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Subject: Substring formatting in ArrayCtrl (SqlCtrl)  
Posted by [bushman](#) on Mon, 17 Aug 2009 18:32:14 GMT  
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What would be the simplest approach to format some text substring content in an ArrayCtrl (or SqlCtrl) cell? For example, if I wanted to highlight the "Ultimate++" substring in the ArrayCtrl cell content

"Ultimate++ is great!"

by making it bold, how should I proceed?

Thank you!

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Subject: Re: Substring formatting in ArrayCtrl (SqlCtrl)  
Posted by [Novo](#) on Tue, 18 Aug 2009 04:10:51 GMT  
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Try to use QTF instead of plain text. Something like "[\* Ultimate++] is great!"

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Subject: Re: Substring formatting in ArrayCtrl (SqlCtrl)  
Posted by [bushman](#) on Wed, 19 Aug 2009 01:58:21 GMT  
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If you meant,

```
ArrayCtrl arr;  
arr.AddColumn("Highlighted");  
...  
arr.Add("[* Ultimate++] is great!");
```

overwriting the Display::Paint method, like in the code below:

```
struct HighlightDisplay : public Display {  
  
    static String term;  
  
    virtual void Paint(Draw& w, const Rect& r, const Value& q, Color ink, Color paper, dword style)  
    const  
    {
```

```

w.DrawRect(r, paper);
Font font = StdFont();
String s(q);

int ix = ToLower(s).Find(ToLower(term));
if(ix >= 0) {
    Font bold = StdFont().Bold();
/* break down text into highlighted and plain strings */
    String s0 = s.Mid(0, ix);
    String s1 = s.Mid(ix, term.GetCount()); // <-- substring to highlight
    String s2 = s.Mid(ix + term.GetCount());
/* draw highlighted and plain strings */
    w.DrawText(r.left, r.top, s0, font, ink);
    w.DrawText(r.left + GetTextSize(s0, font).cx, r.top, s1, bold, Blue()); // <-- highlights in bold and
blue
    w.DrawText(r.left + GetTextSize(s0, font).cx + GetTextSize(s1, bold).cx, r.top, s2, font, ink);
    return;
}
w.DrawText(r.left, r.top, s, font, ink);
}
};

String HighlightDisplay::term = "";

```

Then I can write

```

ArrCtrl arr;
arr.AddColumn("Highlighted").SetDisplay(Single<HighlightDisplay>());
...
//set term to highlight through HighlightDisplay::term static member:
HighlightDisplay::term = "Ultimate++";
arr.Add("Ultimate++ is great!");

```

way of doing it.

Thanks anyway.

Subject: Re: Substring formating in ArrayCtrl (SqlCtrl)  
Posted by [Novo](#) on Wed, 19 Aug 2009 04:22:02 GMT  
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Sorry, I mislead you. I checked with my code where I use text attributes with TreeCtrl. I use

AttrText, which is handled by all standard Display classes. The code looks like

```
vf_id = wtree.Add(parent_id, TreeCtrl::Node(AttrText("Verb frames").Ink(LtBlue())));
```

AttrText is not that flexible as QTF is. It just lets you set attributes for the whole text.

If I need to display a QTF text as a node I create a RichTextCtrl and set it as a node of a tree. The same technique should work with ArrayCtrl.

My code looks similar to an example below.

```
Array<RichTextCtrl> rt_ctrl;  
  
rt_ctrl.Add().SetZoom(zoom).NoSb().SetQTF(tree_str);  
rt_ctrl.Top().WhenLink = THISBACK(on_link);  
  
// Zoom related suff ...  
int x = rt_ctrl.Top().GetWidth();  
Size sz(x, rt_ctrl.Top().GetHeight(x));  
sz = zoom * sz;  
sz.cx += 1;  
  
wtree.Add(parent_id, TreeCtrl::Node(rt_ctrl.Top()).SetSize(sz));
```

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Subject: Re: Substring formatting in ArrayCtrl (SqlCtrl)  
Posted by [Novo](#) on Thu, 20 Aug 2009 02:58:48 GMT  
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Actually, if you do not need to handle links within QTF you can use Display, which works similar to RichTextDisplayCls in TCtrlLib/Help/helputil.cpp.

Hope this helps.

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Subject: Re: Substring formatting in ArrayCtrl (SqlCtrl)  
Posted by [bushman](#) on Sat, 22 Aug 2009 00:06:47 GMT  
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You're right, I can add a RichTextCtrl to each cell in an ArrayCtrl and then insert my decorated text:

```
ArrayCtrl arrctrl;  
Array<RichTextCtrl> rtctrl;  
...  
arrctrl.Clear()  
rtctrl.Clear();  
...  
Zoom zoom(3, 4);  
rtctrl.Add();  
arrctrl.SetCtrl(row, col, rtctrl.Top().NoSb());  
rtctrl.Top().SetZoom(zoom).TopPos(0, arrctrl.GetLineCy());  
rtctrl.Top().SetQTF("[* Ultimate++] is great!");
```

I just shouldn't forget to Clear() the RichTextCtrl Array whenever I Clear() the ArrayCtrl to avoid memory overload.

Thank you very much for your advice!

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