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Subject: how align a column?

Posted by [nicomesas](#) on Mon, 18 Sep 2006 12:16:17 GMT

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Hey

I have a ArrayCtrl in which a column represents money and I build it thus:

```
theList.AddColumn("donativo").SetFormat("%2!nl").HeaderTab().SetAlign(ALIGN_RIGHT);
```

The numerical columns see far better if they are aligned to right.

Nevertheless the alignment only affects to the header, not to the data in the column.

I believe that it must be possible that all a column is aligned, but encounter the function or the method not to do it.

Somebody can give an instructions to me.

Nico

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#### File Attachments

1) [align.png](#), downloaded 3547 times

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Subject: Re: how align a column?

Posted by [zsolt](#) on Mon, 18 Sep 2006 12:26:25 GMT

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You can create a member in your class:

```
AlignDisplay m_right_align_display;
```

Set it up in constructor:

```
m_right_align_display.Align(ALIGN_RIGHT);
```

and setup the arrayctrl column:

```
theList.AddColumn("donativo").SetFormat("%2!nl").HeaderTab().SetDisplay(m_right_align_display);
```

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Subject: Re: how align a column?

Posted by [mirek](#) on Mon, 18 Sep 2006 12:26:29 GMT

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nicomesas wrote on Mon, 18 September 2006 08:16Hey

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Somebody can give an instructions to me.

Nico

Using Display.

In my commercial apps, I am using this one:

```
class DisplayMoney : public Display {
public:
    void Paint(Draw& w, const Rect& r, const Value& q,
               Color ink, Color paper, dword style) const;

protected:
    Font font;
    bool red;

public:
    static DisplayMoney Normal;
    static DisplayMoney Bold;
    static DisplayMoney NormalRed;

    DisplayMoney& SetFont(Font _font) { font = _font; return *this; }
    DisplayMoney& Red(bool b) { red = b; return *this; }
    DisplayMoney& NoRed() { return Red(false); }

    DisplayMoney(Font font = GuiFont(), bool red = true) : font(font), red(red) {}

};
```

```
void DisplayMoney::Paint(Draw& w, const Rect& r, const Value& q,
    Color ink, Color paper, dword s) const {
String text;
if(!IsNull(q)) text = FormatMoney(q);
int cx = GetSmartTextSize(w, text, font).cx;
w.DrawRect(r, paper);
DrawSmartText(w, r.left + r.Width() - cx, r.top, r.Width(), text, font,
    double(q) < 0 ? (s & CURSOR) && (s & FOCUS) ? SLtRed: SRed : ink);
}
```

You can achieve pretty much any appearance using Display. To use it, make instance that outlives ArrayCtrl (static variable is enough) and assign it to the ArrayCtrl columns using SetDisplay.

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**Subject:** Re: how align a column?  
Posted by [nicomesas](#) on Mon, 18 Sep 2006 13:06:17 GMT  
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Thanks

Your code will be to me of much aid in the future

Nico

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**Subject:** Re: how align a column?  
Posted by [kfeng](#) on Thu, 12 Jul 2007 19:21:13 GMT  
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Hi,

This code is extremely useful.

May I ask how or where GuiFont() and FormatMoney() are defined?

It seems that the code base may have changed somewhat since the original posting:

f:\myapps\testapp\TestApp.h(38) : error C2660: 'Upp::GetSmartTextSize' : function does not take 3 arguments  
f:\myapps\testapp\TestApp.h(38) : error C2228: left of '.cx' must have class/struct/union

Thx.

- Ken

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**Subject:** Re: how align a column?  
**Posted by** [mirek](#) **on** Thu, 12 Jul 2007 19:59:04 GMT  
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Not in uppsrc, only in my apps.

GuiFont is just an old name for StdFont, provided in my commercial apps lib to achieve backward compatibility.

```
inline Font GuiFont() { return StdFont(); }

String FormatMoney(double money) {
    return IsNull(money) ? EmptyString : Format("%.2f", money);
}
```

Mirek

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**Subject:** Re: how align a column?  
**Posted by** [kfeng](#) **on** Thu, 12 Jul 2007 21:54:18 GMT  
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Hi Mirek,

Thanks for the quick reply. BTW, I scoured the code base and found another thread which talked about changes to the code. For others, this apparently works now:

```
myArrayCtrl.AddColumn( "colName" ).SetDisplay( StdRightDisplay() );
```

Other possibilities are StdDisplay() and StdCenterDisplay().

I will look at your Money code closely this weekend and see if I can get it to compile/run on my machine.

Another question: is there a standard format for displaying %d or %f like this:

\$58,782,398.23

with commas? If not, maybe you can guide me to where I can add code for this feature with any suggestions on the protocol. If you do, I can code it up and submit it for addition to the code base.

Thank you.

Regards,  
Ken

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**Subject: Re: how align a column?**

Posted by [mirek](#) on Thu, 12 Jul 2007 22:55:37 GMT

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kfeng wrote on Thu, 12 July 2007 17:54

Another question: is there a standard format for displaying %d or %f like this:

\$58,782,398.23

with commas?

No.

Quote:

If not, maybe you can guide me to where I can add code for this feature with any suggestions on the protocol. If you do, I can code it up and submit it for addition to the code base.

But you in fact do not need to fix uppsrc code to get it: Format is extensible, you can add your own formatters quite easily, see RegisterFormatter (it is even documented).

In the same time, would be nice to have it in Core too later, but for that purpose it would best be done configurable via translations... (means it should be described by some string literal, just like date or time).

Mirek

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**Subject: Re: how align a column?**

Posted by [kfeng](#) on Sat, 14 Jul 2007 07:36:53 GMT

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luzr wrote on Fri, 13 July 2007 00:55kfeng wrote on Thu, 12 July 2007 17:54

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In the same time, would be nice to have it in Core too later, but for that purpose it would best be done configurable via translations... (means it should be described by some string literal, just like date or time).

Mirek

Hi Mirek,

Internationalization is a little beyond me for now, so I will just submit a little snippet for others to use/incorporate into their code:

```
String CommaFormatter(const Formatting& f)
{
    int commaSpacing = 3; // fix at 3 for now
    String res      = Format( "%" + f.format + "f", f.arg ); // replace our format with "f"
    int period      = res.Find( '.' );
    int idx         = (period<0) ? res.GetLength() : period;
    while( (idx-=commaSpacing)>0 )
        res.Insert( idx, ',' );
    return res;
}

// Test it
RegisterNumberFormatter("C", CommaFormatter);
String test = Format( "%.2C", 35829123.4253 );
// 35,829,123.43
```

- Ken

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Subject: Re: how align a column?

Posted by [mirek](#) on Mon, 16 Jul 2007 21:53:25 GMT

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kfeng wrote on Sat, 14 July 2007 03:36

Hi Mirek,

Internationalization is a little beyond me for now, so I will just submit a little snippet for others to use/incorporate into their code:

Nothing magic there, just remember that each text literal marked by "t\_" can be replaced for another language...

In this case, you can e.g. try to "describe" the situation by

`t_("3.2")`

- first character is "integer character separator", second number of digits to separate, third decimal point character and last number of decimal digits.

For e.g. Czech it would be translated to:

`" 3,2"`

which would lead to:

35 829 123,43

(just an idea!)

Mirek

Mirek

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