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Subject: Multiline popups in GridCtrl

Posted by [Zbych](#) on Wed, 21 Oct 2009 09:36:48 GMT

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Hi,

Is it possible to show multi line pop-ups in GridCtrl?

When I insert multi line text (each line ended with '\n') into cell, pop-up shows everything in a single line. That behavior is inconsistent with ArrayCtrl which is able to show it correctly.

#### File Attachments

1) [multiline\\_popup.PNG](#), downloaded 445 times

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Subject: Re: Multiline popups in GridCtrl

Posted by [unodgs](#) on Wed, 21 Oct 2009 10:24:56 GMT

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Zbych wrote on Wed, 21 October 2009 05:36Hi,

Is it possible to show multi line pop-ups in GridCtrl?

When I insert multi line text (each line ended with '\n') into cell, pop-up shows everything in a single line. That behavior is inconsistent with ArrayCtrl which is able to show it correctly.

Not at the moment. I remeber that I wanted popup to use particular display assigned with the cell so it was able to use the same fonts, colors and stuff but I came acros some complications I gave up. But I'll try once again

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Subject: Re: Multiline popups in GridCtrl

Posted by [zsolt](#) on Tue, 03 Nov 2009 14:16:26 GMT

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You can do it using your own Display class.

The trick is, that you have to overload GetStdSize and Paint virtual methods in your own Display class.

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Subject: Re: Multiline popups in GridCtrl

Posted by [unodgs](#) on Tue, 03 Nov 2009 19:45:35 GMT

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zsolt wrote on Tue, 03 November 2009 09:16You can do it using your own Display class.

The trick is, that you have to overload GetStdSize and Paint virtual methods in your own Display class.

I haven't announced that, but GridCtrl now automatically wraps the text in popup and make it bigger if necessary.

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Subject: Re: Multiline popups in GridCtrl  
Posted by [Zbych](#) on Wed, 04 Nov 2009 14:55:11 GMT  
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unodgs wrote on Tue, 03 November 2009 20:45I haven't announced that, but GridCtrl now automatically wraps the text in popup and make it bigger if necessary.

Hi,

I've found a few problems:

1. Text is not displayed correctly if text height is bigger than cell height. You should limit y-coordinate of text to values  $\geq 0$ .
2. When column width is lower than text width, text in pop-up is not centered correctly, new line sign is visible.
3. Pop-up is empty when there is AttrText in cell.

Problem with pop-up is visible if font resolution is 120DPI.  
Test code:

```
struct App : TopWindow
{
    typedef App CLASSNAME;
    GridCtrl grid;
    App(){
        Add(grid.SizePos());
        grid.AddColumn("Name");
        grid.AddColumn("Surname");
    }
};

GUI_APP_MAIN
{
    App a;
    a.grid.Add(AttrText("New name in cell name"));
    a.grid.Add("New name1 in cell surname\nNew name2 in cell surname2\nNew name3 in cell\nsurname3\nNew name4 in cell surname\nNew name5 in cell surname2\nNew name6 in cell\nsurname3\n");
    a.Run();
}
```

## File Attachments

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- 1) [grid1.PNG](#), downloaded 1181 times
  - 2) [grid2.PNG](#), downloaded 1404 times
- 

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Subject: Re: Multiline popups in GridCtrl  
Posted by [unodgs](#) on Wed, 04 Nov 2009 23:41:11 GMT  
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Thanks for reporting this. I think I have finally fixed 2 and 3. But I don't understand what's wrong with point 1. The text is Y-centered - in this case on the middle of the cell there is a middle line from multiline text.

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Subject: Re: Multiline popups in GridCtrl  
Posted by [Zbych](#) on Thu, 05 Nov 2009 07:18:50 GMT  
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unodgs wrote on Thu, 05 November 2009 00:41: But I don't understand what's wrong with point 1. The text is Y-centered - in this case on the middle of the cell there is a middle line from multiline text.

The problem is that text in the cell is hardly readable. As you can see only part of line 3 and 4 is visible. I wouldn't call it correct solution. In my opinion text should be displayed starting from line 1. See how ArrayCtrls displays such things.

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Subject: Re: Multiline popups in GridCtrl  
Posted by [unodgs](#) on Thu, 05 Nov 2009 10:52:57 GMT  
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I came to the conclusion you're right. When there is not enough space to center a text it should be top aligned then. I push this change up to the repository together with other changes.

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Subject: Re: Multiline popups in GridCtrl  
Posted by [Zbych](#) on Mon, 09 Nov 2009 10:56:23 GMT  
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unodgs wrote on Thu, 05 November 2009 11:52: I push this change up to the repository together with other changes.

Hi,  
I've found a few other problems:

1. When I move mouse cursor from one cell to another, pop-up shows content of the previous cell:
2. column sum doesn't add last row:
3. Pop-up on cell with number (column #1) causes an assertion:

Test code:

```
struct App : public TopWindow
{
    typedef App CLASSNAME;
    Button ok;
    GridCtrl grid;
    void AddToGrid();

    App(){
        grid.HSizePosZ(10,10);
        Sizeable();
        Add(grid.SizePos().HSizePos(50,50).VSizePosZ(50,50));
        grid.SummaryRow();
        grid.AddColumn( "Name").DoSum("%d");
        grid.AddColumn( "Surname").DoSum("%d");
        grid.ColorRows();

        ok.WhenPush = THISBACK(AddToGrid);
        ok.SetLabel(t_("OK")).HCenterPosZ(76, -84).BottomPosZ(8, 32);
        Add(ok);
    }
};

void App::AddToGrid(){
    grid.Clear();
    for(int l=0; l<3; l++){
        grid.Add(l, 1);
    }
    Beep(1000,100);
}

GUI_APP_MAIN
{
    App app;
    app.Run();
}
```

## File Attachments

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- 1) [grid3.PNG](#), downloaded 1386 times
  - 2) [grid4.PNG](#), downloaded 1061 times
  - 3) [grid5.PNG](#), downloaded 1309 times
  - 4) [grid6.PNG](#), downloaded 1391 times
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Subject: Re: Multiline popups in GridCtrl  
Posted by [unodgs](#) on Mon, 09 Nov 2009 17:09:52 GMT  
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Thanks a lot for finding all those bugs and test cases (that really makes bugs fixing much easier)!  
All fixed now. Please try the latest svn.

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Subject: Re: Multiline popups in GridCtrl  
Posted by [Zbych](#) on Thu, 19 Nov 2009 14:31:53 GMT  
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unodgs wrote on Mon, 09 November 2009 18:09 Please try the latest svn.

Thank you!

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Subject: Re: Multiline popups in GridCtrl  
Posted by [Zbych](#) on Fri, 20 Nov 2009 14:59:53 GMT  
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Another problem. In my application I use WhenCursor callback to enable/disable ToolBar. Inside this callback I check if any row is selected by calling IsCursor. The problem is that IsCursor gives incorrect state of cursor at that time (probably WhenCursor callback is executed to early in GridCtrl::SetCursor0).

Steps:

1. click add
2. click on some row - tool bar should be enabled (but it is not)
3. click second time - now tool bar is enabled.
4. click clear - now grid is empty, but callback is not executed (in my opinion should be, because cursor is gone) and tool bar is not deactivated.

Test code:

```
struct App : public TopWindow
{
    typedef App CLASSNAME;
```

```
Button ok;  
Button clear;  
ToolBar tool;  
GridCtrl grid;
```

```
void AddToGrid();  
void ClearGrid();  
void MyToolBar(Bar& bar);
```

```
void ToolBarRefresh();  
App();
```

```
};
```

```
App::App()
```

```
{  
    Sizeable();  
    grid.HSizePosZ(10,10);  
    tool.Set(THISBACK(MyToolBar));
```

```
    AddFrame(tool);  
        Add(grid.SizePos().HSizePos(0,0).VSizePosZ(0,50));  
        grid.AddColumn( "Name").DoSum("%d");  
        grid.AddColumn( "Surname").DoSum("%d");  
    grid.WhenCursor = THISBACK(ToolBarRefresh);
```

```
    ok.WhenPush = THISBACK(AddToGrid);  
    clear.WhenPush = THISBACK(ClearGrid);  
    ok.SetLabel(t_("Add")).HCenterPosZ(76, -84).BottomPosZ(8, 32);  
    clear.SetLabel(t_("Clear")).HCenterPosZ(76, 80).BottomPosZ(8, 32);  
    Add(ok);  
    Add(clear);  
}
```

```
void App::AddToGrid(){  
    for(int l=0; l<5; l++){  
        grid.Add(l, Format("Row %d\nRow %d\nRow %d\n", l,l,l));  
    }  
}
```

```
void App::ClearGrid()  
{  
    grid.Clear();  
}
```

```
void App::MyToolBar(Bar& bar)  
{  
    bar.Add(grid.IsCursor(), "File", Image::Wait() , THISBACK(ClearGrid));
```

```
bar.Add(grid.IsCursor(), "File", Image::Wait() , THISBACK(ClearGrid));
}

void App::ToolBarRefresh()
{
    tool.Set(THISBACK(MyToolBar));
    Beep(1000,100);
}

GUI_APP_MAIN
{
    App app;
    app.Run();
}
```

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Subject: Re: Multiline popups in GridCtrl  
Posted by [unodgs](#) on Tue, 24 Nov 2009 12:29:58 GMT  
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Yes, you're righth. WhenCursor is called very early in SetCursor method. It's mainly to have ability in callback to call CancelCursor() that prevents cursor from changing its position. On the other hand I agree that IsCursorValid and others methods should return correct values in the callback. I have fixed all your problems. The only thing that holds me with committing the code is I found painting algorithm very slow if line ends with \n char.

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Subject: Re: Multiline popups in GridCtrl  
Posted by [Zbych](#) on Mon, 30 Nov 2009 08:34:27 GMT  
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unodgs wrote on Tue, 24 November 2009 13:29I have fixed all your problems. The only thing that holds me with committing the code is I found painting algorithm very slow if line ends with \n char.

Any progress in solving painting problem? Since this problem is not associated with callbacks maybe you could break your improvements into two commits.

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Subject: Re: Multiline popups in GridCtrl  
Posted by [unodgs](#) on Mon, 30 Nov 2009 09:11:05 GMT  
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Yes, you're right. Sorry for the delay - I've just been busy with other things. I'll commit all changes except this painting today.

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