in an active gridcell?
 - 5.28 How do I determine whether a checkbox in my datagrid is checked or not?
 - 5.29 How can I bind the datagrid to a datasource without using any wizards?
 - 5.30 How can I bind two datagrids in a Master-Detail relationship?
 - 5.31 How do I get the row or column that has been clicked on?
 - 5.32 How do I add an unbound column to my bound datagrid?
 - 5.33 How do I get the row and column of the current cell in my datagrid?
- 5.34 How can I prevent the Enter key from moving to the next cell when the user is actively editing the cell and presses Enter?
 - 5.35 How do I set the width of a column in my DataGrid?
- 5.36 How can I implement OLE Drag & Drop between a DataGrid and another OLE DnD object that supports the Text format?
 - 5.37 How can I make my DataGrid support a single select mode, and not the default multiselect mode?
 - 5.38 How can I get celltips or tooltips to vary from cell to cell in my DataGrid?
 - 5.39 How can I get notification of the changing of a value in a column of comboboxes within my datagrid?
 - 5.40 How can I make the datagrid have no currentcell?
- 5.41 How can I make my grid never have an active edit cell and always select whole rows (as in a browser-type grid)?
- 5.42 I have hidden (column width = 0) columns on the right side of my datagrid, but tabbing does not work properly. How can I get tabbing to work?
 - 5.43 How can I get the number of rows in my DataGrid?
 - 5.44 How do I format a date column in a datagrid?
 - 5.45 How can I change the width of the row headers or hide them?
 - 5.46 How do I catch a doubleclick in my datagrid?
 - 5.47 How can I make my last column wide enough to exactly occupy all the client area of the datagrid?
 - 5.48 How can I prevent my user from sizing columns in my datagrid?
 - 5.49 How can I catch the bool values changing in a DataGridBoolColumn?
 - 5.50 When I click on a row header, the row is selected and no cell is active. How can I do this programmatically?
 - 5.51 How can I force the vertical scrollbar in my DataGrid to always be visible?
 - 5.52 How can I autosize a column in my datagrid?
 - 5.53 How can I get rid of the error icon that appears when there is an editing error?
 - 5.54 How do I find the top-left visible cell in a datagrid?
- 5.55 I want to display negative values with a CR suffix, instead of a minus sign. How can I perform custom formatting on the cells in my datagrid?
 - 5.56 I want to do sort of a database join of two tables. How can I use data from two DataTables in a single DataGrid?
 - 5.57 How do I display a column of buttons such as pushbuttons or combobox buttons?
- 5.58 How can I put up a confirmation question when the user tries to delete a row in the datagrid by clicking on the row header and pressing the Delete key?
 - 5.59 How can I enable column selections in my datagrid?
 - 5.60 How do I programmatically scroll the datagrid to a particular row? 5.61 How can I place text in the rowheader column of my datagrid?

 - 5.62 How do I set default values for new rows in my datagrid?
 - 5.63 How do I iterate through all the rows and columns in my datagrid?
 - 5.64 How can I specially color only the currentcell of my readonly datagrid? 5.65 How can I make the Enter Key behave like the Tab Key and move to the next cell?
 - 5.66 How do I use the DataColumn. Expression property to add a computed/combined column to my datagrid?
 - 5.67 How can I change the font used in a grid cell on a cell by cell or row by row basis?
 - 5.68 How can I use a mouse to select cell ranges in my datagrid?
 - 5.69 How can I control the cursor over my DataGrid?
- 5.70 How can I programatically add and remove columns in my DataGrid without modifying the DataTable datasource?
 - 5.71 How can I have a column of bitmaps in a DataGrid?
- 5.72 How can I add my custom columnstyles to the designer so I can use them in my DataGrid at design time?



- 5.73 After scrolling with the mouse wheel on a selected row in a DataGrid I cannot get it back into view. Is there a
- 5.74 How can I make the DataGrid column be blank and not display (null) as the default value?
- 5.75 How can I add a DateTimePicker column style to the DataGrid?
- 5.76 How do I determine the DataGridTableStyle MappingName that should used for a DataGrid to make sure the grid uses my tablestyle?
- 5.77 I have a derived DataGridColumnStyle. From within my Paint override, how can I get at other values in the DataGrid?
 - 5.78 How do I retrieve the current row from a DataTable bound to a DataGrid after the grid has been sorted?

 - 5.79 How can I catch when the user clicks off the grid, say to close the form? 5.80 How can I get a CheckBox column in a DataGrid to react to the first click?
 - 5.81 How can I use events to restrict key input to grid cells?
 - 5.82 How can I format columns in my DataGrid without explicilty adding DataGridColumnStyles?
- 5.83 How can I auto-adjust keyboard input? For example, make typing 12312002 be taken as a valid date, 12/31/2002.
 - 5.84 Can I display the rows in my datagrid in a free-form layout using textboxes on a panel?
 - 5.85 How can'l téll whether a scrollbar is visible in my DataGrid is visible?
 - 5.86 How do I autosize the columns in my DataGrid so they always fill the the grid's client area?
 - 5.87 How can I prevent all the cells in my DataGrid from being edited without deriving GridColumnStyle?
- 5.88 How can I prevent the plus-minus icon that appears next to the row header when I have a datagrid displayed bound to a datasource that has a relation defined?
 - 5.89 How can I display master-details-details in three separate grids?
- 5.90 In my datagrid, if I press tab to enter a column using a derived columnstyle, the column does not receive focus. Why?
 - 5.91 How can I detect when a cell starts being edited, not when it becomes current?

6. Windows Forms Docking

- 6.1 How can I make a control occupy all the client area of a form?
- 6.2 How can I make my control automatically grow when the parent form is sized?
- 6.3 What is the difference between a form's Anchor property and a form's Dock property?

7. Windows Forms Keyboard Handling

- 7.1 How can I prevent a control from getting a particular keystroke?7.2 How can I tell if an ALT, Shift or CTL key is pressed without catching an event?
- 7.3 How do I check the state of the virtual keys, Caps lock for example?
- 7.4 How can I simulate keyboard input in my application?
- 7.5 How can I catch keyboard messages on a application-wide basis?
- 7.6 How can I listen for certain keys at the Form level irrespective of which Control has the focus?

8. Windows Forms Layout

- 8.1 How can I programmatically set the initial position of a Form so that it is displayed properly after calling ShowDialog()?
 - 8.2 How do I create a custom layout engine?
- 8.3 I have a form with several controls on it. As I size the form, the controls are being resized continuously. Is it possible to postpone changing the controls position until the resizing is complete?

9. Windows Forms Licensing

- 9.1 How does .NET support licensing?
- 9.2 How do I find the file version of an EXE?

10. Windows Forms Menus

- 10.1 How do I clone menus, insert menus, use popup menus, etc.
- 10.2 How do I add a context menu to a control?
- 10.3 When using the ContextMenu on multiple Controls, how do I know on which Control the right click was performed?
 - 10.4 How do menu shortcuts work?
 - 10.5 How do I make the context menu appear only when clicked at certain portions of the Control?
 - 10.6 How do I prevent the context menu from showing up on certain keyboard keys (like Keys.Apps)?
 - 10.7 How do I know when a menu is closed/started so that I can refresh my status bar?
 - 10.8 Is there an Idle event which will get fired from which I could update my menu item's enabled state?

 - 10.9 How do I cancel a context menu programatically?

 10.10 Is there an easy way to create the "Window" menu that shows the list of child forms open?

 10.11 How can I work around my menu shortcuts from showing up incorrectly when I use Ctrl+Number?
 - 10.12 How do I control the position of the context menu when it is invoked via the keyboard?



- 10.13 How do I disable the default context menu of a textbox?
- 10.14 How can I make the context menu to close after a set time interval?
- 10.15 How can I add an icon to my menu items?
- 10.16 How to add a Separator in a menu?
- 10.17 How can I enable the mnemonics (underline) to show when my application is launched?

11. Windows Forms Mouse Handling

- 11.1 How can I resize a borderless form with a rubber-band effect?
- 11.2 How do I get a mouse cursor position in my control's client coordinates?
- 11.3 How can I catch the mouse being over a control?
- 11.4 How do I set the mouse cursor position?
- 11.5 How can I reset the OnMouseHover timer so that it will fire again without the mouse having to leave the client area of a control?
 - 11.6 How can I drag a window if it doesn't have a title bar or border?
 - 11.7 How can I determine if a mouse button is pressed and moving over my form?
 - 11.8 Why am I not receiving MouseLeave messages in a Control in my Form?

12. Windows Forms from MFC

- 12.1 As a VC++ programmer, what should I look out for when using C#?
- 12.2 Where can I find a succinct discussion of Windows Forms?
- 12.3 When I add a destructor to a class, why isn't it hit when my instantiated object goes out of scope?
- 12.4 How do I convert a string to a double or int? What plays the role of atof and atoi in C#?
- 12.5 What class or method do I use to retrieve system metrics like the width of a scrollbar?
- 12.6 In C++, the code "MyClass ht;" creates an object ht on the stack frame. But in C#, this same code compiles, but gives a runtime error. Why?
- 12.7 I need to encode the LParam argument of a mouse message. How do I do MakeLong , HiWord and LoWord type conversions?
 - 12.8 How do you clear the contents of a list box?

13. Windows Forms from VB6

- 13.1 How do I draw a line in VB7 as there is no Line command as there was in VB6?
- 13.2 What is the replacement for VB6's SendKeys statement?
- 13.3 In VB6, I used control arrays to have a common handler handle events from several controls. How can I do this in Windows Forms?
- 13.4 What is different about working with forms in VB.NET? For example, how can I reference one form from another form?

14. Windows Forms Patterns

- 14.1 How to display a status dialog in a background thread during a long operation and alow the user to cancel?
- 14.2 How can I throw my events asynchronously?
- 14.3 Why are the Tooltips not being shown on a NumericUpDown control?
- 14.4 How to get the hyperlink and the hyperlink text dragged from IE in my Control's drag-drop event?

15. Windows Forms Printing

- 15.1 How do I print a form?
- 15.2 How do I display the PrintPreview maximized and control its zooming?

16. Windows Forms Resources

- 16.1 What are the steps to compiling and using multiple language resources?
- 16.2 How do I load a BMP file that has been added to my solution as an embedded resource?
- 16.3 Why doesn't a Form containing an ImageList not open in WinRes?
- 16.4 Where can I find information on globalization?
- 16.5 How do I read embedded resources?
- 16.6 How can I check if a certain resource is included in a assembly?
- 16.7 How can I save a temporary disk file from an embedded string resource?
- 16.8 How do I embed a manifest file into my exe?
- 16.9 How do I read or write resources from code?
- 16.10 How do I create resources to make culture-aware programs without re-compiling code?
- 16.11 How do I programmatically use resources to make my programs culturely aware?
- 16.12 How can I dynamically load a resource file?

17. Windows Forms Scrolling



- 17.1 How do I add support for custom scrolling to my own user control?
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18. Windows Forms Tips

- 18.1 How do I write a screen saver?
- 18.2 How do I determine the screen resolution?
- 18.3 How do I determine the working area of a screen without the systemtray area?
- 18.4 How do I position my form to the bottom right of the screen when it opens up the first time above the system tray?
 - 18.5 How do I change my screen's resolution programatically?
 - 18.6 How do I determine the current date/time?
 - 18.7 How do I determine the time taken for a long operation that I perform?
- 18.8 What are the implications of using the Timer class in System. Timers as opposed to the Timer class in System.Windows.Forms?
 - 18.9 Is there an easy way to Create/Delete/Move files in the Windows File System?
 18.10 How can I use XP Themes with Windows Forms using the .NET FrameWork 1.1?
 18.11 How can I use XP Themes with Windows Forms using the .NET FrameWork 1.0?

 - 18.12 How do I use Windows Forms Controls in Internet Explorer?
 - 18.13 Are event handlers required to have this signature void MyEventHandler(object sender, EventArgs e)?
 - 18.14 How do I change a directory name?
 - 18.15 How do I beep the computer's speaker in a Windows Form application?
 - 18.16 How do I use the system clipboard?
 - 18.17 How do I add an application to the Window's Tray?
- 18.18 Why would I be getting a NullReferenceException in Windows Forms with no application code in the call stack?
- 18.19 When I try to catch the Resize event to handle sizing of MDI children, the event is called even before my form's constructor can create the children throwing an exception. How do I avoid this?
 - 18.20 How can I tell if the user has changed some system preference such as the locale or display settings?
 - 18.21 What mechanisms does .Net provide to convert one type to another?
- 18.22 Its possible that some of my class members will not be initialized when one of my virtual members gets called even before the constructor. How can I avoid this?
 - 18.23 In a Hashtable, why doesn't setting the value for an existing key to be null remove the key from the Hashtable?
 - 18.24 How do I create windows shortcuts on my desktop programatically in .Net?
 - 18.25 How can I add a custom verb to the file and folder context menus in the explorer shell?
 - 18.26 Can working on WinForms and .Net in general get exciting?
 - 18.27 I have a long loop. How can I make my application continue to process events while it is executing this loop?
 - 18.28 How can I display HTML in a Form?
 - 18.29 The MessageBox always appears in the center of the screen. How can I change it's location?
 - 18.30 If I have a button with &Next as the text, the N-accelerator key does not appear until I press Alt. Why?
 - 18.31 How can I shut down/restart the OS from my Windows Forms Application?
 - 18.32 I get a message 'DragDrop registration' failed. Why?
 - 18.33 What is the purpose of the [STA Thread] attribute for the Main method of a C# program?
- 18.34 I add my application to the Window's Tray, set ShowInTaskBar to false, but the program still appears in the Alt+Tab list.

19. Windows Forms Common Dialogs

- 19.1 How do I use the ColorDialog to pick a color?
- 19.2 How do I use the FontDialog class to set a control's font?
- 19.3 How do I implement a Folder Browser class?
- 19.4 How can I get just the name of a file from the complete path string?
- 19.5 How can I get just the extension of a file from the complete path string?
- 19.6 How do I use the OpenFileDialog?
- 19.7 How do I specify the path for the FolderBrowser instance when it opens the first time?

20. Windows Forms ListBox

- 20.1 How do I add and delete items from a ListBox?
- 20.2 How do I implement Drag and Drop support between ListBoxes?
- 20.3 How can I drag file names from Windows Explorer and drop them into a listbox?
- 20.4 How do I implement an ownerdrawn listbox?
- 20.5 How can I set the width of a listbox to fit the text?

21. Windows Forms ComboBox

- 21.1 How do I bind the values of an enum to a ComboBox?
- 21.2 How can I programmatically prevent the combobox from dropping?



- 21.3 How can I turn off editing in the textbox portion of a ComboBox, restricting the user to selecting only those options in the drop list?
 - 21.4 How can I adjust the height of the of my ComboBox dropdown?
 - 21.5 How do I implement an owner drawn combobox?
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 - 21.7 How do I set the width of a combobox to fit the entries in its list?
 - 21.8 How can I programmatically create a new list for my ComboBox dropdown?

22. Windows Forms RichTextBox

- 22.1 How can I create and save a RTF file?
- 22.2 How can I get a string that contains RTF format codes into a RichTextBox?
- 22.3 How do I make the RichTextBox support drag and drop?
- 22.4 How do I set the color and font in a RichEditBox?
- 22.5 How can I change the FontStyle of a selection without losing the styles that are present?
- 22.6 How can I programmatically position the cursor on a given line and character of my richtextbox? 22.7 How can I load an embedded rich text file into a richtextbox?
- 22.8 How can I print my rich text?
- 22.9 Where can I find more information on the RTF specification?
- 22.10 How can I add a hyperlink to a RichTextBox control?

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- 23.1 How do I add SubItems to a ListView control?
- 23.2 When I call ListViewItem.Selected = true;, why doesn't the item get selected? 23.3 How do I unselect the selected items in a ListView programatically?
- 23.4 I am trying to programmatically change the ForeColor and BackColor properties of subitems in a listview. Why doesn't this work?
 - 23.5 How do I implement custom column sorting in a listview?
 - 23.6 How do I programmatically select an item in my listview?
 - 23.7 How can I sort a column in a ListView?
 - 23.8 How can I implement an owner drawn listview?
 - 23.9 How can I tell which column (subitem) has been clicked on in my listview?