Subject: How to Setup ArrayCtrl colors ?
Posted by sergeynikitin on Fri, 18 Jul 2008 17:20:18 GMT
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How to Setup ArrayCtrl colors?
I need to setup ArrayCtrl color and current line color.

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by Mindtraveller on Sat, 19 Jul 2008 23:05:27 GMT
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There are two main options: through Display (easy way) or with Chameleon (hard way).

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by sergeynikitin on Sun, 20 Jul 2008 12:18:38 GMT
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Can you say about CHAmeleon technology. I need to use it anywhere in my application.

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by sergeynikitin on Thu, 02 Oct 2008 04:44:53 GMT
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Solved.

```
SColorPaper_Write(Color(205,205,205));
SColorHighlight_Write(Color(85,85,85));
SColorHighlightText_Write(Color(255,255,255));

static HeaderCtrl::Style  s = HeaderCtrl::StyleDefault();
s.look[0] = Color(130,125,125);
types.HeaderObject().SetStyle(s);
types.OddRowColor(Color(205,205,205),Color(85,85,85));
types.EvenRowColor(Color(205,205,205),Color(85,85,85));
types.GridColor(Color(80,80,80));
```

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by TeCNoYoTTa on Fri, 10 Oct 2008 08:06:15 GMT

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sergeynikitin wrote on Thu, 02 October 2008 06:44Solved.

```
SColorPaper_Write(Color(205,205,205));
SColorHighlight_Write(Color(85,85,85));
SColorHighlightText_Write(Color(255,255,255));

static HeaderCtrl::Style  s = HeaderCtrl::StyleDefault();
s.look[0] = Color(130,125,125);
types.HeaderObject().SetStyle(s);
types.OddRowColor(Color(205,205,205),Color(85,85,85));
types.EvenRowColor(Color(205,205,205),Color(85,85,85));
types.GridColor(Color(80,80,80));
```

can you explain more ....where must i put this code ??

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by TeCNoYoTTa on Fri, 10 Oct 2008 08:38:39 GMT

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i want to set a color and then add a row with this color then change it and add another row with another color ......how can i do that ?

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by Oblivion on Fri, 10 Oct 2008 10:41:54 GMT

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Quote:
i want to set a color and then add a row with this color then change it and add another row with another color ......how can i do that ?

You can use Display structure and SetDisplay() method to set column colors and content:

First you should add a Display object. For example:

```
struct Column1Display : Display {
 virtual void Paint(Draw& w, const Rect& r, const Value& q, Color ink, Color paper, dword style)
const
 {
  w.DrawRect(r, Color(500,0,0));
```

```
 }
};

struct Column2Display : Display {
 virtual void Paint(Draw& w, const Rect& r, const Value& q, Color ink, Color paper, dword style)
const
 {
  w.DrawRect(r, Color(0,500,0));
 }
};
```

Then, Set the Display of the column, using ArrayCtrl::Column::SetDisplay() or Array::SetDisplay()
in your constructor or wherever you instantiate your ArrayCtrl object:

```
MyApp::MyApp()
{
//.....
//.....

MyArray.AddColumn("Column 1").SetDisplay(Single<Column1Display>());
MyArray.AddColumn("Column 2").SetDisplay(Single<Column2Display>());

}
```

This will set the "column 1" and "column 2" colors. You can set other columns' displays as such.
As you may have noticed, by using the Display structure you can also do other specific operations
on a single column (eg, adding images, changing background, fonts, etc.). Display also has a
virtual PaintBackground() method which you can set background seperately See Display structure
for more information.

Regards.

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by TeCNoYoTTa on Fri, 10 Oct 2008 11:23:33 GMT
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Oblivion wrote on Fri, 10 October 2008 12:41Quote:
i want to set a color and then add a row with this color then change it and add another row with
another color ......how can i do that ?

You can use Display structure and SetDisplay() method to set column colors and content:

First you should add a Display object. For example:

```
struct Column1Display : Display {
 virtual void Paint(Draw& w, const Rect& r, const Value& q, Color ink, Color paper, dword style) const
 {
  w.DrawRect(r, Color(500,0,0));
 }
};

struct Column2Display : Display {
 virtual void Paint(Draw& w, const Rect& r, const Value& q, Color ink, Color paper, dword style) const
 {
  w.DrawRect(r, Color(0,500,0));
 }
};
```

Then, Set the Display of the column, using ArrayCtrl::Column::SetDisplay() or Array::SetDisplay() in your constructor or wherever you instantiate your ArrayCtrl object:

```
MyApp::MyApp()
{
//.....
//.....

MyArray.AddColumn("Column 1").SetDisplay(Single<Column1Display>());
MyArray.AddColumn("Column 2").SetDisplay(Single<Column2Display>());

}
```

This will set the "column 1" and "column 2" colors. You can set other columns' displays as such. As you may have noticed, by using the Display structure you can also do other specific operations on a single column (eg, adding images, changing background, fonts, etc.). Display also has a virtual PaintBackground() method which you can set background seperately See Display structure for more information.

Regards.

thanxxxxxxxxx alot ......but i think that you are talking about columns colors ......but i want to color rows background not columns

thx again

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by Oblivion on Fri, 10 Oct 2008 12:23:17 GMT
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 I'm sorry. Here is an example which demonstrates both (row and column coloring). On the other hand, if you want every row to be in different color, AFAIK there is no specific method. Probably you'll have to derive your own class from ArrayCtrl and override Paint().

File Attachments
1) ArrayColors.zip, downloaded 444 times

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by TeCNoYoTTa on Fri, 10 Oct 2008 12:28:12 GMT
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thanks alot ..... can u tell me also how to change the color off all the text in my program or color of text in menubar

and thxxxxxxxxxx alot for your help again

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by TeCNoYoTTa on Fri, 10 Oct 2008 12:36:16 GMT
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Oblivion wrote on Fri, 10 October 2008 14:23 I'm sorry. Here is an example which demonstrates both (row and column coloring). On the other hand, if you want every row to be in different color, AFAIK there is no specific method. Probably you'll have to derive your own class from ArrayCtrl and override Paint().

does that mean i cant choose a row number and set it's color easly

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by Oblivion on Fri, 10 Oct 2008 12:56:27 GMT
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Well, at least I don't know a public method that seperately sets the color. You have to find a workaround if you want every row to be in different color. You may want to look at ArrayCtrl::UpdateRow() protected method. It seems that you can override that to reach your goal.

Regards.

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by unodgs on Fri, 10 Oct 2008 12:59:27 GMT

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You can use GridCtrl:

grid.AddRow("text").Bg(Red);
grid.GetRow(10).Bg(Yellow);

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by TeCNoYoTTa on Fri, 10 Oct 2008 14:07:43 GMT

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unodgs wrote on Fri, 10 October 2008 14:59You can use GridCtrl:

grid.AddRow("text").Bg(Red);
grid.GetRow(10).Bg(Yellow);

thx but i already used Array CTRL

so is there a function like Addkey as i use it in arrayctrl

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by mrjt on Fri, 10 Oct 2008 14:15:21 GMT

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You can set the display for individual cells in an ArrayCtrl with

```
 void        SetDisplay(int i, int col, const Display& d);
```

then you just have to iterate through the columns to set each cell on a row.

And an easier way of getting colored displays:
```
template <const int COLOR>
class ColorDisplayTemplate : public Display
{
 virtual void Paint(Draw& w, const Rect& r, const Value& q,
   Color ink, Color paper, dword style) const
   { StdDisplay().Paint(w, r, q, ink, Color::FromRaw(COLOR), style); }
};

const Display &RedDisplay()  { return Single< ColorDisplayTemplate<RGB(255, 0, 0)> >(); }
const Display &BlueDisplay()  { return Single< ColorDisplayTemplate<RGB(0, 0, 255)> >(); }
const Display &GreenDisplay()  { return Single< ColorDisplayTemplate<RGB(0, 255, 0)> >(); }
```

A template? Is not it a bit brutal?

What about a nice little Color attribute (and perhaps global variables instead of Single)?

Mirek

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by TeCNoYoTTa on Fri, 10 Oct 2008 16:14:09 GMT
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thanks alot .... but this dont color the whole cell

it leaves some parts uncolored .....how can i fix this problem ??

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by Oblivion on Fri, 10 Oct 2008 19:29:37 GMT
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Quote:
thanks alot .... but this dont color the whole cell

it leaves some parts uncolored .....how can i fix this problem ??

That part is background. You should handle background too. Same as Paint (You can safely apply the below code to Mrjt's code).


```
 virtual void Paint(Draw& w, const Rect& r, const Value& q, Color ink, Color paper, dword style)
const
 {
  w.DrawRect(r, SColorInfo);
  w.DrawText(r.left, r.top, q.ToString());
 }
 virtual void PaintBackground(Draw& w, const Rect& r, const Value& q, Color ink, Color paper,
dword style) const
 {
  w.DrawRect(r, SColorInfo);
 }
}
```


But if you paint background manually, you should handle "highlighted state" of cell manually too.

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by mrjt on Mon, 13 Oct 2008 10:44:57 GMT
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mrjt didn't write
A template? Is not it a bit brutal?

What about a nice little Color attribute (and perhaps global variables instead of Single)?

Mirek
You are correct, this is horribly over-engineered. I just can't resist a cute idea A Color attribute
would give the extra advantage of being able to use the Chameleon colors.

I think the extra white bits in the cells are probably the margin. Try:
arrayctrl.AddColumn("A Column").Margin(0);

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by mirek on Mon, 20 Oct 2008 05:42:18 GMT
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TeCNoYoTTa wrote on Fri, 10 October 2008 12:14thanks alot .... but this dont color the whole
cell

it leaves some parts uncolored .....how can i fix this problem ??

Also not mentioned here is possibility to use AttrText. It is very simple, with disadvantage is that it
is then hard to read data back from ArrayCtrl.

Anyway:

myarrayctrl.Add(AttrText("My colored text").Ink(Red));

Mirek

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by sergeynikitin on Tue, 21 Oct 2008 07:50:48 GMT
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How do I change the color of the paper only on the current window.

I tried

SColorPaper_Write (color (205205205)),
however, change the background color of the full application.

I need to change the color of the paper at 1 window.

SetDisplay - is not suitable as it will not change the background color ArrayCtrl where no lines.

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by mrjt on Tue, 21 Oct 2008 12:27:58 GMT
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This is not possible.

I think the closest you could get is to SetNoBackground() on the ArrayCtrl, and set the colour of the cells manually using any of the methods above. Not sure if this will work though.

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by mirek on Tue, 21 Oct 2008 17:00:45 GMT
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In fact, NoBackground makes ArrayCtrl transparent - you can then put some other widget "behind".

If you want a solid color, put StaticRect behind. But it can also be picture or anything else (Not also that StaticRect accepts "chameleon" visuals values, so you can put Image in it directly, with chameleon style hotspots..).

BTW, it also applies to EditFile, LineEdit, DocEdit, ColumnList and TreeCtrl

Mirek

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by sergeynikitin on Tue, 21 Oct 2008 23:32:31 GMT
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Thanks.

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by darki699 on Thu, 23 Oct 2008 17:56:09 GMT
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sergeynikitin wrote on Fri, 18 July 2008 19:20How to Setup ArrayCtrl colors?
I need to setup ArrayCtrl color and current line color.

This is pretty simple if you are willing to change ArrayCtrl just a bit...

Step 1: In ArrayCtrl.h add this:

```
void SetRowDisplay(int i, const Display& d);
void SetColDisplay(int j, const Display& d);
```

Step 2: In ArrayCtrl.cpp add this:

```
void ArrayCtrl::SetRowDisplay(int i, const Display& d)
{
 if(i >= 0 && i < GetCount())
  for (int j = 0 ; j < GetSize().cx ; j++)
   cellinfo.At(i).At(j).Set(d);
 RefreshRow(i);
}

void ArrayCtrl::SetColDisplay(int j, const Display& d)
{
 if (j >= 0 && j < column.GetCount())
  column[j].SetDisplay(d);
}
```

Step 3: In your program add this:

```
struct MyJDisplay : Display {
 virtual void Paint(Draw& w, const Rect& r, const Value& q, Color ink, Color paper, dword style) const
 {
  PaintBackground(w, r, q, Blend(ink, Color(0,0,0)) , Blend(paper, Color(0,0,0)), style);
  w.DrawText(r.left, r.top, q.ToString());
 }
};
```

For example... You can choose any color of course, but I really suggest you use Blend unless you want your Selected row to not-show.

and that's about it... Add your SetRowDisplay or SetColDisplay any way you like it. =)
If you want a nice look use this
Quote:
[your ArrayCtrl].AddColumn(column, column, columnSize).Margin(0)

when you add your column.

And an example of how I used it:

UserMovies.SetRowDisplay(j , Single<MyJDisplay>());

NJoy and remember that the code is not a god.
If you need to improve it, don't be afraid to add (backup everything first lol)

Darki699

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by mirek on Sat, 01 Nov 2008 22:37:22 GMT

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darki699 wrote on Thu, 23 October 2008 13:56sergeynikitin wrote on Fri, 18 July 2008 19:20How to Setup ArrayCtrl colors?
I need to setup ArrayCtrl color and current line color.

This is pretty simple if you are willing to change ArrayCtrl just a bit...

Step 1: In ArrayCtrl.h add this:

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void SetRowDisplay(int i, const Display& d);
void SetColDisplay(int j, const Display& d);
```


Step 2: In ArrayCtrl.cpp add this:

```
void ArrayCtrl::SetRowDisplay(int i, const Display& d)
{
 if(i >= 0 && i < GetCount())
  for (int j = 0 ; j < GetSize().cx ; j++)
   cellinfo.At(i).At(j).Set(d);
 RefreshRow(i);
}

void ArrayCtrl::SetColDisplay(int j, const Display& d)
{
 if (j >= 0 && j < column.GetCount())
  column[j].SetDisplay(d);
}
```


Or you can also define these as external functions (there is no private/procted stuff needed).

Personally, I would not add these methods to solve this issue, and I CAN DO IT EASILY:)

Mirek

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by whiteman on Wed, 10 Feb 2010 16:36:32 GMT
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I'm using an arrayctrl, in my application I need to set some cell color and i don't want to use AttrText: is too slow!
I have 200-300 cells and is the user that choose what color want to use, so, I can't use

SetDisplay(row, column, Single<MyColor<RGB(col.R, col.G, col.B)> >())

because an error say me that I must use costant value.
What should I do for set dinamically the color of my grid without
 AttrText?
thank you!!

Subject: Re: How to Setup ArrayCtrl colors ?
Posted by mirek on Tue, 16 Feb 2010 19:53:55 GMT
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e.g.

.SetDisplay(row, column, ColorDisplay());
.Set(row, column, Color(...));