Subject: Re: ArrayCtrl cell color
Posted by forlano on Tue, 27 Jun 2006 18:13:06 GMT
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hojtsy wrote on Tue, 07 February 2006 13:43Here is a dummy example
#include <CtrlLib/CtrlLib.h>

```cpp
class NumbersOnRed : public Display
{
public:
  static bool numberString(String s);
 void PaintBackground(Draw& w, const Rect& r, const Value& q,
                Color ink, Color paper, dword style) const;

};

bool NumbersOnRed::numberString(String s)
{
  if(s.GetCount() == 0)
    return false;

  int i = 0;
  if(s[0] == '+' || s[0] == '-')
    i++;

  while(i < s.GetCount() && s[i] >= '0' && s[i] <= '9')
    i++;

  return i == s.GetCount();
}

void NumbersOnRed::PaintBackground(Draw& w, const Rect& r, const Value& q,
                   Color ink, Color paper, dword style) const
{
 if(IsNumber(q) || (IsString(q) && numberString(AsString(q))))
  paper = Color(255, 150, 150);

 Display::PaintBackground(w, r, q, ink, paper, style);
}


GUI_APP_MAIN
{
  ArrayCtrl array;
  array.AddColumn("value").SetDisplay(Single<NumbersOnRed>());
  array.Add("test1");
  array.Add("2test");
  array.Add("3 test");
```

```
  array.Add("4");
  array.Add("test");
  array.Add("-99");
  TopWindow win;
 win.Zoomable().Sizeable();
 win.Add(array.SizePos());
 win.Run();
}
```

Intention of PaintBackground is to provide a way for client code to customize the cell background color, including the margin background color, by redefining a method of Display. Previously the margin color was not customizable.

Today I used this example to color some cells of my ArrayCtrl. It worked very nice OK and there were no problems... except one detail: why it does work?
I know that is not important to understand to let the things to work... in contrast it is better very often do not know. But I'm very curious. Please forgive me for my silly questions but it is stronger than me to ask:

1) This line is very important:
  array.AddColumn("value").SetDisplay(Single<NumbersOnRed>());

Now, SetDisplay is the method with arguments:
SetDisplay(int i¸ int j¸ const Display& d)
Instead I see "Single<NumbersOnRed>()" that does the job... but HOW? What is it?

2) The last stupid question. Is "q" the cell value? Where it has been defined?

Thank you for your patience,
Luigi

PS: if nobody answer I'll not complain