

# CGridListCtrlEx - Grid Control Based on CListCtrl

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🕒 3.7M ⏪ 66.7K 📄 457 💬 824

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A custom draw CListCtrl with subitem editing and formatting

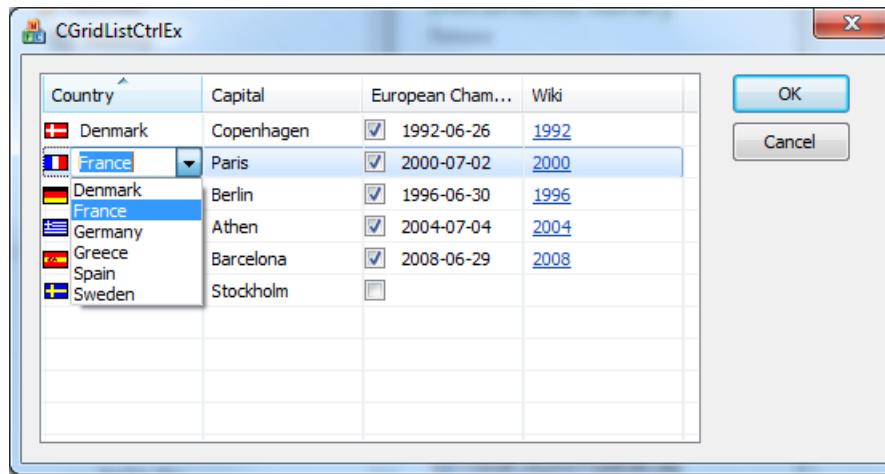
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[Download source code - 180 KB](#)

## Introduction

Microsoft's [CListCtrl](#) has support for displaying data in a grid using the report style, but we have to make several changes to implement features like:

- [Sorting](#)
- [Cell navigation and keyboard search](#)
- [Tooltips](#)
- [Hiding and showing columns](#)
- [Cell editing](#)
- [HyperLinks](#)
- [Custom row and cell coloring](#)
- [Grouping](#)
- [Clipboard \(copy only\)](#)
- [Persist column width, position and visibility](#)
- [OLE Drag and Drop \(includes reordering of items\)](#)

This article demonstrates how to use [CGridListCtrlEx](#), which implements all the above features while maintaining the Windows XP/Vista look.



The [GitHub - CGridListCtrlEx](#) can be used if wanting Git/Subversion access, and there is also [Doxygen Documentation](#).

## Background

There are lots of advanced grid controls that extend the [CListCtrl](#), and one of those is the [Enhanced List Control \(CGfxListCtrl\)](#). This wonderful control provides all the above features, but fails to handle Windows XP and Vista. Finding a good replacement for this control is not very easy:

- [MFC Grid Control](#) - Doesn't inherit from [CListCtrl](#) so it is not restricted by it, but it will not benefit from any improvements that Microsoft adds to the [CListCtrl](#).

- **Ultimate Grid** - Like MFC Grid Control, it doesn't inherit from **CListCtrl**. Originally one had to buy it, but now it is free to use.
- **CQuickList** - Very close to being a perfect replacement, but hard to add new ways to display data, and it requires **LVS\_OWNERDATA** that makes sorting a little harder.
- **XListCtrl** - Also a very complete **CListCtrl**, but hard to add new ways to display data, and it fails to support **LVS\_OWNERDATA**. One now has to buy a license, to get the latest version.
- **Another Report List Control** - Simple and easy to use, but lacks other means to edit data besides using **CEdit**, and also misses subitem navigation.
- **CListCtrlEx** - Implements lots of feature and is well documented. Originally required **LVS\_OWNERDRAWFIXED**, and now evolved into using custom draw. The combination of both custom draw and owner draw causes the code to be a little complicated, and it also doesn't support **LVS\_OWNERDATA**.

The **CGridListCtrlEx** inserts an abstract layer called column traits that handles the cell drawing and editing. In case Microsoft extends their **CListCtrl** again, then hopefully, the core of **CGridListCtrlEx** will continue to function.

## How to Use the CGridListCtrlEx

The **CGridListCtrlEx** tries to stay true to the **CListCtrl**, and doesn't try to replace anything the **CListCtrl** already provides. This means we can replace a **CListCtrl** with **CGridListCtrlEx** without needing to do anything more.

It is recommended that we don't use the **CGridListCtrlEx** directly, but create a new class that inherits/derives from **CGridListCtrlEx**. This will make it easier to migrate any updates there will be to the **CGridListCtrlEx** class later on.

### Editing Cells/Subitems

By default, when inserting columns in the **CGridListCtrlEx**, they will be configured as read-only, without the ability to be edited. By using **CGridListCtrlEx::InsertColumnTrait()**, we can provide a **CGridColumnTrait** class which specifies what type of editor it should use.

**C++**

```
CGridColumnTrait* pTrait = new CGridColumnTraitEdit;
m_ListCtrl.InsertColumnTrait(nCol, title.c_str(), LVCFMT_LEFT, 100, nCol, pTrait);
```

When having edited an item, a standard **LVN\_ENDLABELEDIT** message will be sent to the **CListCtrl**. When the **CGridListCtrlEx** receives this message, it will automatically call the virtual method **CGridListCtrlEx::OnEditComplete()**, allowing a derived class to validate the input and maybe update an underlying data model.

### Editing Cells/Subitems with a Combo-box

By using **CGridListCtrlEx::InsertColumnTrait()**, we can also provide a **CGridColumnTrait** class which works as a **CComboBox**.

**C++**

```
CGridColumnTraitCombo* pTrait = new CGridColumnTraitCombo;
pTrait->AddItem(0, "Hello");
pTrait->AddItem(1, "Goodbye");
m_ListCtrl.InsertColumnTrait(nCol, title.c_str(), LVCFMT_LEFT, 100, nCol, pTrait);
```

We can specify the items of the **CComboBox** when inserting the columns (as shown above). If we want to provide the **CComboBox** items dynamically, then we can override the **CGridListCtrlEx::OnEditBegin()**. Use **dynamic\_cast<>** to either call the column trait method **CGridColumnTraitCombo::LoadList()**, or to work on the returned **CComboBox**-editor directly.

If wanting to get the itemdata of the **CComboBox**-item selected, then one can override **CGridListCtrlEx::OnEditComplete()** and check the parameter value **plVDI->item.lParam**. One is required to save the itemdata elsewhere, as it cannot be stored inside the local datamodel of **CListCtrl**.

### Sorting Rows

By default, the `CGridListCtrlEx` will have sorting enabled for all columns, where it will perform a simple text-comparison. It is possible through the column traits to implement custom sorting by overriding `CGridColumnTrait::OnSortRows()`.

To configure a column trait to sort using number comparison:

C++

```
CGridColumnTraitEdit* pTrait = new CGridColumnTraitEdit;
pTrait->SetSortFormatNumber(true); // Numeric column
m_ListCtrl.InsertColumnTrait(nCol, title.c_str(), LVCFMT_LEFT, 100, nCol, pTrait);
```

The column trait `CGridColumnTraitDateTime` will automatically attempt to sort using date comparison.

We also have the option to override the `CGridListCtrlEx::SortColumn()` method. Then, it is just a matter of choosing the right way to perform the sorting. See also [CListCtrl](#) and [Sorting Rows](#).

## Showing Tooltip

By default, the `CGridListCtrlEx` will just display the cell contents as tooltip. If we want to display something different in the tooltip, then we can override the `CGridListCtrlEx::OnDisplayCellTooltip()` method.

## Formatting Cells/Subitems

If we want to change the foreground/background color or the font style (bold, italic, underline), then we can override the methods `CGridListCtrlEx::OnDisplayCellColor()` and `CGridListCtrlEx::OnDisplayCellFont()`.

C++

```
bool MyGridCtrl::OnDisplayCellColor(int nRow, int nCol, COLORREF& textColor, COLORREF& backColor)
{
    if (nRow == 3 && nCol == 3)
    {
        textColor = RGB(0, 255, 0);
        backColor = RGB(0, 0, 255);
        return true; // I want to override the color of this cell
    }
    return false; // Use default color
}
```

## Displaying Cell/Subitem Images

The `CGridListCtrlEx` enables the extended style `LVS_EX_SUBITEMIMAGES` by default, but one is still required to attach a `CImageList` using `CListCtrl::SetImageList()`.

After having attached the images, one can bind a cell/subitem with an index in the `CImageList`. This can be done with `CGridListCtrlEx::SetCellImage()`, or if using `I_IMAGECALLBACK` then return the image index by overriding `CGridListCtrlEx::OnDisplayCellImage()`.

The `CGridListCtrlEx` also enables the extended style `LVS_EX_GRIDLINES` by default, which can cause subitem images to overlap the grid border. This can be solved by making sure that the image only uses 15 of the 16 pixels (first pixel transparent).

When using subitem images and running the application on Windows XP or using classic style, it will show a white background when a row is selected. This can be fixed by using `CGridRowTraitXP`:

C++

```
m_ListCtrl.SetDefaultRowTrait(new CGridRowTraitXP);
```

## Checkbox Support

`CListCtrl` supports checkboxes for the label column out of the box. Just apply the extended style `LVS_EX_CHECKBOXES`:

C++

```
m_ListCtrl.SetExtendedStyle(m_ListCtrl.GetExtendedStyle() | LVS_EX_CHECKBOXES);
```

Remember not to use `InsertHiddenLabelColumn()` as it will hide the label column and its checkbox. One can use `GetCheck()` / `SetCheck()` to retrieve/modify the checkbox value.

If wanting to have checkboxes for multiple columns, then one can use `CGridColumnTraitImage` (and its specializations):

C++

```
// Appends the unchecked/checked state images to the list control image list
int nStateImageIdx = CGridColumnTraitImage::AppendStateImages(m_ListCtrl, m_ImageList);
m_ListCtrl.SetImageList(&m_ImageList, LVSIL_SMALL);
// Creates an image column, that can switch between the 2 images
CGridColumnTrait* pTrait = new CGridColumnTraitImage(nStateIdx, 2);
m_ListCtrl.InsertColumnTrait(nCol, title.c_str(), LVCFMT_LEFT, 20, nCol, pTrait);
for(int i=0; i < m_ListCtrl.GetItemCount(); ++i)
    m_ListCtrl.SetCellImage(i, nCol, nStateImageIdx); // Uncheck item
```

The label column will automatically display the image column when assigning an `CImageList` using `SetImageList()`. It is not possible to disable this behavior, but one can hide the label column using `InsertHiddenLabelColumn()`.

`CGridColumnTraitImage` uses the cell image to draw the checkbox, so it is not possible to have both cell image and checkbox in the same column. To get and set the checked / unchecked state, one can use `GetCellImage()` / `SetCellImage()`.

`CGridColumnTraitImage` supports sorting according to whether the checkbox is enabled. Use `CGridColumnTraitImage::SetSortImageIndex()` to enable this.

`CGridColumnTraitImage` also supports toggling of checkboxes for all selected rows. Use `CGridColumnTraitImage::SetToggleSelection()` to enable this.

## Hyperlink support

Hyperlink columns can display the cell contents as links, which can be clicked and will launch an external applications like the default web-browser (http) or email-client (mailto).

The `CGridColumnTraitHyperLink` allows one to supply a prefix (and suffix) for the celltext, which allows one to add extra protocol details without it being displayed:

C++

```
CGridColumnTraitHyperLink* pHyperLinkTrait = new CGridColumnTraitHyperLink;
pHyperLinkTrait->SetShellFilePrefix(_T("http://en.wikipedia.org/wiki/UEFA_Euro_"));
m_ListCtrl.InsertColumnTrait(nCol, title.c_str(), LVCFMT_LEFT, 100, nCol, pHyperLinkTrait);
```

It is also possible with `CGridColumnTraitHyperLink::SetShellApplication()` to specify a custom application to be launched, instead of just the default application launched based on the protocol prefix.

The hyperlink can also be used to simulate a button. When clicked it will send a `LVN_ENDLABELEDIT` notification, which one can treat as a button clicked notification in the parent view.

## Changing Row Height

The `CGridListCtrlEx` uses customdraw, so there are only these available solutions:

- Assign a `CImageList` where the image has the height wanted for the row.
- Change the font of the grid control, and the row height will follow. `CGridListCtrlEx::SetCellMargin()` uses this trick to increase the font of the grid control, while keeping the row font intact.

## Changing the Empty Markup Text

When the `CGridListCtrlEx` doesn't contain any items, it will display markup text to indicate the list is empty.

Use `CGridListCtrlEx::SetEmptyMarkupText()` to change this markup text. If providing empty text, then it will behave like a normal `CListCtrl`.

If using [CGridListCtrlGroups](#), it will instead react to [LVN\\_GETEMPTYMARKUP](#) if running on Windows Vista.

## Load and Save Column Width and Position

[CViewConfigSectionWinApp](#) provides the ability to store the width, position and whether columns are shown. After having added all available columns to the [CGridListCtrlEx](#), assign an instance of [CViewConfigSectionWinApp](#) using [CGridListCtrlEx::SetupColumnConfig\(\)](#) and it will restore the last saved column configuration through [CWinApp](#).

C++

```
m_ListCtrl.SetupColumnConfig(new CViewConfigSectionWinApp("MyList"));
```

If using [CGridListCtrlEx](#) several places in your application, then one should ensure creation of a unique [CViewConfigSectionWinApp](#) for each place.

## OLE Drag and Drop

[CGridListCtrlEx](#) can both work as an OLE drag source and an OLE drop target. This allows drag operations between the [CGridListCtrlEx](#) and other windows and applications.

[CGridListCtrlEx](#) supports reordering of rows when doing internal drag and drop. This is implemented using a special sort operation, so items are not deleted/inserted.

To implement your own special behavior for a drop operation, either override [OnDropSelf\(\)](#) or [OnDropExternal\(\)](#) depending on what situation you want to handle.

To control what is placed in the drag-source when a drag is initiated, override [OnDisplayToDragDrop\(\)](#).

## How Does the CGridColumnTrait Work

[CGridListCtrlEx](#) tries to keep away from all the nasty details about how to display and edit data. These things are instead handled by the [CGridColumnTrait](#) class, and if we want to modify how data is displayed, then it is "just" a matter of creating a new [CGridColumnTrait](#) class.

When inserting a column, we can assign a [CGridColumnTrait](#) to the column. The [CGridListCtrlEx](#) will activate the appropriate [CGridColumnTrait](#) when we need to draw a cell in that column, or edit a cell in the column.

The [CGridColumnTrait](#) includes some special members known as meta-data. These members can be used by your own class when it derives from [CGridListCtrlEx](#), so we can easily add extra properties to a column.

When inheriting from [CGridColumnTrait](#), we must consider the following:

- If performing custom drawing, we must also handle the selection and focus coloring.
- If performing editing, we must ensure that the editor closes when it loses focus, and also sends a [LVN\\_ENDLABELEDIT](#) message when the edit is complete.

## How Does the CGridRowTrait Work

It is based on the same idea as [CGridColumnTrait](#) but operates at row level instead of column level. This is useful for situations where one has to modify the display behavior of all columns.

## Using the Code

The source code includes the following classes:

- [CGridListCtrlEx](#) - The specialized [CListCtrl](#)
- [CGridListCtrlGroups](#) - [CGridListCtrlEx](#) extended with support for grouping
- [CGridColumnTrait](#) - Specifies the interface of a column-trait

- [CGridColumnTraitText](#) - Implements cell formatting
  - [CGridColumnTraitImage](#) - Implements cell editing by switching between images (can mimic a checkbox)
    - [CGridColumnTraitEdit](#) - Implements cell editing with [CEdit](#)
    - [CGridColumnTraitCombo](#) - Implements cell editing with [CComboBox](#)
    - [CGridColumnTraitDateTime](#) - Implements cell editing with [CDateTimeCtrl](#)
    - [CGridColumnTraitHyperLink](#) - Implements cell behavior as hyperlinks
- [CGridRowTrait](#) - Specifies the interface of a row trait
  - [CGridRowTraitText](#) - Implements row formatting
  - [CGridRowTraitXP](#) - Implements drawing of subitem image background when using classic- or XP-style
- [CViewConfigSection](#) - Abstract interface for persisting column setup
  - [CViewConfigSectionWinApp](#) - Implements the interface and can switch between multiple column setups.

## Things To Do

The [CGridListCtrlEx](#) tries to stay away from performing any drawing itself. This means that the following features/bugs will not get that much attention:

- Support for progress bar - Requires a [CGridColumnTrait](#) class that draws the entire cell.

Implementing a [CGridColumnTrait](#) class that draws the entire cell could probably be done by stealing/borrowing some code from [ListCtrl - A WTL List Control with Windows Vista Style Item Selection](#).

Contributions to this project are very welcome.

## History

- **Version 1.0** (2008-09-04) First release
- **Version 1.1** (2008-09-18)
  - Added support for grouping with [CGridListCtrlGroups](#)
  - Added [CDateTimeCtrl](#) editor
  - Fixed drawing bugs when using Classic- and XP-style
    - Fixed image background color for selected subitems (no longer white)
    - Fixed grid border disappearing when scrolling right and left
  - Indicate the list is empty when it contains no items
  - Extended [CComboBox](#) editor, so it automatically resizes dropdown width to its contents
- **Version 1.2** (2008-09-24)
  - Replaced the [CGridListCtrlXP](#) with [CGridRowTraitXP](#)
  - Fixed some reported bugs
- **Version 1.3** (2008-10-09)
  - Fixed extended style when used in [CView](#)
  - Fixed positioning of context-menu when using keyboard shortcut (SHIFT+F10)
  - Fixed compiler errors that appeared when using Visual Studio 6 (VC6)
- **Version 1.4** (2008-11-07)
  - Added clipboard support for copying the contents of the selected cell / rows
  - Renamed the "Callback"-functions to "OnDisplay", as it resembles the MFC naming convention
  - Fixed some reported bugs
- **Version 1.5** (2009-03-29)
  - Added column manager [CGridColumnManager](#)
  - Added support for groups on VC6 with platform SDK
  - Added sample projects for the different versions of Visual Studio

- Improved documentation through Doxygen comments
- **Version 1.6** (2009-09-13)
  - Added OLE drag and drop support
  - Added support for `checkbox` style `LVS_EX_CHECKBOX` when using `LVS_OWNERDATA`
  - Added better support for keyboard search with `LVS_OWNERDATA`
  - Fixed several bugs
- **Version 1.7** (2009-12-12)
  - Added `CGridColumnTraitImage`, that can mimic checkbox editing for any column
  - Renamed `OnTraitEditBegin()` to `OnEditBegin()`
  - Renamed `OnTraitEditComplete()` to `OnEditComplete()`
  - Renamed `OnTraitCustomDraw()` to `OnCustomDrawCell()`
  - Fixed several bugs (Mostly row and cell coloring)
- **Version 1.8** (2010-10-01)
  - Made `CGridColumnTraitImage` a base class for all editor column traits, so they all can mimic checkbox support
  - Implemented multiple selection checkbox support, so checkboxes are flipped for all selected rows
  - Implemented min and max column width through the base column trait
  - Fixed several bugs
- **Version 1.9** (2011-05-30)
  - Changed `CGridColumnTrait::OnSortRows` to take an `LVITEM` as argument instead of character strings
  - Renamed `CGridColumnConfig` to `CViewConfigSection`
  - Removed `CGridColumnManager` and moved `LoadState/SaveState` into `CGridListCtrlEx` (breaking change)
- **Version 2.0** (2012-05-01)
  - Added copy/paste support for `CDateTimeCtrl` editor (`DTS_APPCANPARSE`)
  - When having grouped by column, then column header click now sorts instead of grouping by column
  - Changed the row sorting to be case insensitive by default
  - Fixed bug where cell editor discarded changes performed using the mouse (copy/paste using context menu)
  - Fixed several compiler warnings, and small bugs
- **Version 2.1** (2012-06-20)
  - Fixed bug introduced in 2.0, where grouping of items no longer worked on WinXP.
  - Improved performance when sorting item groups, especially on Vista/Win7+.
  - Added new column trait `CGridColumnTraitHyperLink`, that can display cell text as weblinks. Updated demo application to display the new column type.
  - Added new column trait `CGridColumnTraitMultilineEdit`, that can edit cell text that contains newlines (still displayed in a single line).
  - Fixed several small bugs
- **Version 2.2** (2012-11-11)
  - `CGridColumnTraitCombo` now has the option to display dropdown on edit begin (`SetShowDropDown`)
  - All column trait editors now has the option to start editor on first mouse click (`SetSingleClickEdit`)
  - `CGridColumnTraitHyperLink` will sent `LVN_ENDLABELEDIT` notification to parent on mouse click (Simulates button click)
  - Checkbox state icon used by subitems has been improved on Windows 7/8 by avoiding image scaling
  - Fixed several small bugs
- **Version 2.3** (2015-03-17)
  - Moved project to GitHub, since Google Code is closing down.
  - Implemented support for `IDropSource::GiveFeedback` to allow changing mouse cursor during dragdrop
  - Inverted cell focus coloring is now disabled by default. Call `SetInvertCellSelection(true)` to enable.
  - Fixed several small bugs

## License

Written By

**Rolf Kristensen**

Software Developer



This member has not yet provided a Biography. Assume it's interesting and varied, and probably something to do with programming.

**Comments and Discussions****How to add scroll bar in a CComboBox cell**

Member 14950938 27-Oct-21 11:34

Hi Kristensen,  
When I add too many items in one CComboBox cell, and then drop down the list, only part of the items can be shown. Is there any way to show all the items? Or how can I add a scroll bar in the CComboBox cell?

[Reply](#) · [View Thread](#)**CGridListCtrlEx: How to use this in a MFC MDI- View or in a MDI-Dialog?**

Member 14820039 12-May-20 4:08

Hi,  
i would like to use the CGridListCtrlEx in a View (fe. class CScrollView) and/or in a Dialog (class CDialog).  
If I take the the CGridListCtrlExDlg (CDialog) from the Demo and open it by clicking a button in the mainfrm-menne in runtime to open an new dialog, nothing happens! No compile, link or runtime errors before!  
Other dialogs (CDialog) created by the Mfc-assistant are opened and work!

```
void CMainFrame::OnExtrasmygrid()
{
CGridListCtrlEx dlg;
int ret = dlg.DoModal();
}
```

Later, i like to implement it in the doc/template/view structure of an MDI-View.

Is the CGridListCtrlEx-Demo just a "Stand-Alone"-Dialog without supporting MDI?

[Reply](#) · [View Thread](#)**How to add color picker?**

Member 14069137 23-Jan-20 21:14

Thank you for this control, it's excellent. I wanted to ask how can I add a color picker as column?

[Reply](#) · [View Thread](#)**Re: How to add color picker?**

Member 14069137 23-Jan-20 21:14

Can you add more detail? What is it that you really want to accomplish? Do you want to choose a color when the user clicks on a cell?

Reply · View Thread



#### Re: How to add color picker?

Pablogamorena

24-Jan-20 19:14

Hi. Yes I'm looking for something similar to Rolf's CDateTimeCtrl, but instead of a date&time it'd let you choose a color. The cell would remain colored with the latest picked color. I tried creating a grid column color populated with CMFCCColorButton in Rolf's code but didn't manage...

Reply · View Thread



#### Re: How to add color picker?

Member 14069137

24-Jan-20 20:05

I have just that sort of thing in my app. The user clicks on a cell, a standard color picker is shown and the user selects a color. Then that color is assigned to the cells data item. Later when the grid is updated, the overridden function OnDisplayCellColor is called and you return the color of your cell's data value.

```
bool CCtrlMyGridList::OnDisplayCellColor(int nRow, int nCol, COLORREF& textColor, COLORREF& backColor)
{
    if (nCol == RRC_COLOR && nRow < GetItemCount() )
    {
        backColor = GetItemData(nRow);
        return true; // I want to override the color of this cell
    }
    else
    {
        backColor = mDefaultBackgroundColor;
        return true;
    }

    return false; // Use default color
}
```

To trigger the color dialog on a mouse click, I override the OnLButtonDown function, like so:

```
void CCtrlMyGridList::OnLButtonDown(UINT nFlags, CPoint point)
{
    // Find out what subitem was clicked
    int nRow, nCol;
    CellHitTest(point, nRow, nCol);

    // If not Left-clicking on a cell in the color column or the control is ReadOnly
    //, then don't do anything, otherwise show the color picker
    if (nCol != RRC_COLOR || mReadOnly)
    {
        __super::OnLButtonDown(nFlags, point);
        return;
    }

    PickColor( nRow, nCol );
}
```

In my app, RRC\_COLOR is the column that contains a color background and the mReadOnly flag is used to

prevent certain GridLists from being modified. PickColor() eventually calls the MFC class CColorDialog. I may have missed some details, so try this out and let me know how it works for you.

[Reply](#) · [View Thread](#)

1.00/5 (1 vote) [Up](#) [Down](#)

### **Re: How to add color picker?**

Pablogamorena

25-Jan-20 0:06

Thank you! Got it Key thing here is MFC dialog CColorDialog, I didn't know about it. Running it on L button makes pure color buttons unnecessary.

[Reply](#) · [View Thread](#)

5.00/5 (1 vote) [Up](#) [Down](#)

### **Grid Line not visible.**

Member 14069137

20-Dec-19 23:08

What an excellent control. Thank you Rolf, however, I have a frustrating problem.  
 I cannot see the grid lines even when specifying



LVS\_EX\_GRIDLINES

on the extended style. The grid is set to "Report" style.

I can see a very slight vertical line in the header between columns (row 0), but no lines in the grid. Is this perhaps a Windows 10 issue where the color of the gridlines is the same as the background? I cannot find any discussion on line that really address this issue. I have seen a couple of very old solution that call for creating an override to OnPaint(), but there are some problems with doing this when column are resized or moved.

[Reply](#) · [View Thread](#)

[Up](#) [Down](#)

### **My vote of 5**

ThanksCodeProject

21-Nov-19 18:25

thank you,very much.(from China friend)

[Reply](#) · [View Thread](#)

5.00/5 (1 vote) [Up](#) [Down](#)

### **CWnd \* CGridListCtrlEx :: OnEditBegin (int nRow, int nCol)**

Ken Kanamura

24-Mar-19 11:11

Hi.Kristensen

The next function is not called back. Is it valid?

CWnd \* CGridListCtrlEx :: OnEditBegin (int nRow, int nCol)

What I have tried:

I created an instance from the CGridColumnTraitEdit class and inserted it into ListCtrl.

I checked it with your sample source.

environment  
CGridListEx:Ver.2.3  
Visual Studio 2015

Would you help us

[Reply](#) · [View Thread](#)

[Up](#) [Down](#)

### **Question about search code**

Member 13391856

8-Apr-18 14:28

Hi,

I wonder if there is a convenience feature related to character search.

Is there any code that visualizes the item when the user enters a character in the combo box?

For example, if a user enters b, the ball valve, blind flange, ... are visualized.

Thanks.

[Reply](#) · [View Thread](#)

1.00/5 (1 vote)  

### [Re: Question about search code](#)

 Rolf Kristensen

27-Jul-18 15:07

You are welcome to implement this, but I don't have the spare time 😊

 [Reply](#) · [View Thread](#)

### [Question about extending/modifying CGridColumnTraitHyperLink](#)

 liamen

18-Jan-18 22:40

Hi Kristensen,

I would like to ask if you have some guidelines in how to extend/modify CGridColumnTraitHyperlink to be able to display normal (black text) and hyperlink text (blue underlined text) in the same column.

Thanks in advance.

[Reply](#) · [View Thread](#)

### [Re: Question about extending/modifying CGridColumnTraitHyperLink](#)

 Rolf Kristensen

4-Feb-18 4:06

I guess you have to inherit from `CGridColumnTraitHyperlink` and override the method `OnCustomDraw`, so it skips the color change when needed.

 [Reply](#) · [View Thread](#)

### [OnOwnerDataToggleCheckBox and OnItemChanged are not called when checkbox is clicked with LVS\\_EX\\_CHECKBOXES and owner data](#)

 OneWorld123

30-Oct-17 23:31

My list has the style `LVS_EX_CHECKBOXES` and is owner data.

Unfortunately `OnOwnerDataToggleCheckBox` never gets called on mouse key interaction. I've read the code of `CGridListCtrlEx.cpp` and found only 3 locations where this method is getting called:

\* `OnKeyDown`: Calls the method on keyboard interaction which actually works!

\* Two times in `OnItemChanged`: This method is not called, when clicked on Checkbox! However, `OnItemClick` IS called when the checkbox was clicked.

Any implementation hints?

[Reply](#) · [View Thread](#)

### [Re: OnOwnerDataToggleCheckBox and OnItemChanged are not called when checkbox is clicked with LVS\\_EX\\_CHECKBOXES and owner data](#)

 Rolf Kristensen

4-Feb-18 4:17

Not that much experience with `LVS_OWNERDATA` and `LVS_EX_CHECKBOXES`

Maybe you have to make this call to make the `LVN_ITEMCHANGED` notification work:

```
ListCtrl.SetCallbackMask(LVIS_STATEIMAGEMASK);
```

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## FAQ How to enable checkbox cell for user to checked or unchecked

[naeem\\_fast1](#)

1-May-17 22:15

▲ I am using CGridColumnTraitImage. I tried using CGridColumnTraitEdit.  
▼ It works for text column but not for check-box column.



My controls is onwer draw.

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5.00/5 (1 vote)



## FAQ Re: How to enable checkbox cell for user to checked or unchecked

[Rolf Kristensen](#)

27-Jul-18 15:09

▲ The Column-icon is used to display the checkbox, so it cannot do both. But you can enable [LVS\\_EX\\_CHECKBOXES](#)  
▼

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## FAQ Mouse hovering causes selection change

[Tony Teveris](#)

15-Nov-16 20:02

▲ I have a dialog with two ListCtrls. Both setup basically the same (different data). On InitDialog() I fill the list and do an initial selection (multiple). When the dialog appears all looks good.  
▼ If I now have the mouse hover over one of the list items all other items get deselected and the new one is selected. The other list does not have this behavior. I've looked at the code and can not seem to find any difference in the setup. So, any ideas on where to look? I swear this was all working at one time but maybe not. Great tool and many thanks

Tony Teveris  
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South Windsor, CT 06074

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## FAQ Re: Mouse hovering causes selection change

[Tony Teveris](#)

15-Nov-16 20:21

▲ Well I knew when I posted this I would soon find what is causing this.  
▼

m\_ListCtrl\_S.SetExtendedStyle(m\_ListCtrl\_S.GetExtendedStyle() | /\*LVS\_SHOWSELALWAYS \*/  
LVS\_EX\_FULLROWSELECT);

Removing the LVS\_SHOWSELALWAYS style stop the issue. Not sure why I had that set but there is my answer.

Tony Teveris  
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4.20/5 (2 votes)



## FAQ How to forbidden the column drag?

peacelvirene

28-Sep-16 23:58

hello Kristensen, how can I forbidden the drag action of column?  
But, I need the rows drag.

Reply · View Thread



### Re: How to forbidden the column drag?

Rolf Kristensen

29-Sep-16 1:23

You can investigate LVS\_EX\_HEADERDRAGDROP to disable column header drag-drop.  
Else you can override OnHeaderEndDrag(), that "fixes" the pNMH->pitem->iOrder. You could just change this logic to keep it static.

Reply · View Thread



### Re: How to forbidden the column drag?

peacelvirene

29-Sep-16 11:17

Thank your report. But I failed.



Method A:

I add the codes like this

C++

```
if (m_bEnableDragColumns)
    SetExtendedStyle(GetExtendedStyle() | LVS_EX_HEADERDRAGDROP);
```



in the void CGridListCtrlEx::OnCreateStyle(), but it doesn't work.

Method B:

I overwrite the OnHeaderEndDrag like this:

C++

```
BOOL CGridListCtrlEx::OnHeaderEndDrag(UINT nM messageId, NMHDR* pNMHDR, LRESULT* pResult)
{
    NMHEADER* pNMH = reinterpret_cast<NMHEADER*>(pNMHDR);
    if (!m_bEnableDragColumns) return FALSE; //add this line

    if (pNMH->pitem->mask & HDI_ORDER)
    {
        // Correct iOrder so it is just after the last hidden column
        int nColCount = GetColumnCount();
        ...
    }
}
```



but it also doesn't work.

So, what's my problem?

I want to turn on or off the columns drag, when I use the listCtrl.

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### Re: How to forbidden the column drag?

Rolf Kristensen

29-Sep-16 22:58

Well you could look up the MSDN for LVS\_EX\_HEADERDRAGDROP. Then you will notice that you have to remove the extended style, to disable drag-n-drop:



You could also look up the MSDN for how to handle the HDN\_ENDDRAG notification. Then you will notice you have the ability to re-adjust the proposed drag-drop.

But try this code (where MyListCtrl inherits from CGridListCtrlEx):

```
C++  
void MyListCtrl::OnCreateStyle()  
{  
    CGridListCtrlEx::OnCreateStyle();  
    if (m_bEnableDragColumns)  
        SetExtendedStyle(GetExtendedStyle() | LVS_EX_HEADERDRAGDROP);  
    else  
        SetExtendedStyle(GetExtendedStyle() & ~LVS_EX_HEADERDRAGDROP);  
}
```

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### Tooltip for Header?

Member 8534035

17-Jul-16 23:07

Hi Rolf,

first of all...a really great Control!!!!

Today I have implemented the usage of tooltips in my application the first time.  
It was quite easy, when using your control.

The tooltips are working for Items( rows and cols).

I noticed, that the handler is called with (row = -1), when the cursor does not point to a row. This is actually good to provide some general information in the tooltip.

My question: Is there a way, that the method OnDisplayCellTooltip() is called, when the mouse cursor hovers over the header? I want to display explanation, which information is available in the column in general.

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### Re: Tooltip for Header?

Rolf Kristensen

18-Jul-16 0:40

Don't have much experience with ToolTip for the CHeaderCtrl. Maybe you can find some inspiration here:  
  
 Tooltip for individual column header[^] (Make sure to read the comments)



[Handling Title Tips With Drag/Drop Headers Using The Visual C++ 6.0 CListCtrl\[^\]](#) (Bugfix for the first article)

But actually this looks a little cleaner:

[Display tooltip to the header \[^\]](#)

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### Re: Tooltip for Header?

Rolf Kristensen

21-Jul-16 6:15

Have updated the code on [GitHub](#) to include a new method `OnDisplayColumnTooltip()`  
  
 You can override this method to display your own column-header tooltip. Beware it is called constantly while moving the mouse over the column-headers.



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5.00/5 (1 vote)

### Detected memory leaks! Any idea where they were coming from?

lakshman rao

30-Jun-16 18:01



Just right-click the column-header, and you can choose to display your new column.

See also [missing column if col count is increased by developer](#)[<sup>^</sup>]

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1.00/5 (1 vote) [Upvote](#) [Downvote](#)

#### **Re: Not able to insert more than 6 Column Trait?**

 Karguvvel

2-Jun-16 22:39

Thankyou 😊

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#### **Have column trait as either Combobox OR Editbox**

 Chris\_Judge

27-Apr-16 21:11

Hi Rolf,

First of all, I wanna say thanks for developing this. It's been very useful to me so far, and easily implemented too.

Now onto my question.

I was wondering if it's possible to have a column have either the CGridColumnTraitEdit OR CGridColumnTraitCombo, depending on a value for the row item?

At the moment, We only set these traits when setting up the list controls columns. Can we change these traits as we're populating the list?

My use case is that I have a list control with a bunch of elements and each element will have a value. Some of the elements' value will simply be a floating point number, so we can use the edit column trait for this. Others will have a list of possible string values I want to display in the combobox so the user can select any item in the list. Is this possible?

I would also be interested in knowing if it would be possible to assign the Checkbox column trait for certain rows too.

Regards,  
ChrisJ

*modified 27-Apr-16 11:25am.*

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[Upvote](#) [Downvote](#)

#### **Re: Have column trait as either Combobox OR Editbox**

 Rolf Kristensen

28-Apr-16 0:43

I guess you could create your own column-trait that changes the cell-editor depending on some external factor.

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#### **Re: Have column trait as either Combobox OR Editbox**

 Chris\_Judge

28-Apr-16 19:12

Ok I thought there might be an easy way to do it as is. I will look into your suggestion.

Thanks for the quick reply.

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#### **Re: Have column trait as either Combobox OR Editbox**

 Rolf Kristensen

29-Apr-16 3:09

Remember that one ComboBox-style has a CEdit-control builtin by default (CBS\_DROPDOWN instead of CBS\_DROPDOWNLIST). So maybe the solution is just use that ComboBox-style and sometimes not have any

 items in the dropdown.

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5.00/5 (2 votes)  

## How to disable cell items?

 Member 11395772

8-Apr-16 3:44

 Hello,

 For my purpose, I would like to redraw the list to disable some cells if the conditions are met (ex: another cell's edit value falls within the range, or is unchecked, etc). Currently, I'm struggling to find a way to get the index of the image for the boolean value of the checkbox. I'm currently using the implementation with from the demo file:

C++ 

```
BOOL MyClass::OnInitDialog() {
...
    nStateImageIdx = CGridColumnTraitImage::AppendStateImages(m_list, m_image_list);
    m_list.SetImageList(&m_image_list, LVSIL_SMALL);CGridColumnTraitImage *pTrait = new
CGridColumnTraitImage;
    CString title = "Parameter";
    pTrait->AddImageIndex(nStateImageIdx, title, false);           // Unchecked (and not editable)
    pTrait->AddImageIndex(nStateImageIdx+1, title, true);        // Checked (and editable)
    pTrait->SetToggleSelection(true);
    m_list_datum.InsertColumnTrait(0, title, LVCFMT_LEFT, 100, 0, pTrait);
...
}
```

If I can extract the boolean value, then I should be able to override either OnClickEditStart or OnCustomDraw to make it work.

Any advice would be appreciated. 

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## Re: How to disable cell items?

 Rolf Kristensen

9-Apr-16 5:40

 Not sure I understand how changing the state-icon will disable a cell. But please read the article-chapter **Checkbox Support** about the methods `GetCellImage()` / `SetCellImage()`.

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## Re: How to disable cell items?

 Member 11395772

20-Apr-16 4:20

 Sorry for the late reply.

 I'm already using `GetCellImage()` and `SetCellImage()` inside the code to extract the boolean values from checkboxes. I'm using the implementation from the demo file, as mentioned previously.

However, I'm trying to find a way to render cells to read-only items, depending on some checkboxes' boolean values. For example, if you had a column of A with checkbox and column B with text edit, I want to disable cells in column B if the checkbox in column A (of the same row) is unchecked. My problem is that I cannot find a way to determine whether if that checkbox is unchecked, since `GetCellImage()` isn't working inside the overrideable functions.

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## Re: How to disable cell items?

 Rolf Kristensen

29-Apr-16 3:07

 You can control whether a cell is editable, by overriding `CGridListCtrlEx::OnEditBegin()`, and just return NULL when the cell is disabled (Ex. by checking the value of another cell).

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## About drag rows

 peacelvirene

5-Mar-16 13:52

I failed to reorder rows by drag them. I have studied your demo very attentively, but I failed to find out the special setting for dragging rows. How can I make it to be able to reorder rows by drag them? THANK YOU VERY MUCH!!

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 peacelvirene

5-Mar-16 13:58

Maybe, I should "insert data into list-control by copying from datamodel"?  
In my project, I insert data simply like this:



C++



```
void CHRBSDlg::AddCalResultItem(CString strItem, CString strVal)
{
    int nCount = m_listCalResult.GetItemCount();
    m_listCalResult.InsertItem(nCount, TEXT(""));
    m_listCalResult.SetItemText(nCount, 1, strItem);
    m_listCalResult.SetItemText(nCount, 2, strVal);
}
```

Is this my problem? I will try.

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 Re: About drag rows

 Rolf Kristensen

6-Mar-16 15:29

Nothing wrong with how you insert data. My guess is that you are missing AfxOleInit() in your CWinApp-initialization:



```
BOOL CMyWinApp::InitInstance()
{
    InitCommonControls();

    CWinApp::InitInstance();

    AfxEnableControlContainer();

    AfxOleInit();
```

...

}

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 Re: About drag rows

 peacelvirene

6-Mar-16 17:44

Thank you very much for your reply!!

But now, another problem comes. How can I forbidden the drag act, both the column drag and the row drag?

 Because I will not wish the user to change the location of columns or rows.

Looking forward to your reply.

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1.00/5 (1 vote)



 Re: About drag rows

 Rolf Kristensen

6-Mar-16 18:04

Exciting quest of troubleshooting why rows will not drag, and then figure out how to disable the feature when it works 😊



For the columns then you can configure the column-state, before calling InsertColumnTrait().

```
CGridColumnTrait::GetColumnState().m_Resizable = false;
```

For the rows then you need to override this method:

```
BOOL CMyListCtrlEx::OnDropSelf(ColeDataObject* pDataObject, DROPEFFECT dropEffect, CPoint point)<br />
{<br />
    return TRUE; // Disables row-reordering<br />
}
```

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2.33/5 (3 votes) [Up](#) [Down](#)

#### [Re: About drag rows](#)

peacelvirene

6-Mar-16 18:48

Wow, you replied so quick!!  
 So, I will not be able to let one GridListCtrlEx has the ability of dragging rows, while another one has not, in the one project?  
 May be I can add a val for GridListCtrlEx to control the ability of dragging rows? Is this ok?

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#### [Re: About drag rows](#)

peacelvirene

6-Mar-16 22:52

Here comes another problem: I create a editColumn like this



```
CGridColumnTraitEdit* pTrait = new CGridColumnTraitEdit;
```

and it run good. But when I quit this window, my whole program will be dead.  
 So, what's the problem?

And, about the forbidden of dragging rows, my method that add a var for this has no affect.

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#### [Re: About drag rows](#)

Rolf Kristensen

7-Mar-16 0:49

Think you have the nails you need. You just need to figure out how to use the hammer. Happy coding. [Up](#)

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**Re: About drag rows**

peacelvirene

7-Mar-16 22:48

- Thank you very much, Rolf!
- I have solved both the problems.
- And the GridListCtrlEx is a great soft!!

[Reply](#) · [View Thread](#) **Ask why the MFC DLL use, driving time line with the mouse to change the location of data crash**

wangyushi

26-Jan-16 20:52

C#

Ask why the MFC DLL use, driving time line with the mouse to change the location of data crash

[Reply](#) · [View Thread](#) **Keep focus-color and Empty list**

vg8open

24-Dec-15 2:31

- 1. Can you add an ability to have the list control keep the same focus-color when the list control lost focus? I know this was a bug in the previous version of the CGridListCtrlEx and now it's fixed, but this is a feature that I need. I have two list boxes side-by-side that I select a row in each list box and I want it keep the selected color even when the control lost focus.
  - 2. Is there a way to display the empty grid in the list control when the list is empty? There is a function SetEmptyMarkupText to set the text when the list is empty, but I don't want to have this display. I want to display a empty grid, like an empty spread sheet.
- Thank you for a great library.

[Reply](#) · [View Thread](#) **Re: Keep focus-color and Empty list**

Rolf Kristensen

26-Dec-15 16:05

- 1) You can override `OnKillFocus` in your own inherited version, and copy the existing implementation but comment out the call to `CListCtrl::OnKillFocus()`.
- 2) If you call `SetEmptyMarkupText` with an empty text-string, then your grid should be completely blank when no items.

Happy holidays

[Reply](#) · [View Thread](#) **Re: Keep focus-color and Empty list**

vg8open

28-Dec-15 21:15

- OK, thanks for your help.
- Happy Holidays!

[Reply](#) · [View Thread](#) **Deleting of CGridColumnTrait**

Member 12199715

11-Dec-15 18:18

- I was already wondered, why you create traits dynamically inside `OnInitDialog` function in your examples. And then I stumbled over this

C++



```
void CGridListCtrlEx::DeleteColumnTrait(int nCol)
{
    delete GetColumnTrait(nCol); //!!!!!!!
    m_ColumnTraits.RemoveAt(nCol);
}
```

That means that the allocated objects are obscurely deleted inside your library 🤯

No, no, no, no, no! very bad, awful, horrible idea. Dynamically allocated objects should be deleted in the same context, and by the same person (that is a user of your library) created them.

It also denies the user possibility to have them statically allocated ie as members of a dialog or a derived class. That how I would like (a still going) to do it: derive the class that would take care of setting up the control for my purpose. And I added relevant ColumnTraits as members there.

I strongly suggest you take out this line and adjust your examples.

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Rolf Kristensen

12-Dec-15 19:25

### [Re: Deleting of CGridColumnTrait](#)

- For me it was convenient to have this delete, and now it cannot be removed, since others rely on it.
- You are very welcome to override the `DeleteColumnTrait`-method in your own version, and implement your own non-deleting removal.

Thank you for taking the time to review the code.

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### [CGridListCtrlEx : no virtual destructor??](#)

Member 12199715 11-Dec-15 10:45

- you recommend to derive from CGridListCtrlEx instead of using it directly, yet the destructor is not virtual. (?!?!)
- And more than that, none of the classes in the inheritance hierarchy has a virtual destructor. (?!?!?!?)
- That's astonishing

*modified 10-Dec-15 22:57pm.*

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### [Re: CGridListCtrlEx : no virtual destructor??](#)

Rolf Kristensen

12-Dec-15 19:09

- Since the MFC `CObject` has a virtual destructor, then all destructors will automatically be virtual.
- But I will [add the virtual keyword](#)[^], so your eyes will feel better.

*modified 12-Dec-15 7:27am.*

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### [How to paint in a grid cell directly?](#)

Member 8534035 26-Nov-15 15:00

- Hi again,
- my application monitors different measurement values over the time. my idea is not to display the values only as digits, but in an additional row as tiny curves as well.

When using your control, what would be the best approach to make an extension?

My rough idea is like this:

- have somehow a callback, when cell needs to be repainted
- get anyhow the rectangle of the cell
- get a Windows handle, device context
- draw in application specific function with gdi directly

do you have a few hints? I would try to implement by myself!

How I need to design the interface extension to your control?

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Rolf Kristensen

26-Nov-15 16:23

#### [Re: How to paint in a grid cell directly?](#)

Maybe you can get some ideas about drawing from this contribution:

<https://github.com/snakefoot/cgridlistctrlex/issues/23> [^]



To me it only makes sense to have the graph inside the ListView, when having little screen space available.

I would rather focus on having some smart logic to highlight lines, where the measurement-value over time has been below or above a certain threshold (Or missing). Then the user can select the problem-item and see the detailed graph and the history of measurement-values.

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Member 8534035

26-Nov-15 16:56

#### [Re: How to paint in a grid cell directly?](#)

thanks for your assistance!

I will check the provided link!



I have already implemented some smart logic to show changes of values to user quickly:

Setting background colors of currently changed values, which disappears smoothly within a few seconds. Further a trigger functionality, which stops the monitoring, when a measured value matches with a configured condition.

Is it possible to add here screen shots? Then I could show result of my current work

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Rolf Kristensen

28-Nov-15 5:51

#### [Re: How to paint in a grid cell directly?](#)



Sounds like you are already on top of everything. Enjoy a relaxing weekend 😊

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#### [Is it possible to change item text in OnEditComplete?](#)

Member 8534035

23-Nov-15 0:14

After user has edited cell's text, I want to validate and to trim the text.

Trim means in my case to delete all blanks at the beginning of new String and convert complete string to uppercase .

In OnEditComplete(...) I get a pointer to cell's text: pLVDI->item.pszText  
Is it allowed to change the string directly at the pointer address?

Thanks in advance

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Rolf Kristensen

23-Nov-15 2:02

#### [Re: Is it possible to change item text in OnEditComplete?](#)



Yes you can override OnEndLabelEdit() and set pszText-string to a new string and then call  
CGridListCtrlEx::OnEndLabelEdit(), and it will be the adjusted string that is saved.



I would not recommend to modify the existing string, but instead allocate a new string (Ex. use CString) and point pszText to the new string.

*modified 22-Nov-15 14:55pm.*

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#### **Re: Is it possible to change item text in OnEditComplete?**

Member 8534035

23-Nov-15 14:26

Hello,



at the moment I am doing a preliminary trick in order to have this behaviour.  
In the override of OnEditComplete() I format the string and call SetItemText(nRow,nCol) for the cell for replacing the string. Then I return false, through this the control is not replacing the new string.

Overriding OnEndLabelEdit would be much more clean. But for this I have further questions. When I allocate a new CString and assign to the pszText, do I need to delete the old String before in order to have no memory leaks? I assume, I cannot call "delete pszText", because it is just a char pointer and not a CString object?  
Who will be responsible for deleting somehow later my self-allocated CString?

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#### **Re: Is it possible to change item text in OnEditComplete?**

Rolf Kristensen

24-Nov-15 0:59



You can use CString to create the new string and point pszText to it. The CString just have to survive until the `CGridListCtrlEx::OnEndLabelEdit()` has completed/returned.

You should not attempt to delete pszText.

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#### **How to use in CDockablePane or CPaneDialog**

Member 8534035

22-Nov-15 5:36

Hi,  
 I have created a Visual Studio Style project and I am working mostly with Dockable Panes instead of dialogs.  
 Is it possible to use the CGridListCtrlEx inside a dockable pane?

I started to implement. The Control is displayed, but I cannot edit. Seems the control is not catching the mouse click event to enter edit mode of a cell.

There is also an MFC class CPaneDialog (but I never used). Maybe it is possible to use your control on top of this control?

Thanks  
Richard

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#### **Re: How to use in CDockablePane or CPaneDialog**

Rolf Kristensen

22-Nov-15 5:57



Do not have much experience with CDockablePane, but if you can display items and can change item selection, then I think you have failed to setup the right column-trait-editors.

Maybe checkout this guy, who has put a CListCtrl on a CDockablePane:

[http://www.naughter.com/pydebugpp.html\[^\]](http://www.naughter.com/pydebugpp.html[^])

Download and open the zip-file pydebugpp.zip, and look at PyDebugBreakpointsWnd.h + PyDebugBreakpointsWnd.cpp

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### **Re: How to use in CDockablePane or CPaneDialog**

Member 8534035

22-Nov-15 21:20

Hi,

many thanks for your fast reply!



In the meantime I found my problem. I based my current work on an inherited class, which was based on CListCtrl. Unfortunately in the implementation of the class I forgot to replace an occurrence of CListCtrl with CGridListCtrlEx. Through this the message handler of CGridListCtrlEx was never called.

Now TraitEdit and TraitCombo are working fine!

With checkboxes I still have an issue. They are not displayed and I cannot check/uncheck. But I never used before, so I assume, that I have made a mistake in setup.

Further I noticed, that OnEditComplete() is always called twice, when I have changed a cell! Maybe this is a general problem? At the moment I can ignore this, it would be just an improvement!

Finally I want to say, that you have really made a great work! Good concept, good code!

Specially I want to mention, that I was able to compile within VS2015 without any problem. Most other public MFC projects, I tried already, are mostly old and rarely maintained! But this project is really up to date!!!!

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### **Re: How to use in CDockablePane or CPaneDialog**

Rolf Kristensen

23-Nov-15 2:03

OnEditComplete should only be called once for a cell-edit. If you can make a reproducible case with the demo application, then please tell.



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### **about the checkbox**

luyhe

10-Nov-15 14:36

After studying the small demo, I still don't understand how to use it to realize the checkbox.I don't understand the function AppendStateImages.The checkboxes are images? I do it step by step following the introduction,but it still didn't come true. I need your help. Thank you for everyone!

PS:My english is poor,do you understand what i said? 😊

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### **Re: about the checkbox**

Rolf Kristensen

11-Nov-15 1:25

Try to read the article-section **Checkbox Support**.



But yes it is abusing the `LVSIL_SMALL-CImageList` of `CListCtrl` to display the checkbox.

The method `CGridColumnTraitImage::AppendStateImages` extracts the state-images from the `CListCtrl` and appends to the `CImageList`.

Because it is using the `LVSIL_SMALL-CImageList` for the checkbox images, then one must use `SetCellImage(nItem, nCol, nIndex)` to set checked- / unchecked-image for a cell (Or `OnDisplayCellImage()` if using `LVS_OWNERDATA`)

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1.00/5 (1 vote)

**Re: about the checkbox**

luyhe

15-Nov-15 22:10

Thank you for reply my questions! But i still havn't done it.  
 I don't know where is wrong.  
 First, i create a ImageList, and i didn't use the InsertHiddenLabelColumn.  
 Second, i use the AppendStateImages and SetImageList.  
 Third, create the columns;  
 Fouth, use the SetCellPath.  
 Are these steps right?  
 And, i have a question. Can checkboxes use in the title line?

Thank you!

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 **Re: about the checkbox**

Rolf Kristensen

15-Nov-15 23:13

Think you need to study the demo application a little more. Maybe also study how to use images for subitems in the CListCtrl.  
 You can also have column-header checkbox in the CHeaderCtrl. [How to set a full select checkbox into column title](#)

[e\[<sup>^</sup>\]](#)

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 **Thanks for Such Good Sample Program**

Member 8637067

28-Sep-15 20:59

Too Good Sample and Exhaustively tested... Very Good Work

[Reply](#) · [View Thread](#)

 **How to add Multiline Header?**

vvidov

1-Sep-15 17:49

How to add Multiline Header?

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 **Re: How to add Multiline Header?**

Rolf Kristensen

2-Sep-15 2:08

Since CGridListCtrlEx is a standard CListCtrl with some custom drawing, then I guess you should be able to use any article about replacing the CHeaderCtrl for the CListCtrl. Just use the CGridListCtrlEx instead of the CListCtrl.

[Reply](#) · [View Thread](#)

 **Re: How to add Multiline Header?**

vvidov

2-Sep-15 14:12

thanks

[Reply](#) · [View Thread](#)

 **Tooltip bug**

pesci77

27-Aug-15 0:28

Hi Rolf,

I have found a strange bug caused by tooltips.

It is a bit complicated to explain how to reproduce this bug, but the same error occurs when EnableToolTips() is FALSE and without calling the code that disables the builtin tooltip in OnCreateStyle(). When the mouse moves on top of the list

then the framework calls OnToolNeedText() and I get the "Access violation reading location" error while trying to use pNMHDR variable.

In my application I don't want to use tooltips so I call EnableToolTips(FALSE) and also use your code to disable the builtin tooltip on OnCreateStyle() but the framework keeps calling OnToolNeedText() in some particular situation causing the crash.

I wasn't able to resolve directly this problem but the current fix is to override OnDisplayCellTooltip() returning FALSE so to prevent incorrect access to pNMHDR.

Thank you very much!

[Reply](#) · [View Thread](#)



### [Re: Tooltip bug](#)

Rolf Kristensen

27-Aug-15 3:03

I have updated the source code at [GitHub](#)



[Reply](#) · [View Thread](#)



### [Re: Tooltip bug](#)

pesci77

27-Aug-15 5:22

Bug fixed. Fantastic!



[Reply](#) · [View Thread](#)



### [Some questions](#)

pesci77

21-Aug-15 5:48

Hi Rolf, Thank you for your great work!



I want to use the style LVS\_NOSORTHEADER with CGridListCtrlEx using ModifyStyle() but the control doesn't show the expected behaviour. The columns can be still clicked and sorted.

I can easily disable the columns sorting adding the following lines in OnHeaderClick():

```
C#
if (GetStyle() & LVS_NOSORTHEADER)
    return FALSE;
```



but the columns header are still clickable. How can avoid this?

Finally, when the control loses focus the selected items are still painted in blue instead of the default gray. I wasn't able to find the code responsible of this. Can you help me?

Thank you very much!

[Reply](#) · [View Thread](#)



### [Re: Some questions](#)

Rolf Kristensen

21-Aug-15 11:37

Some styles must be applied before the creation, so you should have the LVS\_NOSORTHEADER style in your resource-file (rc-file), and not by using ModifyStyle().



The LVS\_NOSORTHEADER style causes the CListCtrl to remove the HDS\_BUTTONS-style for its CHeaderCtrl.

You can make this change dynamically like this (Consider adding a null check):

m\_ListCtrl.GetHeaderCtrl()->ModifyStyle(HDS\_BUTTONS, 0);

Regarding the missing button-color, then it looks like a bug, that I need to investigate.

*modified 22-Aug-15 7:54am.*

[Reply](#) · [View Thread](#)



#### [Re: Some questions](#)

pesci77

21-Aug-15 16:44

Ok, I moved LVS\_NOSORTHEADER in Create() and now it works as expected.

Regarding the second problem I think that is missing a

```
CListCtrl::OnKillFocus(pNewWnd);
```

call in OnKillFocus().

Thank you.

[Reply](#) · [View Thread](#)

5.00/5 (1 vote)

#### [Re: Some questions](#)

Rolf Kristensen

21-Aug-15 23:25

Thank you for the help. Saved me a lot of time. I have updated [GitHub](#)[^] with the fix.

Enjoy the weekend.

[Reply](#) · [View Thread](#)



#### [Re: Some questions](#)

pesci77

22-Aug-15 21:28

Now when the control loses the focus the selected items are correctly painted in gray, but the focus rectangle remains visible. Is this the default behaviour? Maybe we have to check if the control has the focus before calling DrawFocusRect() in CGridRowTraitText::OnCustomDraw()?

Thank you for your great work.

[Reply](#) · [View Thread](#)



#### [Re: Some questions](#)

Rolf Kristensen

23-Aug-15 2:32

You have good eyes. I have updated GitHub with the extra modification.

Reply · [View Thread](#)



### [How to add your files into my own mfc project as classes and edit the list control as you did?](#)

Member 11278062

18-May-15 15:44

Hi:

First of all, I am not professional on MFC programming, and I like your grid control.

But I have no idea how to add your files into my project and replace the List control into Grid control.  
I am using vs2008.

Thank you.

[Reply](#) · [View Thread](#)

### **CGridListCtrl - facing issue**

**jasperPaulin**

8-Apr-15 14:16

► In grid control using CGridCtrlEx, when try to create more than 1000 number of columns, the columns are created but the header is not showing the title. It appears blank. How do I fix it. Where I might gone wrong.



Thanks in advance

Jasper S

[Reply](#) · [View Thread](#)

5.00/5 (1 vote)



### **Re: CGridListCtrl - facing issue**

Rolf Kristensen

19-Aug-15 4:27

► Just right-click the column-header, and you can choose to display your new column.

► See also [missing column if col count is increased by developer](#)[^]

[Reply](#) · [View Thread](#)

### **Lmite Number Rows**

TheDarkBoz

15-Jan-15 21:46

► How I could displays more 40 Rows?

► Thank you.

[Reply](#) · [View Thread](#)

### **Re: Limte Number Rows**

Rolf Kristensen

19-Mar-15 21:14

► Just a random guess. Maybe you are missing the scrollbar-style for your ListView.

► [Reply](#) · [View Thread](#)



### **Refresh Grouping**

TheDarkBoz

2-Dec-14 17:01

► Hello

► I have two little issues. i have one column status wtih 2 state possibles:

-Printed

-Not Printed

When I group my CGrid by status I have 2 groups Not Printed and Printed without issues.

-First I don't understand how the range is make. I have Printed before Not Printed, it was in alphabetic order I will have Not Printed before.

-When I change the status the groups are not updated. How I could update automaticly?

Thank you, best regards

[Reply](#) · [View Thread](#)

### **Re: Refresh Grouping**

Rolf Kristensen

3-Dec-14 2:17

► When grouping by a column, then it iterates the items and creates groups as it meets new unique column values.

► If you want a special order for the groups, then just sort the items before or after grouping using

`CGridListCtrlGroups::SortColumn(int nCol, bool bAscending).`

The easy way to update the group-id for an updated item is to call `CGridListCtrlGroups::FixRowGroupId(int nRow)`.

[Reply](#) · [View Thread](#)

5.00/5 (1 vote)  

### [Re: Refresh Grouping](#)

 TheDarkBoz

3-Dec-14 18:56

 Thank you again. 



 [Reply](#) · [View Thread](#)

### [Tool crash when using this list control](#)

 zhangjingbo

24-Nov-14 13:05

 Hi Rolf:

 Firstly, thank you for your great list control.



I find a problem while using this control, tool always crash, i seems there is something wrong in creating CGridColumnTraitText, here is the details:

1. Add a member of type CGridColumnTraitText in a dialog and it is not used in the dialog.
2. Displaying the dialog using Domodal
3. Close the dialog, tool crash with message: Run-Time Check Failure #2 - Stack around the variable 'dlg' was corrupted. in the message, in which 'dlg' is the dialog variable.
4. If removing the CGridColumnTraitText member from dialog, there will be no crash while closing dialog.

Environment: VS2010, Win7 x64 SP1

Do you have any suggestions? I'm blocked for days.

Thank you.

[Reply](#) · [View Thread](#)

1.00/5 (1 vote)  

### [Re: Tool crash when using this list control](#)

 Rolf Kristensen

24-Nov-14 15:12

 The column traits should be allocated using `new`, and CGridListCtrlEx is then responsible for deleting them. 



 [Reply](#) · [View Thread](#)

### [Re: Tool crash when using this list control](#)

 Member 13918937

20-Jul-18 17:30

 Does every columns should have its own trait? Thank you so much. I've also blocked by this for few days. This control is great. But why multi columns couldn't share one trait?



 [Reply](#) · [View Thread](#)

### [Re: Tool crash when using this list control](#)

 Rolf Kristensen

27-Jul-18 15:06

 Well that is what I decided when creating this project. You are welcome to make your own changes with `shared_ptr`. But many MFC-projects are old and without STL and maybe even being built with VC98.



 [Reply](#) · [View Thread](#)

**Event ComboBox**

TheDarkBoz

3-Nov-14 20:11

Hello

Sorry but I don't find. Do you have one event when we change combobox selected Item?

Thank you.

Reply · View Thread

**Re: Event ComboBox**

Rolf Kristensen

4-Nov-14 21:52

Override `OnEditComplete` and you should get your edit-event. `pLVDI->item.lParam` should have the itemdata from the ComboBox.

If you need special behavior while the ComboBox-editor is open, then you need to create your own column-trait.

Reply · View Thread

**Bug of Editing Text**

wei-sun-ding

31-Oct-14 14:48

Hi Sir

I found an issue: When a subitem text was not initialized, the edit result was not update in the cell.

My code

C++

```
CGridListCtrlEx m_guests;
m_guests.InsertColumnTrait(0, L"Name", LVCFMT_LEFT, 120, 0, NULL);
m_guests.InsertColumnTrait(1, L"New Name", LVCFMT_LEFT, 120, 1, new CGridColumnTraitEdit());
m_guests.InsertColumnTrait(2, L"Version", LVCFMT_RIGHT, 80, 2, NULL);&
```



The following code will make the "New Name" cell uninitialized, the edit will fail to update the cell text.

C#

```
m_guests.InsertItem(count, L"Windows Server 2003");
// Workaround to set empty text
// m_guests.SetText(count, 1, L"");
m_guests.SetText(count, 2, L"1");
```



See if it's reproducible for you, I am using the Visual Studio 2008 on Windows 7 x64.

Reply · View Thread

**Re: Bug of Editing Text**

Rolf Kristensen

3-Nov-14 6:26

If you look at the demo-application, then your code should look like this:

```
C++
nItem = m_guests.InsertItem(++nItem, L"Windows Server 2003");
m_guests.SetText(nItem, 2, L"1");
```



Try to play around with the demo-application, and if you can reproduce the error there, then please tell.

[Reply](#) · [View Thread](#)

1.00/5 (1 vote)  

## How to Change the CHeaderCtrl background color and icon in CGridListCtrlEx? fgmail

30-Oct-14 11:12

-  I want to change head Background color and up-down sort Icon in CGridListCtrlEx, How to do?
-  Has any interface to provide ?

 [Reply](#) · [View Thread](#)

## Re: How to Change the CHeaderCtrl background color and icon in CGridListCtrlEx?

 Rolf Kristensen

31-Oct-14 4:35

-  The CHeaderCtrl allows one to put icons in the header, which CGridListCtrlEx also uses when running on Windows without default sort-arrow-support.
-  I guess you can find articles on how to manipulate the CHeaderCtrl, and have your way with it.

[Reply](#) · [View Thread](#)

## How to lock some Rows or cols not to scroll by scrollbar, like excel

 fgmail

30-Oct-14 11:05

-  I want to implement the result like office excel lock some Cols or Row to prevent scrolling,when I am scrolling the control.
-  I guess you can find articles on how to manipulate the CHeaderCtrl, and have your way with it.

 [Reply](#) · [View Thread](#)

## Re: How to lock some Rows or cols not to scroll by scrollbar, like excel

 Rolf Kristensen

31-Oct-14 4:32

-  This is not supported by CListCtrl, and probably requires a fullblown grid-control.
-  A possible alternative is to create a splitter, and then have two CListCtrl next to each other. The left CListCtrl has the frozen columns without scrollbar, and on the right it has the rest of the columns.

[Reply](#) · [View Thread](#)

## How to Change Select Row Background Color?

 fgmail

30-Oct-14 10:55

-  I develop use CGridListCtrlEx, but I Can't Change the Select Row background and foreground color, it always display blue color background, even I write the function
-  I guess you can find articles on how to manipulate the CHeaderCtrl, and have your way with it.

```
bool StockListCtrl::OnDisplayRowColor(int nRow, COLORREF& textColor, COLORREF& backColor)
{
    if(nRow % 2 == 0)
        textColor = RGB(233, 233, 233);
    else
        textColor = RGB(128, 128, 128);

    backColor = RGB(46, 46, 46);
    return true;
}
```

```
bool StockListCtrl::OnDisplayCellColor(int nRow, int nCol, COLORREF& textColor, COLORREF& backColor)
{
    if(nRow % 3 == 0)
        textColor = RGB(255, 0, 0);
    else if(nRow % 3 == 1)
        textColor = RGB(0, 255, 0);
```

```

else
textColor = RGB(0,0,255);

backColor = RGB(46, 46, 46);
return true;
}

```

[Reply](#) · [View Thread](#)5.00/5 (1 vote)   Rolf Kristensen

31-Oct-14 4:30

 **Re: How to Change Select Row Background Color?**

  Without disabling windows style: EnableVisualStyles(FALSE), then the color of selected/hotfocused rows cannot be changed easily (Owner drawn). 

 [Reply](#) · [View Thread](#)3.67/5 (2 votes)   **Re: But No use . follow my Code,How to do?** fgmail

31-Oct-14 9:50

  m\_stockGridListCtrl.SetBkColor(RGB(23,23,23));
m\_stockGridListCtrl.SetExtendedStyle(m\_stockGridListCtrl.GetExtendedStyle() & (~LVS\_EX\_GRIDLINES));
 m\_stockGridListCtrl.SetCellMargin(1,2);
m\_stockGridListCtrl.EnableVisualStyles(false);

```

CGridRowTraitXP* pRowTrait = new CGridRowTraitXP;
pRowTrait->SetRowColor(RGB(233, 233, 233) , RGB(46, 46, 46));
pRowTrait->SetInvertCellSelection(false);
m_stockGridListCtrl.SetDefaultRowTrait(pRowTrait);

```

*modified 30-Oct-14 22:14pm.*

[Reply](#) · [View Thread](#)  **Re: But No use . follow my Code,How to do?** Rolf Kristensen

3-Nov-14 1:49

  Guess you can do the following, which will remove full-row-selection, and also hide the label-column displaying single-cell-selection:



```

m_ListCtrl.SetExtendedStyle(m_ListCtrl.GetExtendedStyle() & (~LVS_EX_FULLROWSELECT));
m_ListCtrl.InsertHiddenLabelColumn();

```

But there seems to be an bug with drawing if having called `EnableVisualStyles(true)` (Attempts to draw selection anyway). It seems that one cannot remove theming after it has been added, so one have to remove the call `EnableVisualStyles(true)` from `CGridListCtrlEx::OnCreateStyle()`, then it works.

I have updated the [Google-Code repository](#)[^] with some changes to improve row-selection-coloring, and also changed so one has to manually call `EnableVisualStyles(true)` (If wanted).

*modified 2-Nov-14 18:33pm.*

[Reply](#) · [View Thread](#)  **Re: But No use . follow my Code,How to do?** fgmail

4-Nov-14 9:53

- ▲ I get new code, but still Can't Display the background color that I want to show in my select Row.  
▼ I want Full Row Select, but Only want to Change background color. I print OnCustomDraw pResult,  
✉ I found In another very simple example, I can Change background color of select row, but In OnCustomDraw,  
pResult Value is different in comparing with CGridListCtrlEx.

I attach the sample code.

```
m_ListCtrl.SetExtendedStyle(LVS_EX_FULLROWSELECT);

void CSelectListCtrl::OnCustomDraw(NMHDR* pNMHDR, LRESULT* pResult)
{
    NMLVCUSTOMDRAW *pCD = (NMLVCUSTOMDRAW*)pNMHDR;
    // By default set the return value to do the default behavior.
    *pResult = CDRF_DODEFAULT;

    //obtain row and column of item
    int iRow = pCD->nmcnd.dwItemSpec;
    int iCol = pCD->iSubItem;

    //Remove standard highlighting of selected (sub)item.
    pCD->nmcnd.ulItemState = CDIS_DEFAULT;

    switch( pCD->nmcnd.dwDrawStage )
    {
        case CDDS_PREPAINT: // First stage (for the whole control)
        {
            *pResult = CDRF_NOTIFYITEMDRAW;
            break;
        }

        case CDDS_ITEMPREPAINT:
        {
            *pResult = CDRF_NOTIFYSUBITEMDRAW;
            break;
        }

        case CDDS_ITEMPREPAINT | CDDS_SUBITEM : // Stage three
        {
            //if (sub)item was the one clicked, set custom text/background color
            //Un-comment the code segment to allow single cell highlight
            if( (m_iRow == iRow /*&& m_iCol == iCol*/ ) )
            {
                pCD->clrText = RGB(255,0,0); //selected text color
                pCD->clrTextBk = RGB(210,245,245); //selected basckground color
            }
            else
            {
                pCD->clrText = RGB(0,0,0); // default text color
                pCD->clrTextBk = RGB(255,255,255); // default background color
            }
        }
    }
}
```

```
        }

        *pResult = CDRF_NOTIFYPOSTPAINT;

    }

    break;

case CDDS_ITEMPOSTPAINT | CDDS_SUBITEM: // Stage four (called for each subitem of the focused item)
{

}

break;

default:// it wasn't a notification that was interesting to us.
{

*pResult = CDRF_DODEFAULT;

}

break;
}

}
```

*modified 3-Nov-14 22:17pm.*

Reply · View Thread



---

**Re: But No use . follow my Code,How to do?**

Rolf Kristensen

5-Nov-14 5:08

◀ This will change the background color of the selected-row. Does not work together with EnableVisualStyles(true).



C++

```
void MyListCtrl::OnCustomDrawRow(int nRow, NMLVCUSTOMDRAW* pLVCD, LRESULT* pResult)
{
    if (pLVCD->nmcdr.dwDrawStage == CDDS_ITEMPREPAINT)
    {
        if (pLVCD->nmcdr.uItemState & CDIS_SELECTED)
        {
            // Disable use of default selection-highlight-color
            pLVCD->nmcdr.uItemState &= ~CDIS_SELECTED;
        }
    }

    CGridListCtrlEx::OnCustomDrawRow(nRow, pLVCD, pResult);

    if ((pLVCD->nmcdr.dwDrawStage & CDDS_ITEMPREPAINT) == CDDS_ITEMPREPAINT)
    {
        if (IsRowSelected(nRow))
        {
            // Use our own special selection-background-color
            pLVCD->clrTextBk = RGB(255, 0, 0);
        }
    }
}
```



Remember to get latest from Google Code, as I have made a small fix in [CGridRowTraitXP](#).

*modified 4-Nov-14 17:50pm.*

Reply · View Thread



fgmail

5-Nov-14 19:55

◀ I get the latest code from google, and to do as you say ,but this is not I want,I want full row select and only set background color and text color.  
⌚ But now I only can select one cell and the background keep unchange

I want to develop some stock exchange software, when i select the grid row, I want the grid select full row and background color become to gray and text color become to green,how to do?

Reply · View Thread



**Re: But No use . follow my Code,How to do?**

Rolf Kristensen

5-Nov-14 20:43

- ◀ I have no clue what you want, besides that you like colors.
- ⌚ By default one cannot override the blue-selection-highlight color. But if you remove the selection-flag, then it will not be drawn:

C++

```
if (pLVCD->nmcuItemState & CDIS_SELECTED)
{
    // Disable use of default selection-highlight-color
    pLVCD->nmcuItemState &= ~CDIS_SELECTED;
```

Try to look at how `SetInvertCellSelection(true)` works, where it removes selection-highlight for a single cell. Maybe this is close to what you want?

[Reply](#) · [View Thread](#)



#### Re: How to Change Select Row Background Color?

Rolf Kristensen

6-Nov-14 15:01

- ◀ One last try to make what you want. Remember to use `EnableVisualStyles(false)`.

⌚

C++

```
void MyListCtrl::OnCustomDraw(NMHDR* pNMHDR, LRESULT* pResult)
{
    if (pLVCD->nmcuItemState & CDIS_SELECTED)
    {
        // Disable use of default selection-highlight-color
        pLVCD->nmcuItemState &= ~CDIS_SELECTED;
    }

    CGridListCtrlEx::OnCustomDraw(pNMHDR, pResult);

    if ((pLVCD->nmcuItemState & CDIS_SELECTED) == CDDS_ITEMPREPAINT)
    {
        if (IsRowSelected(nRow))
        {
            // Use our own special selection-color
            pLVCD->clrText = RGB(32, 255, 32);
            pLVCD->clrTextBk = RGB(23, 23, 23);
        }
    }
}
```

modified 4-Jun-16 6:08am.

[Reply](#) · [View Thread](#)



#### Re: But No use . follow my Code,How to do?

fgmail

13-Nov-14 20:37

- ◀ thank you very much 😊 .The Problem Solved

⌚ [Reply](#) · [View Thread](#)



#### Re: How to Change Select Row Background Color?

Member 14069137

10-Jan-20 23:32

- ◀ I had a need to only change the select background color background on only *some* cells.  
 My grid fills in the entire cell of in one column (RRC\_COLOR = 3) with a color equal to the value of the row's data value (set earlier), and no text. When selected, I did not want to color in that column to change, but did want to other

text cells to show selection.

I did it by overriding

```
OnCustomDrawCell() to set background for a particular column
and
OnCustomDraw() to prevent framework from using the selection blue background
```

```
void CCtrlMyGridList::OnCustomDraw(NMHDR* pNMHDR, LRESULT* pResult)
{
    NMLVCUSTOMDRAW* pLVCD = reinterpret_cast<NMLVCUSTOMDRAW*>(pNMHDR);
    int nRow = static_cast<int>(pLVCD->nmc.dwItemSpec);

    if (pLVCD->nmc.dwDrawStage == CDDS_ITEMPREPAINT)
    {
        if (pLVCD->nmc.uItemState & CDIS_SELECTED)
        {
            // Disable use of default selection-highlight-color
            pLVCD->nmc.uItemState &= ~CDIS_SELECTED;
        }
    }

    CGridListCtrlEx::OnCustomDraw(pNMHDR, pResult);
}

void CCtrlMyGridList::OnCustomDrawCell(int nRow, int nCol, NMLVCUSTOMDRAW* pLVCD, LRESULT* pResult)
{
    if (nCol == RRC_COLOR && nRow < GetItemCount())
    {
        // Use the row's data value for background color
        pLVCD->clrText = RGB(32, 255, 32);
        pLVCD->clrTextBk = GetItemData(nRow);
    }
    else
    if (IsRowSelected(nRow))
    {
        // Use our own special selection-color
        pLVCD->clrText = RGB(32, 255, 32);
        pLVCD->clrTextBk = RGB(23, 23, 23);

        // OR if you want to use the default windows selection colors...
        //pLVCD->clrText = ::GetSysColor(COLOR_HIGHLIGHTTEXT);
        //pLVCD->clrTextBk = ::GetSysColor(COLOR_HIGHLIGHT);
    }
}
```

modified 10-Jan-20 11:53am.

[Reply](#) · [View Thread](#)



## Adding Column

TheDarkBoz

30-Sep-14 18:54

- ▲ I am sorry for derangement but I fail insert new Column in the sample code
- ▼ I make the below changement

C#

[Expand ▾](#)

```
CString GetCellText(int col, bool title) const
{
```

```

switch(col)
{
    case 0: { static const CString title0(_T("Country")); return title ? title0 : m_Country; }
    case 1: { static const CString title1(_T("Capital")); return title ? title1 : m_City; }
    case 2: { static const CString title2(_T("European Championship")); return title ? title2 : m_YearWon.GetStatus() == m_YearWon.Valid ? m_YearWon.Format() : CString(); }
    case 3: { static const CString title3(_T("Wiki")); return title ? title3 : m_YearWon.GetStatus() == m_YearWon.Valid ? m_YearWon.Format(_T("%Y")) : CString(); }
    case 4: { static const CString title4(_T("AAAA")); return title ? title4 : m_Country; }
    default:{ static const CString emptyStr; return emptyStr; }
}

// And this.

int GetColCount() const { return 5; }

for(int col = 0; col < m_DataModel.GetColCount() ; ++col)
{
    const CString& title = m_DataModel.GetColTitle(col);
    CGridColumnTrait* pTrait = NULL;
    if (col==0) // Country
    {
        CGridColumnTraitCombo* pComboTrait = new CGridColumnTraitCombo;
        const vector<CString>& countries = m_DataModel.GetCountries();
        for(size_t i=0; i < countries.size() ; ++i)
            pComboTrait->AddItem((DWORD_PTR)i, countries[i]);
        pTrait = pComboTrait;
    }
    if (col==1) // City
    {
        pTrait = new CGridColumnTraitEdit;
    }
    if (col==2) // Year won
    {
        CGridColumnTraitDateTime* pDateTimeTrait = new CGridColumnTraitDateTime;
        pDateTimeTrait->AddImageIndex(nStateImageIdx, _T(""), false);           // Unchecked (and not
editable)
        pDateTimeTrait->AddImageIndex(nStateImageIdx+1, ColeDateTime(1970,1,1,0,0,0).Format(), true);
// Checked (and editable)
        pDateTimeTrait->SetToggleSelection(true);
        pTrait = pDateTimeTrait;
    }
    if (col==3) // Year won
    {
        CGridColumnTraitHyperLink* pHyperLinkTrait = new CGridColumnTraitHyperLink;
        pHyperLinkTrait->SetShellFilePrefix(_T("http://en.wikipedia.org/wiki/UEFA_Euro_"));
        pTrait = pHyperLinkTrait;
    }
    if (col==4)
    {
        pTrait = new CGridColumnTraitEdit;
    }
    m_ListCtrl.InsertColumnTrait(col+1, title, LVCFMT_LEFT, 100, col, pTrait);
}

```

I do not find my errors.. Could you help me please..

[Reply](#) · [View Thread](#)

1.00/5 (1 vote)  

 Rolf Kristensen

1-Oct-14 1:01

 **Re: Adding Column**

Just right-click the column-header, and you can choose to display your new column.

See also missing column if col count is increased by developer[<sup>^</sup>]

[Reply](#) · [View Thread](#)

5.00/5 (1 vote) [Up](#) [Down](#)

### [Re: Adding Column](#)

TheDarkBoz

1-Oct-14 15:43

Thank you, now it good.

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[Up](#) [Down](#)

### [My vote of 5](#)

hustlmh

6-Sep-14 10:01

science

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### [Use CGridListCtrlEx in CListView](#)

A&Ms

13-Apr-14 19:27

How could I use this control with CListView?

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### [Re: Use CGridListCtrlEx in CListView](#)

Rolf Kristensen

13-Apr-14 21:31

Short answer: You don't.

Long answer: You create a view that inherits from CView and embeds the custom CListCtrl:

[How to Create a Custom View to Wrap Your Own Control\[<sup>^</sup>\]](#)

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### [Re: Use CGridListCtrlEx in CListView](#)

A&Ms

13-Apr-14 22:13

Thanks, But I was thinking about inheriting from CListView and porting all the handlers and stuff the way you have implemented in CGridListCtrlEx to a new CListViewEx class. So, as mentioned in your article it will keep the features of original CListView unchanged and could be replaced in any older projects which already uses CListView. Is there any thing I should care if I try to do it in my application? If it is possible, I think It will be good idea to have the CListViewEx beside CGridListCtrlEx in your future revisions of CGridListCtrlEx.  
Thanks Again.

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### [Re: Use CGridListCtrlEx in CListView](#)

Rolf Kristensen

13-Apr-14 22:16

If CListView is a must, then you might find this implementation interesting:

### [CListCtrlEx and CListViewEx\[<sup>^</sup>\]](#)

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### [Re: Use CGridListCtrlEx in CListView](#)

A&Ms

13-Apr-14 22:32

Thanks for the suggestion. The must is only because most developers may prefer to achieve the new features just by replacing their base class with new one, without worrying about missing anything from the original one. Like the way it is in my case. any way I like your job.

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5.00/5 (1 vote) [Up](#) [Down](#)

**Background color disappear when i select one cell.**

Sun-Mi Kang

1-Apr-14 15:51

I don't want to disappear color when i select one cell.

Is there any tip?

Reply · View Thread



Rolf Kristensen

10-Apr-14 0

**Re: Background color disappear when i select one cell.**

See the method `CGridRowTraitText::SetInvertCellSelection()`

Reply · View Thread

1.00/5 (1 vote)



**thank you.**

Alice47

9-Jan-14 13:41

Thank you for your excellent contribution , and also thanks for reply of gordon88.

The grid control is useful and multiple functional . 😊

I need six column and worked it out after finding in your message .

Reply · View Thread

1.00/5 (1 vote)



**Missing cell coloration question**

Smash73

2-Dec-13 17:

Hi Rolf,

First of all, many thanks for your brilliant contribution! Excellent grid control.

I have a question regarding the coloration. My grid is set up like this:

C++



```
void CMyGrid::OnCreateStyle()
{
    CGridListCtrlEx::OnCreateStyle();

    EnableVisualStyles(false);
    EnableToolTips(FALSE);

    SetExtendedStyle(GetExtendedStyle() | LVS_EX_GRIDLINES);
    SetExtendedStyle(GetExtendedStyle() & ~LVS_EX_CHECKBOXES);
    SetExtendedStyle(GetExtendedStyle() & ~LVS_EX_TRACKSELECT);
    SetExtendedStyle(GetExtendedStyle() & ~LVS_EX_FULLROWSELECT);
    SetExtendedStyle(GetExtendedStyle() & ~LVS_EX_HEADERDRAGDROP);
}
```

Colors of cells (background colors) are changed via overridden `OnDisplayCellColor()` method.

Everything works smoothly (i.e. colors are persistent) until I click on the very first column of any row (i.e. column with zero index). At this moment all background colors of all cells in the row are reset to default. Colors are restored to what has been specified in `OnDisplayCellColor()` as soon as I click any other cell in a row or an empty place of the control.

Is it possible to get rid of this effect somehow?

Thanks in advance!

Reply · View Thread

1.00/5 (1 vote)



**Re: Missing cell coloration question**

Rolf Kristensen

4-Dec-13 7:

- Have been testing without LVS\_EX\_FULLROWSELECT, and can see other complain about not being able to change the background color (clrTextBk) for selected rows (Using vanilla CListCtrl).
- Found one funny behavior and that is if the label column (nCol == 0) is moved to outer right, then the background coloring works for subitems.

Possible hack:

- Move label column to the far right
- Set label column width to zero
- Mark label column as non-resizable (ColumnState.m\_Resizable)
- Change the background color of first visible column to display selection if needed ( COLOR\_HIGHLIGHT).

More correct hack:

- Perform all the drawing yourself (CDRF\_SKIPDEFAULT)

My advice don't remove LVS\_EX\_FULLROWSELECT if you are into changing background-coloring for subitems.

modified 3-Dec-13 19:32pm.

Reply · View Thread

**Re: Missing cell coloration question**

Smash73

12-Dec-13 6

- Hi Rolf,
- Thank you for the answer, CodeProject has not sent me a notification about your message, sorry for delay.

Not sure I understand that hack ... How is it possible to move the label column to the right? First column (with zero index) is inserted as soon as InsertColumn(0, ...) is invoked.

Regards.

Reply · View Thread

**Re: Missing cell coloration question**

Rolf Kristensen

12-Dec-13 15:00

- You can move columns around by using the mouse and dragging the column-header. The hack is to drag-drop the initial-first-column (nCol==0) to the end, then the coloring will not affect the other columns.
- If wanting to do it using code-behind, then you can change the display order using CListCtrl.SetColumnOrderArray()

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**Re: Missing cell coloration question**

Smash73

15-Dec-13 3:21

- Yep, CListCtrl.SetColumnOrderArray() did the job right. Thank you for the hint!
- Reply · View Thread
- 

**Re: Missing cell coloration question**

Rolf Kristensen

3-Nov-14 6:43

- Instead of moving columns around to fix the issue with cell-backgrounds, then you could consider doing the following:
- Get latest from Google-repository[^], which now doesn't activate windows-theming by default, as it disturbs coloring when not using LVS\_EX\_FULLROWSELECT.

```
m_ListCtrl.SetExtendedStyle(m_ListCtrl.GetExtendedStyle() & (~LVS_EX_FULLROWSELECT));
m_ListCtrl.InsertHiddenLabelColumn();
```

This should allow `OnDisplayCellColor()` to work without needing to fiddle with column-orders.

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## FAQ: can you provide an activex(ocx) control for this grid

Sunil Samuel Abraham 31-Oct-13 19:54

can you provide an activex(ocx) control for this grid

[Reply](#) · [View Thread](#)



### Re: can you provide an activex(ocx) control for this grid

Rolf Kristensen

31-Oct-13 20

If I was serving a prison sentence, then I might have the time for such a task.

But I guess you could implement your own custom COM+ class that inherits from COleControl, which has the CGridListCtrlEx as a member variable.

Your own custom class then have to provide the COM+ interface methods needed to operate the actual CGridListCtrlEx (Drawing etc.)

[MSDN: Introduction to ActiveX Controls](#)[^]

[MSDN: ActiveX Controls Overviews and Tutorials](#)[^]

[CodeGuru: ActiveX Control Tutorial](#)[^]

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## FAQ: how to use Virtual-list(LVS\_OWNERDATA)

sakai izumi

18-Oct-13 14:42

the project is so good and the function is so strong , but what should i do if i want to use Virtual-list,can get me some tips? Thanks a lot.

[Reply](#) · [View Thread](#)



### Re: how to use Virtual-list(LVS\_OWNERDATA)

Rolf Kristensen

21-Oct-13 0:27

Must admit I have never used CGridListCtrlEx for anything, besides as an exercise in creating a grid control for MFC

I have made sure not to misuse GetItemData()/SetItemData(), as these are not available when using LVS\_OWNERDATA. So any article about working with LVS\_OWNERDATA, should work for CGridListCtrlEx:

[Using virtual lists](#)[^]

[CQuickList](#)[^]

But you should use [CGridListCtrlEx](#)-class and not the [CGridListCtrlGroups](#)-class, as groups with LVS\_OWNERDATA is [not officially supported](#)[^].

[Reply](#) · [View Thread](#)



### Re: how to use Virtual-list(LVS\_OWNERDATA)

sakai izumi

21-Oct-13 16:40

Thanks for Rolf Kristensen's suggestion, I think I've found a solution.It is to create Virtual-list class that inherits from CGridListCtrlEx, and then a list of all the virtual lines of information, including text, font color, etc. save to a lot of private variable in Virtual-list class, and then modify `OnDisplayCellColor`, `OnDisplayCellText` method returns the correct information.This is excellent benefit from CGridListCtrlEx good design.



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## My vote of 5

Member 7943814

9-Oct-13 14:17

good

Reply · View Thread



## Support Button in List

MoonLightKeeper

2-Oct-13 16:03

Do you have plans to support the button?  
give me your tip to implement button plz..

Reply · View Thread



## Re: Support Button in List

Rolf Kristensen

2-Oct-13 16:20

I have no plans to implement a button. Instead I would recommend to use the hyperlink-columntrait, so instead of clicking a button, then one is clicking a link (As described in the article).



I guess you could investigate this columntrait that handles progressbar:

<https://code.google.com/p/cgridlistctrlex/issues/detail?id=23>

Then "just" replace the logic for creating/drawing a progressbar with the logic for creating/drawing a button.

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## Re: Support Button in List

MoonLightKeeper

4-Oct-13 17:31

thanks to the help



Reply · View Thread



## SetBkImage (HBITMAP) weird

Eversoft

29-Aug-13 21:11

good control!  
but i found if you call setbkimage with hbitmap, the coordinate is wrong.  
but it's correct if setbkimg (pathname).

Reply · View Thread



## Re: SetBkImage (HBITMAP) weird

Rolf Kristensen

29-Aug-13 21:13

If the behavior is the same with a vanilla CListCtrl, then create a bug-report to Microsoft.



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## No checkbox control support in the List?

Jason.LYJ

19-Aug-13 11:25

It is a great work!  
But I can see only datatime has checkbox, Can we just use a check box-text type?

Reply · View Thread



## Re: No checkbox control support in the List?

Rolf Kristensen

19-Aug-13 14:23

Not sure I understand your question, all columns can have a checkbox if you like.

Try reading the section about use of checkboxes in this article.

If you look at the code of the demo-application, then I have only activated checkbox-editing for the year-column.

Reply · View Thread



**Re: No checkbox control support in the List?**

Jason.LYJ

19-Aug-13 16:10

Yes,It's my mistake, I have found it 😊

Reply · View Thread



**Re: No checkbox control support in the List?**

Jason.LYJ

19-Aug-13 17:33

Well,another question, I have no idea how to get the checkbox status at a specific cell.Would you explain it?

m\_ListCtrlArray.GetItemText(i,0); only can get the text?

Reply · View Thread



**Re: No checkbox control support in the List?**

Rolf Kristensen

19-Aug-13 17:35

Well if you actually read the section about using checkboxes, then you would find:



**Quote:**

CGridColumnTraitImage uses the cell image to draw the checkbox, so it is not possible to have both cell image and checkbox in the same column. To get and set the checked / unchecked state, one can use GetCellImage() / SetCellImage().

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**Re: No checkbox control support in the List?**

Jason.LYJ

19-Aug-13 18:06

😊😊

Sorry for my poor english,Thank You!

Reply · View Thread



**Re: No checkbox control support in the List?**

Jason.LYJ

4-Sep-13 15:38

Hi,Rolf:

I would like to know a single "Checkbox" without CEdit or CdateTime and a Color-Combobox can be add to this grid? because I think these two control is very useful.

Reply · View Thread



**Re: No checkbox control support in the List?**

Rolf Kristensen

10-Sep-13 5:42

I guess you could use the existing **CGridColumnTraitImage** as a raw checkbox-column-trait.



I guess I could create a column-trait that wraps **CComboBoxEx**, and then specify colors by inserting into an attached **CImageList**. Though there will probably be some funny issues about getting these images into the "global" **CImageList** owned by **CListCtrl**. Will probably have to do some custom drawing.

*modified 9-Sep-13 17:50pm.*

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**CGridColumnTraitMultilineEdit bug when changing less then 2 characters**

keniff1

24-Jul-13 18:59

Hi,

first thanks for this listctrl!!! great work!



i use your class in a VS2010 project. In one column i use the CGridColumnTraitMultilineEdit-Class.  
I noticed, if you change less then 2 characters, the control won't edit the item. In the function "OnEditComplete" the  
"LV\_DISPINFO\* pLVDI" seems to be a bad pointer.  
If you edit more than one character, everything works fine.

When i use the normal CGridColumnTraitEdit-Class theres no problem!

Any idea why this happens?

Thank you in advance!

keniff

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Rolf Kristensen

25-Jul-13 4:23

#### Re: CGridColumnTraitMultilineEdit bug when changing less then 2 characters

Really annoying. I had implemented code to handle this case, but sadly enough I had left out a not-operator.

Well if you get latest from Google Code[^], then this bug should be fixed.

Anyway thanks for telling 😊

[Reply](#) · [View Thread](#)



keniff1

25-Jul-13 17:19

#### Re: CGridColumnTraitMultilineEdit bug when changing less then 2 characters

Hi,

no problem, thanks to you! works fine!

And thx for the quick answer!

greetings keniff

[Reply](#) · [View Thread](#)



#### Progress trait "CGridColumnTraitProgress" already Available.

gordon88

16-Jul-13 16:06

#### XML



A few months ago I did designed a Progress bar Trait, as suggested borrowing code from "Alan W".

Work well I use it daily (start, end control, hoover to see values)  
Check with latest rev seems OK.

Rolf did make it available on github (I didn't check that still on github ), but it is not supplied with this Demo code.

Nor comment updated to say it exist (Unless mine doesn't match the requirement)

If no longer on github and of interest.

Ask, I will take time to synchronize my latest version (minor bug + color change to warn when < 0.0 or > 100.0).

See also

[CGridListCtrlEx - Grid Control Based on CListCtrl\[^\]](#)

Gordon

[Reply](#) · [View Thread](#)1.00/5 (1 vote) [Upvote](#) [Downvote](#)
 **Re: Progress trait "CGridColumnTraitProgress" already Available.**

Rolf Kristensen

17-Jul-13 1:12

▶ You are very welcome to add a new comment to [Issue#23 - CGridColumnTraitProgress](#)[^], where you attach the updated code.

⌚ I'm surprised that I haven't broken anything in your code, with all the changes that have been made since ver. 1.9 😊

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 **Column Header Select event**

vg8open

11-Jul-13 3:30

▶ Thanks for a great project! I have two questions, though.

▶ 1) I have two list controls and I want the header of both lists to synchronize. If the user enabled a column in one listbox, I want to enable the same column on the other listbox. Is there a function I can override or an event I can catch to do this?

2) How do I enable/disable a column programmatically?

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 **Re: Column Header Select event**

Rolf Kristensen

11-Jul-13 5:48

▶ 1) I would probably just overload CGridListCtrlEx::ShowColumn() and implement a custom notification-event for your listctrl. This notification can then be caught by the parent-view, and then update the sister-listctrl.

⌚ 2) If enable/disable means show/hide then CGridListCtrlEx::ShowColumn() is the method to use.

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 **Re: Column Header Select event**

vg8open

11-Jul-13 22:14

▶ Thank you! It works out perfectly.

⌚ [Reply](#) · [View Thread](#)

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 **How to change the mouse cursor from arrow to hand/folded hand while dragging?.**

manucng

27-Jun-13 13:42

▶ i tried to add mouse move and mouse l button up events to my sub class and tried to change the mouse cursor on drag but its not changing. can you please give me a clue which code do i need to modify to implement the same.

⌚ [Reply](#) · [View Thread](#)

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 **Re: How to change the mouse cursor from arrow to hand/folded hand while dragging?.**

Rolf Kristensen

29-Jun-13 21:23

▶ I have added support for `IDropSource::GiveFeedback` to allow changing mouse cursor during drag-drop.

⌚ Get latest from [Google Code](#)[^] and override the method `OnDragGiveFeedback()`

C++

[Copy](#)

```
SCODE MyListCtrl::OnDragGiveFeedback(DROPEFFECT dropEffect)
{
```

```

if (dropEffect != DROPEFFECT_NONE)
{
    if (dropEffect & DROPEFFECT_MOVE)
    {
        // TODO FIX LoadCursor handle leak (Use MyListCtrl constructor/destructor)
        HCURSOR hand = ::LoadCursor(NULL, IDC_HAND);
        ::SetCursor(hand);
        return S_OK;
    }
}
return DRAGDROP_S_USEDEFAULTCURSORS;
}

```

modified 29-Jun-13 9:47am.

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### Data does not get drawn if containing frame is WS\_EX\_COMPOSITED

Charles C (Valorware)

22-Jun-13 2:47

I have one of these controls in a project I am working on, and in order to eliminate control flickering in my windows, I  
 had to make my child frame's window style ex contain WS\_EX\_COMPOSITED. Unfortunately, this had the side effect of  
 making it so that my CGridListCtrlEx does not render the cells. It shows the column headers and their strings, but all data  
cells below the top row do not get drawn. All that appears is a grey background. I commented out WS\_EX\_COMPOSITED  
and the control was drawn properly again.

Is there any way to make it work with this style flag, or will I just need to make another type of child frame to contain this control? This would kind of work for my application, but it really isn't an ideal fix (especially if the list control appears with other controls in the same dialogue/window which are suffering from flickering).

Thanks for any info/help you can provide.

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### Re: Data does not get drawn if containing frame is WS\_EX\_COMPOSITED

Rolf Kristensen

29-Jun-13 22:20

Just tried with a vanilla CListCtrl, and it also behaves badly when parent window is using WS\_EX\_COMPOSITED.  
 When googling then I found that others also complained about this:

<http://www.daniweb.com/software-development/cpp/threads/303918/listview-will-not-draw-on-a-composite-window>

[^]

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### Re: Data does not get drawn if containing frame is WS\_EX\_COMPOSITED

Rolf Kristensen

11-Jul-13 6:07

Seems if you add the style WS\_CLIPCHILDREN (And remove the style WS\_BORDER) for CListCtrl, then it works  
 "better" on a dialog using WS\_EX\_COMPOSITE style. There are still some minor issues with redrawing of scrollbars,  
 but no flicker.

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### Re: Data does not get drawn if containing frame is WS\_EX\_COMPOSITED

Charles C (Valorware)

5-Sep-13 1:45

Thanks (belatedly) for the info!

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**Re: Incorrect sorting for dates**

Rolf Kristensen

26-Apr-13 19:49

Thank you for reporting this bug. I have updated [google-code](#)[^] with your fix.

Reply · View Thread

**Excellent project**

Mike Sarahan

12-Mar-13 6:57

Thank you for your hard work!

Reply · View Thread

**CGridColumnTraitEdit by cell edit limited**

Andy\_Zhang

21-Jan-13 12:46

hi!

Rolf!

i have a quest for cell edit limited.

we have always input decimal in cell as a grid list like excel. i have just known we can set column trait edit style by SetStyle function. could you have some experience for column set for like decimal input?

many thanks!



Reply · View Thread

**Re: CGridColumnTraitEdit by cell edit limited**

Rolf Kristensen

31-Jan-13 6:14

Sorry about the late reply, I didn't receive any mail notification of your question. I don't quite understand your question, but I think you are asking for a column-editor that only accept numeric/decimal values.



There is a contribution at [Google Code](#)[^] which implements a numeric editor. Not sure how well it works, but maybe it can give you some inspiration.

Reply · View Thread

**Re: CGridColumnTraitEdit by cell edit limited**

Andy\_Zhang

31-Jan-13 10:34

many thanks for your help and link as my poor description!  
 best wishes and happy new year!



andy

Reply · View Thread 1.00/5 (1 vote)

**Copy to clipboard**

Gert Hauan

17-Jan-13 20:59

Hi.

I have an application where I need to copy from the list to the clipboard all data in all selected rows. This works most of the time if multiple rows are marked, but if only ONE row is selected, then only data from the focused row will be copied. (So the whole row will be blue, but only the focused row (not blue) is copied).

Is there any workarounds for this behavior?

Reply · View Thread

**Re: Copy to clipboard**

Rolf Kristensen

17-Jan-13 21:06

- ▶ You can use the Left Arrow key to remove the single-cell-focus, and it will copy the entire row.
- ◀ If you always want to copy the entire row, then you can override `CGridListCtrlEx::OnDisplayToClipboard`, with this logic:

```
C++ ✖

bool CMyListCtrl::OnDisplayToClipboard(CString& strResult, bool includeHeader)
{
POSITION pos = GetFirstSelectedItemPosition();
if (pos==NULL)
    return false;

if (includeHeader)
    OnDisplayToClipboard(-1, strResult);

while(pos!=NULL)
{
    int nRow = GetNextSelectedItem(pos);

    CString strLine;
    if (!OnDisplayToClipboard(nRow, strLine))
        continue;

    if (!strResult.IsEmpty())
        strResult += _T("\r\n");

    strResult += strLine;
}
}
```

[Reply](#) · [View Thread](#)1.00/5 (1 vote) ↗ ↙
↑ ↓ **Re: Copy to clipboard** Gert Hauan 4-Mar-13 19:58

- ▶ Thanks for your reply and tip.

◀ (I somehow don't get e-mails when people reply to my post in here, therefore I didn't see this before now.)

[Reply](#) · [View Thread](#) ↗ ↙
↑ ↓ **Show Combo Box by default** Member 9677831 18-Dec-12 14:49

- ▶ Hi,  
is there a way to show the combo box by default without clicking on the cell first?  
◀ BTW, thanks for this awesome code. 👉

[Reply](#) · [View Thread](#) ↗ ↙
↑ ↓ **Re: Show Combo Box by default** Rolf Kristensen 18-Dec-12 15:51

- ▶ See the release notes for ver. 2.2 (Bottom of this article), about `SetSingleClickEdit` and `SetShowDropDown`

◀ [Reply](#) · [View Thread](#) ↗ ↙

↑ ↓ **Re: Show Combo Box by default** Member 9677831 4-Jan-13 10:08

- ▶ Thanks.  
I have another question.  
◀ can i convert the text in cell into \*\*\*\*\* ?  
like what the credit setpasswordchar() did.

[Reply](#) · [View Thread](#)

### **Re: Show Combo Box by default**

Rolf Kristensen

4-Jan-13 14:52

This might help<sup>[^]</sup>

[Reply](#) · [View Thread](#)

### **Re: Show Combo Box by default**

Member 9677831

8-Jan-13 16:58

thanks.  
 that's helpful.  
 i have another question regarding the combobox.  
 i've tried both SetSingleClickEdit and SetShowDropDown.  
 but it still require user to click on the cell first before the combobox shows up.  
 can we make it to display the combobox [v] icon to display by default?  
 in this way user will know there is a combobox in first look.

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### **Re: Show Combo Box by default**

Rolf Kristensen

8-Jan-13 17:34

Not sure it is a good idea to open the cell-editor when the cell gets focus. I think there will be problems with handling keyboard navigation events.  
 Ex. if the ComboBox is opened and the user presses arrow-down-key. Does it mean he wants choose the next item in the ComboBox? Or does it mean that he wants to navigate to the row below ?  
 If you want custom drawing to show that the cell is actual a ComboBox, but without opening the cell-editor, then I think you should find another grid control.

*modified 8-Jan-13 5:44am.*[Reply](#) · [View Thread](#)

### **Missing support for LVM\_CREATEDRAGIMAGE**

Jost Eberbach

7-Dec-12 16:18

I use ListView\_CreateDragImage(...) etc. to show the user which row he is dragging. This works fine with CListCtrl, but not with CGridListCtrlEx. Any hint how to fix this?  
[Reply](#) · [View Thread](#)



### **Re: Missing support for LVM\_CREATEDRAGIMAGE**

Rolf Kristensen

7-Dec-12 16:34

probably the internal row re-ordering logic in the CGridListCtrlEx, that is causing the conflict. Could you [create an issue](#)<sup>[^]</sup> and upload example project where you use ListView\_CreateDragImage together with CListCtrl ? (Maybe a modification of the demo application)

[Reply](#) · [View Thread](#)

### **Re: Missing support for LVM\_CREATEDRAGIMAGE**

Jost Eberbach

7-Dec-12 18:57

I found this has to do with the first column, if you use InsertHiddenLabelColumn() and have nothing in column 0 the dragimage will just be a small grey box. CListCtrl will behave similar, if there is nothing in column 0.

[Reply](#) · [View Thread](#)

5.00/5 (1 vote)

[Re: Missing support for LVM\\_CREATEDRAGIMAGE](#)

Rolf Kristensen

7-Dec-12 22:31

So if you fill in some dummy data for column 0, then it will display the wanted dragimage ?

[Reply · View Thread](#)

[Re: Missing support for LVM\\_CREATEDRAGIMAGE](#)

Jost Eberbach

10-Dec-12 15:03

Yes, it will display an image showing the string in column 0. CListCtrl does the same thing.

[Reply · View Thread](#)

[VC6.0 can't compiled!](#)

skyGeorge

5-Dec-12 20:47



Hi,  
Rolf



useing vs2008 to compile is OK, but VC6.0 cann't compiled,Why?

The error is 'CGridListCtrlGroups' : no appropriate default constructor available

could you give me advice?

[Reply · View Thread](#)

[Re: VC6.0 can't compiled!](#)

Rolf Kristensen

6-Dec-12 1:07

CGridListCtrlGroups requires one has defined `_WIN32_WINNT >= 0x0501`

Also if using VC6 and wants to compile CGridListCtrlGroups, then it also requires that one is including Windows 2003 SDK (or newer), as the SDK included with VC6 (From 1998), doesn't know about the grouping functionality introduced with WinXP.

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5.00/5 (3 votes)

[which event can be catch the item combo change?](#)

Andy\_Zhang

29-Nov-12 8:40



Hi!  
Rolf!

I have another trouble for catch the item change, in image trait when image changed we can catch the endlabeledit event, and also i want to catch each item combo change event??but use endlabeledit is no useful. could you give me advice???



[Reply · View Thread](#)

[Re: which event can be catch the item combo change?](#)

Rolf Kristensen

29-Nov-12 14:26

Don't you get the LVN\_ENDLABELEDIT, or what are you missing ?

You can always create your own CGridColumnTraitCombo, and sent whatever new notifications you need.

[Reply · View Thread](#)

[Re: which event can be catch the item combo change?](#)

Andy\_Zhang

29-Nov-12 17:57

thanks very much!

i have been finish my event, in endlabeledit enevt it's sometimes can catch sometimes is nothing. when i set

⌚ breakpoint in oneditcomplete, endlabeledit can be catch combo change, anything is ok, but take breakpoint, nothing again. it's so unstably! 😊🌐

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---

📄 **Re: which event can be catch the item combo change?**

👤 Rolf Kristensen

29-Nov-12 18:28

👉 Since the demo application is working fine, then I think you are doing something wrong. Please create an [issue](#) ↗ at [google code](#)[^], and attach example code, and steps for how to reproduce the wrong behavior.



⌚ Remember that the [LVN\\_ENDLABELEDIT](#)[^] notification sends a LVITEM structure with pszText = NULL, when the edit operation was cancelled.

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[Re: which event can be catch the item combo change?](#)

Andy\_Zhang

9-Jan-13 12:45

so sorry, i have been catch this bug, it's not for liscrlex, it's my vs config not suitable for breakpoint! 😞

[Reply](#) · [View Thread](#)



[Excellent](#)

Kucera Jan

28-Nov-12 16:38

Excellent, thanx a lot 😊

[Reply](#) · [View Thread](#)



[How to set a full select checkbox into column title](#)

Andy\_Zhang

8-Nov-12 15:34

hi!

all!

we can't select all column item current version. i want to add a checkbox into column title like the sort image. but i have not any mind for this. could you give me some advice? 😊

[Reply](#) · [View Thread](#)

1.00/5 (1 vote)



[Re: How to set a full select checkbox into column title](#)

Rolf Kristensen

8-Nov-12 15:48

Maybe these articles can help ya:

[How to Add a Checkbox to a List View Column Header](#) [^] (Vista+: HDS\_CHECKBOXES + HDN\_ITEMSTATEICONCLICK)

[Using Check Box in List Control](#) [^] (Checkbox ImageList + HDN\_ITEMCLICK)

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[Re: How to set a full select checkbox into column title](#)

Andy\_Zhang

9-Nov-12 12:37

so thanks , but i need XP support. i 'd like cgridlistctrlrex very much, like QT widgeget and widegetitem. but for this column checkbox, maybe i have to use xlib or other ctrl class, so so 😊 , i check some info and try to paint bu

myself until today...

[Reply](#) · [View Thread](#)



[Re: How to set a full select checkbox into column title](#)

Rolf Kristensen

9-Nov-12 14:44

Notice that the second link I posted works on Win2k/WinXP.

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[My vote of 5](#)

Member 546551

30-Oct-12 3:06

Great code and a well written article.

[Reply](#) · [View Thread](#)



[How to directly edit a cell by code?](#)

MFC\_Michael

23-Oct-12 23:45

Hi Kristensen,

When add a new row in list control, for example, there is a editor column which could input string, normally click the cell first time, it will select the row, click the same cell second time, it wil show edit control to input string. The case is that, we want to edit a cell when add a new row, so how to show the edit control directly by code for editing? Not by mouse

clicking.

Thanks a lot for any suggestion.

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### [Re: How to directly edit a cell by code?](#)

Rolf Kristensen

24-Oct-12 0:43

You can call the method `CGridListCtrlEx::EditCell`, and it should launch the configured editor.



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### [Re: How to directly edit a cell by code?](#)

MFC\_Michael

25-Oct-12 0:22

Thanks, it works as expected.



[Reply](#) · [View Thread](#)



### [Whether it is possible to show icon in the center of the column?](#)

MFC\_Michael

22-Oct-12 23:58

Hi,Kristensen



For a column of list, it include icon and text, normally it will show icon on the left side of a column, so if I want to only show icon in the center of whole column(empty text), is it possible? How to do the setting if possible?

Thanks a lot for any suggestion.

[Reply](#) · [View Thread](#)



### [Re: Whether it is possible to show icon in the center of the column?](#)

Rolf Kristensen

23-Oct-12 1:57

I have not seen anyone being able to configure the alignment of subitem images for the CListCtrl.



I guess the only way to center the images is to overwrite the custom drawing, and draw the image yourself.

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### [Re: Whether it is possible to show icon in the center of the column?](#)

MFC\_Michael

23-Oct-12 22:48

OK.



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### [some trouble with scroller](#)

Member 9186288

22-Oct-12 2:38

when I double click the header of the group, the scroller bar should be appeared or disappeared, but at the moment, the whole grid was refreshed in wrong way.is this a listctrl's bug?how can i fix it?

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### [Re: some trouble with scroller](#)

Rolf Kristensen

22-Oct-12 3:30

Not sure I understand what problem you are experiencing, but double-clicking the group header to make it hide/show the grouped items only works on Vista/Win7 (Not WinXP).



Create an [issue at google code](#)[^], with steps to reproduce (Maybe even a screenshot)

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**How to keep the selected item the same color as standard list control when use CGridListCtrlEx ?**

MFC\_Michael

17-Oct-12 0:18

Hi,Kristensen:

For CGridListCtrlEx, when select a item, the item color is not the same as default list control, the default color of selecting an item is that it will draw the row with blue color, and draw the text with white color, so what should I do if I want to keep the same color as standard list control when select an item?

And how could I change the text font for a row? For example, use Bold for the text.

Thanks a lot.

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**Re: How to keep the selected item the same color as standard list control when use CGridListCtrlEx ?**

Rolf Kristensen

17-Oct-12 3:38

To opt out of the highlighting of cell focus, then you can use the method `CGridRowTraitText::SetInvertCellSelection`.

To change the font, then you can override either `CGridListCtrlEx::OnDisplayCellFont` (all columns) or `CGridColumnTraitText::UpdateTextFont` (single column type).

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**Re: How to keep the selected item the same color as standard list control when use CGridListCtrlEx ?**

maplewang

18-Oct-12 19:25

Hi,Kristensen:

Is there any helper function let me detect wether we have escaped from editor/datetime/combo or we delete the whole string, since in these two ways the value of `pDispInfo->item.pszText` are all NULL.

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**Re: How to keep the selected item the same color as standard list control when use CGridListCtrlEx ?**

Rolf Kristensen

18-Oct-12 22:20

If the user deletes the contents of a cell, then `pDispInfo->item.pszText` should be set to blank string ("") instead of `NULL`.)

P.S. Think you are replying to the wrong discussion thread 😊

[Reply](#) · [View Thread](#)



**Combo trait return NULL Text and Editor when trap in OnEditComplete**

maplewang

16-Oct-12 10:11

Hi,Kristensen:

I noticed one problem when I using a combo trait, when I click on the combo for only once, it shows an editor with text.

If I do not click on the dropdown arrow and click the other column or row, the `OnEditComplete` will be trapped with Text and Editor are NULL, So I wonder wether it is right? in fact the text are there, in that case we cannot detect whether the text has changed by direct writing on editor?

I have made a issue on google code <http://code.google.com/p/cgridlistctrlex/issues/detail?id=30>, please have a test on it, you can click on the second column, I have moved the country combo to the second column. the test sample runs on message `LVN_ENDLABELEDIT`, I think it should be same if I it is used in a `CGridListCtrlEx` derived control with in function `OnEditComplete`.

Thanks ahead.

modified 15-Oct-12 22:33pm.

[Reply](#) · [View Thread](#)

### **Re: Combo trait return NULL Text and Editor when trap in OnEditComplete**

Rolf Kristensen

17-Oct-12 3:54

MSDN specifies that the [LVN\\_ENDLABELEDIT](#)[^] notification will have the [LVITEM](#) member [pszText](#) set to NULL if the user cancels editing, otherwise [pszText](#) is the address of the edited text. Actually had another issue about this initially wasn't working properly[^].

Also notice that [LVITEM](#) member [lParam](#) is set to the itemdata of item selected in the ComboBox, so you don't have to perform any extra lookups to find this value.

If you want get hold of the pointer to the dynamic created cell-editor, then you should consider to inherit from [CGridListCtrlGroups](#), and add a method [GetCellEditor\(\)](#), that returns protected member variable [m\\_pEditor](#). Instead of the [GetDlgItem\(pDispInfo->hdr.idFrom\)](#), since in next release the [idFrom](#) will be the [m\\_ListCtrl](#).

*modified 16-Oct-12 16:29pm.*

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### **How to insert tree item to listview?please help**

Member 9186288

26-Sep-12 15:13

How to insert tree item to listview

[Reply](#) · [View Thread](#)

### **Re: How to insert tree item to listview?please help**

Rolf Kristensen

26-Sep-12 15:47

If looking for a combination of [CTreeCtrl](#) and [CListCtrl](#), then try looking at [SuperGrid - Yet Another listview control](#) [^]

If you only need to nest items at a single level, then you can consider just to use [CGridListCtrlGroups](#), and use grouping.

[Reply](#) · [View Thread](#)

### **DateInitial in CGridColumnTraitDateTime.cpp**

maplewang

28-Aug-12 8:43

I suppose if it is blank in date control, we should write down current day.



C++



```
BOOL CGridColumnTraitDateTime::ParseDateTime(LPCTSTR lpszDate, COleDateTime& dateTime)
{
    if(dateTime.ParseDateTime(lpszDate, m_ParseDateTimeFlags, m_ParseDateTimeLCID)==FALSE)
    {
        //dateTime.SetDateTime(1970, 1, 1, 0, 0, 0);
        dateTime=COleDateTime::GetCurrentTime();
        return FALSE;
    }
    else
        return TRUE;
}
```

and in:

C++



```
CWnd* CGridColumnTraitDateTime::OnEditBegin(CGridListCtrlEx& owner, int nRow, int nCol)
{
    // Convert cell-text to date/time format
    CString cellText = owner.GetItemText(nRow, nCol);

    ...
    // Check with the original string
    CString timeText;
    pDateTimeCtrl->GetWindowText(timeText);
    if (cellText!=timeText)
    {
        //dateTime.SetDateTime(1970, 1, 1, 0, 0, 0);
        dateTime=COleDateTime::GetCurrentTime();
        pDateTimeCtrl->SetTime(dateTime);
    }

    return pDateTimeCtrl;
}
```

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Rolf Kristensen

28-Aug-12 14:10

**[Re: Datelinitial in CGridColumnTraitDateTime.cpp](#)**

Rolf Kristensen

28-Aug-12 14:10

▶ You are welcome to create your own version of the column-trait, that uses CurrentTime as default value when something is wrong.

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**[Pop up a dialog when click at a CGridColumnTraitImage or CGridColumnTraitHyperLink will cause the current row jump to the end](#)**

maplewang

27-Aug-12 15:25

▶ Hi, Kristensen:

▶ I want to make a button trait to pop up a dialog to select something, so I add a line to test on CGridColumnTraitHyperLink::OnClickEditStart , please have a look at the lines bellow:

C++



```
//OnShellExecute(owner, nRow, nCol, cellText);
MessageBox(NULL,_T("Are you Ready?"),_T("Title"),MB_OK);
return 0;
```

when click on the hyperlink cell, it will pop up a MessageBox, then I click OK to go back to the main dialog, it will make the current row move to the end of CGridListCtrlEx.

when put code in CGridColumnTraitImage, it will cause the same problem.

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Rolf Kristensen

27-Aug-12 16:14

**[Re: Pop up a dialog when click at a CGridColumnTraitImage or CGridColumnTraitHyperLink will cause the current row jump to the end](#)**

▶ Could you try to modify the CGridListCtrlEx demo-application, so it does the same, and attach it to a [new issue](#)[^] ?

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**[Re: Pop up a dialog when click at a CGridColumnTraitImage or CGridColumnTraitHyperLink will cause the current row jump to the end](#)**

maplewang

27-Aug-12 16:29

▶ please check here <http://code.google.com/p/cgridlistctrlex/issues/detail?id=28>[^]  
I am using VS2010, please check it.



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**Re: Popup a dialog when click at a CGridColumnTraitImage or CGridColumnTraitHyperLink will cause the current row jump to the end**

Rolf Kristensen

28-Aug-12 3:00

I have found the bug in the **CGridColumnTraitHyperLink**. One should not start the editor within **OnClickEditStart** (Checks if the editor is allowed to be launched). It should be done within **OnEditBegin** (Launches the actually editor).

If you put your messagebox within **OnEditBegin**, then things should work as intended.

Think I tried to do some premature optimization within **CGridColumnTraitHyperLink**, by only performing lookup of the cell text once. But I can see that it confuses more than it optimizes. Please get latest of the source.

Thank you for reporting this bug 😊

*modified 27-Aug-12 15:38pm.*

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**Re: Popup a dialog when click at a CGridColumnTraitImage or CGridColumnTraitHyperLink will cause the current row jump to the end**

maplewang

28-Aug-12 23:54

Hi,Kristensen:  
 This will introduce a new problem, it can only response to click on text, If I put an icon in the column, we can not make it response to that Icon.  
 Finally I make changes to code like this will make it, I am not sure if it is right.

```
C++  

int CGridColumnTraitHyperLink::OnClickEditStart(CGridListCtrlEx& owner, int nRow, int nCol, CPoint pt, bool bDblClick)
{
    if (m_ToggleSelection)
    {
        int startEdit = CGridColumnTraitImage::OnClickEditStart(owner, nRow, nCol, pt, bDblClick);
        if (startEdit != 0)
            return startEdit;
    }

    if (nRow!=-1 && nCol!=-1 && !bDblClick)
    {
        CString cellText = owner.GetItemText(nRow, nCol);
        if (GetTextRect(owner,nRow,nCol,cellText).PtInRect(pt))
            return 1;
        else// we clicked at the image
        {
            OnShellExecute(owner, nRow, nCol, cellText);
            return 2;
        }
    }

    return 0;
}
```

*modified 28-Aug-12 20:30pm.*

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1.00/5 (1 vote)



### Re: Popup a dialog when click at a CGridColumnTraitImage or CGridColumnTraitHyperLink will cause the current row jump to the end

Rolf Kristensen

29-Aug-12 2:27



I have now fixed `CGridColumnTraitHyperLink`, so the icon also works.



Though if you want the ShellExecute to be called, when clicking the icon, then you need to call `CGridColumnTraitHyperLink::SetIconClickBeginEdit`, when initializing the column-trait.

*modified 28-Aug-12 16:46pm.*

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1.50/5 (2 votes)

### CGridColumnTraitDateTime::OnEditBegin 's DateParse information

maplewang

6-Aug-12 14:49



// Check with the original string

```
CString timeText;
pDateTimeCtrl->GetWindowText(timeText);
if (cellText!=timeText)
{
    dateTime.SetDateTime(1970, 1, 1, 0, 0, 0);
    pDateTimeCtrl->SetTime(dateTime);
}
```

I noticed when owner.GetItemText(nRow, nCol) date string is: 12/21/1970 but pDateTimeCtrl->GetWindowText(timeText) date string is 12/21/70, at this point I set pDateTimeTrait->SetFormat(\_T("MM-dd-yy HH:mm:ss"))

finally I got it: I should set it with: pDateTimeTrait->SetFormat(\_T("MM-dd-yyyy HH:mm:ss")), DateTimePicker has a different date time format with COLEDateTime format. A COleDateTime's format should like strValue = datetime\_value.Format("%m-%d-%Y %H:%M:%S");

*modified 6-Aug-12 9:47am.*

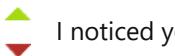
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2.00/5 (1 vote)

### CheckBox with both Text and image will cause OnEditComplete be called twice.

maplewang

4-Aug-12 20:32



I noticed you mentioned here.

<http://www.codeproject.com/Messages/4015155/Re-How-would-you-centre-a-checkbox-in-a-column.aspx>[^]



Now I have to add some text like yes/no to make it look suitable.

Since my checkbox has image and text, when I click on it, I will change Text form Yes to no or vice versa, So everytime I click on the checkbox, it will call OnEditComplete two times.

I noticed in BOOL CGridListCtrlEx::OnEndLabelEdit(NMHDR\* pNMHDR, LRESULT\* pResult) you use two seperate if to call Text or Image control, I suggest use If/else/else to go into three seperate blocks Text and Image / text only/image only.

*modified 7-Aug-12 20:49pm.*

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### Re: CheckBox with both Text and image will cause OnEditComplete be called twice.

Rolf Kristensen

15-Aug-12 3:27



I have fixed so OnEditComplete is only called once, when both Image and Text has been changed. Get latest version from [Google Code](#)[^]



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## How to make it more like Excel?

maplewang

4-Aug-12 19:08

- I mean If I include a CGridListCtrlEx in the dialog/View, and I want TAB used as a key to jump between cells and left/right/down/up key to move in the cell too.
- more important is: to make the cell in edit mode.

should I install a PreTranslateMessage function in CGridListCtrlEx and treat those WM\_KEYDOWN messages?

maybe look like this one said?

[http://www.codeproject.com/Messages/3217140/Getting-a-return-key-press-VK\\_RETURN-to-edit-a-cell.aspx](http://www.codeproject.com/Messages/3217140/Getting-a-return-key-press-VK_RETURN-to-edit-a-cell.aspx)

or

<http://www.codeproject.com/Messages/4244428/Suggestion-plus-question-CGridColumnTraitEdit-CEdi.aspx>

modified 4-Aug-12 8:31am.

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DannyRitiu

25-Jun-18 18:19

## Re: How to make it more like Excel?

- Yes, you have to install a `PreTranslateMessage` function but that alone won't be enough.
- Let's suppose you want to move the `CellEditor` by pressing the Tab or Shift+Tab buttons without closing it. The first function that gets called is `OnEndLabelEdit` and that will close the `CellEditor`. After this you'll get into the `PreTranslateMessage` but it won't know that the TAB key is coming from the `CellEditor`.

The trick is that we set a Flag when we start editing the cell. Override this function:

C++



```
BOOL CMyGridListCtrlEx::OnBeginLabelEdit(NMHDR* pNMHDR, LRESULT* pResult) {
    m_EditingOn = true;
    return CGridListCtrlEx::OnBeginLabelEdit(pNMHDR, pResult);
}
```

After this we will check in the `PreTranslateMessage` if the flag is set:

C++

Shrink ▲



```
BOOL CMyGridListCtrlEx::PreTranslateMessage(MSG* pMsg) {
    if (pMsg->message == WM_KEYDOWN && pMsg->wParam == VK_TAB) {
        if (GetKeyState(VK_SHIFT) & 0x8000) {
            int actRow = GetFocusRow();
            int actCell = GetFocusCell();
            if (actCell > GetFirstVisibleColumn()) {
                MoveFocusCell(false);
                if (m_EditingOn)
                    EditCell(GetFocusRow(), m_FocusCell);
            }
            else {
                if (actRow > 0) {
                    SetFocusRow(GetFocusRow() - 1);
                    SetFocusCell(GetColumnCount() - 1);
                    if (m_EditingOn)
                        EditCell(GetFocusRow(), m_FocusCell);
                }
                else {
                    m_EditingOn = false;
                    //We reset the flag if this is the first cell of the first row
                }
            }
        }
    }
}
```

```

    }
    else {
        int actRow = GetFocusRow();
        int actCell = GetFocusCell();
        if (actCell < GetColumnCount() - 1) {
            MoveFocusCell(true);
            if (m_EditingOn)
                EditCell(GetFocusRow(), m_FocusCell);
        }
        else {
            if (actRow < GetItemCount() - 1) {
                SetFocusRow(GetFocusRow() + 1);
                SetFocusCell(GetFirstVisibleColumn());
                if (m_EditingOn)
                    EditCell(GetFocusRow(), m_FocusCell);
            }
            else {
                m_EditingOn = false;
                //We reset the flag if this is the last cell of the last row
            }
        }
    }
    return true;
}

//we also have to reset the flag on Enter or Esc key

if (pMsg->message == WM_KEYDOWN && pMsg->wParam == VK_RETURN) {
    m_EditingOn = false;
    return true;
}

if (pMsg->message == WM_KEYDOWN && pMsg->wParam == VK_ESCAPE) {
    m_EditingOn = false;
    return true;
}
return CGridListCtrlEx::PreTranslateMessage(pMsg);
}

```

You might want to reset the flag if the user clicks near the Edit Box, so you override the **OnLButtonDown** function:

```

C++ □

void CMyGridListCtrlEx::OnLButtonDown(UINT nFlags, CPoint point) {
    int nRow, nCol;
    CellHitTest(point, nRow, nCol);

    if (IsCellEditorOpen() && nRow == GetFocusRow() && nCol == GetFocusCell())
        m_EditingOn = true;
    else
        m_EditingOn = false;
    CGridListCtrlEx::OnLButtonDown(nFlags, point);
}

```

Now it's almost done, but here comes the **most important** trick which made me lose 8 hours until I've found the problem.

The **CellEditor** is actually an instance of the type **CGridEditorText** which is defined in **CGridColumnTraidEdit.cpp** and has its own **PreTranslateMessage** handler. You have to return **FALSE** on every return branch of this function, otherwise the message will not reach your own, beautifully made **PreTranslateMessage** function. So it goes like this:

```

C++ Shrink ▲ □


```

```

BOOL CGridEditorText::PreTranslateMessage(MSG* pMsg)
{
    switch (pMsg->message)
    {
        case WM_KEYDOWN:
        {
            switch (pMsg->wParam)
            {
                case VK_RETURN:
                {
                    if (GetStyle() & ES_WANTRETURN)
                        break;

                    EndEdit(true);
                    return FALSE;
                }
                case VK_TAB: EndEdit(true); return FALSE;
                case VK_ESCAPE: EndEdit(false); return FALSE;
            }
            break;
        };
        case WM_MOUSEWHEEL: EndEdit(true); return FALSE; // Don't steal event
    }
    return CEdit::PreTranslateMessage(pMsg);
}

```

[Reply](#) · [View Thread](#)**💡 I noticed every row's cell should be called setitemtext**

maplewang

2-Aug-12 22:24

- 👉 If I only InsertItem at a row, I click or select one cell's combobox text, when move to other cell, those inputed text will be lost.  
 🤔 Is that true?

[Reply](#) · [View Thread](#)**✉️ Re: I noticed every row's cell should be called setitemtext**

Rolf Kristensen

2-Aug-12 23:20

- 👉 If you are saving into the CListCtrl datamodel, then you must use SetItemText for each cell modification.  
 🤔 Check that you are saving the correct value after the cell editing has completed. See [CGridListCtrlEx::OnEditComplete](#)

Check that you are returning the correct value afterwards (Only relevant if using LPSTR\_TEXTCALLBACK / LVS\_OWNERDATA). See [CGridListCtrlEx::OnDisplayCellItem](#)

*modified 3-Aug-12 3:52am.*

[Reply](#) · [View Thread](#)**💡 Can you provide a function that will return not hidden column numbers?**

maplewang

2-Aug-12 22:18

- 👉 Since there are hidden columns, I need to know how many column are not visible, So I used it for find the first not hidden column for data input.

[Reply](#) · [View Thread](#)**✉️ Re: Can you provide a function that will return not hidden column numbers?**

Rolf Kristensen

2-Aug-12 23:11

- 👉 You have the method [CGridListCtrlEx::GetFirstVisibleColumn](#) and [CGridListCtrlEx::IsColumnVisible](#) to help you.

[Reply](#)

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**Re: Can you provide a function that will return not hidden column numbers?**

maplewang

3-Aug-12 7:48

I think you should provide two kind of column information, One is that it is not hidden column, this will help data binding, the other is you scroll to the other side so make it invisible columns, this will help cell/trait active or inactive.

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**Re: Can you provide a function that will return not hidden column numbers?**

Rolf Kristensen

3-Aug-12 13:47

Don't I recall that I needed to know whether a column was in the visible area. Besides when implementing `CGridListCtrlEx::EnsureColumnVisible`

Feel free to implement your own logic

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**Re: Can you provide a function that will return not hidden column numbers?**

maplewang

4-Aug-12 22:03

Sorry, I suppose we should use that feature.

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**How to make the grid update data back to Database only when Row changed.**

maplewang

2-Aug-12 20:23

I noticed OnEditComplete will be traped when the CEdit has lost focus, in that case we only know current row number but did not know the new cursor position.

so I have to update data every time we changed cell, even though we only changed column.

Is there anyway to resolve it? I think we can define a bool called `m_bUpdatePending` for later use, `OnItemChanged` may get the next new row number? The best I can get both new and old row number.

*modified 2-Aug-12 8:51am.*

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**Re: How to make the grid update data back to Database only when Row changed.**

Rolf Kristensen

2-Aug-12 20:55

I guess your case is merely an extension of your previous question, which I have already replied[^] (Catch `LVN_ITEMCHANGING` or create a special edit dialog)

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**delete \*this should be called in PostNcDestroy instead of OnNcDestroy**

maplewang

2-Aug-12 11:07

As MSDN has stated:

The default implementation performs some cleanup, then calls the virtual member function `PostNcDestroy`.

Override `PostNcDestroy` if you want to perform your own cleanup, such as a delete this operation. If you override `OnNcDestroy`, you must call `OnNcDestroy` in your base class to ensure that any memory internally allocated for the window is freed.

[http://msdn.microsoft.com/fr-fr/library/2zw820e5%28v=vs.80%29.aspx\[^\]](http://msdn.microsoft.com/fr-fr/library/2zw820e5%28v=vs.80%29.aspx[^])

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---

✉ **Re: delete \*this shoud be called in PostNcDestroy instead of OnNcDestroy** Rolf Kristensen 2-Aug-12 14:41

◀ I guess the current column-trait editors should override `PostNcDestroy`, instead of `OnNcDestroy`. But there are no bugs in the current code, though it might not be the best example for how to implement your own custom column trait editor.



You are welcome to do it right in your own custom column trait editor.

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---

✉ **Re: delete \*this shoud be called in PostNcDestroy instead of OnNcDestroy** maplewang 2-Aug-12 16:49

◀ It is said in case we PreCreatewindow fail there is no OnNcDestroy message will be sent out.



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---

✉ **Re: delete \*this shoud be called in PostNcDestroy instead of OnNcDestroy** Rolf Kristensen 15-Aug-12 3:42

◀ I have now changed so the inplace editors cleanup to be performed in PostNcDestroy instead of OnNcDestroy. Get latest version from [Google Code](#)[^]



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---

✉ **Is there a good way to set row Itemdata for saving recordset bookmarks?** maplewang 1-Aug-12 22:28

◀ I am considering use row Item data to save every recordset's bookmark, but I noticed CGridListCtrlEx can set every column's Itemdata, so what is the best way to save hidden values for a row?



✉ thanks.

anyway you have provided a hidden column method, but I really do not like use it. since it will cause column position calculate problems.

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**Re: Is there a good way to set row Itemdata for saving recordset bookmarks?**

Rolf Kristensen

1-Aug-12 23:25

▶ You can use `GetItemData/SetItemData` with `CGridListCtrlEx` (Just like you can with `CListCtrl`). This is the normal way to attach a hidden id/object to an inserted row.



*modified 1-Aug-12 11:31am.*

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**Is there quick way to disable sort on all columns?**

maplewang

1-Aug-12 22:20

▶ I am considering use it with a Ado recordset, I can sort columns with sql command.

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**Re: Is there quick way to disable sort on all columns?**

Rolf Kristensen

1-Aug-12 23:30

▶ You can override `CGridListCtrlEx::SortColumn()`, and replace with your own logic for sorting data. If you return false, then it means sort failed.



*You can also look at `CGridListCtrlEx::OnHeaderClick` to see how the column header click is handled, which triggers the sorting.*

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**How to make Combo editor different width with the dropdown list**

maplewang

27-Jul-12 21:58

▶ I can not make my derived class `CGridColumnTraitMultiColumnCombo` can not set different width with the `CEdit`, Since the dropdown list has multiple columns, it should be wider than the `CEditor`.

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**Re: How to make Combo editor different width with the dropdown list**

Rolf Kristensen

27-Jul-12 22:36

▶ Usually for a `ComboBox` then you have 2 windows you need to configure. The initial window and the dropdown-window. The initial-window should fit the cell being editing, and the dropdown-window should fit the data contained. How one resize these two windows in this special `ComboBox`, that I don't know, maybe ask the author of the special `ComboBox`.

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**Re: How to make Combo editor different width with the dropdown list**

maplewang

1-Aug-12 22:29

▶ I have made a multi column combo , when everything is ok, I will make a tick on googlecode.

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**Self defined MultiColumnCombo will cause error when click the other row same column**

maplewang

27-Jul-12 21:50

▶ the first time it will not cause problem, when next time error will occur.

▶ if I comment out the delete this line everthing is ok, but memory leak.

any suggestion? maybe it is the draw problem of Multicolumn Combobox with Additional Format Conditions.

```
void CGridEditorMultiColumnComboBox::OnNcDestroy()
{
    CMCCComboBox::OnNcDestroy();
}
```

```
delete this;//error???
}
```

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### **Re: Self defined MultiColumnCombo will cause error when click the other row same column**

Rolf Kristensen

27-Jul-12 22:34

I have little experience with this special ComboBox, maybe it is not intended to be created dynamically and destroyed again. Think you are on your own here, unless the author of the special ComboBox can help you.

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### **Can we avoid CreateComboBox every time in OnEditBegin?**

maplewang

27-Jul-12 18:39

I am trying to port [MultiColumn](#) [^] as a MultiColumnCombo Trait, since it needs to set some initial values, it is inefficient to copy the value again and again.

please look here:

```
// Adding the columns
this->m.cboMultiColumn.Add_Column();
this->m.cboMultiColumn.Add_Column();
this->m.cboMultiColumn.Add_Column();

// also use the format conditions in the edit control
this->m.cboMultiColumn.Set_ShowFormatConditionInEditField( true );
```

// add the format conditions

```
// red text and black background, if in column 0 the text "Row 3" appears
CFormatCondition *pFormatCondition =
this->m.cboMultiColumn.Create_FormatCondition( _T("TestCondition1"), 0,
CFormatCondition::FCO_Equal, new CMCCell( CString(_T("Row 3")) ) );
if ( pFormatCondition != NULL )
{
    pFormatCondition->Set_Bold( true );
    pFormatCondition->Set_TextColor( RGB( 255, 0, 0 ) );
    pFormatCondition->Set_BackColor( RGB( 0, 0, 0 ) );
}
```

....

// add 30 rows of data...

```
COleDateTime dtDateTime( 2007, 2, 5, 10, 0, 0 );
for ( int nIndex = 0; nIndex < 30; nIndex++ )
{
    CMCRow *pRow = new CMCRow();
    if ( pRow )
    {
        pRow->Set_ItemData( (long)( nIndex + 1 ) );
        CString strText;
        strText.Format( _T("Row %d"), nIndex, nIndex );
        pRow->Set_CellValue( 0, strText );
        pRow->Set_CellValue( 1, dtDateTime, CMCCell::CT_Time );
        pRow->Set_CellValue( 2, nIndex );
        this->m.cboMultiColumn.Add_Row( pRow );
    }
    dtDateTime += COleDateTimeSpan( 0, 1, 0, 0 );
}
// recalc the needed width for the dropdown list
this->m.cboMultiColumn.CalcDropdownListWidth();
```

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Rolf Kristensen

27-Jul-12 22:32

You are very welcome to cache the handle to your special editor, and instead of closing the editor, then you just hide it. When starting a new edit, and have a cached handle, then it is just a matter of positioning the editor correctly for the new cell edit. You can do whatever you like in your column trait.

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## **Re: Can we avoid CreateComboBox every time in OnEditBegin?**

Rolf Kristensen

27-Jul-12 22:32

I noticed CGridColumnTraitDateTime and CGridColumnTraitCombo will only be created when OnEditBegin is called, So it is not good, I think at least When I click one row it should show the TraitCombo or TraitDateTime etc.

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## **Re: How to make those TraitCombo and TraitDateTime show one the Grid?**

Rolf Kristensen

27-Jul-12 14:57

You can override CGridColumnTraitImage::OnClickEditStart() and then provide your own condition when to start the editor. Alternatively you can implement a "global" change in your inherited version of CGridListCtrlEx:



C++



```
int CMyGridListCtrlEx::OnClickEditStart(int nRow, int nCol, CPoint pt, bool bDblClick)
{
    if (GetKeyState(VK_CONTROL) < 0)
        return 0; // Row selection should not trigger cell edit
    if (GetKeyState(VK_SHIFT) < 0)
        return 0; // Row selection should not trigger cell edit

    CGridColumnTrait* pTrait = GetCellColumnTrait(nRow, nCol);
    if (pTrait==NULL)
        return 0;

    if (pTrait->IsCellReadOnly(*this, nRow, nCol, pt))
        return 0;

    int beginEdit = pTrait->OnClickEditStart(*this, nRow, nCol, pt, bDblClick);
    if (!beginEdit && !bDblClick)
        return 1; // Force single-click editing for all columns

    return beginEdit;
}
```

I will add an option to the column-trait that allows one to configure whether the editor to start at first click. Since you are not the first to ask for [single-click-editing](#)[^].

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## **Re: How to make those TraitCombo and TraitDateTime show one the Grid?**

Rolf Kristensen

28-Jul-12 4:16

I have now added a new method to column-trait [SetSingleClickEdit](#), that makes the cell editor launch on initial cell focus. The update code is available from [Google Code](#)[^].

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## **Re: How to make those TraitCombo and TraitDateTime show one the Grid?**

maplewang

1-Aug-12 22:15

Thanks I have download it



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## Multi Checkbox and MultiColumn Combobox

maplewang

26-Jul-12 22:17

you said it can only provide one Checkbox because of CListctrl striction.  
 and I also want to ask you can it support a Multicolumn ComboBox?  
 thanks in advance.

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## Re: Multi Checkbox and MultiColumn Combobox

Rolf Kristensen

26-Jul-12 23:09

If you read the article, then it says the following about **Checkbox Support**:

If wanting to have checkboxes `for` multiple columns, then one can use `CGridColumnTraitImage` (and its specializations):

The whole idea behind CGridListCtrlEx is that each column-trait can have its own custom editor. So yes you can have multiple columns, where each of them uses a ComboBox-editor.

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## Re: Multi Checkbox and MultiColumn Combobox

maplewang

27-Jul-12 9:07

I mean if I can have a multicolumn combobox, like this one [Multicolumn Combobox with Additional Format Conditions](#)[^].

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## Re: Multi Checkbox and MultiColumn Combobox

Rolf Kristensen

27-Jul-12 14:28

The column-trait supplied with CGridListCtrlEx only supports the vanilla ComboBox.

But you can always create your own column-trait that uses a MultiColumn ComboBox as editor.

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## Re: Multi Checkbox and MultiColumn Combobox

maplewang

27-Jul-12 14:36

I am trying to make Multicolumn Combobox with Additional Format Conditions into a new `CGridColumnTraitMultiColumnCombo`, I will use `Add_Row` instead of `AddItem`. will you accept it?

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## Re: Multi Checkbox and MultiColumn Combobox

Rolf Kristensen

27-Jul-12 14:41

You can do everything you like. And if the result is good, then you can create a [Google Issue](#)[^], and attach your code for others to see.

Though I will probably not include it in the official CGridListCtrlEx library.

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## Again How to add a blank row by click the next blank row?

maplewang

25-Jul-12 21:37

As I noticed in [The Ultimate Grid Edit Functionality](#)[^]

in comments Re: Edit the cells that attach a record of the database Pin Tim Deveaux suggested use a ghost row as the new row. I hope you can consider it.

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#### [Re: Again How to add a blank row by click the next blank row?](#)

Rolf Kristensen

26-Jul-12 2:57

I think in the `CListCtrl` world then the usual approach for adding new row:  
 1. Add the new row using `CListCtrl::InsertItem()`, and maintain a "new row added"-state.  
 2. Catch the `LVN_ITEMCHANGING[^]` notification, and if in "new row added"-state and the new row is not in a valid state so the datamodel can be updated, then block the focus change (Maybe display an error in the dialog statusbar about the new row not being valid).  
 3. Listen for the Escape-key (or some other event), and if in the "new row added"-state, then call `CListCtrl::DeleteItem()`, and reset the "new row added"-state.



Alternative the much nicer approach for the user is to create a proper dialog for editing items in the `CListCtrl`, and then place a standard "New"-button next to the `CListCtrl` that opens this dialog and performs the datamodel editing. Then it is just a matter of refreshing the `CListCtrl` afterwards.

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#### [How to get celltext and header lable](#)

maplewang

25-Jul-12 20:00

CString GetItemText(  
 int nItem, //nRow  
 int nSubItem //nCol  
 ) const;  
 can I get text from header's column's Ttitle too?  
 can nItem == nRow?  
 nSubItem == nCol?  
 it seems nSubItem = nCol-1 and nItem = nRow+1  
 I notice because added a hidecolumn by InsertHiddenLabelColumn(); // Requires one never uses column 0.

*modified 25-Jul-12 9:31am.*

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#### [Re: How to get celltext and header lable](#)

Rolf Kristensen

26-Jul-12 2:48

To get the column header title, then you can use the method `CGridListCtrlEx::GetColumnHeading()`. Sadly enough there is a [bug\[^\]](#) in the method in ver. 2.1, and the fix is currently only available by getting latest version from [Google Code\[^\]](#)



*modified 25-Jul-12 15:05pm.*

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#### [when one Item of the combobox was changed,how can we updata it?](#)

chenyanming

16-Jul-12 14:58

when one Item of the combobox was changed,how can we updata it? such us ,we change the first item "denmark" to "demak" and we hope it was changed when we open the drop list in other combbox,thanks.

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#### [Re: when one Item of the combobox was changed,how can we updata it?](#)

Rolf Kristensen

17-Jul-12 3:10

I guess you can extend the existing `CGridColumnTraitCombo` together with `CGridEditorComboBox`. Override `CGridColumnTraitCombo::CreateComboBox` and give a pointer to the column-trait to the extended `CGridEditorComboBox`. Extend `CGridEditorComboBox::EndEdit` so it uses the reference to the column-trait to update the internal `CGridColumnTraitCombo::m_ComboList`.

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**Re: when one Item of the combbox was changed,how can we updata it?** chenyanming 17-Jul-12 15:41

`CGridEditorComboBox` ??????

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**Re: when one Item of the combbox was changed,how can we updata it?** Rolf Kristensen 17-Jul-12 16:07

Search the source-code and you will find.

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**thanks**

Vytas

12-Jul-12 17:38

You mention an article about Iuri Apollonio CGfxListControl. I use a lot of time, and I see one important advantage over your choices: formatting data using the 'LPSTR\_TEXTCALLBACK'. I think that the law must be taken from Apollonio article, but use your header control. And what will happen to your list, if there is a lot of data? Next, I need to any view to have my new individual class derived from CGridListCtrlEx?

Vytas

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**Re: thanks**

Rolf Kristensen

13-Jul-12 2:21

CGridListCtrlEx supports both LPSTR\_TEXTCALLBACK and LVS\_OWNERDATA.

Where CGfxListCtrl offers a callback function (`m_fpGetTextCallback`), then one can just inherit from CGridListCtrlEx and override the method `CGridListCtrlEx::OnDisplayCellText()`.

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**Re: thanks**

Vytas

13-Jul-12 15:49

I agree, all equations and beautiful. But if I have a hundred view (inherited from CFormView) that has members ...listCtrlEx, this option as your rabbit to create hundreds of different classes ...myListCtrl inherited from ...ListCtrlEx. But it is very inconvenient. Much more convenient to have hundreds of classes inherited from CFormView and their callback functions, but only one ...listCtrlEx class. Do you agree?

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**Re: thanks**

Rolf Kristensen

14-Jul-12 0:31

Then I would probably inherit from CGridListCtrlEx, and extend it so it provides an interface that is very close to CGfxListCtrl. Then it should just be a matter of replacing your current CListCtrl class with your inherited version of CGridListCtrlEx.

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**why not add a button to the control?**

wzzz12321

11-Jul-12 17:51

▲ I have search for a good look and more functional listCtrl for a long time. Your control is such a great project except not including a button. If you put an button, it would be a perfect control.  
 ↪ thanks for your listCtrl

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Rolf Kristensen

12-Jul-12 14:02

▲ A simple workaround is to add button-image to the listctrl-imagelist, and then it will be able to display a button.  
 ↪ An alternative solution is to place a standard button next to the clistctrl on the dialog. Then when clicking the standard button, then it will apply whatever operation on the selected rows in the clistctrl.

Yet another alternative could be to use CGridColumnTraitHyperLink, then instead of clicking a button, then the user will click a hyperlink.

*modified 18-Aug-12 5:34am.*

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#### ⌚ Can it support databingding with ADO?

maplewang

11-Jul-12 16:25

▲ I suggest you can use ADO coude from <http://www.codeproject.com/Articles/1075/A-set-of-ADO-classes-version-2-20> so I can read and write DB data on the Grid. have a look at Ultimate Grid.  
 ↪ The Ultimate Grid Datasources [The Ultimate Grid Datasources](#)[^]

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#### ⌚ Re: Can it support databingding with ADO?

Rolf Kristensen

13-Jul-12 2:27

▲ You are very welcome to implement a framework to support ADO for any CListCtrl. It is not the [first time](#) this request have come.  
 ↪ I prefer to keep CGridListCtrlEx as close to CListCtrl as possible.

*modified 17-Jul-12 11:19am.*

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#### ⌚ My vote of 5

maplewang

9-Jul-12 14:26

▲ Can it support databingding with ADO? I suggest you can use ADO coude from <http://www.codeproject.com/Articles/1075/A-set-of-ADO-classes-version-2-20>

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#### ⌚ Load Data when a column is grouped

jens\_weller

12-Jun-12 17:56

▲ Hello again 😊  
 ↪ Changed your example a little bit. I have added a load and a clear button. In the load button the list is filled. In the clear button the data of the list will be deleted.

So click load to fill th list Then group by any column. Then press clear. The message "There are no items to show in this view" is shown.

Then click load again. The message is cleared. But now Items in the list. So now when you sort by the column, wich are

grouped by before you clear the list, the items will be shown. But when you sort by an other column you get an "debug assertion failed"

Maybe also only an bug in Windows XP!?

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Rolf Kristensen

12-Jun-12 18:39

#### **Re: Load Data when a column is grouped**



Rolf Kristensen



12-Jun-12 18:39

Would you mind creating an issue at google code[[^](#)] and attach your modified demo application source code ?

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#### **Re: Load Data when a column is grouped**

jens\_weller

12-Jun-12 19:58

Hello. Have no Google Account and its also not possible to upload here in my company.  
But it's an small and easy change in your example.

Just add two Buttons. Add an Clear. Move the insert Code from InitDialog to the Load Button Handler and in the Clear Button Handler delete the list:

```
C++ Shrink ▲ □

void CGridListCtrlExDlg::OnBnClickedButtonLoad()
{
    // Insert data into List-control by copying from datamodel
    int nItem = 0;
    for(size_t rowId = 0; rowId < m_DataModel.GetRowIds(); ++rowId)
    {
        nItem = m_ListCtrl.InsertItem(++nItem, m_DataModel.GetCellText(rowId, 0));
        m_ListCtrl.SetItemData(nItem, rowId);
        for(int col = 0; col < m_DataModel.GetColCount(); ++col)
        {
            int nCellCol = col+1; // +1 because of hidden column
            const CString& strCellText = m_DataModel.GetCellText(rowId, col);
            m_ListCtrl.SetItemText(nItem, nCellCol, strCellText);
            if (nCellCol==3)
            {
                if (strCellText==_T(""))
                    m_ListCtrl.SetCellImage(nItem, nCellCol, 0); // unchecked
                else
                    m_ListCtrl.SetCellImage(nItem, nCellCol, 1); // checked
            }
            m_ListCtrl.SetCellImage(nItem, 1, nItem); // Assign flag-images
        }
    }

    void CGridListCtrlExDlg::OnBnClickedButtonClear()
    {
        m_ListCtrl.DeleteAllItems();
    }
}
```

Thats it. Then test it like I said.

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Rolf Kristensen

13-Jun-12 3:39

#### **Re: Load Data when a column is grouped**



Rolf Kristensen



That is the default behavior of the CListCtrl, not sure I want to change that. When grouping by a column, then you enable group view. And in group view you only see rows assigned to a group. And you only see groups which have rows assigned.

When you delete all rows, and then insert new rows without assigning them to any groups, then the view remains empty.

The quick work around in your case is the following:

```
C++ Copy
void CGridListCtrlExDlg::OnBnClickedButtonClear()
{
    m_ListCtrl.DeleteAllItems();
    m_ListCtrl.EnableGroupView(FALSE);
}
```

But in another situation, then you might want to keep the group view enabled, even if you remove all items.

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#### [ ] **Re: Load Data when a column is grouped**

jens\_weller

13-Jun-12 14:12

▲ Ok but what about the "debug assertion failed". ▼



Also:

"and then insert new rows without assigning them to any groups"

But that's not correct. When i group by country. Delete all items and add the same items again. the items belongs to the same group, so they have to be shown. You disagree?

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#### [ ] **Re: Load Data when a column is grouped**

jens\_weller

13-Jun-12 14:39

▲ And what about add items to the other. So i have grouped by country add more items which belongs to ▼ the same group. They will now also not displayed.



So when you wan't to add an item you have to remember the grouping column delete the grouping add the item and set the grouping again.

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#### [ ] **Re: Load Data when a column is grouped**

Rolf Kristensen

13-Jun-12 14:45

▲ I guess I could add a new method **InsertItemWithGroup**, where one can specify a group-id, and if none specified and in groupmode, then it will attempt to figure out whether it should use existing group or create new. ▼



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#### [ ] **Re: Load Data when a column is grouped**

jens\_weller

13-Jun-12 14:51

▲ Sounds good



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#### [ ] **Re: Load Data when a column is grouped**

Rolf Kristensen

15-Jun-12 3:41

▲ I have now added a new method called **CGridListCtrlGroups::FixRowGroupId**, which you can call ▼ when inserting new items while in group view.





You can get the latest version of CGridListCtrlGroups.h + cpp from [Google-code](#)[^].

In your example code, then you just need to add the following line in the bottom of the insertitem-loop:

C++



```
m_ListCtrl.FixRowGroupId(nItem);
```

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#### **Re: Load Data when a column is grouped**

jens\_weller

15-Jun-12 13:50

Hello. Thanks for your help.



I tested the new version. But it's not working. When I add

C++



```
m_ListCtrl.FixRowGroupId(nItem);
```

I get an debug assertion failed. When i load items, grouping, delte and load again.

And in my opinion it will be better when you don't have to call a method. I think it should be default. But just my 2 cent.

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#### **Re: Load Data when a column is grouped**

Rolf Kristensen

15-Jun-12 14:11

Was also planning to make it like this, but then I needed to monitor for LVM\_SETITEM that comes after LVM\_INSERTITEM event, and if the LVM\_SETITEM matches the currently grouped column and item matches the one specified in LVM\_INSERTITEM, then it should attempt to fix the groupid for the item.



This would require a lot of caching and guessing, and I didn't like this. Then I found it easier to let the developer to decide when the row was completely inserted, and then manually call [FixRowGroupId\(\)](#).

I will try figure out why the code is not working on WinXP. It works fine on Vista.

P.S. Remember [FixRowGroupId](#) must be placed inside the for-loop, not after

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#### **Re: Load Data when a column is grouped**

Rolf Kristensen

15-Jun-12 18:28

I have found a bug in GridListCtrlGroups::GetGroupIds(), where it would include invalid group-ids. The WinXP implementation should be like this:



C++



```
// The less optimal way, but that is only on WinXP (Doesn't support negative group ids)
for(int nRow=0 ; nRow < GetItemCount() ; ++nRow)
{
    int nGroupId = GetRowGroupId(nRow);
    if (nGroupId>=0 && groupIds.Find(nGroupId)==-1)
        groupIds.Add(nGroupId);
}
return TRUE;
```

\*\*\* Update \*\*\* The fix has now been applied to Google Code.

*modified 15-Jun-12 15:49pm.*

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---

**Re: Load Data when a column is grouped**

jens\_weller

18-Jun-12 13:57

Tested the new version. But it is not better. Get a "Debug Assertion Failed". Sorry.



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Re: Load Data when a column is grouped

Rolf Kristensen

18-Jun-12 14:14

Would it be possible for you to copy-paste the callstack, and show it here along with what line it asserts at?

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 Re: Load Data when a column is grouped

jens\_weller

18-Jun-12 16:08

Yes, for sure:

 The assert is in Line 138 of CGridListCtrlGroups

```
VERIFY(InsertGroupHeader(groupIds.GetSize(), nNewGroupId, cellText) != -1);
```

The FixRowGroupId Method is called from CGridListCtrlExDlg::OnBnClickedButtonLoad().

Is this enough or do you need the whole callstack.

*modified 18-Jun-12 4:27am.*

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 Re: Load Data when a column is grouped

Rolf Kristensen

18-Jun-12 20:12

Ok found the bug. It is because when deleting all items in CListCtrl, then it is pretty much impossible to get the current group-ids on WinXP. (GetGroupIds returns 0).

But the groups still hides in the background, and when calling InsertGroupHeader, and the groupid already exist, then it fails on WinXP.

I have implemented another hack for WinXP, where existing groups are reset, when calling FixRowGroupId and no group-ids can be found.

```
C++
...
// Existing Code inside FixRowGroupId
CSimpleArray<int> groupIds;
if (!GetGroupIds(groupIds))
{
    if (GetItemCount()<=1)
        EnableGroupView(FALSE);
    return -1;
}

// New WinXP Hack inside FixRowGroupId
if (groupIds.GetSize()==0)
{
    if (!IsGroupStateEnabled())
    {
        int groupCol = m_GroupCol;
        RemoveAllGroups();
        EnableGroupView(TRUE);
        m_GroupCol = groupCol;
    }
}
...
```

\*\*\* Update \*\*\* Fix has been applied to Google Code

*modified 18-Jun-12 15:22pm.*

[Reply](#) · [View Thread](#)**Grouping works not correct**

jens\_weller

4-Jun-12 20:25

Start your Demo. Then for example Group by Country. So no there is no more other grouping possible. You can also disable Grouping, but when you won't to group for example by European Championship its grouped already by country.



Also the sort is not possible when you have activated grouping.

Your other project: [CListCtrl and Grouping Rows](#)[<sup>^</sup>] works better

Edit: I tried to debug and get an Assert in the line 365 of CGridListGroups:

C++



```
VERIFY( InsertGroupHeader(nGroupId, nGroupId, groups.GetKeyAt(nGroupId), dwState) != -1);
```

But at the moment i don't know why

*modified 4-Jun-12 10:07am.*

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2.00/5 (1 vote)



Rolf Kristensen

5-Jun-12 3:03

**Re: Grouping works not correct**

Rolf Kristensen

5-Jun-12 3:03

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Rolf Kristensen

5-Jun-12 3:03

**Re: Grouping works not correct**

Rolf Kristensen

5-Jun-12 3:03

**Re: Grouping works not correct**

 Thank you for the bugfix. Now the grouping works. But the sorting is not the same as in your other project. The sort don't work on colums which are not the group column.

So when you group by Country it's not possible to sort by European Championship. In the CListCtrl\_Category\_Groups its automaticaly grouped by the column which you are sorting.

modified 6-Jun-12 8:29am.

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#### **Re: Grouping works not correct**

 Rolf Kristensen

6-Jun-12 20:59

  I wanted to make it possible to group by one column, and sort by another column. This is not possible with CListCtrl\_Category\_Group.

 If you want the group-by-on-sort behavior like CListCtrl\_Category\_Group, then you can override `CGridListCtrlGroups::SortColumn()`

C++

```
bool CMyGridListCtrl::SortColumn(int nCol, bool bAscending)
{
    m_GroupCol = nCol;
    return CGridListCtrlGroups::SortColumn(nCol, bAscending);
}
```

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#### **Re: Grouping works not correct**

 jens\_weller

6-Jun-12 21:08

  I wanted to make it possible to group by one column, and sort by another column  
Yes thats also ok. But it don't work. Maybe its also only a problem in Windows XP.

 So when I start your demo:  
Group by Country then it's not possible to sort by European Championship. When I Click on the header of European Championship nothing happens. Only the arrow changes.

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#### **Re: Grouping works not correct**

 Rolf Kristensen

6-Jun-12 23:52

  It works fine on Vista/Win7 but I have just tested on WinXP and there it fails just like you said.

 I'm playing with implementing a workaround for WinXP which allows sorting on secondary columns without changing the grouping on the primary column. But until I have made the "hack" a little less rough on the edges, then I guess you just have to perform grouping on sort.

Thank you for telling about this. Not using WinXP myself anymore, so I do very little testing on that version of Windows.

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#### **Re: Grouping works not correct**

 Rolf Kristensen

7-Jun-12 4:01

  Have now updated the source-code at [Google Code](#)[^].

- Have fixed the bug with grouping not working on WinXP
- Have added new method `CGridListCtrlGroups::SetSortSecondaryGroupView` that controls how sort

behaves when in group view. By default it attempts to support sorting of the secondary column when grouped by the primary column. This required a nasty hack for WinXP.

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### [Re: Grouping works not correct](#)

jens\_weller

11-Jun-12 16:25

Hello again.



Now i tested the newest version. However the problem is still the same, and even worse. So when i don't group on any column the sort works fine. When i group for one column, and sort for another nothing happens. And when I sort the grouped column I get a "Debug assertion failed". Again at the Line:

C++



```
VERIFY( InsertGroupHeader(nGroupId, nGroupId, groups.GetKeyAt(nGroupId), dwState) != -1);
```

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### [Re: Grouping works not correct](#)

jens\_weller

11-Jun-12 19:54

Oh I see. I downloaded from <http://code.google.com/p/cgridlistctrlex/downloads/list> But that's the same version then the first one with my reported bug.



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### [Re: Grouping works not correct](#)

Rolf Kristensen

11-Jun-12 23:35

You have to use a SubVersion client to download the latest code, or download this subset of files manually one by one (Right-click save target as...):



[CGridColumnTraitCombo.cpp](#)[^]  
[CGridColumnTraitCombo.h](#)[^]  
[CGridColumnTraitDateTime.cpp](#)[^]  
[CGridColumnTraitDateTime.h](#)[^]  
[CGridColumnTraitEdit.cpp](#)[^]  
[CGridColumnTraitEdit.h](#)[^]  
[CGridColumnTraitImage.cpp](#)[^]  
[CGridColumnTraitImage.h](#)[^]  
[CGridColumnTraitText.cpp](#)[^]  
[CGridColumnTraitText.h](#)[^]  
[CGridRowTraitText.cpp](#)[^]  
[CGridListCtrlGroups.h](#)[^]  
[CGridListCtrlGroups.cpp](#)[^]  
[CGridListCtrlEx.h](#)[^]  
[CGridListCtrlEx.cpp](#)[^]

If the bug-fix works for you, then I will release a version 2.1 in the near future to fix the group-support for WinXP.

*modified 11-Jun-12 12:03pm.*

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### [Re: Grouping works not correct](#)

jens\_weller

12-Jun-12 14:20

▲ Hello. Ok thanks.  
▼

So now i downloaded all files one by one. Overwrite the files in the demo app and compiled the version again. But nothing change. I can sort until any column is grouped. Then its only possible to sort the grouped column. When i try to sort any other column nothing happens. Just the arrow change.

*modified 12-Jun-12 2:28am.*

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□ **Re: Grouping works not correct**

Rolf Kristensen

12-Jun-12 14:26

▲ What happens if you call `m_ListCtrl.SetSortSecondaryGroupView(0)` as part of initialization  
▼ of the `m_ListCtrl` ?

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□ **Re: Grouping works not correct**

jens\_weller

12-Jun-12 14:34

▲ Ok. Then its possible to sort the other columns, too. But then it's not possible to group by one  
▼ column, and sort by another column. The sort column alway is the grouped column.

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□ **Re: Grouping works not correct**

Rolf Kristensen

12-Jun-12 14:40

▲ Ok so reverting to the old behavior works. I will perform some more testing on WinXP later  
▼ today, when I have access to this version of Windows.

Thank you for your patience.

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□ **Re: Grouping works not correct**

Rolf Kristensen

12-Jun-12 16:04

▲ Remember that the secondary sort doesn't change the order of the groups. It only changes the  
▼ order of items within a group. Make sure to have more than one item in a group or else you will  
not see any change when sorting.

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□ **Re: Grouping works not correct**

jens\_weller

12-Jun-12 17:45

▲ Oh. Sorry you are right. That was my mistake. Now it works 😊  
▼ Thank you very much for your commitment.

However i found an other bug. I think its better to start a new discussion.

*modified 12-Jun-12 6:19am.*

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🔍 **Search**

jens\_weller

4-Jun-12 15:43

▲ Is it possible to search in the second and third column.  
▼ FindItem of CListCtrl only search in the first column!

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Rolf Kristensen

5-Jun-12 3:30

- There has only been implemented keyboard-search for the `CGridListCtrlEx`.`FindItem` has not been extended to include searching of subitems. Would also require some way to specify on `LVFINDINFO` what subitem(s) it should include in the searching.

*modified 4-Jun-12 15:53pm.*[Reply](#) · [View Thread](#) **Re: Search**

Member 8835355

17-May-12 5:49

- First of all "thank you" for the control - very useful.  
 I have one issue and one question.



1. I'm using the control in a form a la `CListView`. When I try to use check box or any image in a cell with `SetCellImage` nothing is drawn: there is white square where image should be drawn, cell behaves as check box, but no image. What am I missing?

2. My client wants a push button in a separate column. Could you point me in the right direction to make it happen?

Thank you.

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Rolf Kristensen

17-May-12 17:07

1. Remember to call `CListCtrl::SetImageList()`, see the source code for the demo application for how it is done.
2. I guess you can add two button images (Normal-state, Pushed-state) to the `ImageList` and when clicked then you change from Normal-state to Pushed-state. Alternative you have to create your own custom column trait that draws a button. Yet another alternative is to place a standard button next to the `CListCtrl`, and when pushed then proper action is applied to the selected rows in the `CListCtrl`.

Instead of drawing a button, then you could consider to use `CGridColumnTraitHyperLink`, so the user clicks a hyperlink instead of a button.

*modified 19-Oct-12 7:56am.*[Reply](#) · [View Thread](#) **Re: image not drawn, push button**

Member 8835355

19-May-12 0:56

1. It's not clear from my original post, but I did follow the code from the demo including calling `SetImageList` to no avail.
- 
2. Creating two images doesn't work for me, see above.  
I decided to create a new column trait a la `CGridColumnTraitEdit`. I mimiced the code substituting `CEdit` for `CButton`. It works, sort of: a button appears in the column only when I go into edit mode (click -> click) and disappears as soon as I leave the cell.  
How to make it stay put?  
BTW, a button next to `CListCtrl` is no go per client.

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[Re: image not drawn, push button](#)

Member 8835355

19-May-12 2:13

Update:

made a button stay by removing ShowWindow(SW\_HIDE) and PostMessage(WM\_CLOSE) from EndEdit.

But I still have to enter edit mode by click -> click.

Remaining issue is: how to force edit mode from within my program.

Just calling listCtrl.EditCell(row, col) doesn't work for some reason.

[Reply](#) · [View Thread](#)

[Re: image not drawn, push button](#)

Rolf Kristensen

19-May-12 17:56

Think you are driving in the wrong direction. You also need to consider scrolling, and that a column trait only support a single control at a time.



You need to change the drawing logic to draw a button. Ex. like drawing a progressbar:  
`CGridColumnTraitProgress[^]`

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[Re: image not drawn, push button](#)

Member 8835355

22-May-12 0:26

CGridColumnTraitProgress also has redrawing problem: when you move its column a bar isn't moved until you force entire control to redraw, e.g., resize.



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[Re: image not drawn, push button](#)

Rolf Kristensen

22-May-12 4:13

I haven't tested the code, as it has been submitted by someone else. I was just trying to guide you in the right direction if you wanted a "real" button and didn't want to use subitem-images.



When implementing your own drawing logic, then you need to test it on all version of Windows both in classic and default-mode, and with large and normal font. This very tedious, so that is why I try to avoid implementing my own drawing logic.

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[How can I delete all the items from comobox?](#)

seu\_dcmilan

10-May-12 14:02

when I add item, it works well.

m\_pTrait->AddItem()

but when I want to remove all the items in the combobox,

I can not get the member function.

Someone help me.....

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[Re: How can I delete all the items from comobox?](#)

Rolf Kristensen

11-May-12 5:37

I have added a `ClearFixedItems()` method to `CGridColumnTraitCombo` at [Google Code](#)[^].

If you want to dynamically control ComboBox items, then you might want to look at this [example](#)[^].

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### Re: How can I delete all the items from comobox?

seu\_dcmilan

14-May-12 7:08

Thank you, but your idea does not match, so I don't know how to rate. 😊



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### Suggestion + question: CGridColumnTraitEdit & CEdit in multiline mode

alpharedline

8-May-12 18:36

Hello,

I have been trying to use `ES_MULTILINE` and `ES_WANTRETURN` but when pressing the key return, instead of having a new line (which shall be the `CEdit` behaviour) the edition of the cell is over.

I have modified the code of `CColumnTraitEdit` as follows:

```
C++ Shrink ▲ □
BOOL CGridEditorText::PreTranslateMessage(MSG* pMsg)
{
    DWORD style = GetStyle(); // NEW LINE

    switch(pMsg->message)
    {
        case WM_KEYDOWN:
        {
            switch(pMsg->wParam)
            {
                case VK_RETURN:
                    if(style & ES_WANTRETURN) // NEW LINE
                    {
                        // NEW LINE
                        return FALSE; // NEW LINE
                    }
                    else
                    {
                        // NEW LINE
                        EndEdit(true);
                        return TRUE;
                    }
                    // NEW LINE
                case VK_TAB: EndEdit(true); return FALSE;
                case VK_ESCAPE: EndEdit(false);return TRUE;
            }
            break;
        };
        case WM_MOUSEWHEEL: EndEdit(true); return FALSE; // Don't steal event
    }
    return CEdit::PreTranslateMessage(pMsg);
}
```

And now the `CEdit` behaviour works fine, but I still have a couple of problems:

1. When Editing is over, the list shows the cell without the new lines:

ex: when typing on a cell

"A  
B  
C"

it becomes: ABC when the cell loses the focus. How can I fix this?

2. Is there a way that the height of the cell could be adapted to the height of the text?

Could you help me?

Many thanks

PS: Thanks for your work on the CGridListCtrlEx it's great! 😊

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### Re: Suggestion + question: CGridColumnTraitEdit & CEdit in multiline mode

Rolf Kristensen

8-May-12 18:54

I can look into supporting multiline editing for the CColumnTraitEdit, but I'm pretty sure you have to go ownerdrawn if you want multiline cells in the CListCtrl (Ex. [Multi-line List Control](#)[^])

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### Re: Suggestion + question: CGridColumnTraitEdit & CEdit in multiline mode

Rolf Kristensen

9-May-12 5:20

I have created new [CGridColumnTraitMultilineEdit](#) at [Google Code](#)[^] with better support for multiline editing:

[C++](#)  

```
CGridColumnTraitMultilineEdit* pEditTrait = new CGridColumnTraitMultilineEdit;
pEditTrait->SetMaxLines(4);
```



I have also updated the [CGridListCtrlEx](#) to support multiline tooltips out of the box.

Maybe a workaround for not being able to display newlines in the standard CListCtrl, is to use [LPSTR\\_TEXTCALLBACK](#) and override [CGridListCtrlEx::OnDisplayCellText\(\)](#) to format the text. So if text contains newline then only display first line and add indication that there are more lines. Ex "First Line (^)" where the appended "(" indicates more lines, which can be seen with tooltip.

Another workaround is to create a column for each newline. And then make a hard limit of how many "newlines" one can make.

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### My vote of 5

magicpapacy

8-May-12 11:19

Good Work

[Reply](#) · [View Thread](#)



### [Tips] One click to edit on List control

Sun-Mi Kang

19-Apr-12 9:02

Hi?? I want to show my tips when editting list control.

This function, just one click , U can edit list control.  
It is easy way , just add one function.

[Shrink](#) ▲

[CGridListCtrlEx.h](#)

```
virtual BOOL OnChildNotify(UINT message, WPARAM wParam, LPARAM lParam, LRESULT* pResult);
```

**CGridListCtrlEx.cpp**

```
BOOL CGridListCtrlEx::OnChildNotify(UINT message, WPARAM wParam, LPARAM lParam, LRESULT* pResult)
{
    if(message==WM_PARENTNOTIFY)
        return 1;
    NMHDR *pNMHDR = (NMHDR*)lParam;
    NM_LISTVIEW* pNMLListView = (NM_LISTVIEW*)pNMHDR;

    switch(pNMHDR->code)
    {
        case NM_CLICK:
        //TRACE( "double click\n");
        if ( pNMLListView->iSubItem == 5 ) /*U can change col number*/
            EditCell(pNMLListView->iItem, pNMLListView->iSubItem);
        break;
    }
}
```

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Rolf Kristensen

4-May-12 22:36

**Re: [Tips] One click to edit on List control**

You can override CGridListCtrlEx::OnClickEditStart() to control whether editing should be started when clicking a cell.

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Sun-Mi Kang

5-May-12 22:00

**Re: [Tips] One click to edit on List control**

I know,, but i want to use simple way,

I think your code is hard to use..

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Rolf Kristensen

28-Jul-12 4:17

**Re: [Tips] One click to edit on List control**

I have now added a new method to column-trait **SetSingleClickEdit**, that makes the cell editor launch on initial cell focus. The update code is available from [Google Code](#)[^].

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Sun-Mi Kang

31-Jul-12 15:38

**Re: [Tips] One click to edit on List control**

Ok,, Later apply your list control,, Thanks your msg

[Reply](#) · [View Thread](#)



**No work,, double click to change data again!**

Sun-Mi Kang

18-Apr-12 15:17

Hi,, i used LvnEndLabelEdit..  
 When I type data on cell, it is work  
 But, when I double click to modify on data, no work..

What's wrong with my code? or give some advices~

what;s your e-mail?? I want to attach my file if u r OK..

C++

Shrink ▲ □

```

void CWrite_Data::OnLvnEndlabeleditWriteList(NMHDR *pNMHDR, LRESULT *pResult)
{
    LV_DISPINFO* pDispInfo = reinterpret_cast<LV_DISPINFO*>(pNMHDR);

    *pResult = FALSE;
    int Col = pDispInfo->item.iSubItem;
    int Row = pDispInfo->item.iItem;

    CString strMsg;
    int Check_Data;
    double Chk_Data;

    if((pDispInfo->item.mask & LVIF_TEXT)&& (pDispInfo->item.pszText != NULL)&& (Row != -1) && (Col != -1))
    {
        // Label edit completed by user

        if(Col == 5)
        {

            if (Write_ListCtrl.OnEditComplete(Row, Col, m_Editor, pDispInfo))
            {
                *pResult = TRUE;      // Accept edit

                switch(Row)
                {
                    case 0:
                        //strMsg = Write_ListCtrl.GetItemText(Row, Col);
                        //Check_Data = atoi(strMsg);

                    if (!Write_ListCtrl.IsCellCallback(Row, Col))

                        Write_ListCtrl.SetItemText(Row, Col, pDispInfo->item.pszText);
                        Check_Data =atoi( (LPCSTR)pDispInfo->item.pszText);

                    if(Check_Data > 14)
                    {
                        strMsg.Format(Caution_Write_52000);
                        MessageBox(strMsg, "Caution", MB_ICONSTOP );
                        Write_ListCtrl.SetItemText(Row, Col, _T(" "));
                        /*m_Grid3.SetFocusCell(cell);*/

                    }
                    break;
                case 1:

                    if (!Write_ListCtrl.IsCellCallback(Row, Col))

                        Write_ListCtrl.SetItemText(Row, Col, pDispInfo->item.pszText);
                        Chk_Data =atof( (LPCSTR)pDispInfo->item.pszText);

                    if(( 10.0 > Chk_Data ) || (Chk_Data > 1000))
                    {
                        strMsg.Format(Caution_Write_52001);
                        MessageBox(strMsg, "Caution", MB_ICONSTOP );

                        Write_ListCtrl.SetItemText(Row, Col, _T(" "));
                        //m_Grid3.SetFocusCell(cell);
                    }
                    else
                    {
                        strMsg.Format(_T("%4.1f"), Chk_Data);
                        Write_ListCtrl.SetItemText(Row, Col, pDispInfo->item.pszText);
                    }
                }
            }
        }
    }
}

```

```

    }

    break;

    case 2:

        if (!Write_ListCtrl.IsCellCallback(Row, Col))

            Write_ListCtrl.SetItemText(Row, Col, pDispInfo->item.pszText);
            Chk_Data = atoi( (LPCSTR)pDispInfo->item.pszText);

        if(( 2500 > Chk_Data ) || (Chk_Data > 4500))
        {

            strMsg.Format(Caution_Write_52002);
            MessageBox(strMsg,"Caution",MB_ICONSTOP );

            Write_ListCtrl.SetItemText(Row,Col, _T(" "));
            //m_Grid3.SetFocusCell(cell);

        }

        else
        {
            strMsg.Format(_T("%d"), Chk_Data);
            Write_ListCtrl.SetItemText(Row,Col,pDispInfo->item.pszText);
        }

        break;

    case 3:

        if (!Write_ListCtrl.IsCellCallback(Row, Col))

            Write_ListCtrl.SetItemText(Row, Col, pDispInfo->item.pszText);
            Chk_Data = atoi( (LPCSTR)pDispInfo->item.pszText);

        if(( 2500 > Chk_Data ) || (Chk_Data > 4500))
        {

            strMsg.Format(Caution_Write_52003);
            MessageBox(strMsg,"Caution",MB_ICONSTOP );

            Write_ListCtrl.SetItemText(Row,Col, _T(" "));
            //m_Grid3.SetFocusCell(cell);

        }

        else
        {
            strMsg.Format(_T("%d"), Chk_Data);
            Write_ListCtrl.SetItemText(Row,Col,pDispInfo->item.pszText);
        }

        break;

    }

    m_Editor = NULL;
    if( Write_ListCtrl.GetFocus() != this )
        Write_ListCtrl.SetFocus();

}

}

```

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**[check] Re: No work,, double click to change data again!**

Rolf Kristensen

18-Apr-12 22:09

My advice is to make your code work with a standard CListCtrl (First column can be editable), and when that works the put in CGridListCtrlEx which allows all columns to be editable.

Reply · View Thread

1.00/5 (1 vote)

**[info] Hi! How can block to double click when i edit item on List?**

Sun-Mi Kang

17-Apr-12 20:28

I dont want to double click on when i start editting on item .  
Give me some Tips or advices.

Reply · View Thread

**[check] Re: Hi! How can block to double click when i edit item on List?**

Rolf Kristensen

17-Apr-12 21:26

You need to figure out what event (Ex. mouse click) should trigger an item edit, and then call `EditCell()`

Ex. Item Edit on RETURN-key[^]

\*Update\* If you want to make everything readonly, and block for the ability to edit cells, then you can set the readonly property of column traits. If you just want to prevent mouse clicks from starting cell editing then you can override `CGridListCtrlEx::OnEditStart()`

modified 17-Apr-12 16:32pm.

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**[check] Re: Hi! How can block to double click when i edit item on List?**

Rolf Kristensen

28-Jul-12 4:18

I have now added a new method to column-trait `SetSingleClickEdit`, that makes the cell editor launch on initial cell focus. The update code is available from [Google Code](#)[^].

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**[info] Is it possible put "short int " type on List Control?**

Sun-Mi Kang

16-Apr-12 15:00

Hi?? I m making table using your library..  
When push default button,, I want to write down integer type data..  
But when i search it, i found SetItemText()./. How can put on data (integer type)/?

C++

```
void CWrite_Data::OnButtonDefault()
{
//I make 26 data and put on column 4 these data/.
unsigned short Write_data[26];
Write_Data[0] = 4;
Write_Data[1] = 483;
//-----mV-----//
Write_Data[2] = 4120;
Write_Data[3] = 3300;
Write_Data[4] = 2750;
//-----mV-----//
Write_Data[5] = 100;
```

```

//-----mV-----//
Write_Data[6] = 3500;
Write_Data[7] = 100;
Write_Data[8] = 40;
Write_Data[9] = 20;
//-----mV-----//
Write_Data[10] = 4100;
Write_Data[11] = 4200;
Write_Data[12] = 3300;
Write_Data[13] = 3000;
Write_Data[14] = 40;
Write_Data[15] = 45;
Write_Data[16] = 0;
Write_Data[17] = -5;
Write_Data[18] = 50;
Write_Data[19] = 100;

Write_Data[20] = 150;
Write_Data[21] = 200;
//-----CAN Addr-----//
Write_Data[22] = 0xCB59;
Write_Data[23] = 0x19F0;
Write_Data[24] = 0xCC59;
Write_Data[25] = 0x19F0;

```

Write\_ListCtrl.//// Is it possible to put on int type number?  
or Should i use type CString type??

}

[Reply](#) · [View Thread](#)



Rolf Kristensen

16-Apr-12 17:29

### **Re: Is it possible put "short int " type on List Control?**

The CListCtrl will only accept item text, so you need to convert your integer data to text-strings. Find your favorite method for converting integers to strings. Ex.



C++



```

int cellValue = 5;
CString cellValueStr;
cellValueStr.Format(_T("%d"), cellvalue);

```

[Reply](#) · [View Thread](#)

4.00/5 (1 vote)

### **How can coloring on column, and text?**

Sun-Mi Kang

16-Apr-12 12:40

Hi.. How can make coloring on column??  
 Should i have to use onCustomDraw??  
 explain to me~!

[Reply](#) · [View Thread](#)



**Re: How can coloring on column, and text?**

Rolf Kristensen

16-Apr-12 14:01

Search and you shall [find](#)[^]

Reply · View Thread

3.00/5 (1 vote)

**Virtual list data**

MartinNohrRimage

27-Mar-12 8:41

I would like to use this with the LVN\_GETDISPINFO call back and the 2nd column with a checkbox. I haven't been able to get it to work yet. Any hints on what I should use for a column that has a checkbox in it?

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**Re: Virtual list data**

Rolf Kristensen

27-Mar-12 13:53

Since "[CGridColumnTraitImage](#) uses the cell image to draw the checkbox", then I guess you will have to override [CGridListCtrlEx::OnDisplayCellImage\(\)](#) and provide the image-index that was returned when calling [CGridColumnTraitImage::AppendStateImages\(\)](#)

Reply · View Thread

**Spelling Sweeden**

MartinNohrRimage

27-Mar-12 6:59

Very nice control, but I've never seen Sweden spelled Sweeden. Is that new? I've seen sverige, since I was born in Denmark.

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**Re: Spelling Sweeden**

Rolf Kristensen

27-Mar-12 13:43

Thank you telling, have now fixed the spelling error. Guess it is time to release ver. 2.0 of the control.

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**CGridColumnTraitDateTime in Xp or 2003**

alfwolf\_ss

22-Mar-12 11:52

Hi Rolf, thanks for your great code.  
 When I using CGridColumnTraitDateTime in vista, it works fine, but now I moved it on Xp or 2003, after I selected a date and datetime picker popup closed, the datetime control can not be closed whenever I click any other place in listctrl, except I sett focus on this datetime control and then click other place.  
 Could you give me a hand about this issue?  
 Thank you.

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**Re: CGridColumnTraitDateTime in Xp or 2003**

Rolf Kristensen

22-Mar-12 14:51

Are you using the latest version from [Google Code](#)[^] ?

Reply · View Thread

**Re: CGridColumnTraitDateTime in Xp or 2003**

alfwolf\_ss

22-Mar-12 15:12

yes, I'm using the latest version from google code, and I also tested in a simple testing project on 2003, there's no problem, but it can not work in my project. It's really strange, after new date selected, EndEdit() not be called.

Currently, my fixing like this:

Start a timer when focus lost(OnKillFocus);

In timer handler function, check GetMonthCalCtrl()'s return value, if NULL, call EndEdit.  
I know it's not a perfect solution, after calendar closed, date control also be closed.

modified 22-Mar-12 3:59am.

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#### Re: CGridColumnTraitDateTime in Xp or 2003

Rolf Kristensen

22-Mar-12 19:46

- ▲ So when receiving kill focus, then GetMonthCalCtrl() still returns a value, even though it is also closed ?
- ▼ Maybe it is bug introduced with the DTS\_APPCANPARSE flag

Since I don't have a WinXP machine to perform test, could you change this method:

C++

```
void CGridEditorDateTimeCtrl::OnKillFocus(CWnd *pNewWnd)
{
    CDateTimeCtrl::OnKillFocus(pNewWnd);
    if (GetMonthCalCtrl() == NULL)
    {
        // Special case when a dynamic CEdit is created (DTS_APPCANPARSE)
        if (pNewWnd == NULL || pNewWnd->GetParent() != this)
            EndEdit(true);
    }
}
```



Into this method, and set `m_DateTimeCtrlStyle(0)` in the constructor and see if it works:

C++

```
void CGridEditorDateTimeCtrl::OnKillFocus(CWnd *pNewWnd)
{
    CDateTimeCtrl::OnKillFocus(pNewWnd);
    if (GetMonthCalCtrl() == NULL)
        EndEdit(true);
}
```



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#### Re: CGridColumnTraitDateTime in Xp or 2003

alfwolf\_ss

22-Mar-12 22:55

- ▲ Thanks for your suggestion, yes, when receiving kill focus, GetMonthCalCtrl() still return a 'non-NULL' value.
- ▼ I compared with vista and found that after month calendar closed, datetime control still get focus and year text be selected in vista. But in my env, after calendar closed, datetime control lost focus, and when OnKillFocus been called, GetMonthCalCtrl() still return a value, so EndEdit does not been called.
- ☺ I tried your code, but it still not work.
- AND the point is: it can work in my another simple testing program on 2003, but can not work in my project with the same code.

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#### Re: CGridColumnTraitDateTime in Xp or 2003

Rolf Kristensen

23-Mar-12 3:10

- ▲ Could you try this one instead:

☺

C++

```
void CGridEditorDateTimeCtrl::OnKillFocus(CWnd *pNewWnd)
{
    CDateTimeCtrl::OnKillFocus(pNewWnd);
    CWnd* pMonthCalCtrl = GetMonthCalCtrl();
```



```

    if (pMonthCalCtrl==NULL || !::IsWindow(pMonthCalCtrl->m_hWnd) || !pMonthCalCtrl-
>IsWindowVisible())
{
    // Special case when a dynamic CEdit is created (DTS_APPCANPARSE)
    if (pNewWnd == NULL || !::IsWindow(pNewWnd->m_hWnd) || pNewWnd->GetParent()!=this)
        EndEdit(true);
}
}

```

[Reply](#) · [View Thread](#)[Re: CGridColumnTraitDateTime in Xp or 2003](#)

alfwolf\_ss

23-Mar-12 8:08

Hi Rolf, thanks for your following up.  
I set a breakpoint in OnKillFocus, and I found when I click a date cell in month calender, the datetime control will lost focus and OnkillFocus will be called, and at this time, the month calender window is still valid and visible, Endedit will not be called, it's correct.  
As you know, after date be selected, month calender will also be closed, but in my env, the datetime control does not get focus again, so OnKillFocus will not be triggered again, and of course, EndEdit in it will not be called and the datetime control will always be there.  
I think your code should have no problem, I will also investigate my project to find out the reason of this issue.  
Thank you.

[Reply](#) · [View Thread](#)[Re: CGridColumnTraitDateTime in Xp or 2003](#)

Rolf Kristensen

23-Mar-12 15:02

So some other control "steals" the focus when the month-control closes. So the datetime-control doesn't get focus again. I guess I could listen for DTN\_CLOSEUP, and ensure that the datetime-control is closed properly, even if something else is stealing focus.

[Reply](#) · [View Thread](#)[Re: CGridColumnTraitDateTime in Xp or 2003](#)

alfwolf\_ss

23-Mar-12 17:36

Yes, I think that would work.  
Thank you.

[Reply](#) · [View Thread](#)[Re: CGridColumnTraitDateTime in Xp or 2003](#)

Rolf Kristensen

24-Mar-12 5:11

I have updated [Google Code](#)[^] with a DTN\_CLOSEUP notification handler. Please check if the new version solves your issue.

[Reply](#) · [View Thread](#)[Re: CGridColumnTraitDateTime in Xp or 2003](#)

alfwolf\_ss

24-Mar-12 15:34

Hi Rolf, great, it can work now.  
Thank you very much.

[Reply](#) · [View Thread](#)[Cell color & co](#)

jo le serb

19-Mar-12 23:05

Hi,

✉ Can I have an example on how to use "OnDisplayCellColor()" ?

EDIT:

found answer there: [http://www.codeproject.com/Messages/3533895/Change-row-and-cell-colors.aspx\[^\]](http://www.codeproject.com/Messages/3533895/Change-row-and-cell-colors.aspx[^])

EDIT2:

When I set a breakpoint on "OnDisplayCellColor", is not triggered , any idea ?  
(compiling your own sample, the breakpoint is triggered)

*modified 19-Mar-12 13:12pm.*

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✉ Rolf Kristensen

20-Mar-12 2:40

✉ Re: Cell color & co

▶ Please create an issue at [Google Code\[^\]](#), and attach an example project that displays the problem, then I will look at it. ▲

✉ Reply · View Thread



✉ ON\_COMMAND event handler problem

✉ S.Anastasiou

21-Feb-12 22:54

▶ Hi,

✉ it seems impossible to add a ON\_COMMAND event handler to any child of CGridListCtrlEx class. I can add the handler to literally any other class in my project except subclasses of this class. How can this be? I can add an ON\_COMMAND handle to the CGridListCtrlEx itself and it works but it will refuse to work in direct or indirect subclasses. Any idea on what could the problem be?

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✉ Re: ON\_COMMAND event handler problem

✉ Rolf Kristensen

27-Feb-12 3:53

▶ Please create an issue at [Google Code\[^\]](#), and attach an example project that displays the problem, then I will look at it. ▲

✉ Reply · View Thread



✉ Obj : error LNK2019

✉ cyfage

20-Feb-12 15:54

▶ 1. I build a clean dialog project and put the CGridListCtrlEx directory right there.  
2. In stdafx.h file I wrote:

✉

```
#include "...\\CGridListCtrlEx\\CGridListCtrlGroups.h"
```



3. In testDlg.h file I wrote:

```
CGridListCtrlGroups m_ListCtrl;
```



Just did these things.

But when I build the project, it shows me the error:

错误 1 error LNK2019: 无法解析的外部符号 "public: \_\_thiscall CGridListCtrlEx::CGridListCtrlEx(void)" (??0CGridListCtrlEx@@QAE@XZ), 该符号在函数 "protected: virtual int \_\_thiscall CtestDlg::OnInitDialog(void)" (?OnInitDialog@CtestDlg@@MAEHXZ) 中被引用 testDlg.obj

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1.00/5 (1 vote)  

### **Re: Obj : error LNK2019**

 Rolf Kristensen

27-Feb-12 3:54

 Please create an issue at [Google Code](#)[^], and attach an example project that displays the problem, then I will look at it.   

 [Reply](#) · [View Thread](#)

### **Delete key not recognized when editing a cell.**

 S.Anastasiou

14-Feb-12 22:32

 Hi,

 I believe I have found a bug in the current demo implementation, I am not sure if this has been already addressed in the latest google code. Will update after checking.

To reproduce the error, create a row with an editable textbox. And write a value. Then double click and edit the value by pressing only the delete button and then press enter.

The OnEditComplete function is never called and the value of the cell returns to its previous value before the edit. It works with all other keys, even with backspace, so somehow the Delete button is not being taken into account.

#### **Update:**

Using the latest google code I cannot reproduce the error. So it works like a charm now. Good work!

*modified 14-Feb-12 11:30am.*

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### **Avoid deselecting a row when clicking on empty row**

 S.Anastasiou

11-Feb-12 1:20

 Hello,

 I am trying to ignore all mouse clicks from the user when he clicks in a row with no data on it (empty row). The purpose is to prohibit the user from entirely deselecting all rows. So in my class I've overridden these functions :

```
C#
//! Occurs when user clicks Left mouse button
void OnLButtonDown(UINT nFlags, CPoint point);

//! Occurs when user clicks right mouse button
void OnRButtonDown(UINT nFlags, CPoint point);

//! Occurs when user double clicks the left mouse button
void OnLButtonDblClk(UINT nFlags, CPoint point);
```

And I return immediately when row == -1;

Otherwise I let the normal event handlers to execute. This works just fine except from the double right click button. I know it doesn't make sense to double click the right click button but it is also a case. Trying the same technique as above

I tried to override :

```
OnRButtonDb1Clk(UINT nFlags, CPoint point);
```

But that doesn't work. CGridListCtrlEx doesn't have this function into the

```
//{{AFX_MSG(CGridListCtrlEx)
```

section. Even after adding it there and overriding it, the double right click mouse button event still deselects the selected rows from the list. Any suggestions?

#### **Update:**

Even if I directly add a handler to the **NMRDblclk** to the ListCtrl via visual studio and return immediately, the row stills get deselected. So a different event handler is being executed prior to this one. I am running out of options, any ideas would be most welcome.

#### **Update 2:**

Managed to solve my problem like this :

```
C++  
virtual BOOL PreTranslateMessage(MSG* pMsg)  
{  
    if(pMsg->message == WM_RBUTTONDOWNDBLCLK) return TRUE; //ignore double right click button  
    return __super::PreTranslateMessage(pMsg);  
}
```

Surely there must be a cleaner alternative?

Regards

Stefanos

[Reply](#) · [View Thread](#)




---

#### **[check] Re: Avoid deselecting a row when clicking on empty row**

Rolf Kristensen

20-Jun-12 6:04

If you want to prevent items from changing state (Like selection), then you could try to catch the LVN\_ITEMCHANGING notification and just return TRUE to prevent the change, when necessary.

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---

#### **[info] CellHitTest() needs correction**

hector santos

7-Feb-12 13:13

Rolf,

When you use LVS\_EX\_CHECKBOXES and also add a Right Click Popup for a row item using OnCellContextMenu(), it doesn't "ergonomically" work as one may expect.

If the user right click the checkbox, inherently, it is toggled by the MFC base control and you also get the POPUP!

The problem was resolved by adding two logics:

- 1) Capturing and disabling the right click for the checkbox, and
- 2) Adding to the subclass its own CellHitTest().

First I tried to change the method in CGridListCtrl to a virtual function so I can override it, but that caused problems in other areas of the control, especially the traits. So I keep it as non-virtual and basically add my own CellHitText().

The reason is because it does not take into account the "region" (LVHITTESTINFO.flags) that was clicked and it checks only for LVHT\_ONITEM.

Technically, you have these regions:

```
#define LVHT_NOWHERE          0x00000001  (no item click)
#define LVHT_ONITEMICON        0x00000002  (icon in cell)
#define LVHT_ONITEMLABEL        0x00000004  (text in cell)
#define LVHT_ONITEMSTATEICON    0x00000008  (checkbox in cell, i.e. col #0)
#define LVHT_ONITEM             (LVHT_ONITEMICON | LVHT_ONITEMLABEL | LVHT_ONITEMSTATEICON)
```

When you click the grid white space (no rows), you get LVHT\_NOWHERE. When you click just the checkbox, you get LVHT\_ONITEMSTATEICON.

This is what I have:

```
C++

DWORD CGridEvents::CellHitTest(const CPoint& pt, int& nRow, int& nCol)
{
    LVHITTESTINFO lvhti = {0};
    lvhti.pt = pt;
    nRow = ListView_SubItemHitTest(m_hWnd, &lvhti);
    nCol = lvhti.iSubItem;
    if (lvhti.flags == LVHT_NOWHERE)
    {
        nRow = -1;
        nCol = -1;
    }
    else if (lvhti.flags == LVHT_ONITEMSTATEICON) nCol = -1;
    else if (!(lvhti.flags & LVHT_ONITEM)) nRow = -1;

    return lvhti.flags;
}
```

This allows for the WM\_RBUTTONDOWN event to do the test and if nRow != -1 and nCol == -1, skip calling the base CGridListCtrlEx::OnRButtonDown(nFlags, point) function. That allowed the OnCellContextMenu() to still be called for the row item without toggling the checkbox.

I think the CellHitTest() should take into account the right clicking of a checkbox. Whether it should do the Popup or not is an implementation decision. But it shouldn't do both.

The problem of adding the logic I did to the CGridListCtrl::CellHitTest() is that returning nCol=-1 for the selected row causes assertions for the other functions and traits that do not take into account the right clicking on a checkbox.

I believe the CGridListCtrl should not "depend" on traits when they are not used. In an internal trait is used, IMV, it should take into account the checkbox and not assume a right click should return nCol=0 as opposed to nCol=-1.

Thanks.

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Rolf Kristensen

8-Feb-12 4:50

- I must admit that it is not logical that the checkbox changes, when it is right clicked, but it is the default behavior of the CListCtrl.
- Stealing the WM\_RBUTTONDOWN event to prevent the checkbox from being changed, doesn't sound like a good solution to me. But you are ofcourse welcome to override the handler in your own class, and do this.

Changing the CellHitTest(), so the state-image suddenly is no longer part of the first column doesn't sound good either. Since you only want this special behavior to in your own rbuttondown-handler, then you can probably work something out there as well.

I have now changed the OnContextMenu() handler, so it doesn't trigger when right-clicking the stateimage.

*modified 7-Feb-12 16:57pm.*

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hector santos

9-Feb-12 7:43

- I agree. It is an add behavior.
- Not sure I agree its a "special behavior" in the sense that adding a Right Click Popup menu to line items is not an odd design and quite common. But I don't see how to avoid correcting this without WM\_RBUTTONDOWN. Otherwise the corrections are required in your the suite of classes in the packages to deal with LVS\_EX\_CHECKBOXES styles.

**Quote:**

I have now changed the OnContextMenu() handler, so it doesn't trigger when right-clicking the stateimage.

Hmmm, I don't think that will work because CListCtrl will act on the WM\_RBUTTONDOWN message before WM\_CONTEXTMENU. So you will see the item checkbox toggled and then the popup.

Off hand, the backward compatible solution (minimal changes) to correct this is with changing CellHitTest() to return the lvhi.flags and changing OnRButtonDown() to use the returned flags:

```
/* virtual */
DWORD CGridListCtrlEx::CellHitTest(const CPoint& pt, int& nRow, int& nCol) const
{
    nRow = -1;
    nCol = -1;

    LVHITTESTINFO lvhti = {0};
    lvhti.pt = pt;
    nRow = ListView_SubItemHitTest(m_hWnd, &lvhti); // SubItemHitTest is non-const
    nCol = lvhti.iSubItem;
    if (!(lvhti.flags & LVHT_ONITEM))
        nRow = -1;

    return lvhti.flags;
}
```

[Shrink ▲](#)

```

void CGridListCtrlEx::OnRButtonDown(UINT nFlags, CPoint point)
{
    if( GetFocus() != this )
        SetFocus(); // Force focus to finish editing

    // Find out what subitem was clicked
    int nRow, nCol;
    DWORD flags = CellHitTest(point, nRow, nCol);

    //-----
    // Disable Item State Checkbox right click toggles. This flags
    // state value of LVHT_ONITEMSTATEICON is only possible when
    // the LVS_EX_CHECKBOXES style is set for the control. Any
    // right click popup action will still continue.
    //-----
    if (flags == LVHT_ONITEMSTATEICON)
        return;
    //-----

    // If not right-clicking on an actual row, then don't update focus cell
    if (nRow != -1)
    {
        // Update the focused cell before calling CMFCListCtrl::OnRButtonDown()
        // as it might cause a row-repaint
        SetFocusCell(nCol);
    }

    CMFCListCtrl::OnRButtonDown(nFlags, point);
}

```

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3-Feb-12 20:53

## Header

zacharmarz

Hi.

I found this control and I'm trying to get it work. But it still fails on "header". I normally create new instance of CGridListCtrlEx, then call create with these parameters:

C++

```
Create(WS_CHILD | ES_RIGHT | ES_AUTOHSCROLL | LVS_REPORT, rect, this, IDC_PROFILE);
```



After that i try to insert column:

ASM

```
CGridColumnTrait* pName = new CGridColumnTraitText();
int ret = m_ctrProfile->InsertColumnTrait(0, _T(""), LVCFMT_LEFT, -1, -1, pName);
```



When this is called, it fails on GetColumnCount because GetHeaderCtrl returns NULL.

I tried to put breakpoints all over the code and found out, then when creating instance of CGridListCtrlEx, also CListCtrl constructor and create function is called, but no CHeaderCtrl functions. How should this work? Should it create header by itself or should I create it manually? If it's creating header, where it's created?

Thanks for your advice.

Martin

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## Re: Header

Rolf Kristensen

3-Feb-12 21:31

I would find a working example of someone dynamically creating a CListCtrl, and see if you can make that example work in your code, and then check if GetHeaderCtrl() works on CListCtrl. If you cannot figure out to make it work,

 then post your question in the MFC/C++ forum.

When everything works with CListCtrl, then replace the CListCtrl with CGridListCtrlEx.

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#### **Re: Header**

 zacharmarz

3-Feb-12 23:40

Thanks. I will try...



 [Reply](#) · [View Thread](#)



#### **Re: Header**

 hector santos

7-Feb-12 14:11

The problem is the create style you used:



```
WS_CHILD | ES_RIGHT | ES_AUTOHSCROLL | LVS_REPORT,
```

Using ES\_RIGHT and ES\_AUTOHSCROLL, bit wise, it effectively sets the control style as:

```
WS_CHILD | LVS_SMALLICON | LVS_NOLABELWRAP | LVS_REPORT,
```

LVS\_REPORT and LVS\_SMALLICON are mutual exclusive of each other. They are not BITS. It can only be one of these to be added to the create style:

```
#define LVS_ICON          0x0000
#define LVS_REPORT         0x0001
#define LVS_SMALLICON      0x0002
#define LVS_LIST            0x0003
```

I think the CGridListCtrlEx() checks for LVS\_REPORT is set but without checking if it checks for the other modes.

Anyway, I verified the GetHeaderCtrl() NULL problem with using ES\_RIGHT in the create style. Remove ES\_RIGHT (i.e. LVS\_SMALLICON) and it will work.

---

Hector Santos  
<http://www.santronics.com>

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5.00/5 (1 vote)

#### **Re: Header**

 zacharmarz

7-Feb-12 15:39

Thanks a lot. It really helped. I copied that create method call from edit box creation 😊



 [Reply](#) · [View Thread](#)



#### **OLE Drag and Drop question :**

 S.Anastasiou

2-Feb-12 19:54

- Hello and thanks for your amazing control,
- I would like to ask you if I need to do something special to support OLE drag and Drop internally, just like in your Demo example.

Right now I subclassed CGridListCtrlGroups and set selection to whole row,

but drag and drop isn't doing anything. i.e. I can't drag anything. I am fairly new to MFC so I am unaware of any events that I need to enable/override for this functionality to work. Any hints would be helpful.

Thanks

Stefanos

[Reply](#) · [View Thread](#)



Rolf Kristensen

2-Feb-12 22:31

**Re: OLE Drag and Drop question :**

- Include a call to AfxOleInit() in your CWinApp InitInstance() method.

[Reply](#) · [View Thread](#)



S.Anastasiou

2-Feb-12 22:37

**Re: OLE Drag and Drop question :**

- Works like a charm. Thanks.

[Reply](#) · [View Thread](#)



should I download the latest sources from google code? It seems they are significantly newer than the ones in the demo.

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Rolf Kristensen

3-Feb-12 2:02

**Re: OLE Drag and Drop :**

S.Anastasiou wrote:

should I download the latest sources from google code? It seems they are significantly newer than the ones in the demo.

I make "releases" of the CGridListCtrlEx from time to time, when there are significant changes. But yes there are several bug fixes in the latest version from Google Code.

[Reply](#) · [View Thread](#)



**View Config Classes**

hector santos

1-Feb-12 14:23

Rolf,

- Unless I am missing something, we have a Z-ORDER conflict here when using the ViewConfig classes outside or more specifically preparing a global viewconfig that is used to save/load other parameters and also "assigned" the the CGridListCtrl class via SetupColumnConfig().

To reduce coding redundancy, I switched and began to use the ViewConfig classes with this excellent profile setup to save/restore other parameters beyond the list control.

In short, I don't think the CGridListCtrl class should be deleting the **m\_pColumnConfig** in its destructor. It breaks the

OOPS Z-ORDER logic.

The control did not create it, so it should not be responsible for deleting it. If a ViewConfigSection is instantiated on a global basis to cover other things, and it creates a ViewConfigSection instance and therefore by Z-ORDER logic, also deletes it, then a GPF occurs because the CGridListCtrl's destructor had deleted it.

What the control needs is a Attach/Detach concept. If I attach a viewconfig instance, maybe a TRUE/FALSE 2nd option to SetupColumnConfig() then the control can flag it to not perform the destructor delete of the **m\_pColumnConfig** member.

Think Z-ORDER. 😊

[Reply](#) · [View Thread](#)



Rolf Kristensen

1-Feb-12 14:30

#### [Re: View Config Classes](#)

The idea with CViewConfigSection is that each owner gets its own unique settings storage-object. The viewname given to the the storage-object specifies a section in the configuration file. One should not share the same CViewConfigSection-object between multiple owners.

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#### [Re: View Config Classes](#)

hector santos

1-Feb-12 14:49

That's a philosophical question, but that has nothing to do with the Z-ORDER creation. I can see how you tried to make it generic, but it still conflicts with CGridListCtrl which is working on the original logic.



But in software design, it doesn't matter.

The object is creating outside CGridListCtrl. By fundamental Z-ORDER logic, it is not expected under normal Z-ORDER design, in any language, to undo what it did not create. Its that simple. All else does not matter. 😊 We must adhere to Z-ORDER otherwise we will go nuts.

The solution was simple:

I adding a optional flag to SetupColumnConfig():

```
virtual void SetupColumnConfig(CViewConfigSectionProfiles* pColumnConfig,
                           const BOOL bAttached = FALSE);
```

Which sets an internal variable:

BOOL m\_bConfigAttached; // initialized in constructor to FALSE

and in the destructor:

```
C#
if (!m_bConfigAttached)
{
    delete m_pColumnConfig;
    m_pColumnConfig = NULL;
}
```

and now it allows for perfect Software Engineering Z-ORDER designs 😊

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## Re: View Config Classes

hector santos

1-Feb-12 15:11

I should note that I don't believe, in general, that saving data for just one control is independent of saving other information. In addition, in the name of reducing redundancy and creating single source code, one CONFIG object is conceptually more realistic. That's my design concept. Not hard core, but IMV, better.

For example, I created a CAppConfig class:

```
#include "ViewConfigSection.h"

class C AppConfig {
public:
    C AppConfig(const char *szSection = NULL);
    ~C AppConfig();

    virtual CString Key(const char *szKey, const int index);
    virtual BOOL Initialize(const CString &strSection = "");
    virtual BOOL AddMoreProfiles(const CString &strName);

public:
    CString GetSectionName() const { return m_SectionName; }
    CViewConfigSectionProfiles *GetAppConfig() const { return m_pAppConfig; }

    int GetDefaultValue(const CString &sKey) const
    {
        if (m_pAppConfig) {
            return m_pAppConfig->GetDefaultConfig().GetIntSetting(sKey, 0);
        }
        return 0;
    }

protected:
    CString m_SectionName;
    int m_nDefCols;
    CViewConfigSectionProfiles *m_pAppConfig;

private:
};

extern C AppConfig AppConfig;
```

[Shrink ▲](#)

And now you have one config at the application level.

Now the grid control reduces to this:

```
C#
AppConfig.AddMoreProfiles(_T("Default"));
AppConfig.AddMoreProfiles(_T("Special"));
int nSpecials = 5;
for (int i=0; i<nSpecials; i++) {
    AppConfig.AddMoreProfiles(Key(_T("Special"), i+1));
}
SetupColumnConfig(AppConfig.GetAppConfig(), TRUE);
```



Instead of "recreating" new instances of CViewConfigSessionXXXX classes.

Anyway... My view...

PS: Here is the implementation of CAppConfig:

```
#include "stdafx.h"
#include "Appconfig.h"

CAppConfig::CAppConfig(const char *szSection /*= NULL */)
    : m_pAppConfig(NULL)
    , m_sectionName(szSection)
    , m_nDefCols(0)
{
    if (m_sectionName != "") {
        Initialize(m_sectionName);
    }
}
CAppConfig::~CAppConfig()
{
    if (m_pAppConfig) {
        delete m_pAppConfig;
        m_pAppConfig = NULL;
    }
}
CString CAppConfig::Key(const char *szKey, const int index)
{
    CString s;
    s.Format("%s%d", szKey, index);
    return s;
}

BOOL CAppConfig::Initialize(const CString &strSection /* = "" */)
{
    if (strSection == "" && m_sectionName == "") {
        return FALSE;
    }
    if (strSection != "") m_sectionName = strSection;

    CViewConfigSectionWinApp* pProfiles = new CViewConfigSectionWinApp(m_sectionName);
    m_pAppConfig = pProfiles;

    //-----
    // this will save the key
    // CurrentProfiles=Default [, Special, Special1, Special2 ...., SpecialN]
    //
    //AddMoreProfiles(_T("Default"));

    return TRUE;
}

BOOL CAppConfig::AddMoreProfiles(const CString &strName)
{
    if (m_pAppConfig && (strName != "")) {
        m_pAppConfig->AddProfile(strName);
        return TRUE;
    }
    return FALSE;
}

CAppConfig AppConfig;
```

Then all one needs to do is call in the app startup (InitInstance):

```
AppConfig.Initialize("Section-Name");
```

--

[Reply](#) · [View Thread](#)[Re: View Config Classes](#)

Rolf Kristensen

2-Feb-12 5:00

I have extended CGridListCtrlEx::SetupColumnConfig() with an optional parameter `bConfigOwner`. You can get the updated version from [Google Code](#)<sup>[^]</sup>.

[Reply](#) · [View Thread](#)[Re: View Config Classes](#)

hector santos

2-Feb-12 23:25

Rolf, Good!

Unfortunately, it appears the tie-in of the ViewConfigSection classes "**appears**" to be too tight to the grid control and its dependency to delete sections are various times, like switching to another profile, losing focus, etc. At that point, all external properties outside the grid control are lost.

It all works fine with no profiles or you stick with the default or one profile. But once you start testing using switching between profiles, external properties stored in the current profile are lost.

Overall, another classic case of a Z-ORDER design conflict. Don't get me wrong! Its typical in the area of application vs tools design and the art of OOPS separation, especially when dealing with powerful and flexible controls.

I think the grid control need a better abstraction logic for saving/loading properties exclusive to itself without the Z-ORDER conflict of destroying anything but its own information. Since the grid control is whats triggering I/O events, all externals I/O have to be based on that and can tend to make code design "uglier" unless its exclusive to its own I/O. Of course, as you stated earlier, the config classes were meant to work separately. So perhaps I can punt on the owner/attach method and keep external properties separate. But I think you will lost the flexibility of using the profiles and the automation logic.

Anyway, it just hit me that one possible solution to explore is to override of the RemoveSection() method. Let me try that.

[Reply](#) · [View Thread](#)[Re: View Config Classes](#)

hector santos

2-Feb-12 23:51

Never mind. Solved it. Simple solution!

I had isolating the external properties saving in my CGridEvent subclass with a SaveSettings() method and just needed to override SaveState() and call the SaveSettings(), so its now:

```
C#
BOOL CGridEvents::SaveSettings()
{
    CViewConfigSectionProfiles *pc = m_pColumnConfig;
    if (!pc) {
        return FALSE;
    }
    pc->SetIntSetting("UseColors", Settings.bUseColors);
    pc->SetIntSetting("UseGrouping", IsGroupViewEnabled());
    pc->SetIntSetting("SortColumn", GetSortColumn());
    pc->SetIntSetting("SortAscending", IsAscending());
    pc->SetLogFontSetting("LogFont", m_lfBaseFont);
    return TRUE;
}
```

```

    }

    void CGridEvents::SaveState(CViewConfigSection& config)
    {
        CGridListCtrlEx::SaveState(config);
        SaveSettings(); // << REWRITE EXTERNAL PROFILE PROPERTIES
    }
}

```

Save thing with a LoadSettings() method called in a LoadState() override. 😊

Perfect! 😊

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## Syncing first time loading and column settings

hector santos

29-Jan-12 12:17

Rolf, I wasting too much time here so I hoping you can make suggestions.

Overall, I am trying to synchronize my internal startup setting of column headers with whats saved/loaded with ViewConfigSection.

The following is the internal default column data used for everything, preparing the list control, mapping the columns with the owner columns, for sorting, reordering, colorization, etc.

CSS



```

/*
typedef struct tagTEventHeaderInfo {
    char *name;
    int index;
    int order;
    int visible;
    int width;
} TEventHeaderInfo;
*/
TEventHeaderInfo EventHeaderList[] =
{
    {"Description",     HDR_EVENT_DESC,      0, true,  200},
    {"Frequency",       HDR_EVENT_FREQ,      1, true,  112},
    {"Last Exec",       HDR_EVENT_LASTEXEC,  2, true,  150},
    {"Next Time",       HDR_EVENT_NEXTIME,   3, true,  150},
    {"End Time",        HDR_EVENT_ENDTIME,  4, true,  150},
    {"Comment",          HDR_EVENT_COMMENT,  5, true,  280},
    {"Status",           HDR_EVENT_STATUS,   6, false, 80},
    {"Order",            HDR_EVENT_ORDER,    7, false, 50},
    {NULL}
};

```

So the question is what overrides (and logic) I should use for:

LoadState()  
LoadColumnState()  
SaveState()  
SaveColumnState()

in order to detect the first time loading there is no saved data it and make sure the columns appear as expected?

For example, as you can see from the list above, the last two columns are off by default.

I tried a few things and got to this logic and it "seems to work" but not quite (explained below). In my subclass

CGridEvents of CGridListCtrlEx(), I have a function InitLoadState() to prepare the config stuff. I add the sync logic there:

```
C#
void CGridEvents::InitLoadState()
{
    TRACE("= CGridEvents::InitLoadState()\n");
    CViewConfigSectionWinApp* pProfiles = new CViewConfigSectionWinApp(_T("TaskView"));
    pProfiles->AddProfile(_T("Default"));
    pProfiles->AddProfile(_T("Special"));

    // First sync with EventHeaderList for first time config
    int nVisibleCols = pColumnProfile->GetIntSetting(_T("ColumnCount"));
    if (nVisibleCols == 0) {
        TRACE("* FIRST TIME. HIDE COLUMNS, if any and SAVE STATE\n");
        TEventHeaderInfo *at = &EventHeaderList[0];
        int nCol = 0;
        while (at && at->name) {
            if (!at->visible) ShowColumn(at->index, false);
            at++;
            nCol++;
        }
    }
    //

    SetupColumnConfig(pProfiles);
}
```

Now in order to give CGridListCtrlEx() its internal full knowledge of all columns when the control is initialized in the mainframe OnCreate(), the header insertion loop ignores the EventHeaderList[x].visible bit so that all columns are added to the list, including establishing its width and item data (index), etc.

After the grid is prepared, including adding the rows, the InitLoadState() is finally called.

This all works until I right click the header and it does show the two status and order columns unchecked. But when I check one of them, it doesn't appear in the grid.

However, right clicking again does show that the column is checked so it does think its enabled. So I explored the idea the width was "zero" and there it was. By re-sizing it, it appeared.

So in a way it appears like like a mite because the initial width was established when the list control was first initialized with all the headers.

But then again, the sync logic I used probably not sufficient or there might be a better way.

Any suggestions?

TIA

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### Re: Syncing first time loading and column settings - RESOLVED

hector santos

29-Jan-12 13:09

Rolf, the issue was resolved by adjusting InitLoadState():



```
C#
void CGridEvents::InitLoadState()
{

    // Check default setup of columns
    int nDefCols = atoi(AfxGetApp()->GetProfileString("TaskView__Default","ColumnCount", "0"));
    TRACE("= CGridEvents::InitLoadState() initial def cols=%d\n", nDefCols);
```

Shrink ▲

```
CViewConfigSectionWinApp* pProfiles = new CViewConfigSectionWinApp(_T("TaskView"));
pProfiles->AddProfile(_T("Default"));
pProfiles->AddProfile(_T("Special"));
SetupColumnConfig(pProfiles); // MUST DO THIS FIRST BEFORE ANY ADJUSTMENTS

// First sync with EventHeaderList for first time config
if (nDefCols == 0) {
    TRACE("* FIRST TIME. HIDE COLUMNS, if any and SAVE STATE\n");
    TEventHeaderInfo *at = &EventHeaderList[0];
    int nCol = 0;
    while (at && at->name) {
        if (!at->visible) ShowColumn(at->index, false);
        at++;
        nCol++;
    }
}
//
```

So first check if there was any setup by directly checking for any saved default column count. Then do the normal config preparation making sure SetupColumnConfig() is called in order for the control to have its state, width, etc. Then do any adjustments if the initial default column was zero - DUH! <g>

Anyway, is perfect now. Maybe a new function for the control

virtual BOOL IsDefaultColumnSetup();

Or change the virtual method SetupColumnConfig() to return a boolean - TRUE if it used the existing default from the registry and FALSE if no initial default existed. That would avoid having to do the direct registry check. 😊

Great Control! <g>

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#### Re: Syncing first time loading and column settings - RESOLVED

Rolf Kristensen

1-Feb-12 0:20

I would prefer that before inserting the column trait, then one just had to set the `m_Visible` property:

C++

```
pTrait->GetColumnState().m_Visible = IsDefaultVisible(nCol);
m_ListCtrl.InsertColumnTrait(nCol, ..., pTrait);
```

But I must admit I have not tested if this works.

*modified 1-Feb-12 2:35am.*

[Reply](#) · [View Thread](#)

1.00/5 (1 vote)



#### Reuse of Trait for different column

gordon88

26-Jan-12 19:17

It looks like we can successfully (when running) use same created Trait in multiple call to `InsertColumnTrait`. At least it did work with me using `CGridColumnTraitEdit`.

However in the `CGridListCtrlEx::OnDestroy()`, the call to `CGridListCtrlEx::DeleteColumnTrait` will attempt to do multiple delete of same Trait, which of course crash

Is there any downside to upgrade `DeleteColumnTrait` searching and cleaning multiple entries in `m_ColumnTraits` with same value ?

Thanks

Gordon

[Reply](#) · [View Thread](#)

Rolf Kristensen

27-Jan-12 2:40

**Re: Reuse of Trait for different column**

Since it is possible to reuse the same ColumnTrait-class for multiple columns, then I do not understand why you want to reuse the same ColumnTrait-object for multiple columns.

Not like the ColumnTrait-objects uses a lot of memory, but you are welcome to do whatever you want with the CGridListCtrlEx code. It will just be a little more difficult for you to upgrade to the latest version of CGridListCtrlEx.

[Reply](#) · [View Thread](#)**Suggestion: Row Mapping**

hector santos

24-Jan-12 4:27

Rolf, after working with all these CListCtrl controls, including your own vs CMFCListCtrl which offers two of the top popular desires, grouping and coloring, I have some ideas:

A method that establishes the Grid size per the data model:

```
bool InitialGrid(int nRows, int nCols);
```

This will basically create the cells with empty text and prepares an internal RowToDataIndex array which starts at 1 to 1 (same order) to deal with the same concept as done for mapping columns order. These controls missed the basic idea row order is important as well once sorting takes place. So additional methods such as:

```
bool SetRowArrayArray(nRows, int *intArray);
int GetRowArrayArray(int *intArray, int nRows = -1);
```

The coder can now have a data model logic that basically allows it to think in terms of its data order and not the "display order" for all ideas dealing with this mapping. It basically allows you to further generalize the controls and lowers the requirement for coders to derive new subclasses which IMO, it mostly due to having to get the row or column mapping correct. It also helps reduce the need to have global data.

I guess in the ideal/classic OOP point of view, that is what your traits can address but this tends to be too much overhead such as the point where you have a common row trait and a common column trait, but it ends up being a trait per cell. What I had done for your control, was to use your OnDisplayCellText() virtual method:

C#

```
bool CGridListCtrlEx::OnDisplayCellText(int nRow, int nCol, CString& strText, int *pItemData /* = NULL */)
{
    return false;
}
```

But I had to add the optional pItemData with the actual data row/cell reference.

When done this way, the coder can use this as a trait or just a simple data index.

Anyway, you get the idea. 😊

[Reply](#) · [View Thread](#)

 Rolf Kristensen

24-Jan-12 5:00

 **Re: Suggestion: Row Mapping**

 I have added a OnDisplayCellItem() where you get the full LVITEM struct to play with. 

 Reply · View Thread  

 **Using CGridListCtrlEx** hector santos

22-Jan-12 4:29

 Hi Rolf, you asked I should explore this control for the Save/Load component it had. 



After trying to strip parts to add to what I already had, it was just not working right and went ahead and replaced the custom control I had with CGridListCtrlEx. After I was able to finally implement it, the code below is what I have which I believe is the minimum to replace the parts I had. Can you tell me if there was a simpler reduction of what I have is the requirement:

 Shrink ▲ 

```
class CGridColumnTraitEvent : public CGridColumnTraitText
{
public:
    virtual int OnSortRows(const LVITEM& leftItem, const LVITEM& rightItem, bool bAscending);
};

class CGridEvents : public CGridListCtrlGroups
{
public:
    int GetSelectedData()
    {
        int nItem = GetSelectedRow();
        if (nItem != -1) nItem = GetItemData(nItem);
        return nItem;
    }
    int GetSelectedRow()
    {
        int nItem = -1;
        if (GetSelectedCount() > 0) {
            POSITION pos = GetFirstSelectedItemPosition();
            if (pos) nItem = GetNextSelectedItem(pos);
        }
        return nItem;
    }
    int GetSortColumn()
    {
        //return GetHeaderCtrl().GetSortColumn();
        return m_SortCol;
    }

    virtual bool OnDisplayCellColor(int nRow, int nCol, COLORREF& textColor, COLORREF& backColor, int
*pItemData = NULL);
    DECLARE_MESSAGE_MAP()
    afx_msg void OnLButtonDblClk(UINT nFlags, CPoint point);
    afx_msg void OnLvnItemchanged(NMHDR *pNMHDR, LRESULT *pResult);
    afx_msg void OnEventColumnClick(NMHDR *pNMHDR, LRESULT *pResult);
};
```

In my mainframe header, I have:

CGridEvents TaskList;

Overall, to replace ideas I had in my control which derived from CMFCListCtrl:

- 1) I added a wrapper to get the GetSortColumn() from the internal m\_SortCol, rather than the CMFCListCtrl::GetSortColumn() method.

- 2) Since the order of rows can be different than the index of the Data model rows, I needed the important GetSelectedData() method
- 3) The OnLButtonDbClick() was used to send an CM\_EVENTEDIT UI message to start a dialog to edit the selected row.
- 4) The OnLvnItemChanged() was needed to set the datamodel CheckBox state using the following:

```
void CGridEvents::OnLvnItemchanged(NMHDR *pNMHDR, LRESULT *pResult)
{
    LPNMLISTVIEW pNMLV = reinterpret_cast<LPNMLISTVIEW>(pNMHDR);
    // We are only interested in state check. pNMLV->lParam is the user data (event index)
    if (pNMLV->uChanged == LVIF_STATE && (pNMLV->iSubItem == 0))
    {
        int nEvent = pNMLV->lParam;
        int nItem = pNMLV->iItem;
        BOOL bChecked = GetCheck(nItem);
        CWildcatEventProps *ev = &SystemGlobalData.Events.elist[nEvent];
        if ((pNMLV->uNewState == 0x2000 && pNMLV->uOldState == 0x1000)
            ||
            (pNMLV->uNewState == 0x1000 && pNMLV->uOldState == 0x2000))
        {
            if (ev->m_bEnable != bChecked) {
                ev->m_bEnable = bChecked;
                TRACE("* CHECKBOX[%2d] ENABLED: %d\n", nEvent, bChecked);
            }
        }
    }
    *pResult = 0;
}
```

I tried to use your OnOwnerDataToggleCheckBox() but it was called twice.

- 5) I had to use my own OnHeaderClick called OnEventColumnClick() because the base event was calling it twice so a sort direction restored back. I believe you had to return TRUE in OnHeaderClick() so it doesn't get called twice.
- 6) In my original version on OnHeaderClick(), it used CMFCListCtrl::OnCompareItems(LParam lParam1, LParam lParam2, int nColumn) override which sorted based on the nColumn sort logic in a switch statement. lParam1 is left the row#, lParam2 is the right row#. Since your methods was harder to get right, I use the trait method to implement the OnSortRows().

```
C#
Shrink ▲ □

//-----
// This method sorts the event columns
//-----
int CGridColumnTraitEvent::OnSortRows(const LVITEM& leftItem, const LVITEM& rightItem, bool bAscending)
{
    int nEventColumn = rightItem.iSubItem;
    int lParam1 = leftItem.lParam;
    int lParam2 = rightItem.lParam;
    int nRes = 0;
    CWildcatEventProps *ev1 = &SystemGlobalData.Events.elist[(int)lParam1];
    CWildcatEventProps *ev2 = &SystemGlobalData.Events.elist[(int)lParam2];
    switch(nEventColumn) {
        case HDR_EVENT_DESC:
            nRes = strcmp(ev1->m_sDescription, ev2->m_sDescription);
            break;
        case HDR_EVENT_FREQ:
            nRes = ev1->m_nFrequency - ev2->m_nFrequency;
            if ((nRes == 0) && (ev1->m_nFrequency == CWildcatEventProps::INTERVAL)){
                nRes = ev1->m_IntervalType - ev2->m_IntervalType;
                if (nRes == 0) nRes = ev1->m_nInterval - ev2->m_nInterval;
            }
    }
}
```

```

        break;
    case HDR_EVENT_LASTEXEC:
        nRes = (ev1->m_tLastExecTime - ev2->m_tLastExecTime).GetTotalSeconds();
        break;
    case HDR_EVENT_NEXTTIME:
        nRes = (ev1->m_tNextSchedTime - ev2->m_tNextSchedTime).GetTotalSeconds();
        break;
    case HDR_EVENT_ENDTIME:
        nRes = (ev1->m_tDurationTime - ev2->m_tDurationTime).GetTotalSeconds();
        break;
    case HDR_EVENT_COMMENT:
        nRes = ev1->IsEventPastDue()-ev2->IsEventPastDue();
        break;
    case HDR_EVENT_STATUS:
        nRes = 0;
        break;
    }
    if (!bAscending) return -nRes;
    return nRes;
}

```

7) For the coloring, that worked nicely, however, I did changed your code to pass an optional \*pItemData to get the actual data index, not use the row#.

```

virtual bool OnDisplayCellColor(int nRow, int nCol, COLORREF& textColor, COLORREF& backColor, int *pItemData = NULL);

```

Overall, it appears Plug and Play clean. My main question is why do I need to create a new instance of the trait for each column when the column headers are added in the mainframe OnCreateClient():

```

C#
// Initialize default event column setup
TEventHeaderInfo *at = &EventHeaderList[0];
int iHeadCount = 0;
while (at && at->name) {
    CGridColumnTrait* pEventSortTrait = new CGridColumnTraitEvent;
    TaskList.InsertColumnTrait(iHeadCount, at->name, LVCFMT_LEFT, at->width, at->index, pEventSortTrait);
    iHeadCount++;
    at++;
}

And in CMainFrame::OnCreate() to do the similar Loading:

```

```

CViewConfigSectionWinApp* pColumnProfile = new CViewConfigSectionWinApp(_T("TaskView"));
pColumnProfile->AddProfile(_T("Default"));
pColumnProfile->AddProfile(_T("Special"));
TaskList.SetupColumnConfig(pColumnProfile);

```

I think you may consider looking at how CMFCListCtrl does it with a OnCompareItems() and since it passes nColumn, you can use it to *single source* a method to get the column trait, if any. Otherwise allow the implementator to add his own logic when there is no trait or just common default trait.

Does it look like I implemented your code with the minimize overrides or can I further simplify this?

I think there were some notifications or methods that returns TRUE/FALSE when it should either FALSE/TRUE.

Thanks

Reply · View Thread



 Re: Using CGridListCtrlEx hector santos

22-Jan-12 4:56

 Rolf,  


 Just for the fun of it, I am exploring basing CGridListCtrlEx on CMFCListCtrl instead. I believe you can reduce much of the logic that is already done in CMFCListCtrl. But the main reason is I really liked the way it sorted columns when Group Viewing is enabled. I could possibly create a special column trait for group view mode, but I wouldn't know where to start that now. But seeing how your code can be reduced, possibly greatly, when it derives from CMFCListCtrl is interesting to pursue.

PS: The CMFCListCtrl Group View mode sort logic is PER group, not by the title of the group which will create more groups than necessary when the method in CGridListCtrlEx() is used.

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 Re: Using CGridListCtrlEx Rolf Kristensen

22-Jan-12 5:53

 You are very welcome to look into deriving from CMFCListCtrl, but I don't have time for it.  


 Could you explain how CMFCListCtrl performs nicer sorting of groups compared to CGridListCtrlGroups ?

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 Re: Using CGridListCtrlEx hector santos

22-Jan-12 11:43

   **Quote:**

You are very welcome to look into deriving from CMFCListCtrl, but I don't have time for it.

Sure, understood. Who has time? Especially after one puts lots of tools design engineering time into something like your control. 😊

 **Quote:**

Could you explain how CMFCListCtrl performs nicer sorting of groups compared to CGridListCtrlGroups ?

First, I do like your method, but in CMFCListCtrl, in group mode, I presume it calls applet sort call back on a per group. In other words, it does not sort the text of the Group. That remains in the order that you added it.

Overall, I think it would be another option because I do see where you can show a group view per column and that comes in handle for certain columns.

In my applet case, the columns are for an proprietary events Task Scheduler

Description (this column has Checkbox)

Frequency

Last Exec Time

Next Exec Time

End Exec Time

Status

Comment

The grouping, if enabled, is based on the frequency which is always sorted (currently) by its frequency:

One Time Events

Interval Events (User Defined)

Hourly Events  
 Daily Events  
 Weekly Events  
 Start of Week Events  
 End of Week Events  
 Monthly Events  
 Start of Month Events  
 End of Month Events  
 Yearly Events)

So when the (row) items are added, its GroupID is also assigned from a Add Group Header Map of the frequency and I guess that is why CMFCListCtrl displays and sorts the items per Group:

```
C++ □  

//-----  

// Create Groups based on Frequency  

//-----  

TEventInfoType *ei = &FrequencyTypeList[0];  

int n = 0;  

while (ei && ei->str) {  

    CString s;  

    s.Format("%s Events", ei->desc);  

    mc_Events.InsertGroupHeader(n, ei->index, s);  

    n++;  

    grp++;  

}
```

and during the data InsertItem loop:

```
C++ □  

int row = mc_Events.InsertItem(i, "");  

mc_Events.SetItemData(row, i);  

mc_Events.SetCheck(row, ev->m_bEnable);  

mc_Events.SetRowGroupId(row, ev->m_nFrequency);
```

For example, I can sort the next exec time column and it will appear in the sorted time per group and not as an entire column, which is also nice, but not in group mode.

I guess, now that I think about it, your control is not using the group id when it creates the group per column.

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## Re: Using CGridListCtrlEx

Rolf Kristensen

22-Jan-12 21:40

- ▲ So instead of automatically generating new groups when sorting, then it should sort the items within in their assigned groups.
- ▼
- ☺ The order of the created groups should not be changed by the sorting ?

I think that would be a simplification of the current logic, and should not be that difficult to implement in CGridListCtrlGroups. Just override the method CGridListCtrlGroups::SortColumn() in your specialized class and call the base-class-method CGridListCtrlEx::SortColumn()

Reply · View Thread



[Re: Using CGridListCtrlEx](#)

hector santos

24-Jan-12 3:56

**Quote:**

So instead of automatically generating new groups when sorting, then it should sort the items within in their assigned groups.

The order of the created groups should not be changed by the sorting ?

Yes, or more tools oriented, I think if the implementer adds its own group, it should not be destroyed by default. Keep the same group per column sort unless the coder enables your default logic.

**Quote:**

I think that would be a simplification of the current logic, and should not be that difficult to implement in CGridListCtrlGroups. Just override the method CGridListCtrlGroups::SortColumn() in your specialized class and call the base-class-method CGridListCtrlEx::SortColumn()

Suggestion: Why not add the group methods you did with [CListCtrl and Grouping Rows](#)[^]



[Reply](#) · [View Thread](#)

[Re: Using CGridListCtrlEx](#)

Rolf Kristensen

24-Jan-12 4:28

**hector santos wrote:**

Suggestion: Why not add the group methods you did with [CListCtrl and Grouping Rows](#)[^]

Not sure I understand since the [CListCtrl and Grouping Rows](#)[^] also clears existing group information sorting.

I guess one could change the logic so if having right-clicked a column, and selected group by column, then if clicking to sort, then it will sort the groups. But if clicking a different column to sort, then it will keep the existing groups and just sort according to the item value within the existing groups.

This new behavior has now been implemented in CGridListCtrlEx.

*modified 23-Jan-12 17:15pm.*

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[Re: Using CGridListCtrlEx](#)

hector santos

22-Jan-12 12:20

**Quote:**

You are very welcome to look into deriving from CMFCListCtrl, but I don't have time for it.

BTW, it was simple to replace CGridListCtrlEx base class to CMFCListCtrl, however, the key difference is CMFCListCtrl::GetHeaderCtrl() is not a pointer.

I am not smart enough to figure out how to change the two functions:

C#

```
const CHeaderCtrl* GetHeaderCtrl() const;
CHeaderCtrl* GetHeaderCtrl() { return CListCtrl::GetHeaderCtrl(); }
```

So that no other code change was required. I tried this:

C#

```
CHeaderCtrl* GetHeaderCtrl() { return &CMFCListCtrl::GetHeaderCtrl(); }
```

But the compiler did not like it. So I commented out those two functions out and all references (including the traits classes), I hard coded the class CListCtrl references to GetHeaderCtrl()

CListCtrl::GetHeaderCtrl()

and that pretty much did it. There might have been some other things changed and I could of begun too remove redundant methods, but it did get it to compile. 😊

Hector Santos/CTO  
Santronics Software, Inc.  
<http://www.santronics.com>[^]

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#### Re: Using CGridListCtrlEx

Rolf Kristensen

22-Jan-12 5:50

Here are my comments to your modifications:

- 2) I have not implemented a GetSelectedRow() or GetSelectedData(), since one can have multiple rows selected. Unless using LVS\_SINGLESEL.
- 4) Have now tried to fix OnOwnerDataToggleCheckBox() so it should work using LVN\_ITEMCHANGED.
- 5) OnHeaderClick() works fine in the demo application, think some else is catching the event and doing something in your application.
- 6) Remember that LVIITEM given to OnSortRows has an iSubItem that is the column being clicked.
- 7) I have added a new OnDisplayCellColor() that receives the entire NMLVCUSTOMDRAW structure, that includes nItemData.

Not sure I understand your main question about needing to create a columntrait instance for each column. It is intended that one should not reuse the same columntrait-instance for all columns (But one can use the same columntrait-class)

Visit [Google Code](#)[^] to get the latest source code.

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#### Re: Using CGridListCtrlEx

hector santos

22-Jan-12 12:03



Quote:



2) I have not implemented a GetSelectedRow() or GetSelectedData(), since one can have multiple rows selected. Unless using LVS\_SINGLESEL.

Good point, but then again a normal CListbox has multiple select logic and its class also has a CListBox::GetCurSel() design for a single selection (or the first one). The point is that for single selection CListCtrl based implementations, you need a wrapper if you want a single function call.

**Quote:**

5) OnHeaderClick() works fine in the demo application, think some else is catching the event and doing something in your application.

Yes it did, but not when you derive a new class from CGridListCtrlEx(). If I recall, it had to do with the return value to allow another class to handle it or not.

**Quote:**

4) Have now tried to fix OnOwnerDataToggleCheckBox() so it should work using LVN\_ITEMCHANGED

Again, if I recall, same issue on returning TRUE/FALSE. One issue a double, another did not.

**Quote:**

6) Remember that LVITEM given to OnSortRows has an iSubItem that is the column being clicked.

Yes. But the iSubItem I am referring to here is the row (item's) iSubItem, since the passed row is the display row, not the actual data row. This is how I use it:

C++

```
bool CGridEvents::OnDisplayCellColor(int nRow, int nCol, COLORREF& textColor, COLORREF& backColor, int *pItemData /* = NULL */)
{
    //TRACE("CGridEvents::OnDisplayCellColor() nRow=%d nCol=%d [%s]\n", nRow, nCol, SystemGlobalData.Events.elist[nRow].m_sDescription);

    // DEFAULT
    textColor = clBlack;
    backColor = clWhite;
    //

    int iItem = -1;
    if (pItemData) {
        iItem = *pItemData;
    } else {
        iItem = GetItemData(nRow);
    }
    CWildcatEventProps *ev = &SystemGlobalData.Events.elist[iItem];
    ....
}
```

No big deal. 😊

**Quote:**

7) I have added a new OnDisplayCellColor() that receives the entire NMLVCUSTOMDRAW structure, that includes nItemData.

Great!

**Quote:**

Not sure I understand your main question about needing to create a columntrait instance for each column. It is intended that one should not reuse the same columntrait-instance for all columns (But one can use the same columntrait-class)

Right, as I found out.😊

Thanks for your time!

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**Retire Column**

Saxar

21-Jan-12 1:54

I have an issue when a time arises when I want to retire a column from existing in the product.

Each column has a unique ID for inserting, and when retiring it is kept in code so other column is using it.

However everything ends up shifting and the cell data for each column is one off.

Is it possible to ever retire a column once added?

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**Re: Retire Column**

Rolf Kristensen

21-Jan-12 2:34

When calling InsertColumnTrait() then provide a unique value for the parameter nSubItem. When a column is retired, then also retire the unique value so no other column uses it.

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**Re: Retire Column**

Saxar

22-Feb-12 6:15

- Thanks for the information. But we are still struggling as to use this to determine column order.
- We are experiencing major issues also adding a new column anywhere but at the end.

If we have lets say 23 columns with a unique id, and we add a new one with an ID of 24. This will work as long as set it at the end.

Can we make this new column have position 5 for example? nSubItem would seem to be the field to use, but 5 is the id for another existing column.

We have to simply add code that resets the columns all the way back to factory default whenever we retire/add columns unless we are missing something.

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#### **Re: Retire Column**

Rolf Kristensen

27-Feb-12 4:10

- I have no idea in what order you call `InsertColumnTrait` to insert columns, but here is a suggestion:

C++

```
int nColPos = 0;
InsertColumnTrait(nColPos++,..., 1, pTrait);
InsertColumnTrait(nColPos++,..., 2, pTrait);
InsertColumnTrait(nColPos++,..., 3, pTrait);
InsertColumnTrait(nColPos++,..., 4, pTrait);
InsertColumnTrait(nColPos++,..., 25, pTrait); // New column
InsertColumnTrait(nColPos++,..., 5, pTrait);
InsertColumnTrait(nColPos++,..., 6, pTrait);
```

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#### **Re: Retire Column**

Saxar

3-Mar-12 4:53

- Thanks for the tips. All was already being done in this manner.

- The issue is now resolved. To be more specific the issue we encountered was the wrong Column Text being shown after inserting a new column. As the 'nColPos' was what was getting passed to our LVN\_GETDISPINFO callback.

I considered implementing a simple map to tie column to Unique ID, and then reviewed one of your examples where I can use GetColumn to determine the UniqueID instead.

This was fixed by adding the following code added to the beginning of our callback function.

```
//Get the unique column identifier for retrieving the correct display information
int Column = -1;

LVCOLUMN colInfo;
colInfo.mask = LVCF_SUBITEM;
if(m_List.GetColumn(pDispInfo->item.iSubItem,&colInfo))
{
    //Get the real unique column
    Column = colInfo.iSubItem;
}
```

```
{
//Handle
}
```

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## Place in CDockablePane problem

bealey

18-Jan-12 23:33

Hi, Rolf!

Your great job!

I using CGridListCtrlEx::Create() in CDockablePane::OnCreate(), get the same problem [CGridListCtrlEx - Grid Control Based on CListCtrl](#)[^]

The problem is fixed by commenting out RegisterDropTarget(); in CGridListCtrlEx::OnCreateStyle().  
call stack:

```
C#
BOOL Register(T* pWnd)
{
    if (m_pWnd!=NULL)
    {
        ASSERT(m_pWnd==pWnd);
        return TRUE;      // Already registered
    }

    if (COleDropTarget::Register(pWnd)==FALSE)/*occur error*/
        return FALSE;

    m_pWnd = pWnd;
    return TRUE;
}
```

my env: vs2010, windows 7

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## Re: Place in CDockablePane problem

Rolf Kristensen

19-Jan-12 1:00

Could you try to update to the latest version from [Google Code](#)[^] ?

If the error still exists after upgrading to the latest version, would you be able to create an [Issue at Google Code](#)[^] with a reproducible case ?

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## CGridColumnTraitProgress available

gordon88

10-Jan-12 6:43

I cooked a small CGridColumnTraitProgress class to allow display of progress bars

It use the text value as a % of progress.

It's available but I would like to wait that the Author get a first look at it.  
(and this forum look the only way to flag him about that)

Gordon

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## Re: CGridColumnTraitProgress available

Rolf Kristensen

10-Jan-12 16:28

If you have code improvements or bug reports, then you are always welcome to create an issue at [google code](#)[^].

[Reply](#) · [View Thread](#)



**During developpement apparently missing column if col count is increased by developer** gordon88 10-Jan-12 0:19

- Unless mistaken the use or sequence of persistent state setting (at least as per demo):
- When a Developer (me here) increase the number of column while a previous run of the code did make a state save, then the registry of persistent state doesn't reflect current column count but the old one.  
So at new start-up of modified grid with increased col count, the wrong nVisibleCols count from reading registry "ColumnCount" will impair display of new design column(s) (they won't display)  
So we need to reconcile developer "wish" with previous registry setting if any.  
Note: This only happens in developpement, user have no way to change column count.(that I know)

Brutal fix is deletion of registry entries, but, I successfully use the following patch in

```
C# Copy
void CGridListCtrlEx::LoadState(CViewConfigSection& config)
```

```
C# Shrink ▲ Copy
//-----
/// Loads and applies the column configuration for the List control
///
/// @param config The interface for persisting the configuration
//-----
void CGridListCtrlEx::LoadState(CViewConfigSection& config)
{
    // Prevent updating the internal column-state-container while Loading
    CViewConfigSectionProfiles* pColumnConfig = m_pColumnConfig;
    m_pColumnConfig = NULL;

    int nVisibleCols = config.GetIntSetting(_T("ColumnCount"));      // Registry Count(or build default), not
always current.
//glh+
    // When Developper increase number of column while a previous run did make a state save,
    // the registry of persistent state doesn't reflect current column count but the old one.
    // So at new startup of modified grid, a wrong nVisibleCols count from reading registry "ColumnCount"
will impair
    // extra column display (they won't display)
    // So we need to reconcile Current developper wish with previous registry setting if any.
    // Note: This only happens in developpement, user have no way to change column count.(that I know)
    int nCurrentVisibleCols = pColumnConfig->GetDefaultConfig().GetIntSetting(_T("ColumnCount")); // Get
what SetupColumnConfig put as default
    nVisibleCols = max(nVisibleCols,nCurrentVisibleCols);           // Get a more relevant value
//--glh
    int nColCount = GetColumnCount();
    int* pOrderArray = new int[nColCount];
    GetColumnOrderArray(pOrderArray, nColCount);
```

This is not fully tested (every save sequences, nor effect if decrease is col count) but should work.

Gordon

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**Re: During developpement apparently missing column if col count is increased by developer**

Rolf Kristensen

10-Jan-12 0:49

- I know the behavior is rather annoying for developers, that when adding a new fancy column then it doesn't show automatically. Instead one have to manually right-click the column header and choose "Reset columns" in the context menu.

But if deploying the application in the real world, then normal users will not always be pleased about a horizontal scroll bar suddenly appearing because 2 new columns just arrived since the last version. Or that they are suddenly seeing information details that are not relevant to them. One developer vs. 1000 users.

I guess the quick fix is to uncomment the LoadState call when in DEBUG mode.

*modified 10-Jan-12 4:33am.*

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10-Jan-12 6:35

#### **Re: During developpement apparently missing column if col count is increased by developper**

gordon88

Isn't my suggested code valid?



So far did look Ok to me in operation. Just not sure of all the implication.

Gordon

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10-Jan-12 16:27

#### **Re: During developpement apparently missing column if col count is increased by developper**

Rolf Kristensen



The number saved in the registry is the number of columns the user has selected as visible. The user can decide that he/she only wants to see 2 columns out of 10 possible columns.



If you don't want the user to deselect columns as visible, then you should mark that the columns as always visible.

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1.00/5 (1 vote)



#### **Error when being destroyed**

jmw\_ica

25-Dec-11 0:18

Hi, I am using your Ctrl in a MFC MutliDoc View.

When the doc/view is destroyed, either by closing the doc tab or just exiting the program.



The line that seems to be getting me is the following

VERIFY( nCol >=0 && nCol < m\_ColumnTraits.GetSize() );

located in the function

CGridColumnTrait\* CGridListCtrlEx::GetColumnTrait(int nCol)

in file

CGridListCtrlEx.cpp

I have placed some debug statements in.

The nCol is 1, while the GetSize is returning 0.

Any ideas on how to handle this.

Basically i have just dropped in your code, but havent really used any of the fancy stuff like traits, sorting, editing, grouping, etc.

The Document window actually has several views loaded in a splitter window. Yours is a explorer tree on the left and another View is loaded on the right.

Everything works great until the closing.

Thanks

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**Re: Error when being destroyed**

jmw\_ica

25-Dec-11 1:34

- After reviewing the issue, it seems to have something to do with having multiple List created.
- In the View where i am creating the List, I have a OutlooBar. The OutlooBar has three controls, which have a aplitter window in each, which contains two List. So the View has basically three sets of two List, with only one set visible at anytime.

I commented out the last two sets. Now when i run and load one document, the List show correctly, and when the Document Tab is closed nothing fails. As soon as i add the next set of Lists, the issue shows up again.

Also when i have only one set of List, where one document closes fine, when i have two documents open and close one the issue also arises.

So basically it looks like whenever i have List created, but are not drawn because of the window configuration (hidden on another Outlook Tab, or Hidden on another Doc/View not active), the closing of the Doc/View, causes some messages to be sent the the hidden trees, but something in them has already been destroyed. Propably because the visible Tree has already been destroyed.

It might have something to do with the way i am deriving and/or creating the List.

Will continue to troubleshoot.

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**Re: Error when being destroyed**

jmw\_ica

25-Dec-11 2:59

- Ok,  
More Info.

I have code for one of the trees to resize its last header to fill the available space for the window. So in the OnSize function i was calling SetColumnWidth, whcih in turn was causing messages into your List and causing the failure. It worked for the List if it was Visible, but if the List was hidden in either another Outlook Tab or another MFC Doc/View, your VERIFY( nCol >= 0 && nCol < m\_ColumnTraits.GetSize() ); caught the GetSize as zero.

By checking to make sure the window is visible before sending the SetColumnWidth the problem is avoided.

```
C#
if (this->IsWindowVisible()) {
    this->SetColumnWidth(1, iCol_1_Width);
}
```



So i think there is no bug with your code!!!

As with most cases, user error!!!

Thanks again for such a great piece of code!!!

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**CGridColumnTraitDateTime - Dosen't Copy/Cut/Paste**

DIGGIDY

23-Nov-11 21:41

Hey Rolf, back again with another request 😊

Would it be possible to implement Copy/Cut/Paste on the datetime column trait?

As an incentive for your time to do this, I will happily pass on a numeric based column trait, capable of handling precision based numbers, which i hacked together from the slightly modified Numeric Edit Control[<sup>^</sup>] project.

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**Re: CGridColumnTraitDateTime - Dosen't Copy/Cut/Paste**

Rolf Kristensen

24-Nov-11 4:44

I have now changed the CDateTimeCtrl-editor so it enables DTS\_APPCANPARSE by default, which allows copy/paste operations.

You are always welcome to create an issue at google code, and present any custom column-trait you have invented.

[Reply](#) · [View Thread](#)

**Re: CGridColumnTraitDateTime - Dosen't Copy/Cut/Paste**

DIGGIDY

8-Dec-11 21:40

Excellent!! I shall grab the latest code.

Also uploaded new trait for you 🤘

Darren 😊

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**Ole Drag&Drop need explicit Revoke**

gordon88

20-Nov-11 12:33

in BOOL CGridListCtrlEx::RegisterDropTarget() there an explicit call to "m\_pOleDropTarget->Register(this)"  
it look to me that it need a call to Revoke() before deleting.

This could be done in CGridListCtrlEx::OnDestroy() before deleting m\_pOleDropTarget.

I use sucessfully the code below

```
C++ Shrink ▲ □
...
//-----
//! Notify that the window has been destroyed
//-----
void CGridListCtrlEx::OnDestroy()
{
    m_FocusCell = -1;
    m_SortCol = -1;
    m_Ascending = false;
    m_UsingVisualStyle = false;
    m_InvalidateMarkupText = true;
//glh++ // COleDropTarget::Revoke() do internal management of it's m_hWnd that can't be replaced by a hard
call to RevokeDragDrop()
    if (m_pOleDropTarget)
        m_pOleDropTarget->Revoke();
//--glh
    delete m_pOleDropTarget;
    m_pOleDropTarget = NULL;

    for(int nCol = GetColumnTraitSize()-1; nCol >= 0 ; --nCol)
        DeleteColumnTrait(nCol);

    if (static_cast<HFONT>(m_CellFont))
        VERIFY( m_CellFont.DeleteObject() );
    if (static_cast<HFONT>(m_GridFont))
        VERIFY( m_GridFont.DeleteObject() );
}
```

```
CListCtrl::OnDestroy();
}...
```

However I don't foresee side effect aside of cleaner methodology since:`~COleDropTarget()` is doing the missing `Revoke()`

---

Gordon

[Reply](#) · [View Thread](#)



Rolf Kristensen

20-Nov-11 16:12

#### **Re: Ole Drag&Drop need explicit Revoke**

Thank you for reporting this, but it has [already been fixed](#)[<sup>^</sup>]

If you get the latest revision from google code, the problem should be fixed.

[Reply](#) · [View Thread](#)



gordon88

20-Nov-11 19:57

#### **Re: Ole Drag&Drop need explicit Revoke**

A really great job done! Synthetic and efficient, No question!

So sorry to say that as implicitly suggested I tryed the latest checkout (nov/2/2011) r377, on googlecode and now it no longer compile on my VS2005.

Reason: In `CGridColumnTraitCombo.cpp` (dated nov/2/2011) in `MESSAGE_MAP` the `ON_CONTROL_REFLECT` were replaced by `ON_CONTROL_REFLECT_EX`.

BUT proto in `CGridColumnTraitCombo.h` (dated May 28 2011) for methods like "`afx_msg void OnCloseUp();`" still use 'void' while `ON_CONTROL_REFLECT_EX` require a `BOOL` as return type.

Same with `OnDateTimeChange` and `void CGridEditorText::OnEnChange()`

Header is ok with cpp code, it's just the use of `_EX` that are the issue.

Maybe it compile with some more recent version of VS but doesn't look sound to me anyway.

As management of control reflection doesn't seems implemented. I remove the '`_EX`' version and it compile. First test seems fine but did I tick up a time bomb ?

Thanks

---

Gordon

[Reply](#) · [View Thread](#)



Rolf Kristensen

20-Nov-11 20:40

#### **Re: Ole Drag&Drop need explicit Revoke**

Nope just retrieve latest version from google code, and it should compile fine.

[Reply](#) · [View Thread](#)



gordon88

21-Nov-11 9:09

#### **Re: Ole Drag&Drop need explicit Revoke**

Perfect now

Thanks!

Gordon

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## ② OLE Drag / Drop conflicting with Rich Edit 2.0

Lee Tunnicliffe

19-Nov-11 0:08

▶ I have an CWinApp application which launches a modal dialog in InitInstance. This dialog contains a CRichEditCtrl ("RichEdit20W") so I call AfxInitRichEdit2().



After this initial dialog has been closed via CDialog::OnOk(), I launch a further dialog which launches two more both containing CGridListCtrlEx's.

This has all worked happily until I added the rich edit to the initial dialog. Now in the create of the further two dialogs containing CGridListCtrlEx's I get a crash in:

```
BOOL CGridListCtrlEx::RegisterDropTarget()
```

specifically the line:

```
if (!m_pOleDropTarget->Register(this))
```

It's saying a hwnd is already attached??

I have remedied this by effectively commenting out this method, so:

```
C#
m_pOleDropTarget = new COleDropTargetWnd<CGridListCtrlEx>;
if (!m_pOleDropTarget->Register(this))
{
    // Was AfxOleInit() called in derived CWinApp::InitInstance() ?
    delete m_pOleDropTarget;
    m_pOleDropTarget = NULL;
    return FALSE;
}
return TRUE;
```

Becomes:

```
C#
//m_pOleDropTarget = new COleDropTargetWnd<CGridListCtrlEx>;
//if (!m_pOleDropTarget->Register(this))
//{
//    // Was AfxOleInit() called in derived CWinApp::InitInstance() ?
//    delete m_pOleDropTarget;
//    m_pOleDropTarget = NULL;
//    return FALSE;
//}
//return TRUE;
return FALSE;
```

Firstly, do you have any idea what may be causing the crash and how I could fix it? Is it some kind of DLL conflict between OLE and the RichEdit libraries?

Secondly, what are the potential implications of modifying this method in this way, I've not had any problems as of yet.

Regards,

Lee

[Reply](#) · [View Thread](#)



### [Re: OLE Drag / Drop conflicting with Rich Edit 2.0](#)

Rolf Kristensen

19-Nov-11 5:36

- Disabling those lines will stop the CListCtrl from supporting drag drop out of the box.
- Maybe you are pointing the two CGridListCtrlEx to the same resource.h ID, which causes it to crash when initializing the second one. Could you check if the first register call succeeds, and the second fail ? And could you check if the m\_hWnd is the same for both CGridListCtrlEx ?

If possible please create an [issue at google code](#)[^]

*modified 18-Nov-11 17:52pm.*

[Reply](#) · [View Thread](#)



### [Re: OLE Drag / Drop conflicting with Rich Edit 2.0](#)

Lee Tunnicliffe

21-Nov-11 19:55

- I think we're slightly at crossed purposes so I've submitted an issue with a small demo project. It's Issue 21.
- Thanks,

Lee

[Reply](#) · [View Thread](#)



### [Re: OLE Drag / Drop conflicting with Rich Edit 2.0](#)

Rolf Kristensen

22-Nov-11 5:09

- Thank you for taking the time to create an issue. I have now fixed the error when dynamically creating CGridListCtrlEx without having called AfxOleInit()
- Just retrieve latest version from google code, and it should no longer crash. Though for better experience then add a call to AfxOleInit() in your InitInstance().

[Reply](#) · [View Thread](#)



### [Re: OLE Drag / Drop conflicting with Rich Edit 2.0](#)

Lee Tunnicliffe

24-Nov-11 18:24

- Thank you very much for you time and effort. You have made my life a lot easier. I did try calling AfxOleInit() before I posted the issue but it seemed not to help at the time.

Lee

[Reply](#) · [View Thread](#)



### [Re: OLE Drag / Drop conflicting with Rich Edit 2.0](#)

gordon88

20-Nov-11 12:44

- See my post above and try implementing the explicit Revoke() in CGridListCtrlEx::OnDestroy().

 In fact there could be side effect not to do it explicitly.  
Also I didn't figure out what happens if code for any reasons didn't make a call to OnDestroy().

Sugestion: If parent window don't do it (SubClassing issue ?), before any deletion of the CGridListCtrlEx do  
mygrid->SendMessage(WM\_CLOSE,0,0);  
(be carefull with that)

Gordon

[Reply](#) · [View Thread](#)



### My vote of 5

 vivisect

8-Nov-11 18:05

 Good!

 [Reply](#) · [View Thread](#)



### Re: My vote of 5

 liweibo

5-Jul-13 14:22

 这个问题提得很好

 [Reply](#) · [View Thread](#)



### Cut, Copy and Paste from mouse actions bug

 DIGGIDY

3-Nov-11 0:31

 Cut, Copy and Paste into another cell from mouse actions fails to update the cell when the edit mode exits, it reverts back to the original value.

 Using the key presses Ctrl-C, Ctrl-X and Ctrl-V all work fine.

Here are the step to reproduce the error:

1. Enter into the edit mode of a cell
2. Cut/Copy text using mouse actions from that cell
3. Enter into the edit mode on another cell below
4. Paste using the mouse action into that cell
5. Hit enter or click away to end the edit mode
6. Pasted cell revert back to its original value \*\* FAIL \*\*

Any thoughts? I can't find any code which handles mouse copy/cut/paste commands.

Cheers,  
Darren

[Reply](#) · [View Thread](#)



### Re: Cut, Copy and Paste from mouse actions bug

 Rolf Kristensen

3-Nov-11 4:39

 There was a bug in the logic to detect whether any modifications were performed in the cell editor.

 I have updated the source code at google-code. Thank you for telling.

[Reply](#) · [View Thread](#)



### Re: Cut, Copy and Paste from mouse actions bug

 S.Anastasiou

2-Feb-12 22:17

 Still doesn't work. I have the exact same problem. I downloaded the demo from here :

 [http://code.google.com/p/cgridlistctrlex/\[^\]](http://code.google.com/p/cgridlistctrlex/)

I guess this is the latest version right?

[Reply](#) · [View Thread](#)



#### **Re: Cut, Copy and Paste from mouse actions bug**

 Rolf Kristensen

3-Feb-12 1:59



 S.Anastasiou wrote:



Still doesn't work. I have the exact same problem



The demo application in this article and the at Google Code, are both ver. 1.9 of the code and both contains the bug.

I have still not released ver. 2.0 of the demo application.

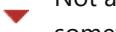
[Reply](#) · [View Thread](#)



#### **sorting is case sensitive**

 DIGGIDY

26-Oct-11 21:57



Not a major problem as i've modified the code to do a lowercase comparision, but maybe worth looking into applying something similar or giving an option to set case sensitive sorting.



Dam fine control though, really enjoyed working with it. 😊

[Reply](#) · [View Thread](#)



#### **Re: sorting is case sensitive**

 Rolf Kristensen

3-Nov-11 4:42



I have changed so the text comparison is now case insensitive.



I have updated the source code at google-code.

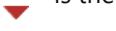
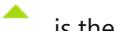
[Reply](#) · [View Thread](#)



#### **CheckBox**

 ricpal

13-Oct-11 15:13



is there an event when change the checkbox ?



[Reply](#) · [View Thread](#)

5.00/5 (1 vote)

 Rolf Kristensen

13-Oct-11 18:03

 **Re: CheckBox**

- Not sure how you have implemented the checkbox.
- \* If you have implemented it using LVS\_EX\_CHECKBOX, then you will receive a LVN\_ITEMCHANGED event.
  - \* If you have implemented it using column traits, then you will receive a LVN\_ENDLABELEDIT event. It will automatically call CGridListCtrlEx::OnEditComplete()

 Reply · View Thread5.00/5 (1 vote)   **Re: CheckBox** seu\_dcmilan

14-May-12 17:59

- It really response the LVN\_ENDLABELEDIT message, but still I can't get the position of the influenced cell. 

 Reply · View Thread **Re: CheckBox** seu\_dcmilan

14-May-12 18:45

-  pDispInfo->item.iSubItem;
-  pDispInfo->item.iItem;
-  solved 

 Reply · View Thread **Re: CheckBox** Andy\_Zhang

8-Nov-12 14:30

- i just feel on LVN\_ENDLABELEDIT, the checkbox is just start to change check state, so there get cell image is always old status, one should know this sque when he inhirt this event 

 Reply · View Thread **Thanks, my vote of 5** yjred

7-Oct-11 11:12

- It's so good, thanks!   

 Reply · View Thread **How would you centre a checkbox in a column** DIGGIDY

6-Sep-11 17:39

- I have a checkbox column, but I would like to position the checkbox in the centre of the column, not its default left justification.

 Any thoughts ?

Cheers,  
Darren

 Reply · View Thread **Re: How would you centre a checkbox in a column** Rolf Kristensen

6-Sep-11 17:47

- The CGridListCtrlEx gets many features from CListCtrl, but also some limitations. [Unable to change alignment of sub item image](#) [^]

Guess if you really need a centered checkbox, then you can create your own Column-Trait that can draw a checkbox in the center. Or choose a different CListCtrl class, of the many ones available here at CodeProject 

 Reply · View Thread1.00/5 (1 vote)  

**💡 add a margin left of the icon image**

steveh2112

10-Aug-11 9:02

hi, a simple question,

how can i get a couple of pixels space left of the icon so it doesn't look so bunched up against the left side of the window?

thanks,

[Reply](#) · [View Thread](#)



Rolf Kristensen

10-Aug-11 14:50

Think that is a limitation of the CListCtrl. The easy work around is to reserve some pixels in the icon to work as margin. The hard workaround is to implement the margin by custom drawing / owner drawing.

[Reply](#) · [View Thread](#)

**📄 Re: add a margin left of the icon image**

steveh2112

10-Aug-11 15:57

can i make the icon wider but not taller then, say 20x16? i'm under the impression icons have to be square and don't want to make the whole thing taller

[Reply](#) · [View Thread](#)

**📄 Re: add a margin left of the icon image**

Rolf Kristensen

10-Aug-11 16:46

I think the icon must be a square, so if you increase the icon to 17x17 and then move the image one pixel to the right, then you will have your margin.

[Reply](#) · [View Thread](#)

**📄 Re: add a margin left of the icon image**

steveh2112

10-Aug-11 17:25

apparently that doesn't work, i made the icons 18x18 and moved the real image to the right of the 18x18

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but it displays exactly the same as the 16x16

maybe i'm missing something? if not, oh well, its not a big deal

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**📄 using inside a CDockablePane**

steveh2112

8-Aug-11 21:50

its pretty easy to put this control inside a CDockablePane

you just have to remember, on the docking pane's OnCreate when you create the CGridListCtrlEx you need to specify LVS\_REPORT in the style

C#

```
// Create output panes:
const DWORD dwStyle = LBS_NOINTEGRALHEIGHT | WS_CHILD | WS_VISIBLE | LVS_REPORT | LVS_ALIGNLEFT | WS_BORDER | WS_TABSTOP;
if (!m_wndTackMan.Create(dwStyle, rectDummy, this, 2))
{
    TRACE0("Failed to create output windows\n");
```

```

    return -1;      // fail to create
}

```

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## ⌚ adding other none text based control types

steveh2112

7-Aug-11 17:58

◀ hi, i just created a class CGridColumnTraitSliderCtrl

⌚ as the name suggests its encapsulates a CSliderCtrl

i create the slider in OnEditBegin and when i click the cell that uses CGridColumnTraitSliderCtrl, it draws the slider and works ok, i can even drag the slider and everything, great!

BUT, i want the slider to draw when i create the list and be persistent on all rows (same column on each row of course)

can you please offer some advice what i need to do?

thanks

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## 🕒 Re: adding other none text based control types

Rolf Kristensen

7-Aug-11 21:34

◀ There is no easy way to do this in CGridListCtrlEx. I would probably just show the value selected with the sliderctrl.

⌚ But maybe you can extend this CListCtrl and get the behavior you want:

[An MFC-CListCtrl derived class that allows other 'controls' to be inserted into a particular cell](#) [^]

[Reply](#) · [View Thread](#)



## 📁 Re: adding other none text based control types

steveh2112

7-Aug-11 23:10

◀ CGridListCtrlEx is great for what i need, it already has the editable text and combo box objects in a scrollable list. i just need to add a slider and its perfect.

⌚ anyhow, i'm making some progress, i just need to find a good place to call the Create method for the slider in row and i think its done.

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## 📁 Re: adding other none text based control types [modified]

steveh2112

8-Aug-11 19:33

◀ hi again, i did get it working, it's not too difficult but maybe not too clean

⌚ i create the sliders (one for each row) in the first call to OnPaint and then they show up fine and have persistence.

i save the CWnd\* returns from each call to CSliderCtrl::Create and use these in OnBeginEdit

in OnBeginEdit, i don't create anything, simply return the CWnd\* associated with the particular row

it seems to work ok, just need to fix it when user resizes and moves column position

i can send you the code if you like

thanks for a great project BTW, it's saved me weeks of programming and is pretty simple to build and use

compared some other extended list controls on this site

also when a row is selected the light blue background goes under the slider which doesn't look very nice

steve

*modified on Monday, August 8, 2011 9:24 AM*

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#### Re: adding other none text based control types

Rolf Kristensen

8-Aug-11 19:44

Glad you like the CGridListCtrlEx.



You are very welcome to upload your code by creating "New Issue" at [Google Code](#)[^]

I guess when creating a CSliderCtrl for each row, then there comes an overhead if a large number of rows.

How do you handle scrolling, when there are many rows ? How do you handle sorting of rows, when clicking column header ?

Reply · View Thread



#### Re: adding other none text based control types [modified]

steveh2112

8-Aug-11 19:57

in my app there is an absolute maximum of 15 rows so overhead isn't an issue but generally maybe a problem.



vertical scrolling seems to work ok except the slider position is wrong just after its exposed then when it gets focus, it jumps to the right place. haven't tried horizontal scroll yet.

also when a row is selected the light blue background goes under the slider which doesn't look very nice

i still have a bit of work to do to make it clean, but at least i have a good starting point

steve

*modified on Monday, August 8, 2011 9:35 AM*

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#### Multi Line Column Titles?

PMG21

5-Aug-11 23:12

Does CGridListCtrlEx support column titles split over multiple lines?

Reply · View Thread



#### Re: Multi Line Column Titles?

Rolf Kristensen

5-Aug-11 23:49

Nope but if you implement [your own CHeaderCtrl](#)[^], then it can be used together with CGridListCtrlEx



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#### Potential problem in vc6 [modified]

mimsdev

4-Aug-11 17:31

Hi,  
Nice job.



I notice this trace in vc6 debugger at exit:  
COleDropTarget::Revoke not called before destructor --  
may cause RIPs under debug Windows.

Can be resolved by adding a virtual destructor which call Revoke in template declaration of CGridListCtrlEx.cpp file

```
C++ ✖  

template<class T>
class COleDropTargetWnd : public COleDropTarget
{
    ...
    virtual ~COleDropTargetWnd()
    {
        if (NULL != m_pWnd)
            Revoke();
    }
    ...
}
```

Enjoy

Computer is beautifull at night 😊

modified on Thursday, August 4, 2011 8:37 AM

Reply · View Thread ↗ 📌

#### Re: Potential problem in vc6

Rolf Kristensen

5-Aug-11 5:52

Thank you telling. I have now applied your fix to [Google Code](#)[^]

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#### My vote of 5

calmman.yang

21-Jul-11 22:13

easy to extend and easy use. thanks author, hope your new wonderful version

Reply · View Thread ↗ 📌

#### Different ComboBoxes for each row

kaban\_

8-Jul-11 23:55

Hallo,

it's possible to insert different combo boxes (1 combo box for each cell) within the scope of one column? Thank you.

Reply · View Thread ↗ 📌

#### Re: Different ComboBoxes for each row

Rolf Kristensen

9-Jul-11 2:55

I would attempt to fill the ComboBox dynamically depending on what row was clicked:

Example of how to fill the ComboBox dynamically[^]

Reply · View Thread ↗ 📌

#### CListCtrl

Stanciu Vlad

31-May-11 1:57

Great job!

5 stars from me.

Although, the word CListCtrl managed to bring a faint smile on my face (just check custom answers on the surveys). 😊

I have no smart signature yet...

[Reply](#) · [View Thread](#)



## Hi! how to modify listctrl style on runtime?

txbb

19-May-11 15:10

m\_ListCtrl.ModifyStyle(LVS\_TYPEMASK,LVS\_ICON);

this does not work fine.

[Reply](#) · [View Thread](#)



## Re: Hi! how to modify listctrl style on runtime?

Rolf Kristensen

19-May-11 15:53

The CGridListCtrlEx only supports LVS\_REPORT view, since this is the only view type that resembles a grid.

Reply · [View Thread](#)



## Re: Hi! how to modify listctrl style on runtime?

txbb

19-May-11 15:59

thanks anyway

Reply · [View Thread](#)



## How to let the cell display edit control after call "InsertColumnTrait"?

txbb

21-Mar-11 14:54

hi,how to let the cell display edit control after call "InsertColumnTrait"?

thanks 😊

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## Re: How to let the cell display edit control after call "InsertColumnTrait"?

Rolf Kristensen

21-Mar-11 16:49

The cell editor is by default activated when clicking a cell using the mouse, or moving the focus to a cell using the keyboard and presses the F2-key.

By calling the method CGridListCtrlEx::EditCell(), then you activate the cell editor based on whatever event you like.

Reply · [View Thread](#)



## Re: How to let the cell display edit control after call "InsertColumnTrait"?

txbb

21-Mar-11 17:43

thanks ! 😊

Reply · [View Thread](#)



## Sort [modified]

Pixbyte

11-Mar-11 17:28

Hi,

 I have another question: Sorting.

Is it possible to disable the sorting? I want that I can fill the list without sorting, and later the user can sort what he want. But currently the items are sorted after I insert items to the list.

Update: What is the major sort column by default? Do not really understand the sort order I have.

Update: Is it possible to make a column always visible, means not autoscroll or similar. I want to avoid that the user can remove a special columns out of the header popup.

Ingo

*modified on Friday, March 11, 2011 6:41 AM*

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#### **Re: Sort**

 Rolf Kristensen

11-Mar-11 19:27

  Pretty sure there is no automatic sorting in the CGridListCtrlEx:

- You can try to use the debugger and create a breakpoint in CGridListCtrlEx::SortColumn(), and see who calls the sort-method.
- Remember when using InsertItem then you provide an insert index, is this initialized properly ?
- Else create an issue at google code with a reproducible case.



There is no default major sort column.

To make a column always visible without it being resizable, then you can change column trait state:



```
CGridColumnTrait* pTrait = new CGridColumnTraitEdit;
pTrait->GetColumnState().m_AlwaysVisible = true;
pTrait->GetColumnState().m_MinWidth = 100;
m_ListCtrl1.InsertColumnTrait(nCol, title.c_str(), LVCFMT_LEFT, 100, nCol, pTrait);
```

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#### **Re: Sort**

 Pixbyte

12-Mar-11 8:19

  Hi,



 any thanks for the support. As you suggest, I checked the index value and I overwrote it each time. Now with a fix, the sort is as expected.

What about checkboxes. How I can receive a click on the checkbox, with the common calls it only work if I click into the column/text but not on the checkboxes.

Ingo

[Reply](#) · [View Thread](#)



#### **Re: Sort**

 Rolf Kristensen

12-Mar-11 15:03

Like the article says then when using checkboxes for the subitems, then it is actually using the subitem image. This means that when CGridListCtrlEx::OnEditComplete() is called then the chosen image index is returned.

For the label column and using LVS\_EX\_CHECKBOXES, then one can use LVN\_ITEMCHANGING and CListCtrl::GetCheck().

[Reply](#) · [View Thread](#)



## ComboBox ItemData?

Pixbyte

8-Mar-11 21:33

Hi,  
I am really missing the use of ItemData of the ComboBoxTrait. This is one of the most important things in handling data.  
How can I use this with the Grid?  
Ocrana

[Reply](#) · [View Thread](#)



## Re: ComboBox ItemData?

Rolf Kristensen

9-Mar-11 3:03

There is support for itemdata in the CGridColumnTraitCombo  
You can call CGridColumnTraitCombo::AddItem() or CGridColumnTraitCombo::LoadList() and you can provide ItemData.

You can override CGridListCtrlEx::OnEditComplete() and the parameter LV\_DISPINFO\* pLVDI will contain the selected itemdata in pLVDI->item.lParam.

[Reply](#) · [View Thread](#)



## Re: ComboBox ItemData?

Pixbyte

9-Mar-11 5:04

ok, but I have really no idea how to work with independent data in your grid. Like, how to insert Items to a ComboBox after called "InsertItem", means how to use the grid with dynamic data and no fixed/static data.  
Ocrana

[Reply](#) · [View Thread](#)



## Re: ComboBox ItemData?

Rolf Kristensen

9-Mar-11 5:16

If the contents of the combobox should be provided dynamically (not the same for all rows), then you can fill the ComboBox when it is created for cell editing.

Override CGridListCtrlEx::OnEditBegin() to fill the ComboBox and set the current selection.

Either perform a dynamic-cast of the columntrait to see if it is a CGridColumnTraitCombo, then use CGridColumnTraitCombo::LoadList(). Or perform a dynamic-cast of the returned CWnd-editor to see if it is a CComboBox and do what you feel like.

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1.00/5 (1 vote)



## Re: ComboBox ItemData? [modified]

Pixbyte

9-Mar-11 20:25

Ok, now I have a working list that is filled dynamically. But I have some issues:

1.) If I select a new item from the combobox, it is selected but after the combobox lost the focus it is empty again.

2.) I use "AddItem" where the first value is the "itemData". Is it ok, that I use it with real ItemData or is this the expected Index? Sample: I add 1,4,6,22,45

Updated: It does not work as expected. All Combos in the Column contain the same data.

```
CGridColumnTrait* pTrait = cbDVDCopyTitleList.GetCellColumnTrait(index,3);
CGridColumnTraitCombo* pCombo = dynamic_cast<CGridColumnTraitCombo*>(pTrait);

if(pCombo != NULL){
//MessageBox(L"Yes ComboTrait");
if( lpDVDTransfer->GetNumVTSLang(lpVts) > 0 )
{
for( int j = 0; j < lpDVDTransfer->GetNumVTSLang(lpVts); j++ )
{
lpDVDTransfer->GetVTSLangDesc(lpVts, j, myDesc, 256);
pCombo->AddItem(j,myDesc);

}
}
}
```

Ingo

*modified on Wednesday, March 9, 2011 8:49 AM*

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10-Mar-11 1:35

#### [Re: ComboBox ItemData?](#)

Rolf Kristensen

The CGridColumnTraitCombo::AddItem() is used for adding static items, that will be displayed every time the ComboBox is displayed. Instead use CGridColumnTraitCombo::LoadItems() or modify the CComboBox directly.

Not sure I understand the sentence "after the combobox lost the focus it is empty again". If you don't store the values in the CListCtrl, then you need to override CGridListCtrlEx::OnEditComplete() and update the datamodel. Then when the CGridListCtrlEx refreshes from the datamodel it will display the text value provided by the datamodel.

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#### [Re: ComboBox ItemData?](#)

Pixbyte

10-Mar-11 5:43

I tried like you wrote, but I always get an assert at: VERIFY(m\_pComboBox!=NULL);  
 //CGridColumnTraitCombo Line200



Ingo

My code:

```
CWnd* CGridListCtrlEx::OnEditBegin(int nRow, int nCol, CPoint pt)
{
CGridColumnTrait* pTrait = GetCellColumnTrait(nRow, nCol);
if (pTrait==NULL)
return NULL;

if (pTrait->IsCellReadOnly(*this, nRow, nCol, pt))
return NULL;

CGridColumnTraitCombo* pComboEditor = dynamic_cast<cgridcolumntraitcombo*>(pTrait);
if (pComboEditor != NULL)
{
//Ok, is Combobox
```

```

CSimpleMap<int, cstring> comboList;
comboList.Add(1,L"Eins");
comboList.Add(2,L"Zwei");
comboList.Add(3,L"drei");

pComboEditor->LoadList(comboList,1);
}

return pTrait->OnEditBegin(*this, nRow, nCol, pt);
}

```

[Reply](#) · [View Thread](#)

10-Mar-11 14:50

**Re: ComboBox ItemData? [modified]**

Rolf Kristensen

The CComboBox is only created when the CGridColumnTrait::OnEditBegin() is called

Remember not to make correction to the CGridListCtrlEx classes, but to inherit and override the intended methods.

```

CWnd* CMyGridListCtrlEx::OnEditBegin(int nRow, int nCol, CPoint pt)
{
    CWnd* pEditor = CGridListCtrlEx::OnEditBegin(nRow, nCol, pt);
    if (pEditor!=NULL)
    {
        //Ok, we have an editor
        CGridColumnTraitCombo* pComboTrait = dynamic_cast<CGridColumnTraitCombo*>(

GetCellColumnTrait(nRow, nCol) );
        if (pComboTrait!=NULL)
        {
            //Ok, we have a Combobox column
            CSimpleMap< int, CString > comboList;
            comboList.Add(1,L"Eins");
            comboList.Add(2,L"Zwei");
            comboList.Add(3,L"drei");

            pComboTrait->LoadList(comboList,1);
        }
    }
    return pEditor;
}

```

*modified on Thursday, March 10, 2011 7:22 AM*[Reply](#) · [View Thread](#)

5.00/5 (1 vote)



10-Mar-11 19:18

**Re: ComboBox ItemData?**

Pixbyte

Ok, I understand now. I made everything as expected now and it works. But I have a problem with the ComBobox with Style CBS\_DROPDOWNLIST.

Right after OnEdit starts, the selected item is gone. Seems that the "ComboBox" Control overdraw the text in the Cell.

Can you give me a tip how to solve this? Cause It is not allowed to edit the data, just to select a defined item.

(Not allowed in the presented data)

Ingo

[Reply](#) · [View Thread](#)
 **Re: ComboBox ItemData?**

Rolf Kristensen

10-Mar-11 19:25

Would it be possible for you to create an [issue](#)[^] and upload a demo application that demonstrates the problem ?

 [Reply](#) · [View Thread](#)

 **Re: ComboBox ItemData?**

Pixbyte

11-Mar-11 0:14

ok, I have created issue 20. I hope you understand the problem.

 [Reply](#) · [View Thread](#)

 **Re: ComboBox ItemData?**

Rolf Kristensen

11-Mar-11 4:07

The problem is that you call LoadItems() without specifying what item to select in the provided list. The second parameter should be index in the list to select.

Think you need to decide whether the datamodel is located in the CListCtrl by using CListCtrl::SetItemText(), or if the CListCtrl retrieves items from the datamodel by overriding CGridListCtrlEx::OnDisplayCellText().

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 **CGridListCtrlEx - Outline Border .. Problem.. [modified]**

Jae-Hu Chae

4-Mar-11 9:17

Thanks good job...



I found - Outline Border problem

1. Control creation -> CGridListCtrlEx Outline Border is Not Displayed
2. Row Insert -> CGridListCtrlEx Outline Border is Not Displayed. too
3. More Row Insert -> (ScrollBar Shown ) -> CGridListCtrlEx Outline Border is Displayed

Why cause this problem ?

I want that ListCtrl is Always Outline Border displayed...

(my enviroment : using googlecode CGridListCtrlEx, vs2010, windows7 )

*modified on Thursday, March 3, 2011 9:28 PM*

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[Re: CGridListCtrlEx - Outline Border .. Problem..](#)

Rolf Kristensen

4-Mar-11 14:09

Not sure I understand the problem, could you create a demo project where the problem can be seen ? Maybe also create a screenshot. [Create Issue with project attached][^]

Reply · View Thread

[Re: CGridListCtrlEx - Outline Border .. Problem.. \(Very Sorry. I mistake\)](#)

Jae-Hu Chae

4-Mar-11 18:47

Very sorry.  
I mistake.

Adding Code My Project ...

```
Invalidate();
```

Thanks!

Reply · View Thread

[good job guys. if add TreeCtrl features ,it will be more strong](#)

txbb

3-Feb-11 20:51

good job guys. i will try

Reply · View Thread

[SetCellMargin repeat call VERIFY\( m\\_CellFont.CreateFontIndirect\(&lf\) \); error!](#)

sheds

9-Jan-11 10:48

m\_CellFont no DeleteObject

in void CGridListCtrlEx::OnDestroy()

add

```
m_CellFont.DeleteObject();
m_GridFont.DeleteObject();
```

that OK.

Reply · View Thread

[Re: SetCellMargin repeat call VERIFY\( m\\_CellFont.CreateFontIndirect\(&lf\) \); error!](#)

Rolf Kristensen

9-Jan-11 16:49

I have updated the Google Code with your bug fix. Thank you for reporting 😊

Reply · View Thread

[How to disable the whole row](#)

StasON

29-Dec-10 17:00

Dear Sir,

I would like to have the following functionality: if the first column (with combobox) chosen as 0 - the whole row is disabled, except this first column of course. Please suggest, how it may be obtained? It's also a question how to reload the content of adjacent combo-boxes depending of choice in some another combo-box in the row.

Reply · View Thread



**Re: How to disable the whole row**

Rolf Kristensen

29-Dec-10 17:58

You can override CGridListCtrlEx::OnEditBegin() to control whether a column is editable, depending on the row state.



Not sure how you fill the combo-boxes, but I suggest you refill them dynamically in CGridListCtrlEx::OnEditBegin(). This will allow you to control their content, depending on the row state.

If you need to update the values of the other cells depending on a combobox selection, then you do can do it two ways:

- \* If you are using callback or owner data, then just override CGridListCtrlEx::OnEditComplete() and invalidate the entire row and ensure CGridListCtrlEx::OnDisplayCellText() provides the updated values for the row state change.
- \* If you are storing the datamodel inside the specialized CGridListCtrlEx using SetItemText(), then you need to override CGridListCtrlEx::OnEditComplete() and call SetItemText() for all cells when row state changes.

You should consider moving the control of the row state into a seperate class, that your specialized CGridListCtrlEx depends upon.

[Reply](#) · [View Thread](#) **My vote of 5**

fanium

13-Dec-10 23:54

Super Excellent work! and Rolf is continually updating this wonderful control.

[Reply](#) · [View Thread](#) **CGridColumnManagerProfile**

transparency

1-Dec-10 13:53

Hi Rolf,

I see the interface in the class, and think it's great!!

But I have a little confused about how the CGridColumnManagerProfile is working?  
Could you make any explain for how to do it?

Thank you in advance. 😊

[Reply](#) · [View Thread](#)

3.78/5 (2 votes)

 **Re: CGridColumnManagerProfile**

Rolf Kristensen

1-Dec-10 18:05

The purpose of CGridColumnManagerProfile to persist the column configuration (Column Visible, Column Width, etc.). This allows the CGridListCtrlEx to restore the column configuration at startup.



By default the CGridColumnManagerProfile will store the configuration in the registry, but one can also supply a custom persistence layer.

See the demo application code (CGridListCtrlExDlg.cpp) for an example of how to setup persistence of the column configuration,

[Reply](#) · [View Thread](#) **Re: CGridColumnManagerProfile**

Rolf Kristensen

31-May-11 0:11

I have now with ver. 1.9 removed this class, and instead implemented a LoadState() / SaveState() method on CGridListCtrlEx.



The CGridColumnManagerProfile had way too much knowledge of what was going on inside CGridListCtrlEx. After

working on another MFC project, then I saw it was common practise to implement LoadState() / SaveState() methods on the MFC control directly.

[Reply](#) · [View Thread](#)



#### Re: CGridColumnManagerProfile

transparency

31-May-11 22:55

Great thanks,  
this solution looks much simpler for me 😊))

[Reply](#) · [View Thread](#)



#### Sorting on Numbers

tzang

9-Sep-10 13:58

Hi,

When sorting, is there a way to call this function in **CGridListCtrlEx::OnHeaderClick()** because I want to sort some columns by numbers?

**void CGridColumnTraitText::SetSortFormatNumber(bool bValue)**

Thanks

Joo



[Reply](#) · [View Thread](#)



#### Re: Sorting on Numbers

Rolf Kristensen

9-Sep-10 15:07

Usually one will call this method while inserting the column trait for the column.

Or one will create a full-blown column chooser where one can modify the attributes of the columntrait for each column. The column choose could then be activated by right-clicking in the column-header.

But you can retrieve the column trait by calling GetColumnTrait(int nCol) and then do a dynamic\_cast to CGridColumnTraitText.

[Reply](#) · [View Thread](#)



#### Re: Sorting on Numbers

tzang

9-Sep-10 17:30

Thank you for your prompt reply

This is what I did

```
CGridColumnTraitText* pTraitSort;
switch (nCol)
{
case 1:
    pTraitSort = (CGridColumnTraitText*) GetColumnTrait(1);
    pTraitSort->SetSortFormatNumber(true);
case 2:
    pTraitSort = (CGridColumnTraitText*) GetColumnTrait(2);
    pTraitSort->SetSortFormatNumber(true);
case 3:
    pTraitSort = (CGridColumnTraitText*) GetColumnTrait(3);
    pTraitSort->SetSortFormatNumber(true);
}
```

It works fine with me

[Reply](#) · [View Thread](#)



## Fixed a bug

csghh

7-Aug-10 9:09

- 列表中有许多列,我隐藏其中若干列.
- 重启程序时发现列显示不正常,某些本来隐藏的列又处于显示状态.
- 经过调试,发现问题所在,已经修复如下:

```
void CGridColumnManagerProfile::LoadConfiguration(CGridListCtrlEx& owner, CGridColumnConfig& config)
{
...
...
...

// Did we find any visible columns in the saved configuration ?
if (nColOrder < nColCount)
{
// All remaining columns are marked as invisible
for(int i = 0; i < nColOrder; ++i)
{
...
}
...
}
...
}
```

改为:

```
void CGridColumnManagerProfile::LoadConfiguration(CGridListCtrlEx& owner, CGridColumnConfig& config)
{
...
...

// Did we find any visible columns in the saved configuration ?
if (nColOrder < nColCount)
{
// All remaining columns are marked as invisible
int index = nColOrder;
for(int i = 0; i < index; ++i)
{
...
}
...
}
...
}
```

[Reply](#) · [View Thread](#)

5.00/5 (1 vote)

robustwell

27-Sep-10 20:32

## Re: Fixed a bug

- 行提示信息显示乱码, 怎么处理?

[Reply](#) · [View Thread](#)

[Re: Fixed a bug](#)

riverzhang555

26-Aug-11 15:29

在CGridListCtrlEx::OnToolNeedText 函数中用 MultiByteToWideChar() 代替 mbstowcs\_s(), 貌似mbstowcs\_s()对中文支持的不好。

[Reply](#) · [View Thread](#)



Rolf Kristensen

30-Sep-10 4:25

[Re: Fixed a bug](#)

csghh wrote:

The list has many columns, I hide some of them out.

Restart the program and found out display is not normal, and some had hidden out in the display.

After debugging and found that the problem has been fixed as follows:

Thank you for reporting this bug, and sorry about the late reply.

I have updated the source code at google-code

-Rolf

[Reply](#) · [View Thread](#)



Lee Tunnicliffe

22-Jul-10 1:47

[Creating CGridListCtrlEx, ASSERT\(m\\_hWnd == NULL\) wincore.cpp line 329](#)

Hi Rolf,

I have been happily using CGridListCtrlEx now for 4 months and have found it to be excellent.

I have recently written another CGridListCtrlEx subclass in the usual way and Created the CGridListCtrlEx in the OnInitDialog() method of my dialog as per usual. However, this time I have an assert going off in wincore.cpp line 329 telling me I have already attached the CGridListCtrlEx to another parent window. This is not the case. I have pretty much identical code working elsewhere. Do you have any idea what might be going wrong?

Lee

[Reply](#) · [View Thread](#)



Rolf Kristensen

22-Jul-10 4:13

[Re: Creating CGridListCtrlEx, ASSERT\(m\\_hWnd == NULL\) wincore.cpp line 329](#)

Please create an issue at [Google Code](#)[^] and attach a demo project.

[Reply](#) · [View Thread](#)



Rolf Kristensen

22-Jul-10 4:25

[Re: Creating CGridListCtrlEx, ASSERT\(m\\_hWnd == NULL\) wincore.cpp line 329](#)

Maybe the problem is that the dialog contains duplicate resource-ids.

This can be caused when there are multiple controls in the dialog with the same resource id.

Check your resource.h to see whether the defines used in the dialog are not set to the same number.

[Reply](#) · [View Thread](#)



 **Re: Creating CGridListCtrlEx, ASSERT(m\_hWnd == NULL) wincore.cpp line 329**  Lee Tunnicliffe 22-Jul-10 18:11

 Hi Rolf, 

 Thank you for your reply. I am going to try making all of the resource id's in my project unique (there are a few duplicates). If that doesn't work I may try adding a mini-project to Google code to demonstrate the problem as per your instructions.

Lee

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 **Re: Creating CGridListCtrlEx, ASSERT(m\_hWnd == NULL) wincore.cpp line 329**  Lee Tunnicliffe 23-Jul-10 1:03

 Hi Rolf, 

 I'm still having quite a lot of trouble with this. I have made sure all resource ids (there are a lot of them) through the project are unique which needed doing really.

It would be quite a lot of effort for me to post a demo project onto Google code (because my project is so huge) but if that's what it takes I'll have to do that.

The only thing that I can see that is different about this particular CGridListCtrlEx compared to the others is it's parent dialog isn't created from an MFC CDialog class. It is itself a CDialog but it's created from a standalone C++ class with no inheritance, it has a parent window of AfxMainWindow. I can still see the Dialog and add other dynamic controls to it e.g. a CButton, it's only when I try to add my CGridListCtrlEx to it that I have this problem. Can you shed anymore light on this please? I'm getting pretty desperate now.

P.S. I can add this particular CGridListCtrlEx to another CDialog that is created from a CDialog but has a parent of DesktopWindow.

Lee

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 **Re: Creating CGridListCtrlEx, ASSERT(m\_hWnd == NULL) wincore.cpp line 329**  Rolf Kristensen 23-Jul-10 4:52

  It is okay have non-unique resource ids as long as they don't reside in the same dialog. So multiple dialogs can have controls with the same resource id number, without it being an issue. 

 I think you have lost me with how your window is being created. I think that I understand that you create the CGridListCtrlEx dynamically, and that you also have created the parent dialog window dynamically without using the CDialog class. This is not the usual way I code in MFC.

Think you need to give me a demo project to look at if you want me to help.

P.S. What happens if you replace the CGridListCtrlEx with a standard CListCtrl ?

[Reply](#) · [View Thread](#)  

 **Re: Creating CGridListCtrlEx, ASSERT(m\_hWnd == NULL) wincore.cpp line 329**  9874675 25-Jan-11 7:33

 Hi,

 I'm getting the same ASSERT when trying to create the control using CGridListCtrlEx::Create(), using a CView as the parent window. Has this scenario been tested?

The problem is fixed by commenting out RegisterDropTarget(); in CGridListCtrlEx::OnCreateStyle().

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**Re: Creating CGridListCtrlEx, ASSERT(m\_hWnd == NULL)  
wincore.cpp line 329**

Rolf Kristensen

25-Jan-11 14:05

Please create an issue at [Google Code](#) and attach a demo project.



Reply · View Thread



**Re: Creating CGridListCtrlEx, ASSERT(m\_hWnd == NULL)  
wincore.cpp line 329**

9874675

3-Feb-11 14:11

Took me a while but I finally tracked it down to AfxOleInit(). The following code will fail:



```
//put this code in OnInitDialog
AfxOleInit(); //this causes CGridListCtrlEx::Create() to fail
CGridListCtrlEx* plist = new CGridListCtrlEx;
CRect rect(0,0,100,100);
plist->Create(WS_CHILD|WS_VISIBLE|LVS_SHOWSELALWAYS|LVS_REPORT, rect, this, 45678);
```

Is this enough to go on or do you prefer the whole project at Google Code?

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**Re: Creating CGridListCtrlEx, ASSERT(m\_hWnd == NULL)  
wincore.cpp line 329**

Rolf Kristensen

3-Feb-11 14:19

In the demo application then I already have a AfxOleInit() call in the CGridListCtrlExApp::InitInstance()



Think I need a demo application to see what is happening (Call stack, variables etc.)

Reply · View Thread



**Re: Creating CGridListCtrlEx, ASSERT(m\_hWnd == NULL)  
wincore.cpp line 329**

9874675

4-Feb-11 7:56

- ▲ The demo project does not use CGridListCtrlEx::Create() to create the control.  
 ▼ Even in the demo, you can reproduce the issue by adding these 3 lines to the end of  
 CGridListCtrlExDlg::OnInitDialog:

```
OleInitialize(NULL); //can't call AfxOleInit here because it's already been called in
InitInstance
CGridListCtrlEx* plist = new CGridListCtrlEx;
plist->Create(WS_CHILD|WS_VISIBLE|LVS_SHOWSELALWAYS|LVS_REPORT, CRect(0,0,100,100), this,
45678);

return TRUE; // return TRUE unless you set the focus to a control
}
```

Note the same issue does not occur with CListCtrl.

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□ **Re: Creating CGridListCtrlEx, ASSERT(m\_hWnd == NULL)  
wincore.cpp line 329**

 Rolf Kristensen

4-Feb-11 15:20

- ▲ Added the lines described, and started the demo application in VS2005 debugger, and no  
 ▼ ASSERT's was triggered.  


This happened using CGridListCtrlEx trunk from google code.

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□ **Re: Creating CGridListCtrlEx, ASSERT(m\_hWnd == NULL)  
wincore.cpp line 329**

 9874675

8-Feb-11 6:13

- ▲ I've confirmed the problem does occur using CGridListCtrlEx trunk from google code with  
 ▼ VS2008. Are you able to check using that version?  


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□ **Re: Creating CGridListCtrlEx, ASSERT(m\_hWnd == NULL)  
wincore.cpp line 329**

 Rolf Kristensen

8-Feb-11 14:40

- ▲ Sadly I don't have access to the full version of VS2008.  
 ▼  


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□ **Re: Creating CGridListCtrlEx, ASSERT(m\_hWnd == NULL)  
wincore.cpp line 329**

 9874675

9-Feb-11 9:01

- ▲ That must suck using a 6 year old compiler. I'd be using VS express in that case.  
 ▼ Anyway, I'll try to figure out what's going wrong in the code..  


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□ **Re: Creating CGridListCtrlEx, ASSERT(m\_hWnd == NULL)  
wincore.cpp line 329**

 Rolf Kristensen

9-Feb-11 14:35

- ▲ I'm using VS 2008 Express to develop this home project, and using VS 2005 at work. But  
 ▼ VS2008 Express doesn't include the ability to debug the MFC library, it can only run in release  
 mode without optimizations turned on.  


Also I cannot see any improvements from VS2005 to VS2008 when it comes to MFC. But I'm looking forward to VS2010 SP1 (Fixes intellisense in CLR/Interop), then I will request for an upgrade at work.

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## Change row and cell colors

tzang

14-Jul-10 13:00

Hi,

I've found out that the colors and fonts can be manipulated using OnDisplayCellColor(), OnDisplayCellFont(), OnDisplayRowColor(), and OnDisplayRowFont()

One of the related source codes can be found in CGridColumnTraitText::OnCustomDraw() of CGridListCtrlEx like this:

```
if (owner.OnDisplayCellColor(nRow, nCol, pLVCD->clrText, pLVCD->clrTextBk)
*pResult |= CDRF_NEWFONT | CDRF_NOTIFYPOSTPAINT;
```

I would like to know how I can call and use OnDisplayCellColor()?

For example

CTestList.h  
bool OnDisplayCellColor(int nRow, int nCol, COLORREF& textColor, COLORREF& backColor);

CTestList.cpp  
bool CTestList::OnDisplayCellColor(int nRow,int nCol,COLORREF& textColor,COLORREF& backColor)  
{  
return true;  
}

```
void CTestList::Testing()  
{  
COLORREF cr1, cr2;  
cr1 = RGB(0,0,0);  
cr2 = RGB(0,0,0);  
OnDisplayCellColor(3,3, cr1, cr2);  
}
```

But I don't see any change?

Am I doing wrong?

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## Re: Change row and cell colors

Rolf Kristensen

14-Jul-10 16:02

- The trick is that you have to override the OnDisplayCellColor in the class inheriting from CGridListCtrlEx.
- The OnDisplayCellColor() will be called every time a cell is drawn, and you then have to "calculate" which color the cell should be drawn with.

CGridListCtrlEx doesn't know how to remember an assigned row or cell color, instead it just calls OnDisplayCellColor().

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## Re: Change row and cell colors

tzang

15-Jul-10 15:52

As your explanation, I made a child of CGridListCtrlEx and overrided OnDisplayCellColor()

public:  
bool OnDisplayCellColor(int nRow, int nCol, COLORREF& textColor, COLORREF& backColor);

And while filling the list, I called it

```
COLORREF cr1, cr2;  
cr1 = RGB(0,255,0);  
cr2 = RGB(0,0,255);  
m_List.OnDisplayCellColor(3,3, cr1, cr2);
```

But it does not seem to work yet.

When you said, "CGridListCtrlEx does not remember anything", does it mean that I need to code a message handler for WM\_CUSTOMDRAW of my own?

Or am I still scratching at other's back?

Otherwise does CGridRowTraitXP also need to be derived?

Thankx in advance

[Reply](#) · [View Thread](#)



#### Re: Change row and cell colors

Rolf Kristensen

15-Jul-10 16:07

The code should look something like this:



```
bool CGridListCtrlExChild::OnDisplayCellColor(int nRow, int nCol, COLORREF& textColor, COLORREF& backColor)
{
    if (nRow == 3 && nCol == 3)
    {
        textColor = RGB(0,255,0);
        backColor = RGB(0,0,255);
        return true; // I want to override the color of this cell
    }
    return false; // Use default color
}
```

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#### Re: Change row and cell colors

tzang

16-Jul-10 22:25

Hi, Rolf Kristensen

Thank you for your tip

It works excellent!!!

[Reply](#) · [View Thread](#)



#### Text edit with "password" style

Member 682394

1-Jul-10 17:19

First of all: great work! Well done!

 I have a small problem. I try to add a colum for "passwords".

```
ptrTrait = new CGridColumnTraitEdit;
m_List.InsertColumnTrait(column, header[column], LVCFMT_LEFT, 100, -1, ptrTrait);
DWORD oldStyle;
oldStyle = ((CGridColumnTraitEdit*)ptrTrait)->GetStyle();
((CGridColumnTraitEdit*)ptrTrait)->SetStyle(oldStyle | ES_PASSWORD);
```

This works fine when editing the text. Text will be displayed as dots. But after editing the text is displayed as normal, visible text.

Could you please help me?

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 Rolf Kristensen

1-Jul-10 17:24

  Not sure how your application works together with the CListCtrl, but I would catch the edit-event in OnEditComplete() and store the password somewhere else, and then change the cell-text in CListCtrl to "\*\*\*\*\*".

 [Reply](#) · [View Thread](#)



### **need help!!! the function "SetFont" derived from cwin doesn't work**

 Member 2749013

29-Jun-10 16:50

  Great works.

 but when i using "setfont", it doesn't work. why?

[Reply](#) · [View Thread](#)



### **Re: need help!!! the function "SetFont" derived from cwin doesn't work**

 Rolf Kristensen

29-Jun-10 17:04

  If you call SetFont() before you called SetMargin(), then I think it will work.

 But yes the SetFont() call should work even when called after SetMargin().

[Reply](#) · [View Thread](#)



### **Re: need help!!! the function "SetFont" derived from cwin doesn't work**

 Rolf Kristensen

30-Sep-10 4:55

  I have now fixed so CWnd::SetFont() now correctly reapplies margin with the new font.

 The update version can be found at google code.

[Reply](#) · [View Thread](#)



### **CGridListCtrlEx::OnItemDblClick**

 9874675

25-Jun-10 12:32

  Hi, this function seems to do nothing. If I understand correctly, the code is just there to demonstrate how you might catch a double click event. Was this intentional (rather than just showing code in a comment)?

 Was calling a virtual function from there (with row and column) considered?

[Reply](#) · [View Thread](#)



### **Re: CGridListCtrlEx::OnItemDblClick**

 Rolf Kristensen

25-Jun-10 15:55

  The method is merely to demonstrate how to catch the double-click event. But the OnItemDblClick-method is virtual so you can override it and extract row and column from the NMHDR\* pNMHDR parameter (As shown in the

 base-class).

[Reply](#) · [View Thread](#)



## MDI and a dialog [modified]

 tzang

25-Jun-10 3:43

-  Hi,
-  Thanks for the great code.
-  Your code helps me make editable lists.

In an mdi-like project, a dialog is called by clicking on a toolbar (or from menu).  
The dialog has a list with a button called "ADD" which adds a row in the list.

No matter how many times I call the dialog and do nothing (no "ADD") but click OK (the default OK button), there's no problem.

But the problem happens when I click "ADD" on the second calling of the dialog.  
Even without one "ADD" but only clicking OK, and the next time, I click on "ADD", then the whole program crashes.

Here is the code of "ADD".

Am I doing anything wrong with the code for LIST?

thanks in advance.

```
void CDlgSettings::OnBtnAdd()
{
// TODO: Add your control notification handler code here
UpdateData();
```

CStringArray sArr;

```
sArr.Add(m_sId);
sArr.Add(m_sWorker);
sArr.Add(m_sTel);

int nItem = 0;

nItem = m_List.GetItemCount();
nItem = m_List.InsertItem(nItem, "");
m_List.SetItemData(nItem, 0);
for (int i=0; i<sArr.GetSize(); ++i)
{
m_List.SetItemText(nItem, i+1, sArr[i]);
}
```

```
BOOL CDlgSettings::OnInitDialog()
{
CDialog::OnInitDialog();

// 
//sftsw: color of the border line
//

// m_List.SetBkColor(RGB(165, 155, 0));
COLORREF crBkColor = ::GetSysColor(COLOR_3DFACE);
```

```

m_List.SetTextBkColor(crBkColor);

// m_ListCtrl.SetCellMargin(1.2);
// CGridRowTraitXP* pRowTrait = new CGridRowTraitXP;
// m_List.SetDefaultRowTrait(pRowTrait);

// Create Columns
m_List.InsertHiddenLabelColumn(); // Requires one never uses column 0

//
//sfrsw
//
CString saHeadings[] = {"Id", "Worker", "Tel"};
int naWidths[] = {50, 100, 70};

CString Title = _T("");
int nWidth = 0;
int nItem = 0;
int nFields = 3;
nItem = m_List.GetItemCount();
for (int i=0; i<nFields; ++i)
{
    Title = saHeadings[i];
    nWidth= naWidths[i];

    // CGridColumnTrait* pTrait = NULL;
    // pTrait = new CGridColumnTraitEdit;

    //m_List.InsertColumnTrait(i+1, Title, LVCFMT_CENTER, nWidth, i, pTrait);
    m_List.InsertColumn(i+1, Title, LVCFMT_CENTER, nWidth, i);
}

return TRUE; // return TRUE unless you set the focus to a control
// EXCEPTION: OCX Property Pages should return FALSE
}

```

---

*modified on Thursday, June 24, 2010 4:08 PM*

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Rolf Kristensen

25-Jun-10 4:49

**Re: MDI and a dialog**

Could you create a new issue at [Google Code](#)[], and attach a complete project ?



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Rolf Kristensen

26-Jun-10 4:30

**Re: MDI and a dialog**

◀ Thank you for providing a reproducible case. The problem was that the list-control-object was never destroyed, even though the list-control-window was closed.

▶ I have now fixed so the list-control-object detects when the list-control-window closes, and then resets its state.

I have also fixed an issue with the empty markup text not being cleared properly when inserting the first item in the list-control.

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5.00/5 (1 vote)  

**[?] wonderful,but a little bug?? [modified]**

LoveIsabella

12-Jun-10 8:52

There are several columns in the listctrl and I want to hide some column. When operating one column, there is no problem. But when operating more than one column, the order of the columns has changed. It may occur when repeating hide and show operate.

And the example you give has the same trouble. (so the function "reset" is very necessary)

*modified on Friday, June 11, 2010 8:58 PM*

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2.00/5 (1 vote)  

**[?] Re: wonderful,but a little bug??**

Rolf Kristensen

12-Jun-10 14:40

Can you explain in exact steps how to reproduce the bug in the demo-application ?

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**[?] Re: wonderful,but a little bug?? [modified]**

LoveIsabella

13-Jun-10 9:37

Well, it is not convenient for chartlet and I try my best to explain the steps.

1. right click the head, select 'city' to hide 'city' column
  2. the same operate, hide 'state' column
  3. the same operate, hide 'country' column
  4. right click the head, select 'city' to show 'city' column
  5. the same operate, show 'state' column
  6. the same operate, show 'country' column
- now, you can see that the first column is not 'city', but 'state'.  
 when you click 'Reset columns', it will go back to the original status.  
 Maybe that's the reason why sometimes the order of the columns is different to what I set in the initialization.  
 (Should I give you some pictures by e-mail?)

-----  
 another question: I insert a 'TraitCombo' and add items. It works well when the items <=8 . But when items>8 (for example, 10), there is an additional item which is blank row at the end of the list.

Thank you for help.

*modified on Saturday, June 12, 2010 11:24 PM*

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**[?] Re: wonderful,but a little bug??**

Rolf Kristensen

21-Jun-10 6:48

I have tried to improve the logic for restoring the original position when showing and hiding columns. You can get the updated version of CGridListCtrlEx from [Google Code](#)[^]

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**[?] Re: wonderful,but a little bug??**

LoveIsabella

21-Jun-10 11:15

well,thank you!!

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## Some issues

9874675

4-Jun-10 10:43

The header sort arrows can hide the column text if the width is small enough. Explorer doesn't allow the arrow to overwhelm the column text.

The sort arrows are black; other list controls such as Explorer use grey arrows.

If clicking the same subitem checkbox over and over, it takes 2 clicks instead of one to toggle the state. This is different to how a normal checkbox control behaves - it only takes one click. I'm guessing this has to do with the double click message handler.

Sorting doesn't work for checkbox-only columns; I am guessing this could be solved by putting invisible text in the cell.

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## Re: Some issues

Rolf Kristensen

4-Jun-10 15:06

The image overlap in the column header seems to be the default behavior of the CListCtrl, not sure I want to override it.



You can fix the arrows, by using proper bitmaps. I wanted the CGridListCtrlEx to work without needing extra bitmap resources. But I have just found an example that makes the sort arrow grey, will look into changing the color of the sort arrows.

Yes I can reproduce the same behavior when clicking the checkbox, and this is a bug. I will look into it as well.

I think I will add the option that the sorting is primarily based on the image-index. That will allow sorting according to checkbox state.

Thank you for reporting these issues

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## Re: Some issues [modified]

9874675

7-Jun-10 11:23

Thanks for your response.

Regarding image overlap: The grey arrows used by Explorer seem to have much less padding, which is why they don't overwhelm the text. Additionally, Explorer has minimum column widths, which would be a useful feature for CGridListCtrlEx.

Should copy to clipboard do something for checkbox columns? Eg true vs false? Or should we override to get that functionality?

If multiple items are selected and a checkbox column is clicked, I believe they should all toggle; at least that is what the standard CListCtrl does when using label column checkboxes.

Regarding double clicks required to toggle checkbox: I noticed the same thing happens when sorting, which is also different behaviour from Explorer.

modified on Monday, June 7, 2010 2:58 AM

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### Re: Some issues

Rolf Kristensen

8-Jun-10 8:17

Again the issues with the header arrow, will not get much attention, unless you can show me a standard CListCtrl that behaves properly (Not including closed source like Windows Explorer).



Implementing a minimum column width, seems to be a standard functionality in CListCtrl on Vista, not sure if it is easy to implement for earlier versions of Windows.

You will have to implement your own logic when using clipboard for cells with checkboxes.

Just tried to select multiple items in a CListCtrl and when using with the VK\_SPACE key or the mouse, then I was only able to select a single item at a time (On Windows Vista).

Not sure what you mean by needing to double-click when sorting.

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### Re: Some issues

9874675

8-Jun-10 13:32

Double-clicking checkboxes is now fixed.



Sorting checkboxes now works with SetSortImageIndex().

Regarding gray arrows, to be honest I think this change is a regression as the arrows are now oversized. I'll see if I can find a CListCtrl example that works.

Regarding multiple selection: Set "Single Selection" to False in your list control resource properties. When selecting multiple items and toggling a checkbox, it would be good if all selected checkboxes toggled.

Regarding double-click when sorting, go to Explorer and click a header control over and over again. You will see every click causes it to sort. When doing this with CGridListCtrlEx it sorts on every second click. It's the same problem that you just fixed with the checkboxes.

Thanks for your help, much appreciated.

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### Re: Some issues

Rolf Kristensen

9-Jun-10 6:30

Still not been able to reproduce the case where it is possible to flip multiple checkboxes using the label-column. Could you provide a demo application where this is working ?



Just tried the double-clicking in the header-column in Vista, and it only sorts on every second click, when clicking really fast. Think I will leave it that way.

I have now implemented max and min width for columns:

```
pTrait->GetColumnState().m_MinWidth = 100;
```

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### Re: Some issues [modified]

9874675

9-Jun-10 11:00

Can I ask that you put #pragma warning(disable:4996) at the top of CGridListCtrlGroups.cpp? That's what I have to do every time I get a new version, to suppress the non-Unicode build warnings.

Flipping multiple checkboxes: If you look at "View|Other Windows|Pending Changes" in Visual Studio 2008, here is an example of a list-view control that flips multiple checkboxes; I'm sure there are many others. However you are right, the standard CListCtrl only toggles one item. I guess I don't agree that we should always do whatever standard CListCtrl does, since CGridListCtrlEx is already behaving quite differently. I don't believe anyone would want that default behaviour, but as long as I can override this in my derived class, I'm happy.

To get this behaviour, I'm going to have to copy/paste CGridListCtrlEx::OnLButtonDown in my derived class but without the call to CListCtrl::OnLButtonDown(nFlags, point) if user is clicking on a checkbox. This is because CListCtrl::OnLButtonDown changes the selection to a single row which is not the behaviour we want in this case. Is this the technique you'd recommend?

Re double-clicking the header-column in Vista: I just checked, and Win2008, which is like Vista, behaves as you described. But Windows 7 and Win2008R2 fixed this "bug", which is why I was seeing different behaviour. I'm hoping I can override this in my derived class too.

I will try to find better arrow bitmaps as Explorer's ones still look a lot more professional, as they don't hide as much text.

Thanks

*modified on Wednesday, June 9, 2010 2:07 AM*

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#### Re: Some issues [modified]

Rolf Kristensen

9-Jun-10 15:59

Still trying to decide how to handle the compiler warning properly.

I don't mind extending the behavior of the CGridListCtrlEx beyond CListCtrl, but I like to copy existing behavior, so it is more consistent with others.

I'm working on a small fix that swallows the left-button click when just clicking the checkbox-icon, and then toggles all selected items. This gives the behavior you want, but I would like to compare it with other implementations.

*modified on Wednesday, June 9, 2010 4:20 AM*

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#### Re: Some issues [modified]

9874675

10-Jun-10 15:45

Hi, I believe this implementation is showing the sort arrows correctly:  
[http://www.codeproject.com/KB/list/Extended\\_List\\_Control.aspx](http://www.codeproject.com/KB/list/Extended_List_Control.aspx)

It's using HDF\_SORTDOWN/HDF\_SORTUP. What do you think?

Update: Ok now I see you were already doing this in CGridListCtrlEx::SetSortArrow if IsThemeEnabled() is true. I removed this check and now my arrows are displaying correctly. So my question is, why was the IsThemeEnabled() check needed?

Thanks

modified on Thursday, June 10, 2010 4:09 AM

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#### **Re: Some issues**

Rolf Kristensen

10-Jun-10 17:20

Because I thought that the HDF\_SORTDOWN only was available when theme was enabled. But it seems that if we are running on WinXP then these are available, even if not using themes.



I will fix this.

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#### **Re: Some issues**

Rolf Kristensen

11-Jun-10 6:16

I have now changed so it uses HDF\_SORTDOWN/HDF\_SORTUP if common controls are loaded.

I have also changed CGridListCtrlGroups so it no longer is active on VS2008 non-unicode build. It can be forced active by with the following define in the stdafx.h

```
#define CGRIDLISTCTRLEX_GROUPMODE
```

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#### **Re: Some issues**

Rolf Kristensen

11-Jun-10 8:17

Because I have now implemented checkbox toggle for the selected rows. I have tried to copy the behavior of the commit dialog for TortoiseSVN (Also a MFC application).



I have updated the demo-application to make use of this new feature.

```
pTrait->SetToggleSelection(true);
```

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#### **Re: Some issues [modified]**

9874675

15-Jun-10 9:25

Sort arrows and groupmode warnings are now fixed, thanks.

With SetToggleSelection(), this is looking good. If I want an event for each checkbox that has changed, what would be the best way of achieving this? Should I handle the message sent here:  
 "owner.GetParent()->SendMessage( WM\_NOTIFY, owner.GetDlgCtrlID(), (LPARAM)&dispinfo );" ?

Additionally, if you have a row that changes color based on a subitem's checkbox state, toggling the state only appears to repaint the cell itself. I've overridden OnEditBegin and called Invalidate(), is this the technique you'd recommend?

*modified on Tuesday, June 15, 2010 2:40 AM*

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#### [Re: Some issues](#)

Rolf Kristensen

15-Jun-10 15:37

The SendMessage() sends a LVN\_ENDLABELEDIT event, which the CGridListCtrlEx uses to update the internal datamodel (Change image, update text, etc.).

Normally to react to data modifications, in your inherited CGridListCtrlEx, then you can override OnEditComplete() and use the LV\_DISPINFO pointer.

If you want to catch it in the dialog that owns the CGridListCtrlEx, then you can catch the LVN\_ENDLABELEDIT event directly there.

You can look at the OnEndLabelEdit() method of CGridListCtrlEx to see how one can detect what was modified.

I would probably override the OnEditComplete, and then just invalidate the row-rect after setting up the new row-color, instead of invalidating the entire window.

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#### [Re: Some issues](#)

9874675

16-Jun-10 12:46

OnEditComplete() is too early because SetCellImage() is called after that point. I could work around it by overriding OnEndLabelEdit, calling the base class version and then figuring out the row and column that has changed via pNMHDR. Is this what you'd recommend?

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#### [Re: Some issues \[modified\]](#)

Rolf Kristensen

16-Jun-10 15:05

If you want to change the row color when the cell image is changed, then I recommend you just adjust the row-color in OnEditComplete() and then invalidate the row (Invalidate will tell windows to redraw the row later, thus after SetCellImage have been executed).

But yes overriding OnEndLabelEdit() like you suggested should also do the trick.

*modified on Wednesday, June 16, 2010 3:32 AM*

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#### [Re: Some issues](#)

9874675

16-Jun-10 18:48

Row color isn't the problem, I've done that by calling Invalidate() in OnEditBegin() and choosing the color in OnDisplayRowColor().

But I want to call some non-UI related code whenever a checkbox is toggled. If SetCellImage() was made virtual (or a virtual function was called whenever it was called), that seems to me to be the best place to do this. What do you think?

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#### [Re: Some issues](#)

Rolf Kristensen

16-Jun-10 19:01

I would use OnEditComplete() and decipher the LV\_DISPINFO.

But the correct solution is to setup an event listener for LVN\_ITEMCHANGED. To catch any place where the cell image is touched,

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#### [Re: Some issues](#)

9874675

16-Jun-10 19:26

Again, OnEditComplete() is too early because SetCellImage() hasn't been called yet. Unless you mean I should assume the checkbox is about to toggle, so if GetCellImage() returns checked, I should act as if it's an uncheck event?

Otherwise I'll try the OnEndLabelEdit() trick.

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#### [Re: Some issues](#)

Rolf Kristensen

17-Jun-10 2:47

Like I have been saying, by looking at LV\_DISPINFO then you can see what value the checkbox is being changed to.

```
if (pDispInfo->item.mask & LVIF_IMAGE)
{
    int nImageIndex = pDispInfo->item.iImage;
```

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#### [Re: Some issues](#)

9874675

17-Jun-10 12:44

Ok, thanks. I prefer a different solution because I think users of my derived class should be able to call GetCellImage() in their virtual override (since that's how they test it everywhere else). I'll work around it using a modified version of OnEndLabelEdit().

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#### [Re: Some issues](#)

Rolf Kristensen

8-Jun-10 8:12

The issues with the header arrow, will not get much attention, unless you can show me a standard CListCtrl that behaves properly (Not including closed source like Windows Explorer).

I have now changed the black arrow to a gray sort array when not in themed mode.

I have fixed so when doing double-click, then it will still flip the checkbox.



**Re: subitem checkboxes**

Rolf Kristensen

1-Jun-10 5:17

- CGridListCtrlEx inherits its features from CListCtrl (whether advantages, quirks or limitations).
- CListCtrl automatically assigns image-index zero "0" to the label column. So when calling CListCtrl::SetImageList() then the label-column will automatically display the first icon in the imagelist (a checkbox in this case).

You can change the image index of the label column to "-1" so the image is removed, but the text in the label column will still be intended leaving a blank space.

This is another reason why I implemented InsertHiddenLabelColumn(), which hides the label column since it has different behavior than all the other subitem-columns.

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 **Re: subitem checkboxes**

9874675

3-Jun-10 13:58

- Thanks, InsertHiddenLabelColumn fixed the issue for me. It's a bit hard to know that one needs to do this; maybe AppendStateImages should only work if InsertHiddenLabelColumn is done? Or even a comment next to the function...

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 **Re: subitem checkboxes**

Rolf Kristensen

3-Jun-10 15:23

- Well this is the default behavior of CListCtrl, that if you assign an image-list then the label-column will think it should display icons from the image-list.
- Some users of CListCtrl might like to have the label-column (for whatever reason). And when using InsertHiddenLabelColumn() then one has to remember that the column is still there (reserves column-index 0).

I will update the article-section about use of checkboxes with your experiences.

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 **warnings in non-unicode builds**

9874675

27-May-10 10:07

- cgridlistctrlgroups.cpp(58) : warning C4996: 'CListCtrl::InsertGroup': This MFC feature requires /DUNICODE to work correctly, because the underlying Windows control is only supported for UNICODE builds. Previous versions of MFC incorrectly enabled this in ANSI/MBCS builds. Please compile with /DUNICODE to use this feature. See product documentation for more information.
- c:\program files (x86)\microsoft visual studio 9.0\vc\atlmfc\include\afxcmn.h(561) : see declaration of 'CListCtrl::InsertGroup'

Can we #ifdef these features out for non-unicode? Or disable the warnings via #pragma?

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1.00/5 (1 vote)

 **Re: warnings in non-unicode builds**

Rolf Kristensen

2-Jun-10 5:49

- Little confused about how to handle this. I understand that all group mode functionality requires Unicode strings. This is why CGridListCtrlGroups spends a lot of time converting from ANSI to Unicode.
- Little curious whether "unsupported" is because one has to convert from ANSI to Unicode, or if a multibyte application might explode when using the group mode functionality of the CListCtrl.

Guess the correct thing is to disable the functionality of CGridListCtrlGroups, when not in unicode mode. But I don't know if any ANSI application makes use of the group functionality already.

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#### [Re: warnings in non-unicode builds \[modified\]](#)

9874675

3-Jun-10 8:50

I'd be happy with "#pragma warning(disable:4996)" at the top of CGridListCtrlGroups.cpp, which is what I've had to do, at least until a better solution is found. I'm also skeptical that the feature can't be made to work with ANSI builds, but since I don't need this feature, I haven't investigated further.

*modified on Thursday, June 3, 2010 2:01 AM*

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#### [Re: warnings in non-unicode builds](#)

Rolf Kristensen

11-Jun-10 6:17

I have changed CGridListCtrlGroups so it no longer is active on VS2008 non-unicode build. It can be forced active by with the following define in the stdafax.h



```
#define CGRIDLISTCTRLEX_GROUPMODE
```

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#### [Opt-out of behaviors](#)

9874675

26-May-10 11:00

1. How do I opt-out of subitem selection? I want to select a whole row like the original CListCtrl.  
2. How do I opt-out of drag and drop between rows?



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#### [Re: Opt-out of behaviors \[modified\]](#)

Rolf Kristensen

26-May-10 15:43

1. Use the method CGridRowTraitText::SetInvertCellSelection() (Method just introduced so you have to get latest source from google-code)  
2. Override OnBeginDrag() and just return FALSE.

**\*\*\* Update \*\*\*** - Changed from SetCellFocus() to SetInvertCellSelection()

*modified on Tuesday, June 1, 2010 5:54 PM*

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#### [Re: Opt-out of behaviors](#)

Rolf Kristensen

26-May-10 15:47

Seems the SetFocusCell() trick have the side effect that subitem editing is no longer possible. Need to work more on this 😊



Is it acceptable that one can no longer use F2 or Space-key for editing subitems ? And when a row has focus, then any cell can be edited by clicking once with the mouse ?

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[Re: Opt-out of behaviors](#)

9874675

27-May-10 8:12

It's acceptable to \*me\* since I don't actually want subitem editing for most cases. Multiple contiguous cell selections for copy to clipboard would be nice though (similar to how Excel does it).

Thanks, I appreciate your help on this.

[Reply](#) · [View Thread](#)
[Re: Opt-out of behaviors](#)

Rolf Kristensen

28-May-10 7:07

I have now added a new method CGridRowTraitText::SetInvertCellSelection(), that allows one to disable the inverted selection color for the focus cell (becomes like the vanilla CListCtrl).



It will continue to display the focus rectangle for the cell in focus, and it will not affect the ability to edit the cell like I predicted earlier.

I will not put "Multiple contiguous cell selections" high on my to do list, but if you implement such solution then please share.

[Reply](#) · [View Thread](#)
[Re: Opt-out of behaviors](#)

9874675

28-May-10 9:40

Thanks, I will check this out.

Re multiple contiguous selections, I actually meant the ability to select a single block of cells for the purpose of copying to clipboard. I understand that it's not a priority.

Speaking of clipboard, I notice clipboard related functions in the code. How are these to be used? Are there docs or examples I should be looking at?

[Reply](#) · [View Thread](#)
[Re: Opt-out of behaviors](#)

Rolf Kristensen

28-May-10 15:22

The method OnCopyToClipboard() is called when pressing CTRI+C, what happens from there then you have to use the code as documentation.


[Reply](#) · [View Thread](#)
[Re: Opt-out of behaviors \[modified\]](#)

9874675

3-Jun-10 13:50

Thanks, SetInvertCellSelection is working for me. I am doing this in my derived class's ctor; is this the recommended technique?



```
pRowTrait = new CGridRowTraitText;
pRowTrait->SetInvertCellSelection(false);
SetDefaultRowTrait(pRowTrait);
```

OnCopyToClipboard looks like it is only copying a selected cell, but there doesn't appear to be any way to select an entire row. I can change this behavior in my derived class as the virtuals give a lot of control, so it's just FYI. I'll probably make my version copy the entire contents+header rather than just the selected cells/rows.

*modified on Thursday, June 3, 2010 1:59 AM*

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Rolf Kristensen

3-Jun-10 15:26

**Re: Opt-out of behaviors**

Looks like a fine way to disable the inverted selection focus.



If you use the arrow-keys to move the cell-focus to the left, then the focus-rectangle will be around the entire row, and OnCopyToClipboard() will copy the contents of the entire row.

But yes you are free to do what ever you want in your derived version of OnCopyToClipboard().

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pens

25-May-10 19:01

**how to modify an underlying data model?**

What's the recommended way to have the grid cell changes modify an underlying data model?

My situation:

My data has too much detail to show everything in the grid, but I want to have a way to modify it from the CGridListCtrl. I decided to subclass CGridColumnTraitText for the relevant columns, and have its OnEditBegin() pop up a dialog for making changes ... but now that I'm in the column trait object, I have no way to access the data members, which belong to the dialog containing the CGridListCtrl.

Feel free to laugh at my painting myself into a corner :) but is there a way that this is meant to be done?

-Martin

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**[check] Re: how to modify an underlying data model? [modified]**

Rolf Kristensen

25-May-10 19:07

- Not sure why you need access to the dialog in which the CListCtrl resides, but the dialog can catch events from its CListCtrl (Ex. LVN\_ENDLABELEDIT)
- Another solution is to ask the CListCtrl for its parent window (dialog) in OnEditBegin(), and then you can do whatever you like with the dialog (dynamic cast etc.).
- Yet another solution is to drop the use of column traits, and then just catch the row-doubleclick event in the parent-dialog, and then present your edit-dialog.

modified on Tuesday, May 25, 2010 7:15 AM

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**[check] Re: how to modify an underlying data model?**

pens

26-May-10 23:09

- Thanks for your suggestions, Rolf : ) Dynamic casting to get the parent dialog fits my situation best, I'm going with this idea.
- I wanted to access the dialog because my data object is a member of the dialog. Basically I'm just separating the data from the UI; this way, I can hide some of the data (without resorting to hiding columns), and yet allow users to change it through dialog boxes or some other edit control.

and I forgot to mention last time: great work on the control, I love it : )

-Martin

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**[check] Re: how to modify an underlying data model?**

gabegabe

6-May-11 17:50

- Similar question, I have a basic CGridColumnTraitCombo (not derived) that occasionally needs to drop with different data than it was initialized with. The CDialog that holds a derived CGridListCtrlEx knows based on a notification from OnEditComplete when to update the data it is just I don't see a way to update the data.

I've considered creating my own CGridListCtrlEx but, well then I would be maintaining it instead of you and it seems that you're doing a better job.

How would you update a CGridColumnTraitCombo's data?

And really, excellent job with this control.

Cheers

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**[check] Re: how to modify an underlying data model?**

Rolf Kristensen

6-May-11 17:54

- Think this comment reply can help you: [CGridListCtrlEx::OnEditComplete\(\)](#) [^]
- Reply · View Thread

**[check] Demo needs work**

9874675

18-May-10 13:30

- Well written article and code. However, to truly say that this control is better than the alternatives, the demo needs to be at least as good as those ones.

For example, the article states: "If wanting to have checkboxes for multiple columns..." with a set of instructions for getting that working. I tried those instructions, they didn't work, which means I need to figure out how they are incorrect or incomplete. With CQuickList, there is no such issue. The demo has subitem checkboxes and that proves that they work.

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Rolf Kristensen

21-May-10 9:16

#### **Re: Demo needs work**

If you checkout the latest version from [google code](#)[^], then the demo application will include demonstration of how checkboxes can be enabled for subitems.

I have made it possible to have checkboxes along side the standard cell editor. So you can use the checkbox to control whether the standard cell editor can be activated. Also when the cell has focus then you can use the SPACE key to flip the checkbox.

I will need to do some more testing and documentation before I'm gonna update the CodeProject article. Any feedback on the new demo application is welcome.

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5.00/5 (1 vote)

#### **Re: Demo needs work [modified]**

9874675

26-May-10 10:54

This is an improvement, although you might also want to have a column with just a checkbox, as this is a typical way to choose true/false options. I also notice the selection bar often flashes when checking/unchecking, I wonder if this can be improved easily.

Also you might want to add other features that the other controls show in their demos, such as different background colors.

Other things that could be in there would be a right-click context menu demonstration. I'm confused as to why these are not in the demo, how are all these features tested if not by a sample application?

*modified on Wednesday, May 26, 2010 9:48 PM*

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Rolf Kristensen

1-Jun-10 5:32

#### **Re: Demo needs work**

Well the checkbox implementation provided by CGridListCtrlEx is pretty much a subitem-image hack, so the checkbox for the subitems works just like the checkbox for the label column. It is possible to just have the checkbox, but it will always be left aligned.

I have not been able to reproduce the flashes when checking/unchecking. What version of visual studio ? what version of windows ? Using themed or classic-mode ?

I actually prefer not to mess with the background colors, but stay true to the normal windows look. I have provided functionality for background- and text-coloring, but I seldom use them myself.

Not sure what you mean by a right-click demonstration. CGridListCtrlEx is an extension of CListCtrl, there is no context menu popups in CListCtrl. You can right-click the column header to see a context menu for choosing columns.

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9874675

1-Jun-10 11:06

#### **Re: Demo needs work**

- ◀ A left-aligned checkbox doesn't matter too much, the column width will be small enough that alignment doesn't matter. Did all the other CListCtrl derived grids do it this way?  
 Flashing occurs for me with VS2008, Windows 2008R2, classic mode.

I understand that you prefer your list controls not to have background colors, but if you provide that functionality it should be in the demo. There are virtuals like "OnDisplayCellColor", you won't know if they work or not without testing this in a sample app, and users will find some of these functions difficult to use if there is no example code of them in use.

The fact that there is no context menu popup in CListCtrl is not really relevant; this is meant to be an improvement on CListCtrl, you have provided "OnContextMenuCell" presumably for this reason, so again there could be an example of it in use. I mention this explicitly because I needed to implement OnCommand in my derived class to handle the clicks, whereas I didn't have to do this when using CListCtrl itself.

All this is a shame because I think your control is far better than all the other CListCtrl derived grids, the code is better and your article is better, but the lack of sample code and the fact that the demo hardly covers any of the offered functionality puts this below all the others.

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#### [Re: Demo needs work \[modified\]](#)

 Rolf Kristensen

1-Jun-10 14:10

- ◀ Nope some derived CListCtrl do owner drawing, and draws everything themselves. They have the ability to place the checkbox in the center. But if they fail to perform the drawing properly then it will the control to look strange on certain versions of Windows.  


Strange with the flashing, since it doesn't occur for me on Vista in themed or in classic mode.

I think you have convinced me to add some checkboxes to the demo application, where one can activate coloring.

There is a trick to context menu's in MFC. If you look closely at the context-menu for the header-column, then there is no OnCommand handling. This is avoided by using TPM\_RETURNCMD in CMenus::TrackPopupMenu().

Thank you for your compliments and thoughts.

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#### [Re: Demo needs work](#)

 9874675

3-Jun-10 14:32

- ◀ Re flashing: it is happening for me with your demo app, it looks like the selected row is being repainted, not every check/uncheck action is doing it, and it is not happening in my own app which contains checkboxes on their own in a column. So it's not a big issue.  


Thanks for the TPM\_RETURNCMD trick, that works for me. TrackPopupMenu returns BOOL which made me think it would return TRUE or FALSE.

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#### [Re: Demo needs work](#)

 Rolf Kristensen

2-Oct-10 3:56

- ◀ The flashing of the selection bar occurs when using Vista/Win2k8/Win7 style, but not having double buffering enabled (LVS\_EX\_DOUBLEBUFFER). This happens if compiling the demo application with \_WIN32\_WINNT less than 0x501 (See stdafx.h in the demo project).  


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**How can I limit the character num of a column**

zhou\_liang

31-Mar-10 10:30

Great work ! I'm a Chinese programmer and MFC beginner.I consulted you before. Now I have to face to a new problem:How can I limit the character num of a column.Please give me some advice. The demo code is as follow.

CGridColumnTrait\* pTrait = NULL;  
if (col==3)  
{  
pTrait = new CGridColumnTraitEdit;  
// how can I limit the character num of column 3?  
// I can't invoke the CEdit::SetLimitText() function  
}

Thanks a lot!!!

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1-Apr-10 23:41

**Re: How can I limit the character num of a column**

Rolf Kristensen

Inherit from CGridColumnTraitEdit and override the CreateEdit() method like this:



```
virtual CEdit* CGridColumnTraitEditLimit::CreateEdit(CGridListCtrlEx& owner, int nRow, int nCol, const
CRect& rect)
{
    CEdit* pEditor = CGridColumnTraitEdit::CreateEdit(owner, nRow, nCol, rect);
    pEditor->SetLimitText(m_LimitText);
    return pEditor;
}
```

m\_LimitText is a member-variable in your new class that can be initialized through the constructor.

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9-Apr-10 7:34

**Re: How can I limit the character num of a column**

Rolf Kristensen

I have now added a SetLimitText() method to CGridColumnTraitEdit, so it should be easier to configure the limit.

[Reply](#) · [View Thread](#)



**again different combobox values**

cidnacs

29-Mar-10 19:18

First of all. Thank you for your great featured class. Great work!

I'm sorry when i ask stupid things you have been already told. I need different (combobox)Values each row in one colum

. I derivated CGridListCtrlEx to my own class, overwrite OnEditBegin(...) get the CWnd\* from CGridColumnTraitCombo::OnEditBegin(...) and did a dynamic cast to CGridColumnTraitCombo. But i'm unsure what to do then. Ok, i can manipulate the Combobox then but the whole metric and size measurements have been already done for the old Values(in CGridColumnTraitCombo::OnEditBegin). I know people asked that before but i don't get it. Again sorry about the question when it is stupid. Is it maybe possible to get demo code for this problem?

thanks cid

[Reply](#) · [View Thread](#)

1.00/5 (1 vote)



**Re: again different combobox values**

Rolf Kristensen

9-Apr-10 7:33

Sorry about this late reply, but my spare time is rather limited.

I can see there is a problem with the resize of the CComboBox if adding items after it has been created. I have now moved the resize logic to the dropdown-event, so now it should adapt to any items you might add after the ComboBox has been created.

You can get the latest version from google-code.

[Reply](#) · [View Thread](#)



#### Re: again different combobox values

cidnacs

12-Apr-10 22:49

No, problem i can understand that this is not your main job 😊

Thank you very much for your patch. I helped myself until now with prefilling dummy data to get an better

length but your patch worked very fine and is of course much more cleaner.

Thank you again for this wonderful, nice featured ListCtrl and sharing it with the world.

[Reply](#) · [View Thread](#)



#### Cell Images

Lee Tunnicliffe

3-Mar-10 22:30

Hi

When I set the cell image in the CGridListCtrlEx for particluar cells I get whitespace about the same size of the image on all cells in the CGridListCtrlEx.

Have you com across this before and do you know how I can remove this whitespace?

Kindest Regards

Lee Tunnicliffe

[Reply](#) · [View Thread](#)



#### Re: Cell Images

Rolf Kristensen

3-Mar-10 23:05

This is a known bug get the latest version from Google-code.

See also [Blank squares when SetCellImage is not calling](#)[^]

[Reply](#) · [View Thread](#)



#### Center a checkbox

Lee Tunnicliffe

3-Mar-10 1:21

Hi,

I am using;

```
checkboxes.Create(16, 16, ILC_COLOR16 | ILC_MASK, 1, 0);
checkboxes.Add(AfxGetApp()->LoadIcon(IDI_CHECKED));
checkboxes.Add(AfxGetApp()->LoadIcon(IDI_UNCHECKED));
m_listCtrl->SetImageList(&checkboxes, LVSIL_SMALL);
```

```
int nStatIdx = CGridColumnTraitImage::AppendStateImages(m_listCtrl, checkboxes);
pTrait = new CGridColumnTraitImage(nStatIdx, 2);
this->InsertColumnTrait(columnIndex, "Column Heading".c_str(), LVCFMT_CENTER, width, -1, pTrait);
```

In order to add checkboxes to cells. I have this working but they're always on the left hand side, is there any way to center these images?

Lee

[Reply](#) · [View Thread](#)

Rolf Kristensen

3-Mar-10 6:18

**Re: Center a checkbox**

I have not seen anyone being able to configure the alignment of subitem images for the CListCtrl.

I guess the only way to center the images is to overwrite the custom drawing, and draw the image yourself.

[Reply](#) · [View Thread](#)

maplewang

4-Aug-12 20:30

**Re: Center a checkbox**

Is there easy way for center a checkbox?

[Reply](#) · [View Thread](#)

1.00/5 (1 vote)

**how can i use contextmenu in mdi project**

aydinsahin

8-Feb-10 7:10

i used CGridListCtrlEx control in CListView derived class;

int CmyMDIView::OnCreate(LPCREATESTRUCT lpCreateStruct)  
{  
if (CListView::OnCreate(lpCreateStruct) == -1)  
return -1;

```
m_ListCtrl.Create(LVS_REPORT|WS_CHILD|WS_VISIBLE,CRect(0,0,0,0),this,1234);
```

```
return 0;  
}
```

```
void CmyMDIView::OnSize(UINT nType, int cx, int cy)  
{  
CListView::OnSize(nType, cx, cy);  
m_ListCtrl.MoveWindow( 0, 0, cx, cy );
```

```
// TODO: Add your message handler code here  
}
```

i want to use CGridListCtrlEx contextmenu, but i didn't

[Reply](#) · [View Thread](#)

Rolf Kristensen

19-Feb-10 4:25

**Re: how can i use contextmenu in mdi project**

You should not try to replace the CListCtrl inside the CListView. Instead you should create a CView that has a CListCtrl as member:

[How to Create a Custom View to Wrap Your Own Control](#)[^]

[Reply](#) · [View Thread](#)

Member 4373677

3-Feb-10 16:11

**Blank squares when SetCellImage is not calling**

I have a problem. I see blank squares when i don't call SetCellImage  
 With the help of debugger I found that it caused by next lines:



[Reply](#) · [View Thread](#)

Rolf Kristensen

2-Feb-10 16:12

**Re: A Problem about unrecognizable code**

Have you tried changing your project to use Unicode-character set instead of Multibyte ?

 Reply · [View Thread](#)

zhou\_liang

2-Feb-10 16:17

**Re: A Problem about unrecognizable code**

I have to use Multibyte for some reason.  
 You demo Project is also use Multibytes.  
 So I don't know why.  
 Thanks a lot for helping me.

[Reply](#) · [View Thread](#)

2.00/5 (1 vote)



Rolf Kristensen

2-Feb-10 16:21

**Re: A Problem about unrecognizable code**

Are your source-code files encoded in ANSI or in Unicode ?



P.S. I have very little experience with encoding problems in Visual Studio. Think I would go ask a broader forum like the [CodeProject forum](#)[^] or Stackoverflow

 Reply · [View Thread](#)**little bug to crash**

Hsiao

30-Jan-10 9:34

BOOL CGridListCtrlEx::OnToolNeedText(UINT id, NMHDR\* pNMHDR, LRESULT\* pResult)  
 #if \_\_STDC\_WANT\_SECURE\_LIB\_\_  
**mbstowcs\_s(NULL, pTTTW->szText, static\_cast<lpctstr>(tooltip), sizeof(pTTTW->szText)/sizeof(WCHAR));**

It crash while tooltip string length more than 80.

I made the modify to overcomes the problem as below

**setlocale( LC\_ALL, ".OCP" );//Explicitly sets the locale to the current OEM code page obtained from the operating system.**  
**mbstowcs\_s(NULL, pTTTW->szText, static\_cast<lpctstr>(tooltip), \_TRUNCATE);**

 Reply · [View Thread](#)**Re: little bug to crash**

Rolf Kristensen

1-Feb-10 6:44

Thank you for reporting this issue. I have now fixed the buffer overrun bug. You can get the fixed version from Google code.

 Reply · [View Thread](#)

1.50/5 (2 votes)

**How to get updated-data from cell?**

sunnyloves

28-Jan-10 9:52

Great job!  
 I am a MFC starter, I have used this control showed something like your demo.Then I want to edit the list,but I dont know how to edit,  
 so could you tell me how to get data from changed cell? Like m\_listctrl.GetData(...)? Thank a lot

 Reply · [View Thread](#)

**Re: How to get updated-data from cell?**

Rolf Kristensen

28-Jan-10 14:38

If you use [CListCtrl::SetItemText\(\)](#) to put your data into the CListCtrl, then you can use [CListCtrl::GetItemText\(\)](#) to retrieve the data again.



```
CString itemValue = _T("Hello");
m_ListCtrl.SetItemText(0, 0, itemValue); //Set value in row 0 / col 0
itemValue = m_ListCtrl.GetItemText(0, 0); //Get value from row 0 / col 0
```



Reply · View Thread

**Re: How to get updated-data from cell?**

sunnyloves

29-Jan-10 9:26

Thank u very much! 😊



Reply · View Thread

**Good article, but missed feature**

Nacereddine

24-Jan-10 1:59

Hello,

You have done a great work here 🌟, but I think there is a very important feature missed : Binding to a data source! I have developed a similar List control and I have added a binding to DAO recordset with a virtual mode,

If I see this feature implemented here, it would be a very good thing for lots of people.  
I can Help in such work, just contact me.

Thank you for your efforts. 🌸

Reply · View Thread

**Re: Good article, but missed feature [modified]**

Rolf Kristensen

24-Jan-10 2:05

Thank you for the compliments 😊



I'm not planning to implement any databinding in the control. I'm focusing only on being a CListCtrl. But you are very welcome to implement a databinding class that inherits from CGridListCtrlEx.

Or even better a DAO databinding framework that you easily can integrate with any CListCtrl.

-Rolf

*modified on Saturday, January 23, 2010 2:16 PM*

Reply · View Thread

**Different Combobox items for each row?**

rlien

16-Jan-10 4:16

Hi,

In my project I have a CGridColumnTraitEdit in column 1 and a CGridColumnTraitCombo in column 2. The combo box should have different items in it depending on the row.

I have derived my own class CFuseGridListCtrlEx from CGridListCtrlEx where I am overriding OnTraitEditBegin(). How can I remove and add items on the combobox for that particular row?

Best regards,  
rlien

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1.00/5 (1 vote)  

### **Re: Different Combobox items for each row?**

 Rolf Kristensen

16-Jan-10 4:46

When overriding OnTraitEditBegin() then just perform a dynamic\_cast<cgridcolumntraitcombo\*> of the CWnd\* pEditor parameter.



**Update in CGridListCtrlEx ver. 1.7** *OnTraitEditBegin() has been renamed to OnEditBegin()*

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5.00/5 (1 vote)  

### **Re: Different Combobox items for each row?**

 rlien

16-Jan-10 5:11

Thanks a lot. Great class.

- rlien

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### **Row color**

 Stecya

10-Dec-09 19:47

Can I specify some backcolor for rows in this control

[Reply](#) · [View Thread](#)

### **Re: Row color**

 Rolf Kristensen

10-Dec-09 19:49

If you download the latest version of CGridListCtrlEx from google-code, then you can override the method CGridListCtrlEx::OnDisplayRowColor()

[Reply](#) · [View Thread](#)

### **Re: Row color**

 Stecya

10-Dec-09 20:03

how can i download it from there?

[Reply](#) · [View Thread](#)

### **Re: Row color**

 Rolf Kristensen

10-Dec-09 20:04

Use a subversion client like TortoiseSVN, or download each of the files using a Internet Explorer:

<http://cgridlistctrlex.googlecode.com/svn/trunk/>

[Reply](#) · [View Thread](#)

### **Make Readonly**

 Stecya

10-Dec-09 18:31

Hi, i need to make this list control to be readonly depending on some value  
How can i set a readonly property to this control

[Reply](#) · [View Thread](#)

### **Re: Make Readonly**

 Rolf Kristensen

10-Dec-09 18:33

Override the method CGridListCtrlEx::OnEditBegin() and make it return NULL, when the list control is in readonly-mode.



[Reply](#) · [View Thread](#)



10-Dec-09 18:43

Stecy

### [Re: Make Readonly](#)

No other way to do this?



[Reply](#) · [View Thread](#)



[Re: Make Readonly](#)

Rolf Kristensen

10-Dec-09 18:54

- You can for each column trait specify that the entire column is readonly.
- Not sure what you are looking for, since you should always inherit from CGridListCtrlEx for your own project, and overriding a method is quite simple.

[Reply](#) · [View Thread](#)[Re: Make Readonly](#)

Stecya

10-Dec-09 19:30

- just overrided the method....thanks for advice

[Reply](#) · [View Thread](#)[Setting the background color of selected cell](#)

Gareth Tye

30-Nov-09 19:58

- Hi Snakefoot,

- I am using the OnDisplayCellColor function to change the background of certain cells to show they are read only, but when a cell is selected its background is set back to white. Is there a function I can override so I can change the background color of a selected cell.

Many thanks

Gareth

[Reply](#) · [View Thread](#)

1.00/5 (1 vote)

[Re: Setting the background color of selected cell](#)

Gareth Tye

30-Nov-09 20:19

- Hi Snakefoot,

- I have just downloaded and tested the latest version of the sources and they solve this problem.

Thanks and sorry to bother you

Gareth

[Reply](#) · [View Thread](#)[Re: Setting the background color of selected cell \[modified\]](#)

Rolf Kristensen

30-Nov-09 21:21

- No problem at all. Glad that you have tested the lastest version of the CGridListCtrlEx.

- I'm planning a release, but put it on hold as I don't have so much time to test it. One of the issues fixed is the cell and row coloring.

modified on Tuesday, December 1, 2009 2:18 PM

[Reply](#) · [View Thread](#)[Solution for problems when using it without an image list and not calling InsertHiddenLabelColumn\(\)](#)

Joerg Hoffmann

18-Nov-09 17:41

Hi Snakefoot,

congratulation for this great article and this help full control. You've got my 5 🌟  
I've tried to replace my CListCtrls by your code and it looks really good.

No my (little) problem:

I'm working with VS2008 on Windows Vista.

No image list is assigned to my list.

InsertHiddenLabelColumn() is not called because I need checkboxes  
and as I read here using checkboxes will not work with this method.

After a few days I installed my app on Windows XP and there it crashes  
if I select an item that is not in the first column of the list.

Debuging it on another XP PC shows the reason:

In CGridRowTraitXP::OnCustomDraw() you get a pointer to the image list  
of the owner to draw the icon:

```
// Draw icon
CImageList* pImageList = owner.GetImageList(LVSIL_SMALL);
COLORREF oldBkColor = pImageList->SetBkColor(backColor);
pImageList->Draw( pDC, nImage, rcIcon.TopLeft(), ILD_NORMAL );
pImageList->SetBkColor(oldBkColor);
```

But this will crash because calling owner.GetImageList() will return  
NULL if no image list was assigned to it.

I suggest you have to check the pointer to the image list:

```
// Draw icon
CImageList* pImageList = owner.GetImageList(LVSIL_SMALL);

// [2009-11-18 changed by Joerg Hoffmann]
// Prevent crashing if no image list was assigned.
if( NULL != pImageList )
{
    COLORREF oldBkColor = pImageList->SetBkColor(backColor);
    pImageList->Draw( pDC, nImage, rcIcon.TopLeft(), ILD_NORMAL );
    pImageList->SetBkColor(oldBkColor);
}
```

With this change my app will work correct on Vista and XP.

BTW:

I get many warnings (C4100) causes on unreferenced parameters  
when compiling on warning level 4.  
Perhaps you can solve this in an future version.

Many thanks.

Joerg

[Reply](#) · [View Thread](#)5.00/5 (1 vote)   Rolf Kristensen

18-Nov-09 18:25

 **Re: Solution for problems when using it without an image list and not calling InsertHiddenLabelColumn()**

-   Thank you for reporting this. The bug have already been fixed in the latest version found at google-code. 
-  I might consider using pragma warning to disable the unreference parameters warning.

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 **Re: Solution for problems when using it without an image list and not calling InsertHiddenLabelColumn()**

-   Thank you for your fast response. 
-  I've tried to get the latest version from google-code using this command line:

```
svn checkout http://cgridlistctrllex.googlecode.com/svn/trunk/ cgridlistctrllex-read-only
```

But I got an error message:

Could not read status line: An existing connection was closed by the remote host.

(My TortoiseSVN repo-browser shows the same message.)

What could be the reason for this?

What can I do to get your code?

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 **Re: Solution for problems when using it without an image list and not calling InsertHiddenLabelColumn()**

19-Nov-09 15:22

-   You are using the wrong SVN-Path, here is the right one: 
-  [http://cgridlistctrllex.googlecode.com/svn/trunk/\[^\n\]](http://cgridlistctrllex.googlecode.com/svn/trunk/[^\n])

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 **Re: Solution for problems when using it without an image list and not calling InsertHiddenLabelColumn()**

19-Nov-09 16:18

-   Hm, sorry, but what is the difference between your path and the one I found on your goolge page which I posted erlier? 
-  Following the link in my browser I can see the files (as text files) but somthing is wrong when I try get the code via SVN command.

Are there some special settings required?

Or could our firewall be a part of the problem?

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 **Re: Solution for problems when using it without an image list and not calling InsertHiddenLabelColumn()**

19-Nov-09 17:14

-   Think only port 80 is used for check-out, so if your web-browser works then SVN should also be able to checkout using the path. 



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## Help editing

staticv

10-Nov-09 17:37

Hey, haven't used list controls before. The problem is when I double click a row and then change its text and hit enter, the text isn't updated. Debugging, I found that it fails at the IsCellCallback() function inside CGridListCtrlEx::OnEndLabelEdit().

This is what I did. Added a List Control from Toolbox, added a control variable, changed the variable's type from CListCtrl to CGridListCtrlEx.

This is my code in the **OnInitDialog()** function

```
int nCol = 0;

m_ListCtrlChannels.InsertColumn(nCol++, _T("Device1"), LVCFMT_LEFT, 100);
m_ListCtrlChannels.InsertColumn(nCol++, _T("Device2"), LVCFMT_LEFT, 100);

// Add edit-able column
CGridColumnTrait* pTrait = new CGridColumnTraitEdit;
m_ListCtrlChannels.InsertColumnTrait(nCol, _T("Identifier"), LVCFMT_LEFT, 100, nCol, pTrait);

LVITEM lvItem;
lvItem.mask = LVIF_TEXT;
lvItem.iItem = 0;
lvItem.iSubItem = 0;

int nItem;
lvItem.pszText = _T("ABC123");
nItem = m_ListCtrlChannels.InsertItem(&lvItem);
m_ListCtrlChannels.SetItemText(nItem, 1, _T("XYZ123"));
```

Thanks 😊

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Do, or do not. There is no 'try'.

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## Re: Help editing

Rolf Kristensen

10-Nov-09 21:13

- The CListCtrl works in 3 modes (Self-contained, Callback or OwnerData).  
 By default the CListCtrl will be using Callback (Retrieves its value from an outside datamodel). But by using SetItemText(), then one can change a cell to be Self-Contained (That the text is stored inside the CListCtrl).

To make your example work, then you need to call SetItemText() for all columns, when inserting an item. When doing this then IsCellCallback() will return false for all cells that belongs to the item.

Reply · View Thread



## Re: Help editing

Gert Hauan

12-Dec-12 19:32

Hi.

I have a similar problem.

I have a program where I previously used the Ultimate Grid, but now I try to adopt it to use your CGridListCtrlEx. My

problem i also that when I am trying to edit a subitem (with the CGridColumnTraitEdit set), the text I enter disappears when I leave the cell (either by Return or Tab).

Do you have a tip for me to what might be the problem?

[Reply](#) · [View Thread](#)



#### **Re: Help editing**

Rolf Kristensen

12-Dec-12 20:06

You give me very little to work with, which of the 3 datamodes are you using ? Think you should read up on how the `CListCtrl` is working before using it, especially if performance is important.

I would put a break point in `CGridListCtrlEx::OnEndLabelEdit()`, and see why it doesn't reach `SetItemText()`.

If you don't want to use `SetItemText()`, then you need to override `CGridListCtrlEx::OnDisplayCellText()` (`LVN_GETDISPINFO` helper) to connect the `CListCtrl` with the datamodel. And then you need to override `CGridListCtrlEx::OnEditComplete()` to update the datamodel, when edit operation has completed.

If nothing makes sense, then create an [issue at google code](#)[] with an example project.

[Reply](#) · [View Thread](#)



#### **Re: Help editing**

Gert Hauan

17-Jan-13 20:52

Thanks for your reply. Did not notice that you had replied, since I didn't get any mail about it. Sorry.

I have not had the chance to try your suggestions yet.

[Reply](#) · [View Thread](#)



#### **What is the purpose of the extra (blank) column in the demo code?**

tsjcs

5-Nov-09 19:37

Can you explain why there is an extra column in the demo code? Three columns have data and icons but a fourth column is displayed? I would like to get rid of it.

I don't really understand the "grouping" term used in the code etc and why the 0th column is unavailable. Can you please briefly explain this? Thanks.

[Reply](#) · [View Thread](#)



#### **Re: What is the purpose of the extra (blank) column in the demo code?**

Rolf Kristensen

5-Nov-09 19:59

When I start the demo application then I only see 3 columns.

Not sure what grouping you are referring to, but the `CListCtrl` supports grouping of the rows. In the demo application then this mode can be activated by right-clicking a column-header and choosing "Group By".

The 0th column is hidden in the demo-application (`InsertHiddenLabelColumn`), because `CListCtrl` has several drawing quirks with this column, that makes it different than the other columns in the `CListCtrl`.

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#### **Re: What is the purpose of the extra (blank) column in the demo code?**

tsjcs

5-Nov-09 23:38

Why is there an extra (blank) column in the demo (no header title and no data); there are 3 columns of real data but a 4th blank column appears? Shouldn't the demo only show 3 columns?

[Reply](#) · [View Thread](#)



**Re: What is the purpose of the extra (blank) column in the demo code?** Rolf Kristensen

6-Nov-09 4:15

If running the vanilla demo application attached to this article, then it should only display 3 columns.

Please try to export the following registry key (And post it in a comment using a code-block):

```
[HKEY_CURRENT_USER\Software\CGridListCtrlEx Demo Application]
```

After exporting the registry keys, then try to delete the registry key and see if the 4th column disappears.

[Reply](#) · [View Thread](#)



**Re: What is the purpose of the extra (blank) column in the demo code?**

tsjcs

6-Nov-09 22:09

>> I don't have the machine with me now but I'll try that when I get home.

>> You said to export the registry key and "post it in comment using a code-block".

I assume you just mean that you want me to reply back to this post with the value of that registry key so that you can see what it is...correct?

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**Re: What is the purpose of the extra (blank) column in the demo code?**

Rolf Kristensen

6-Nov-09 22:20

Yes I want you to post the registry keys. If you have access to other computers, then please tell if you can reproduce the case with the 4th column on the other machines.

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**Re: What is the purpose of the extra (blank) column in the demo code?**

tsjcs

6-Nov-09 22:35

Ok, thanks. I'll post the key values later tonight or tomorrow morning.

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**Re: What is the purpose of the extra (blank) column in the demo code?**

tsjcs

7-Nov-09 19:42

In the registry I see that there the "ColumnCount" variable is 3. I then looked at the image of the demo app on this page showing the image of the running demo app and I see the same thing there.

There is a column to the right of the "Country" column shown in the image. This is what I am talking about. Shouldn't the listbox end after the country column?

```
[HKEY_CURRENT_USER\Software\CGridListCtrlEx Demo Application\CGridListCtrlEx\Sample List_Default]
"ColumnData_0"="0"
"ColumnWidth_0"="100"
"ColumnData_1"="1"
"ColumnWidth_1"="100"
"ColumnData_2"="2"
"ColumnWidth_2"="100"
"ColumnCount"="3"
```

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 **Re: What is the purpose of the extra (blank) column in the demo code?**

Rolf Kristensen

7-Nov-09 20:09

 I think I understand what you mean about the 4th column. You mean the empty space after the last column (In this case the "Country"-column). 



This "empty space" makes it possible to resize the last column. This is the default behavior of the CListCtrl. If you open My Computer (Explorer.exe) then you will see the same behavior.

You can resize the other columns, so you cannot see the "empty space".

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 **Re: What is the purpose of the extra (blank) column in the demo code?**

tsjcs

7-Nov-09 20:22

 Thank you so much for your help. I assumed this must be the expected behavior once I saw the  demo screen shot.



I'm trying to come up with a simple listbox framework for using the listbox where a user:

- 1) creates a data model and sets the column headers
- 2) loads the data model row data from a list of strings, all columns will be editable
- 3) associates the data with a list control
- 4) user is notified upon cell-column edits of changed data and row-col coordinates (for validation purposes)

Looks like your control can do all these things no problem, I just don't know MFC well so I am wrestling with how to make it happen. I just want something generic so that the user can always just pass column headers and add rows to the generic listbox. It might even be possible to hide away the data model completely in this case if it handles all cell-data the same.

Any thoughts on this?

Thanks again for your help, great work on the control!

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 **Re: What is the purpose of the extra (blank) column in the demo code? [modified]**

Rolf Kristensen

7-Nov-09 22:13

 If you have little C++/MFC experience, then I recommend that you instead take a look at the .NET  Datagrid together with data-binding.



Or maybe the [A Much Easier to Use ListView](#) [^] (Also .NET but also using GNU General Public License v3.)

*modified on Tuesday, November 10, 2009 3:59 AM*

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 **Problem with selection when using ImageList**

James Duy Trinh (Vietl) 23-Oct-09 8:02

 hi all,



 When i use ImageList as below

```
// Create and attach image list
```

```
m_ImageList.Create(16, 16, ILC_COLOR16 | ILC_MASK, 1, 0);
m_ImageList.Add(AfxGetApp()->LoadIcon(IDR_MAINFRAME));
m_ImageList.Add(AfxGetApp()->LoadIcon(IDI_DELETE));
m_cLstCtrl.SetImageList(&m_ImageList, LVSIL_SMALL);
```

I don't call `m_cLstCtrl.SetCellImage(nItem, nCol, nIndex);` yet, but it caused problem with selection as image below

[http://i7.photobucket.com/albums/y252/vietdoor/listctrl\\_selection\\_problem.png\[^\]](http://i7.photobucket.com/albums/y252/vietdoor/listctrl_selection_problem.png[^])

My site: [sites.google.com/site/vietdoor](http://sites.google.com/site/vietdoor)

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Rolf Kristensen

23-Oct-09 15:52

#### **Re: Problem with selection when using ImageList**

I guess you are already using the latest version from google-code. Think you need to upload a demo application, that I can look at.  
 Please create an [Issue at Google Code\[^\]](#) and attach the demo application (Then I can also look at the row color issue).

[Reply](#) · [View Thread](#)



James Duy Trinh (Viet)

22-Oct-09 17:12

#### **Change text/back color of any row?**

Hi,

I want to have an option to specify some color for some row. This seems not to support?

I tried to implement this in `CGridRowTraitText::OnCustomDraw` and it worked.

At case `CDDS_ITEMPREPAINT`:

```
if ( IsSpecifiedRowTextColor(nRow) )
    UpdateTextColor(nRow, SpecifiedRowTextColor);
```

My site: [sites.google.com/site/vietdoor](http://sites.google.com/site/vietdoor)

[Reply](#) · [View Thread](#)



Rolf Kristensen

19-Nov-09 2:17

#### **Re: Change text/back color of any row?**

The normal way to change color of a row is to override `CGridListCtrlEx::OnDisplayRowColor()`.  
 I have tried to improve the row- and cell-coloring logic. Though I recall the row and cell-coloring doesn't look that good on Vista/Win7. You can get the latest version from google-code.

[Reply](#) · [View Thread](#)



Gareth Tye

30-Sep-09 20:26

#### **Getting a return key press (VK\_RETURN) to edit a cell**

Hi,

I want to add the ability to allow users to edit a cell by using the return key

rather than the F2 key. As you can see from the code below I have overiden the "PreTranslateMessage" function in my derived class to catch the VK\_RETURN key.

This code works fine if the Column trait for that cell is CGridColumnTraitEdit, but if it is CGridColumnTraitCombo then it only briefly shows the drop down button and then reverts back to being in a non-editing state.

Am I doing something wrong? unfourtunatly I am a bit a novice when it comes to MFC.

```
BOOL PLCGridListCtrlEx::PreTranslateMessage(MSG* pMsg)
{
    if (pMsg->message == WM_KEYDOWN && pMsg->wParam == VK_TAB)
    {
        if (GetKeyState(VK_SHIFT) & 0x8000)
        {
            MoveFocusCell(false);
        }
        else
        {
            MoveFocusCell(true);
        }
        return true;
    }
    if (pMsg->message == WM_KEYDOWN && pMsg->wParam == VK_RETURN)
    {
        if( !IsCellEditorOpen() && (GetFocus() == this) )
        {
            EditCell(GetFocusRow(), m_FocusCell);
            return true;
        }
    }
    return CGridListCtrlEx::PreTranslateMessage(pMsg);
}
```

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#### Re: Getting a return key press (VK\_RETURN) to edit a cell

Rolf Kristensen

1-Oct-09 5:45

I'm not able to reproduce the behavior with the latest source.



Could you try to take the latest modifications from [google-code](#)[^], and see if it fixes your problem ? I have cleaned up the message-handling in the CComboBox editor while fixing a [different bug](#)[^].

[Reply](#) · [View Thread](#)



#### Re: Getting a return key press (VK\_RETURN) to edit a cell

Gareth Tye

1-Oct-09 19:02

Thanks Snakefoot, the latest sources have fixed the problem.



Thanks for all your work on a great control, it is very much appreciated.

Gareth.

[Reply](#) · [View Thread](#)



#### Ending editing in dialog with ESC causing crash?

Vachaun22

30-Sep-09 0:09

I have this control on a dialog window, and for some reason when I cancel editing using the ESC key, there is a debug assertion happening in vswprintf.c. Error is:



file: ..vswprint.c

line: 313

**expression: format != NULL**

I'm not sure what is causing this. I have OnCancel being handled so that the dialog window doesn't close should the user hit the ESC key.

Any suggestions?

[Reply](#) · [View Thread](#)



Rolf Kristensen

30-Sep-09 0:12

Could you print out a complete callstack, so I can see what code is calling vswprint ?

Another possible solution is create an issue at [google-code](#)[^]and attach a demo-application with the bug.

[Reply](#) · [View Thread](#)



Rolf Kristensen

30-Sep-09 3:16

After seeing the test application you uploaded to google-code, then I can see that your CDIALOG reacts to the LVN\_ENDLABELEDIT message, and performs a TRACE of the updated string.

If the user cancels edit-mode, then the updated string is set to NULL. See also <http://msdn.microsoft.com/en-us/library/bb774814.aspx>[^]

[Reply](#) · [View Thread](#)



Vachaun22

30-Sep-09 3:22

Yep, that fixed it. I misunderstood how that notification message worked.

For some reason I was thinking that canceling an edit didn't send the notification to the control.

[Reply](#) · [View Thread](#)

**How to insert checkbox for gridcolumn?**

gasparzinho

25-Sep-09 21:17

I would like to insert checkbox for the columns in CGridColumnTraitEdit. Can you show me how to implement this?

what is wrong with my code?

```
DWORD dwStyle = pTrait->GetStyle();
dwStyle |= LVS_EX_CHECKBOXES;
pTrait->SetStyle(dwStyle);
m_ListCtrl.InsertColumnTrait(col+1, CString(title.c_str()), LVCFMT_LEFT, 100, col, pTrait);
```

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Rolf Kristensen

25-Sep-09 21:42

It is only possible to get the checkbox for a single column (called the label column). This is the default behavior of the CListCtrl.

The label column gets its checkbox when applying the LVS\_EX\_CHECKBOXES to the listctrl:

```
m_ListCtrl.SetExtendedStyle(LVS_EX_CHECKBOXES | m_ListCtrl.GetExtendedStyle());
```

Make sure not to call InsertHiddenColumn() as it will hide the label-column.

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## FAQ: Is there any idea to add Slider as editor to cell?

Behzad Ebrahimi

19-Sep-09 12:16

Thanks 😊

[Reply](#) · [View Thread](#)



## Re: Is there any idea to add Slider as editor to cell?

Rolf Kristensen

19-Sep-09 17:32

I guess one quite quickly could make a column-trait that shows a number in cell, but when clicking on the cell then a CSliderCtrl is shown, that displays a slider when clicking on the cell.

Another solution is to implement it as a CSpinButtonCtrl.

It will be more difficult if you require that the slider should always be shown

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## FAQ: could not open the request svn file system

ashy6868

6-Sep-09 12:00

I can't check out.

Err MSG : "could not open the request svn file system"

SVN : TortoiseSVN

URN : <http://gridlistctrlrex.googlecode.com/svn/trunk/>

Pls, Help me.

[Reply](#) · [View Thread](#)



## Re: could not open the request svn file system

Rolf Kristensen

6-Sep-09 22:15

The URN is wrong (missing a C in the beginning). This should work:

[http://cgridlistctrlrex.googlecode.com/svn/trunk\[^\]](http://cgridlistctrlrex.googlecode.com/svn/trunk[^])

[Reply](#) · [View Thread](#)



## FAQ: Some suggestions

Mizan Rahman

5-Sep-09 9:24

This control seems to be going to right direction.

I have few suggestions that can make this control more OO and developer friendly.

Here are the pseudo code:

```
void CMYDlg::OnInitDialog()
{
    m_MySuperGrid.Attach(IDC_LIST_CTRL);

    CCheckBoxColumn cbc = new CCheckBoxColumn();
```

```

cbc->SetDataAlignment(CContentAlignment::CenterMiddle);
cbc->SetHeaderText("Valid");
cbc->SetHeaderAlignment(CContentAlignment::CenterMiddle);
cbc->SetKey("valid"); // using the key, this column can be accessed from the collection

m_MySuperGrid.Columns().Add( cbc );

CDateTimeColumn dtc = new CDateTimeColumn();
dtc->SetDataAlignment(CContentAlignment::RightMiddle);
dtc->SetHeaderText("Start Date");
dtc->SetHeaderAlignment(CContentAlignment::CenterMiddle);
dtc->SetKey("start_date");
dtc->SetMinDateTime( new CDateTime(1992, 1, 1) );
dtc->SetMaxDateTime (new CDateTime( 2008, 1, 1));
dtc->SetEditorType (CDateTimeEditorType::DropDownAndSpinner) ); // DropDownAndSpinner, Spinner, and DropDown
m_MySuperGrid.Columns().Add( dtc );

// thus you could also have columns for progress bar, numeric types, dropdownbox, and custom type
// NOTE: all column classes should be derived from a base class - CColumn
}

// CColumn's methods could be like this:
class CColumn
{
void SetHeaderText(const CString & text);
void SetHeaderTextAlignment(CContentAlignment::Alignment alignment);
void SetHeaderImageAlignment(CContentAlignment::Alignment alignment);
void SetAlignment(CContentAlignment::Alignment alignment);
void SetPosition(int nPosition);
void SetVisible(BOOL bShow);
BOOL IsVisible();
void SetMinimunWidth(int nWidth); // in pixels
void SetMaximumWidth(int nWidth);
void SetWidth(int nWidth );
void SetEditor(CWnd * pWnd);
CWnd GetEditor();
BOOL IsColumnInView();
void SetHeaderImage(int nIndex); // an index from CImageList
void SetEnable(BOOL bEnable);
BOOL IsEnabled();
// most SetXXX methods should also have GetXXX methods
// one can think of few more 😊
}

// The CSuperGrid could liek like this;
class CSuperGrid;
{
void SetAllowColumnReorder(BOOL bAllow);
CColumnList * GetColumns() const;
CColumn * GetColumnByKey(const CString & sKey);
void SetOddRowBackColor( COLORREF clr);
void SetEvenRowBackColor( COLORREF clr );
void ShowHeader(BOOL bShow );
void IsHeaderVisible();
void SetWrapText(BOOL bWrap);
void ShowToolTip(BOOL bShow );
void SortOnHeaderClick(BOOL bSort);
}

```

```
void SetVirtualMode(BOOL bVirtual) // in this case, you will have do more mechanism to achieve virtual mode. this will
allow user to work with large dataset.
// more method can be think of
}
```

I hope I manage to get my idea across. 😊

Keep up the good work.

Thanks

Mizan

[Reply](#) · [View Thread](#)



Rolf Kristensen

5-Sep-09 18:46

#### Re: Some suggestions

I think I understand your ideas, since it can be confusing that there are two interfaces for handling columns.  
 \* The standard CListCtrl interface InsertColumn() and SetColumn(), that are very close to the Win32 functions.  
 \* The CGridListCtrlEx interface InsertColumnTrait() with CGridColumnTrait



I guess I could add a new method to CGridColumnTrait called OnInsertColumn(), which is called by InsertColumnTrait(). This will allow you to inherit from CGridColumnTrait, and make the OO interface you want (Just store the pointer to CGridListCtrlEx given by OnInsertColumn in your specialized version of CGridColumnTrait).

I generally avoided to duplicate the CListCtrl interface for manipulating the columns. But you are very welcome to publish your own CGridColumnTrait classes.

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#### Suggestion: ability to have columns that cannot be hidden

Michael Rusakow

23-Jul-09 16:13

Hi,

Thank you for the useful class! Just playing and testing it. I have a suggestion: a simple way to prevent hiding columns.

Add a protected virtual function into the CGridListCtrlEx class:

```
virtual BOOL CanHideColumn(int nCol){return TRUE;}
```

Then modify CGridListCtrlEx::InternalColumnPicker() function to call CanHideColumn() and disable the menu item if the column cannot be hidden.

```
// Put check-box on context-menu
if (IsColumnVisible(i))
    uFlags |= MF_CHECKED;
else
    uFlags |= MF_UNCHECKED;

if (!CanHideColumn(i))           //Just add two
    uFlags |= MF_DISABLED; //strings here

//...
```

After all, anyone can create own class derived from CGridListCtrlEx and override CanHideColumn() function for their needs. For example:

```
const kColumnName = 1;
/*virtual*/ BOOL MyOwnGridCtrl::CanHideColumn(int nCol)
{
    if (kColumnName == nCol)
        return FALSE;
    return TRUE;
}
```

I have already done the suggested changes to my (current) version of the class, but just want to share...

Thank you in advance!

---

Sincerely,  
Michael Rusakov.  
<http://www.wincatalog.com>

[Reply](#) · [View Thread](#)



24-Jul-09 5:28

#### Re: Suggestion: ability to have columns that cannot be hidden

Rolf Kristensen

Hi ya

Thank you for the suggestion.



I have now added a new method to CGridListCtrlEx called IsColumnAlwaysVisible().

This method can be overridden when inheriting from CGridListCtrlEx.

Best regards

-Rolf

P.S. Get the updated CGridListCtrlEx source from google code.

[Reply](#) · [View Thread](#)



24-Jul-09 7:21

#### Re: Suggestion: ability to have columns that cannot be hidden

Michael Rusakow

Hi Rolf,



>P.S. Get the updated CGridListCtrlEx source from google code.

Thank you very much for the quickest update! 😊

Keep up the good work!

---

Sincerely,  
Michael Rusakov.  
<http://www.wincatalog.com>

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#### \_tstof not found

simplesoft2002

17-Jul-09 15:52

\_tstof not found

7/6/24, 11:58 AM

CGridListCtrlEx - Grid Control Based on CListCtrl - CodeProject



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**Re: \_tstof not found**

Rolf Kristensen

17-Jul-09 16:31

Have fixed this VC6 compiler error, just download the updated version of the code from google-code.

Reply · View Thread

 **SetLimitText for Edits?**

Ren\_Hoek

1-Jul-09 21:53

Nice work on this control! I'm trying to figure out how to limit an edit's length (similar to .SetLimitText) but I don't see that that is implemented. Any help with this?



Thx.

*modified on Wednesday, July 1, 2009 4:32 PM*

Reply · View Thread

 **Re: SetLimitText for Edits?**

Rolf Kristensen

1-Jul-09 22:17

There should be no problem in creating your own column trait that inherits from CGridColumnTraitText.

Your new column-trait can then override the virtual method CreateEdit and apply what ever changes you want to the CEdit control (Like SetLimitText).

Reply · View Thread

1.00/5 (1 vote)

 **Re: SetLimitText for Edits?**

Ren\_Hoek

2-Jul-09 4:33

Yup - no problem doing that. Just wanted to make sure I wasn't overlooking anything. Thx.

Reply · View Thread

 **Re: SetLimitText for Edits?**

Rolf Kristensen

2-Jul-09 16:56

I have tried to make the column traits as simple as possible. This limits their functionality, but makes them easier to understand and lowers the chance of introducing bugs that I later have to fix 😊

Reply · View Thread

 **How to implement CGridListCtrlEx::OnDisplayCellColor() and CGridListCtrlEx::OnDisplayRowColor()**

Ananthanatarajan

25-Jun-09 19:52

I am new to MFC and List Ctrl in VC++. It is a very easy control to implment. But could you please guide me to change font and color of a particular Cell and Row. You have mentioned about virtual functions OnDisplayCellColor() and OnDisplayRowColor(), but I dont know how to implement these functions. If you could give an example of these functions it would be of great beneficial.

Reply · View Thread

1.00/5 (2 votes)

 **Is it easy to add Checkbox style on a cell?**

DaNang

11-Jun-09 2:54

Is there an easy way to add Checkbox support for the CGridListCtrlEx?

Thanks,

Reply · View Thread



## Re: Is it easy to add Checkbox style on a cell?

Rolf Kristensen

11-Jun-09 17:46

It is possible to get a checkbox for the first column, by applying the extended style LVS\_EX\_CHECKBOX (Doesn't work together with InsertHiddenColumn())



If want to have multiple checkboxes on the same row, then I guess the proper solution would be to create a column trait that can draw the checkbox. A less ambiguous approach would be to create a simple column trait that displays either "true" or "false", and when clicking the cell, then it switches value. One could extend this approach, so it creates a checkbox when clicking the cell, so it doesn't change value by just clicking in the cell.

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## Re: Is it easy to add Checkbox style on a cell?

James Duy Trinh (VietDc) 30-Jun-09 18:11

Hi all,

I get a cell, how to add CheckBox on that cell? And can get its status?

```
pTrait = m_cLstSanPham.GetCellColumnTrait(rowIndex, 0);
```

---

My site: [sites.google.com/site/vietdoor](http://sites.google.com/site/vietdoor)

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## How shall I get the column or row type ?

ERLN

9-Jun-09 12:52

What is the underlaying editor of cell how ? it is text or date etc...? how ?

Reply · View Thread



## Re: How shall I get the column or row type ? [modified]

Rolf Kristensen

9-Jun-09 18:37

Not sure I understand the question. But the cell editor is created by the column trait, and the value used in the editor is the text-value shown in the cell.



In certain situations one might want to take the value directly from the datamodel, instead of first converting it to a cell-text-value. This can be done by intercepting OnTraitEditBegin() and OnTraitEditComplete().

When overriding OnTraitEditBegin() or OnTraitEditComplete() then you can use a simple dynamic cast to see the editor-type. But usually the column-data-id will be matching a certain field in the datamodel, and then you should be able to guess the editor-type.

**Update** in CGridListCtrlEx ver. 1.7 OnTraitEditBegin() and OnTraitEditComplete() has been renamed to OnEditBegin() and OnEditComplete()

modified on Friday, January 22, 2010 9:52 AM

Reply · View Thread

1.00/5 (1 vote)



## Re: How shall I get the column or row type ?

ERLN

10-Jun-09 12:59

fine . my question at runtime how can i detect whether it is numeric,date, or text or combobox etc...

Reply · View Thread



 **Re: How shall I get the column or row type ? [modified]**

Rolf Kristensen

10-Jun-09 17:31

- When overriding OnTraitEditBegin() or OnTraitEditComplete() then you can use a simple dynamic cast to see the editor-type.
-  **Update** in CGridListCtrlEx ver. 1.7 OnTraitEditBegin() and OnTraitEditComplete() has been renamed to OnEditBegin() and OnEditComplete()

modified on Friday, January 22, 2010 9:50 AM

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 **column err?**

bartoy

5-Jun-09 17:18

- Great work!
- But, I become the error when demo finished after having double-clicked the boundary line of the column header.
-  It occurs in VC2008(SP1) and does not occur in VC6.

Reply · View Thread



 **Re: column err?**

Rolf Kristensen

9-Jun-09 4:31

- Thank you for reporting this error. I can reproduce it myself, and will look into it.
-  Reply · View Thread



 **Re: column err?**

Rolf Kristensen

9-Jun-09 6:39

- I have fixed the bug, where it deallocated a CFont object without allocating it first.
-  Get the lastest source update from google code.

Reply · View Thread



 **Re: column err?**

bartoy

9-Jun-09 12:21

- Thank you for a quick revision 😊
-  Reply · View Thread



 **ASSERT(nColOrder==1);**

rlien

1-Apr-09 1:39

- Hi,
- Thanks you for sharing your great code.

 When I start the application an assertion fails on line 151 in CGridColumnManagerProfile.cpp. The assertion is 'ASSERT(nColOrder==1)'. The actual value for nColOrder is '0'. Seems to me that this is just a typo in the assert statement?

RL

Reply · View Thread



 **Re: ASSERT(nColOrder==1);**

Rolf Kristensen

1-Apr-09 2:00

- Thank you for telling. I guess I should remember to run my code in debug mode as well, so asserts doesn't become no-operations.



I have updated the source code at Google Code.

[Reply](#) · [View Thread](#)



#### [Re: ASSERT\(nColOrder== -1\);](#)

rlien

1-Apr-09 2:14

Thanks for the utterly prompt reply 😊



RL

[Reply](#) · [View Thread](#)



#### [Crash in CGridListCtrlEx::IsThemeEnabled](#)

Todd Bender

16-Mar-09 23:27

FYI...CGridListCtrlEx::IsThemeEnabled was crashing on the call to plsAppThemed on one (and only one) desktop at our site. Looking at the code, calling ::FreeLibrary before calling plsAppThemed or plsThemeActive didn't look right.  
 Restructuring the code to call ::FreeLibrary after the loaded proc addresses had been called resolved the crash.

[Reply](#) · [View Thread](#)

5.00/5 (1 vote)



#### [Re: Crash in CGridListCtrlEx::IsThemeEnabled](#)

Rolf Kristensen

17-Mar-09 1:40

Thank you for reporting this bug, I have fixed the embarrassing bug. You can get the updated version from Google code.  
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#### [The sample\(VC6\) can't run on computers which does not install VC](#)

boolpc

11-Mar-09 11:46

Does it need some dlls? Would you help me? Thanks.

Reply · [View Thread](#)



#### [Re: The sample\(VC6\) can't run on computers which does not install VC](#)

Rolf Kristensen

11-Mar-09 17:29

Are you using Visual Studio 6 to compile the project ?

Are you distributing the Release build of the project ?

Are you using static linking to the MFC library ?

[Reply](#) · [View Thread](#)



#### [Re: The sample\(VC6\) can't run on computers which does not install VC](#)

boolpc

11-Mar-09 18:15

Yes,Visual Studio 6, and Win2000 system.

Release build with static library.

I commented this line:

DDX\_Control(pDX, IDC\_LIST1, m\_ListCtrl);

then others can run the sample.

Does it run on WinXP system only? I'll try to build it on winXP system tomorrow, then tell you the result.

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#### [Re: The sample\(VC6\) can't run on computers which does not install VC](#)

Rolf Kristensen

11-Mar-09 19:51

Can users with Win2000 run the standard CGridListCtrlEx sample-application attached to this article ?



 Does the sample application run on Win2000 systems with Visual Studio 6.0 installed ?

What kind of error do the Win2000 users get when launching the application ?

Are there any DLL's missing when using depends.exe (Visual Studio Tool) to check DLL dependencies on Win2000 ?

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 **Re: The sample(VC6) can't run on computers which does not install**

VC

 boolpc

12-Mar-09 10:03

 I compiled the sample codes on Win2000 and WinXP system both with Visual Studio 6.0 yesterday(static library), then used depends.exe to check it, there is no dll missed. finally, test it on different system(Win2000,Win2003).

 When I executed the sample application, the window didn't create, but the process could be seen in the taskmanager of Windows several seconds, then terminated.

But the one whose machine installed Visual Studio could run the application well.(Win2000,WinXP). I'll test more about it, then report the result.

Reply · View Thread



 **Re: The sample(VC6) can't run on computers which does not install**

VC

 boolpc

12-Mar-09 10:08

 When I compiled the sample codes, there were 4 warnings:

 Linking...

 LINK : warning LNK4089: all references to "OLEAUT32.dll" discarded by /OPT:REF

LINK : warning LNK4089: all references to "SHELL32.dll" discarded by /OPT:REF

LINK : warning LNK4089: all references to "comdlg32.dll" discarded by /OPT:REF

LINK : warning LNK4089: all references to "ole32.dll" discarded by /OPT:REF

Creating browse info file...

DemoVC6.exe - 0 error(s), 4 warning(s)



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 **Re: The sample(VC6) can't run on computers which does not install VC**

 Rolf Kristensen

12-Mar-09 8:28

 Have you tried setting \_WIN32\_WINNT and \_WIN32\_WINDOWS to 0x0500 (instead of 0x0501) in stdafx.h ?

 Reply · View Thread



 **Runtime ColumnTrait -- how**

 ERLN

10-Mar-09 17:14

 I have inserted 3 columns with edit columntrait. no issues.

 Working fine.



Now I want for a specified row and column I need to set column trait.

Means customization of each cell or specified cell like that.

how to do it.

i tried at runtime delete columntrait and insert column trait. it not worked.

Guide the solutions. (don't recommend other grid control because my project is already using this grid. and also very nice except this feature).

[Reply](#) · [View Thread](#)
 **Re: Runtime ColumnTrait -- how**

Rolf Kristensen

10-Mar-09 18:29

There is no initial support for custom cell-behavior. What is it you want to change for a specific cell ?

It is possible to override GetRowTrait() if wanting to perform special drawing according to a specific row.

I guess I could extend this with a GetCellColumnTrait() so one can specify a specific column-trait for a single cell.

[Reply](#) · [View Thread](#)
 **Re: Runtime ColumnTrait -- how**

ERLN

11-Mar-09 1:44

ok fine. When can i expect that. OR shall you guide with help of small code snippet.? I can expand that GetCellColumnTrait() for my project.( I have already told I tried to deletecolumntrait and insertcolumntraing not worked for me.)

[Reply](#) · [View Thread](#)
 **Re: Runtime ColumnTrait -- how**

Rolf Kristensen

11-Mar-09 17:40

I'm pretty busy right now, so I will not be able to give the project much time.

One way would be to correct all calls to GetColumnTrait() to GetCellColumnTrait(), and then also supply the available row-number. Then I would inherit from the CGridListCtrlEx and then override the GetCellColumnTrait() where I would have my own container of column-trait that are used when needing to divert from the default-container of column-trait.

This would allow you to override the column-trait for a single cell.

Another solution would be to fix all places where a column-trait is used, and create a virtual function that gets the default column trait as parameter. Then one could override these virtual functions when needed, and either implement the solution directly in the inherited CListCtrl, or maintain its own container of column-trait and then call the parent-version of the function, and pass the diverting column-trait.

This would allow you to override the column-trait for a single cell, and make it possible to modify behavior without using column-trait if needed.

[Reply](#) · [View Thread](#)
 **Re: Runtime ColumnTrait -- how**

Rolf Kristensen

12-Mar-09 9:09

I have implemented the first solution by adding a new method call GetCellColumnTrait().

By default it will just get the global column trait with no regard to the row.

But it is possible to override the method, and return a custom column-trait for a certain cell/row. Though one must manually handle the creation / deletion of these extra custom column traits.

[Reply](#) · [View Thread](#)
 **Re: Runtime ColumnTrait -- how**

ERLN

7-Apr-09 18:29

Did u updated anything on Custom Cell Editing ?

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[Re: Runtime ColumnTrait -- how \[modified\]](#)

Rolf Kristensen

7-Apr-09 19:18

▶ You can override the method OnTraitEditBegin() and control whether cell editing should be allowed  
 ▼ (And what editor it should use).



If you get the latest version of CGridListCtrlEx from Google code, then you can control whether the column-trait is activated at all.

**Update** in CGridListCtrlEx ver. 1.7 OnTraitEditBegin() has been renamed to OnEditBegin()

modified on Friday, January 22, 2010 9:53 AM

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[Re: Runtime ColumnTrait -- how](#)

ERLN

13-Apr-09 12:31

▶ Thanks for the update I need your mail address. Actually I need checkbox support with listbox also  
 ▼ (other than extended style) . For that I created 2 files like CGridColumnTraitCombo,  
 ▲  
 ▼ CGridColumnTraitButton. But I am not able to test it now. because of busy in work I am not able to  
 continue that. Also I am not able to reply on time. I will send those files. then you can integrate that easily  
 in listctrl and that update will be available to all and also me. Let me know your views.

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[Re: Runtime ColumnTrait -- how](#)

Rolf Kristensen

14-Apr-09 6:40

▶ You can create an issue at [Google Code](#)[^] and attach your contribution.

◀ [Reply](#) · [View Thread](#)

[Re: Runtime ColumnTrait -- how](#)

ERLN

10-May-09 3:00

▶ With respect to your words. I have attached the files with issue 2 days back.  
 ▼ Sorry for delay from me. let me if issue is solved.

◀  
 WM\_QUIT  
 RLN Simha

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[Data](#)

skydan

25-Feb-09 12:38

▶ How can I get changed by the user data from the list to my datamodel....????

◀ [Reply](#) · [View Thread](#)

1.00/5 (1 vote)

[Re: Data \[modified\]](#)

Rolf Kristensen

25-Feb-09 16:58

◀ CGridListCtrlEx::OnTraitEditComplete() is called after a cell has been edited. ▶

⌚ You can extract the updated cell-value from the LV\_DISPINFO parameter (pLVDI->item.pszText)

**Update** in CGridListCtrlEx ver. 1.7 *OnTraitEditComplete()* has been renamed to *OnEditComplete()*

modified on Friday, January 22, 2010 9:54 AM

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1.00/5 (1 vote)

**Good - But VC6 ..?**

ERLN

24-Feb-09 23:31

◀ Good I am expecting these features in ListCtrl But whatever source( may be from codeproject or googlecode ) No code is compile under Visual C++ 6.0 Please give the full set of including project/workspace of compilable source for Visual C++ 6.0.

⌚ If anything I need to mail you directly also i will do that. it is very urgent for me.

Reply · View Thread

1.00/5 (1 vote)

**Re: Good - But VC6 ..?**

Rolf Kristensen

24-Feb-09 23:35

◀ I don't have access to all the different versions of Visual Studio, so it it is difficult for me to provide working projects for all of them.



⌚ Though I'm looking into this problem, then there is no quick solution.

There is a small VC6 project you can play around with here (You might want to update the CGridListCtrlEx folder with the latest source from google-code).

[Demo Application for CGridListCtrlEx with VC6](#)

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**Re: Good - But VC6 ..?**

ERLN

25-Feb-09 18:11

◀ ok fine. i will look at this link for vc6 based source code. Also i will wait for update.

⌚ Apart from this. Is any support for Checkbox in this?



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**Re: Good - But VC6 ..?**

Rolf Kristensen

25-Feb-09 18:44

◀ Besides the one provided by the label-column (LVS\_EX\_CHECKBOXES), then there is no support for checkboxes.



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**Re: Good - But VC6 ..?**

ERLN

10-Mar-09 17:11

◀ Thanks. I got the VC6 based grid ctrl. But it doesn't support grouping.... wat to do?



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**Re: Good - But VC6 ..?**

Rolf Kristensen

12-Mar-09 8:19

◀ Think the problem is that VC6 comes with a MFC library where CListCtrl doesn't have the methods available for grouping.



Even if downloading the latest platform SDK, then one will only get the win32 API for working with groups, and not the update MFC library.

To get around this issue then you must put in a new class between CGridListCtrlEx and CGridListCtrlGroup. This class will implement all the needed group methods like InsertGroup(), and call the relevant Win32 API. Then let GridListCtrlGroup inherit from your new class.

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### [Updated google code so VC6 with platform SDK can use groups](#)

Rolf Kristensen

17-Mar-09 6:24



Have added support for groups when using VC6 and have platform SDK installed. Just have to define \_WIN32\_WINNT to be 0x0501 or higher (By default lowered for VC6).



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### [Re: Updated google code so VC6 with platform SDK can use groups](#)

ERLN

7-Apr-09 18:26



I have \_WIN32\_WINNT to 0x0501



Even though I don't have support of Groups.

I have added code for groups related things.

That is enable the group view and called gridobj.GroupByColumn(0);

Even after I am not getting groups.

My Environment is VC6 with latest platform SDK (February 2003 is latest for VC6 with respect to Microsoft)

Please update me regarding this.

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### [Re: Updated google code so VC6 with platform SDK can use groups \[modified\]](#)

Rolf Kristensen

7-Apr-09 18:44



With the latest version of CGridListCtrlEx then you don't need to make modifications to enable group support on Windows XP / Vista, but just need the latest platform SDK.



*modified on Tuesday, April 7, 2009 7:18 AM*

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**Re: Updated google code so VC6 with platform SDK can use groups**

ERLN

13-Apr-09 12:33

- ◀ no it's not worked for me. even I have latest platform sdk on my VC6 environment. Group is not working .
- ◀ Anyway try to test and give the binary with working groups enabled version and it should be compiled in vc6

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**Re: Updated google code so VC6 with platform SDK can use groups**

Rolf Kristensen

14-Apr-09 6:45

- ◀ Not sure what you want me to do. What happens if you try to debug the application ?
- ◀ Seems the problem is not related specifically to CGridListCtrlEx but any CListCtrl where you try to use grouping of rows on Windows XP/Vista.

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**Re: Updated google code so VC6 with platform SDK can use groups**

Rolf Kristensen

19-Apr-09 22:36

- ◀ Btw. grouping is not supported in CListCtrl when using LVS\_OWNERDATA (virtual list mode)
- ◀ [Reply](#) · [View Thread](#)



**Re: Updated google code so VC6 with platform SDK can use groups**

Rolf Kristensen

25-Sep-09 14:37

- ◀ Btw. when you compile the Stdafx.cpp in the demo application, do you get any warnings like this? (If you do then you have not configured the SDK properly)
- ◀ `afxv_w32.h(119) : warning C4005: '_WIN32_WINDOWS' : macro redefinition`



When you debug the application, what is returned by the internal function IsThemeEnabled() inside CGridListCtrlEx.cpp ?

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**Great work!**

Hans Dietrich

15-Feb-09 8:37

- ◀ This looks like a very nice implementation.

◀ Some comments:

- 1) I notice you have a VS6 project on google. Have you merged these changes into main svn source? Can the latest svn source from google be compiled using VS6?
- 2) I think your up/down sort arrows are flipped. In Explorer, if files are listed A - Z (starting with A), then arrow points up (meaning ascending sort). In your demo, arrow points down for ascending sort.
- 3) Using RapidSVN to download the svn source, I used this url <http://cgridlistctrlex.googlecode.com/svn/trunk/> instead of the one shown on google page.
- 4) It would be nice to see the version number in the source files, at least in CGridListCtrlEx.cpp, to verify that you have

latest version.

Best wishes,  
Hans

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Rolf Kristensen

15-Feb-09 11:09

**Re: Great work! [modified]**



Hans Dietrich wrote:

1) I notice you have a VS6 project on google. Have you merged these changes into main svn source? Can the latest svn source from google be compiled using VS6?

The lastest SVN should compile fine with VS6, though there is no official VS6 project (quite a hazzle to support all versions of VS). If you find bugs or compile errors in VS6 then please tell.

2) I think your up/down sort arrows are flipped. In Explorer, if files are listed A - Z (starting with A), then arrow points up (meaning ascending sort). In your demo, arrow points down for ascending sort.

I think you are right, thank you for telling. I will correct this.

3) Using RapidSVN to download the svn source, I used this url  
<http://cgridlistctrlex.googlecode.com/svn/trunk/> instead of the one shown on google page.

Think google has two different urls depending on whether you need write or read access to the SVN repository.

4) It would be nice to see the version number in the source files, at least in CGridListCtrlEx.cpp, to verify that you have latest version.

I have made at lot of minor changes to the source-code without updating this codeproject article. But I see the need for some kind of documentation of major versions in source-code, instead of just the dates where the codeproject-article was updated (in case people move the source into their own version control repository). I will correct this with the next major update (Planning to add persistence of list-settings)

Glad you like the solution, comments are always welcome 😊

*modified on Saturday, February 14, 2009 11:17 PM*

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Hans Dietrich

15-Feb-09 15:02

**Re: Great work!**



Snakefoot wrote:

The lastest SVN should compile fine with VS6, though there is no official VS6 project (quite a hazzle to support all versions of VS).

I developed a multi-VS project hierarchy while writing my CP articles. I hope you do not mind - it was easier to do it than explain what should be done - I took the latest svn source and put it into this hierarchy, which provides VS6, VS2005, and VS2008 projects using same source. You can take a look here: <http://www.codeproject.com/script/Membership/Uploads/15759/CGridListCtrlEx.zip>[^]

The main changes I made:

1. I replaced contents of stdafx.h
2. The .rc file now includes the manifest file conditionally for vs6 via resource define \_VC60.
3. The vs2005 manifest gets defined in stdafx.h
4. I added pragma's to suppress various warning - search for 'pragma'.
5. I changed from "#if \_WIN32\_WINNT >= 0x0501" (in files like CGridListCtrlGroups.cpp, .h) to "#if \_MSC\_VER > 1400", since what you are trying to do is determine which compiler is being used, not which OS.
6. (vs2008) turned off /Wp64 to disable warning
7. (vs2008) turned on Unicode - CListCtrl::InsertGroup needs it (you get warning if not enabled)
8. (vs2008) fixed LPWSTR conversion cast

You have great list control here, I hope you continue to enhance it.

---

Best wishes,  
Hans

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**Re: Great work! [modified]**

Rolf Kristensen

15-Feb-09 18:21

The main problem is that I don't always have access to multiple versions of VS, so I can maintain the projects (Add / Remove files, Check for warnings etc.).



Hans Dietrich wrote:

I replaced contents of stdafx.h

I think that the stdafx.h I supply is merely for the demo-application to work. Most application will already have an existing stdafx.h.

The .rc file now includes the manifest file conditionally for vs6 via resource define \_VC60.

Nice trick with actually giving a project specific define to the resource-compiler. If I'm able to maintain projects for each version of VS, then this would avoid a lot of questions about manifest problems.

The vs2005 manifest gets defined in stdafx.h

This was already the case with the old stdafx.h

I added pragma's to suppress various warning - search for 'pragma'.

I have considered doing this for some of the more innocent warnings (like unreferenced formal parameter, and

variable isn't used etc.). But I probably want to push / pop the warning state, so when including my header files then it will not affect the global warning-state.

 I changed from "#if \_WIN32\_WINNT >= 0x0501" (in files like CGridListCtrlGroups.cpp, .h) to "#if \_MSC\_VER > 1400", since what you are trying to do is determine which compiler is being used, not which OS.

Microsoft uses \_WIN32\_WINNT to specify platform target (You can see in CGridListCtrlGroups that I have to do an actual runtime test to see if it is Vista or above). One can download the Microsoft SDK and tell VS6 to use these include files instead, and it will be able to compile a program with group-support. Microsoft own include files also uses \_WIN32\_WINNT, so if this is not properly defined then the functions and structures needed for group-functionality will not be available. One can compile a program that targets Win2k with VS2008 and you will get compile errors, about structures not existing if not testing for \_WIN32\_WINNT.

 (vs2008) turned off /Wp64 to disable warning

Is it a warning because some part of the code is not 64bit compatible, or is it project setting no longer supported warning ?

 (vs2008) turned on Unicode - CListCtrl::InsertGroup needs it (you get warning if not enabled)

What kind of warning do you get when not in unicode mode ?

 (vs2008) fixed LPWSTR conversion cast

Will compare the code you supplied against the SVN-repository and see what changes you have made and apply them as soon as possible.

Thank you for your interest in this project. I can see that you are not the only one requesting better support for all the different versions of VS.

*modified on Sunday, February 15, 2009 10:04 AM*

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#### Re: Great work! [modified]

 Rolf Kristensen

15-Feb-09 20:04

  I have now fixed most of the compiler warnings, though I haven't introduced the file specific pragmas yet.  
(right now it remains globally defined in the stdafx.h)



I have also fixed the compiler error in CGridListCtrlGroups, when using unicode and \_WIN32\_WINNT >= 0x0600. At the same time fixed the code, so it should also compile with VC6 (Stopped using GetString).

I will look into maintaining multiple VS projects.

*modified on Sunday, February 15, 2009 10:03 AM*

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2.00/5 (1 vote)

**Re: Great work!**

Rolf Kristensen

15-Feb-09 23:40

I have fixed the issue with sort-order arrow being opposite of Windows Explorer



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**help me, how to remove the LVS\_EX\_FULLROWSELECT style?**

boolpc

13-Feb-09 9:07

DWORD dwStyle = m\_ListCtrl.GetExtendedStyle();  
 m\_ListCtrl.SetExtendedStyle(dwStyle & (~LVS\_EX\_FULLROWSELECT));



then the EditTrait,ComboTrait can't respond the clicked message, help me please,thank you. 😊

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 **Re: help me, how to remove the LVS\_EX\_FULLROWSELECT style?**

Rolf Kristensen

13-Feb-09 18:54

When not using LVS\_EX\_FULLROWSELECT, then it is only the label-column that gets the selection-color and not the entire row (In the vanilla CListCtrl).



Because the label-column behaves (looks) very different than the other columns, then it is hidden away in CGridListCtrlEx (See InsertHiddenLabelColumn). This means that you cannot see the selection-color of the row with focus.

The vanilla CListCtrl doesn't change row focus when clicking in other columns than the label-column, when not using LVS\_EX\_FULLROWSELECT.

I have now made a small update so the focus rectangle is shown properly when clicking on other columns than the label-column, and not using LVS\_EX\_FULLROWSELECT. You can find the updated code at [Google Code](#)

There is still problem with showing selection when selecting multiple rows without LVS\_EX\_FULLROWSELECT. Not sure if this can be fixed easily.

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2.00/5 (1 vote)

**Re: help me, how to remove the LVS\_EX\_FULLROWSELECT style?**

Rolf Kristensen

13-Feb-09 20:00

Made another small fix so if not calling InsertHiddenLabelColumn(), then the label-column will be able to show row-selection.



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 **Re: help me, how to remove the LVS\_EX\_FULLROWSELECT style?**

boolpc

16-Feb-09 9:14

thank you very much. 😊

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 **CGridListCtrlGroups m\_ListCtrl**

skydan

28-Jan-09 0:29

How to clear content of m\_ListCtrl.  
 When I add new row after init i do next-



```
//Adding data to data model
m_DataModel.m_Records.push_back( CListCtrl_DataRecord(GetTime(), id, "Client", key, "Waiting") );

//Adding data to grid
int nItem = 0;
```



If you can show me places in CGridListCtrlEx where I should be using CString, then please tell.

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### **how to use Group on XP**

chenyu2202863

20-Jan-09 9:06

only use on Vista?

[Reply](#) · [View Thread](#)

1.00/5 (1 vote)

---

### **Re: how to use Group on XP**

Rolf Kristensen

20-Jan-09 16:13

There is group functionality in Windows XP. Just right-click the column-header and choose "Group by: X" in the demo application.



There is also the article [CListCtrl and grouping rows](#) if wanting to know more about grouping.

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---

### **Small bug in context menu handling**

elo123

28-Dec-08 16:51

Hi, you have small bug in CGridListCtrlEx.cpp on line 1394:

HDHITTESTINFO hdhti = {0};  
hdhti.pt = pt; // here is the bug  
::SendMessage(GetHeaderCtrl()->GetSafeHwnd(), HDM\_HITTEST, 0, (LPARAM) &hdhti);  
OnContextMenuHeader(pWnd, point, hdhti.item);

The problem is that you aren't taking into account horizontal scrolling.

It should be like this:

```
HDHITTESTINFO hdhti = {0};  
hdhti.pt.x = pt.x + GetScrollPos(SB_HORZ);  
hdhti.pt.y = pt.y;
```

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5.00/5 (2 votes)

---

### **Re: Small bug in context menu handling**

Rolf Kristensen

5-Jan-09 23:29

Thank you for reporting this bug. Could see that the hittest failed to recognize what column-header was right-clicked when doing horizontal scrolling.



You can download the fixed version of CGridColumnEx.cpp from [Google Code](#)

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---

### **ComboBox CBN\_SELCHANGE message. Give me some advise please.**

Member 2168302

18-Dec-08 4:36

Let me make things clear - my post is not a bug or error report. I only ask help in some thing. I need catch CBN\_SELCHANGE notification message from each of ComboBox'es in Grid. Could anybody put some example or link.



Best regards!

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---

### **Re: ComboBox CBN\_SELCHANGE message. Give me some advise please.**

Rolf Kristensen

18-Dec-08 4:53

- Usually one wants to catch the CBN\_SELCHANGE when wanting to know when the value is changed.
- If you inherit from CGridListCtrlEx and override the function OnTraitEditComplete(), then this method will be called when ever the user have completed a cell-edit.

You can dynamic cast the second parameter (pEditor) to CComboBox to detect whether it was combobox that changed value.

Another option is that you create your own combo-trait (inheriting from CGridColumnTraitCombo), and override the CreateComboBox() and return your own CComboBox (inheriting from CGridEditorComboBox) that makes special handling of CBN\_SELCHANGE.

Best regards

-Rolf

**Update** in CGridListCtrlEx ver. 1.7 OnTraitEditComplete() has been renamed to OnEditComplete()

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---

**Re: ComboBox CBN\_SELCHANGE message. Give me some advise please.** Member 2168302 18-Dec-08 6:16

- >If you inherit from CGridListCtrlEx and override the function OnTraitEditComplete(), then this method will be called when ever the user have completed a cell-edit.
- Thanks. But how i can determine that cell-edit of exact ComboBox was finished (not Text, DateTime etc...)

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---

**Re: ComboBox CBN\_SELCHANGE message. Give me some advise please. [modified]** Rolf Kristensen 18-Dec-08 6:23

- You can dynamic cast OnTraitEditComplete's second parameter (pEditor) to CComboBox to detect whether it was a combobox that changed value.
- Another solution can be to inherit from CGridColumnTraitVisitor and use the visitor pattern for the first parameter (pTrait) and react to CGridColumnTraitCombo.

**Update** in CGridListCtrlEx ver. 1.7 OnTraitEditComplete() has been renamed to OnEditComplete()

modified on Friday, January 22, 2010 9:56 AM

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---

**Re: ComboBox CBN\_SELCHANGE message. Give me some advise please.** Member 2168302 19-Dec-08 1:36

- >You can dynamic cast OnTraitEditComplete's second parameter (pEditor) to CComboBox to detect whether it was a combobox that changed value.
- Sorry, but i'm not clearly understand what do you mean. Please explain in few words.

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---

**Re: ComboBox CBN\_SELCHANGE message. Give me some advise please. [modified]** Rolf Kristensen 19-Dec-08 16:42

- This is pseudo code, so don't expect it to compile:



```

bool MyListCtrl::OnTraitEditComplete(CGridColumnTrait* pTrait, CWnd* pEditor, LV_DISPINFO*
pLDI)
{
    CComboBox* pComboBoxEditor = dynamic_cast<CComboBox*>(pEditor);
    if (pComboBoxEditor != NULL)
    {
        // Huray cell-value changed by combo-box
    }
    return true; // Accepts the new value
}

```

**Update** in *CGridListCtrlEx* ver. 1.7 *OnTraitEditComplete()* has been renamed to *OnEditComplete()*

modified on Friday, January 22, 2010 9:56 AM

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**Re: ComboBox CBN\_SELCHANGE message. Give me some advise please.** Member 2168302 19-Dec-08 19:28

I appreciated for a help! Seems like i need to go read good book about c++.



Best regards!

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**help me, can not work in vc++ 6.0**

mountaintop

14-Dec-08 15:18

in my dialog project, I add a listctrl, then use the CGridListCtrlEx addcording to the demo, compile all files, it is no problem , but if run it, failure is occur,why?



in my stdafx.h, I add the following content:

```
#include <atlbase.h>
#include <string>
#include <vector>
#include <algorithm>
using namespace std;
```

in CDemoDialogDlg.cpp, I add the following conten

```
#include "CGridListCtrlEx\CGridColumnTraitEdit.h"
#include "CGridListCtrlEx\CGridColumnTraitCombo.h"
#include "CGridListCtrlEx\CGridRowTraitXP.h"
```

thanks! 😊

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2.00/5 (1 vote)



**Re: help me, can not work in vc++ 6.0**

Rolf Kristensen

15-Dec-08 19:37

I have created an issue at google code, and attached a quick and dirty VC6 demo application:



Demo Application for CGridListCtrlEx with VC6

Reply · View Thread

3.67/5 (2 votes)



**How i can use Vb.net 2005 ?**

Xess

2-Dec-08 17:22

great work. But How i can use Vb.net 2005 ? Please help me ?

[Reply · View Thread](#)

### [Re: How i can use Vb.net 2005 ?](#)

Rolf Kristensen

2-Dec-08 17:29

If already in the .NET 2.0 world, then I would recommend you make use of the superior DataGridView from Microsoft:

[http://www.codeproject.com/KB/grid/Editable\\_GridView.aspx](http://www.codeproject.com/KB/grid/Editable_GridView.aspx)

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### [CGridColumnTraitDateTime - a few remarks](#)

Member 2168302

25-Nov-08 7:34

1) It's not clearly understood from the docs that method `SetFormat` is wrapper for `COleDateTime::Format` method, which required %-format (e.g. %d-%m-%Y). To set format for CDateTimeCtrl control i add `pDateTimeCtrl->SetFormat("dd-MM-yyyy")` to `CGridColumnTraitDateTime::CreateDateTimeCtrl` function. IMHO desirable to add a public method for this operation.

2) It's not ability to edit if cell is blank or initial value can't be properly parsed to COleDateTime object. IMHO it's not convenient. To prevent this action i modified this checking

```
if(dt.ParseDateTime(cellText, m_ParseDateTimeFlags, m_ParseDateTimeLCID)==FALSE)<br />
/*return NULL*/;
```

in `CGridColumnTraitDateTime::OnEditBegin`.

Tell me please is my corrections deserve consideration?  
Best regards!

[Reply · View Thread](#)

5.00/5 (1 vote)



### [Re: CGridColumnTraitDateTime - a few remarks](#)

Rolf Kristensen

25-Nov-08 19:16

Think your observations are valid, and I will update CGridColumnTraitDateTime so it will be easier to:  
1) Specify formatting for the CDateTimeCtrl  
2) Allow editing even if the content of the cell cannot be parsed as a valid date.

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5.00/5 (1 vote)



### [Re: CGridColumnTraitDateTime - a few remarks](#)

Member 2168302

25-Nov-08 20:32

Thank you for consideration

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### [Re: CGridColumnTraitDateTime - a few remarks](#)

Rolf Kristensen

27-Nov-08 4:16

Have made the display format of CDateTimeCtrl the same as cell text format (Still restricted by the COleDateTime ParseDateTime).  
And it also allows editing of dates, even if the original date cannot be parsed.

You can download the fixed version of CGridColumnTraitDateTime.cpp from [Google Code](#)

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5.00/5 (1 vote)



### [CGridColumnTraitDateTime - cell editing](#)

Member 2168302

18-Nov-08 18:28

Value of cell can't be updated by standard pop-up Windows DateTime control. Directly editing of cell functioned properly.



Using MSVC 2008 SP1  
last version of CGridListCtrlEx  
In the demo project this bug also occurred.

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Rolf Kristensen

18-Nov-08 19:44

I have tested that it is possible to edit the value using the DateTime-control. Not sure what you mean by a pop-up datetime-control.



What is failing if you use your debugger to inspect what happens with the datetime-value you entered?

Could you [create a new issue](#) where your sample project is attached along with the steps to reproduce?

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2.00/5 (1 vote)



**Re: CGridColumnTraitDateTime - cell editing**

Member 2168302

19-Nov-08 16:57

By pop-up datetime-control I mean calendar drop window with choosing day, month, year number. Can you post simple example of using CGridColumnTraitDateTime?



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**Re: CGridColumnTraitDateTime - cell editing**

Rolf Kristensen

20-Nov-08 2:44

Seems I only tested the datetime-control in Windows Vista. I didn't take account of the fact that CDateTimeCtrl lost focus when opening the date-picker popup.



Fixed the bug so the CDateTimeCtrl doesn't close down when the date-picker is open. You can download the fixed version of CGridColumnTraitDateTime.cpp from [Google Code](#)

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5.00/5 (1 vote)



**Re: CGridColumnTraitDateTime - cell editing**

Member 2168302

20-Nov-08 4:13

Thanks a lot for fix!

On the other hand I learned that this control called date-picker 😊

However, so weird that controls acts different on XP and Vista.

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**Re: CGridColumnTraitDateTime - cell editing**

Rolf Kristensen

20-Nov-08 4:42

Not sure I'm the one to define the official name of this control 😊

Microsoft seems to call it the [child month calendar control](#).

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**have a bug**

denytrans

30-Oct-08 10:08

Dear Snakefoot:

CGridListCtrlEx has a bug that clicking right button when grouped by columns names

 , throws "Run-Time Check Failure #2 - Stack around the variable 'lvhitinfo' was corrupted." exception.  
I hope you recheck it, Thanks.

[Reply](#) · [View Thread](#)



 Rolf Kristensen

30-Oct-08 16:27

#### [Re: have a bug](#)

-   What operating system are you using ?
-   What version of visual studio are you using ?
-   Are you running in debug or release mode ?
-   Can you reproduce the error in the demo application ?



Just to be sure I understand the steps to reproduce the error (Using the demo application)

- 1) Right-click the "City"-column and select "Group by: City"
- 2) Right-click any where else and it throws the exception.

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2.00/5 (1 vote)



 Rolf Kristensen

3-Nov-08 16:45

#### [Re: have a bug](#)

-   I think I have found the bug. This bug happens when using VS2008 or the newest SDK without having defined \_WIN32\_WINNT >= 0x0600 (Compiled for Vista).
-   Some of the Vista-specific group-functions are defines in the Windows-header without being enclosed in \_WIN32\_WINNT >= 0x0600. These functions expects that the structures handed to them are compiled with \_WIN32\_WINNT >= 0x0600 defined.



Have now added additional check of \_WIN32\_WINNT >= 0x0600 before calling these Vista-specific group-functions. You can download the fixed version through the Google-code link.

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#### [not work in vc6](#)

 ilovedrv

8-Oct-08 9:49

-   I use this code in vc6, but CGridColumnTraitCombo not work

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#### [Re: not work in vc6](#)

 Rolf Kristensen

8-Oct-08 17:10

-   Must admit I have never compiled CGridListCtrlEx on VC6
-   I have fixed the compiler errors I found, and the new fixed version of the code can be retrieved through the Google-code link.



Best regards

-Rolf

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#### [CGridListCtrlEx in CView derived class](#)

 \_Manuel

20-Sep-08 23:19

-   Hi, it seems CGridListCtrlEx does not work as CView derived class member following rules pointed out in '**How to Create a Custom View to Wrap Your Own Control**', [http://www.codeguru.com/cpp/w-d/doc\\_view/controlviews/article.php/c3269/](http://www.codeguru.com/cpp/w-d/doc_view/controlviews/article.php/c3269/)



Regards,  
Manuel

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Rolf Kristensen

21-Sep-08 4:29

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**Re: CGridListCtrlEx in CView derived class**

The bug is already fixed, but the article haven't been updated yet. While waiting for the article to be updated, then one can get the latest source code from [Google Code](#).



Sorry for the inconvenience

-Rolf

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**Re: CGridListCtrlEx in CView derived class**

Aeluin

22-Sep-08 10:41

- Could you please write a example using CGridListCtrlEx in CView?  
Is there any settings should be noticed?  
I can see the grid type on dialog, in CView, only the default CListCtrl is shown.  
Thank you.

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**Re: CGridListCtrlEx in CView derived class**

Rolf Kristensen

26-Sep-08 19:52

- Sorry for the late reply, but have been occupied with a lot of things.  
I have fixed a bug in CGridListCtrlEx, so it will apply the proper extended style when used in CView. The problem was that PreSubclassWindow() cannot be used to apply styles when used in CView. Instead one must use OnCreate(). Until the article is updated, then you can use the google code link to get the fixed version.

The CGridListCtrlEx should now work fine with [How to Create a Custom View to Wrap Your Own Control](#). Just replace CMyListCtrl with CGridListCtrlEx.

Best regards

-Rolf

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**Bug? or something should be modified before Create?**

Aeluin

19-Sep-08 9:38

- I embedded the CGridListCtrlEx into CView, but always fail when execute.  
The program always stops in Create()...  
`_AFXCMN_INLINE void CToolTipCtrl::Activate(BOOL bActivate)  
{ ASSERT(::IsWindow(m_hWnd)); ::SendMessage(m_hWnd, TTM_ACTIVATE, bActivate, 0L); }`

Could you please help me what's wrong with that?  
The program works well if using CListCtrl instead.

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2.00/5 (1 vote)

**Re: Bug? or something should be modified before Create?**

Rolf Kristensen

19-Sep-08 10:08

- I have now added checking of whether the built in tooltip control has been created before trying to deactivate it.  
You can download the updated CGridListCtrlEx.cpp from [Google Code](#).

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2.67/5 (2 votes)

**Re: Bug? or something should be modified before Create?**

Aeluin

19-Sep-08 11:00

- Thank you for the help, but there's another problem,  
I cannot create two CGridListCtrlEx, first Create() will be run successful but break in second.  
Following is what VC show me:  
Second Chance Assertion Failed: File f:\sp\vctools\vc7libs\ship\atlmfc\src\mfc\wincore.cpp, Line 329

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**Re: Bug? or something should be modified before Create?**

Rolf Kristensen

19-Sep-08 16:44

Think you need to provide me a code example, since I cannot reproduce the error myself when creating two listctrls.

Please create an issue and attach files at [Google Code](#)

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#### [Re: Bug? or something should be modified before Create?](#)

Rolf Kristensen

19-Sep-08 19:23

The problem is that your second CListCtrl is created without LVS\_REPORT style.

The CGridListCtrlEx validates that one is using the proper styles, but the validating is faulty and causes an ASSERT a whole different place. Seems one should not use ASSERT / VERIFY during PreSubclassWindow().

I have updated the CGridListCtrlEx so it now uses DebugBreak() in PreSubclassWindow().

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5.00/5 (1 vote)



#### [A little bug](#)

vcforever

16-Sep-08 15:38

1. Adjust the second col to enough width so the horizontal scroll bar can be showed.

2. Drag the horizontal scroll bar to right and just get the first col dividing line hide.

3. Drag the horizontal scroll bar back to the most left. Unfortunately, the first col dividing line disappeared.

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#### [Re: A little bug](#)

Rolf Kristensen

16-Sep-08 15:47

What operating system ? (Windows XP, Vista, etc.)  
Is the theming enabled, or running in classic mode ?

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2.00/5 (1 vote)



#### [Re: A little bug](#)

vcforever

16-Sep-08 16:36

OS is XP, not in classic mode and theming is enabled.

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#### [Re: A little bug](#)

Rolf Kristensen

16-Sep-08 22:47

I can reproduce the bug. Even when using a vanilla CListCtrl.  
The funny thing is that when scrolling quickly to the left, then bug doesn't show, but if scrolling slowly to the left then the grid line remains blank.

The problem disappears when removing the extended style LVS\_EX\_DOUBLEBUFFER.

Not sure if this bug (though minor) can be solved without jumping into the draw-everything self boat.

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1.00/5 (1 vote)



#### [Re: A little bug](#)

Rolf Kristensen

18-Sep-08 17:50

 I updated the source code with a special fix for this behavior (Until the article is updated the new source code can be aquired through the google code link) 

 Thank you for telling

-Rolf

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#### [Re: A little bug](#)

 vcforever

19-Sep-08 13:43

 Thanks for your great work! 

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1.00/5 (1 vote)



#### [Application configuration?](#)

 sunnyyao

10-Sep-08 23:10

 Hi, 

 Love the solution! However, after I fetched the .rc and other resource code from Google code, the application still does not run. I got complain about "incorrect application configuration".

You know why?

Sunny

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1.50/5 (2 votes)



#### [Re: Application configuration?](#)

 Rolf Kristensen

10-Sep-08 23:30

 Are you using VS2005 ? If yes then try to open the Solution Ressource View and remove the manifest below RC\_DATA. I'm trying to find a way for the solution to properly convert from VS2003 to VS2005. 

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#### [Re: Application configuration?](#)

 sunnyyao

10-Sep-08 23:41

 Yes, it works! Thanks a lot! 

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4.67/5 (2 votes)



#### [Demo project...](#)

 code\_junkie

9-Sep-08 0:48

 Just downloaded the demo project and it's missing the .rc file. 

 Thanks

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4.25/5 (3 votes)



#### [Re: Demo project...](#)

 Rolf Kristensen

9-Sep-08 0:51

 Yes I can see that, seems I left it out in my second update of the code: 

 You can find the "CGridListCtrlEx.rc" here:

[Google Code](#)

Will update the article as soon as possible.

[Reply](#) · [View Thread](#)2.00/5 (1 vote)  **Neat solution!** User 2484437

5-Sep-08 14:00

 I wish you did this article earlier, so I would not have to stick with mfc grid ctrl.  
 Keep up the good work! 

 So long,  
Stefan

[Reply](#) · [View Thread](#)**Re: Neat solution!** Rolf Kristensen

5-Sep-08 14:52

 Thank you 

 Actually after having written this complete article series, then I have been thinking about the possibility of wrapping the .NET DataGridView inside a normal MFC Control. Since VS2005 have made it possible to use .NET controls inside a MFC application.

But I'm still planning to complete the missing features of the CGridListCtrlEx.

[Reply](#) · [View Thread](#)1.00/5 (1 vote)  **Re: Neat solution!** User 2484437

5-Sep-08 15:04

  I tried that too, but enabling Managed support did not succeed. I must admit that this was due to a large legacy  code base that was not fully compatible. Now I'm using some .NET components via COM in my application.

 But sometime ago I stumbled upon this interesting sample application suggesting to move the managed wrapper into a seperate mfc extension dll. Maybe this is of some use for you: <http://msdn.microsoft.com/en-us/library/ms239718.aspx>[^]

[Reply](#) · [View Thread](#)**Re: Neat solution! [modified]** Rolf Kristensen

5-Sep-08 15:09

  Thank you for the extra article. Have just been reading [CodeProject - Using WinForms controls in an MFC dialog](#) 

 I was thinking that it might be possible to enable CLR for an isolated static-library, and then use this library in the legacy MFC application, but a DLL would also be good.

*modified on Friday, September 5, 2008 3:17 AM*

[Reply](#) · [View Thread](#)**GfxListControl** Antonio.Tanas

4-Sep-08 17:20

 Hi Guy,  
 I use GfxListControl on XP and Vista and I dont find any trouble at all.  
 Why you say that?

[Reply](#) · [View Thread](#)1.00/5 (1 vote)  **Re: GfxListControl** Rolf Kristensen

4-Sep-08 17:58

When enabling XP Theme for your application, then the GfxListControl will have problems with its owner drawn headerctrl. And when using the GfxListControl on Vista and just using XP theme, then it fails to draw the rows properly.

See [Enhanced List Control - XP-Style](#)

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1.42/5 (5 votes)  