
Subject: Calculate needed cell width to fit some text
Posted by [mdelfede](#) on Sat, 13 Feb 2010 09:31:42 GMT
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I need to setup cell widths to fit some text; with `HeaderCtrl().Absolute()` I can set absolute cell widths, but I can't manage to get pixel width of a given text.
trying with

```
StdFont().GetAveWidth() * myString.GetCount()
```

gives me a by far too big value for character width.

Any hint ?

Another stuff... I have a `DropGrid` containing images, embedded into an `ArrayCtrl`. I also need to set the cell width to fit the image, but doing with `Image.GetSize().cx` misses the width needed for the drop arrow.... By now I do it adding a fixed value, but I'm afraid that it'll behave bad changing platform.

Ciao

Max

Subject: Re: Calculate needed cell width to fit some text
Posted by [Sender Ghost](#) on Sat, 13 Feb 2010 11:29:55 GMT
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Hello, Max.

I made following sample application for your first question from which you can understand about how to setup `ArrayCtrl` columns with fixed width.

```
#include <CtrlLib/CtrlLib.h>
```

```
using namespace Upp;
```

```
const String sampleText("Another Sample Text");
```

```
void CreateOption(One<Ctrl>& ctrl)
{
    ctrl.Create<Option>().NoWantFocus();
}
```

```
class FixedArray : public TopWindow {
```

```

public:
typedef FixedArray CLASSNAME;
FixedArray();

ArrayCtrl list;

void ArrayBar(Bar& bar);

void ToggleOption();
void FillWithData();
};

FixedArray::FixedArray()
{
    Title("Fixed ArrayCtrl test application");
    CenterScreen().MaximizeBox().MinimizeBox().Sizeable();
    SetRect(Size(320, 240));

    list.AutoHideSb();
    list.WhenBar = THISBACK(ArrayBar);
    // Initialize ArrayCtrl columns
    list.AddColumn().Ctrls(CreateOption).HeaderTab().Fixed(26); // first method
    list.AddColumn("Content");
    list.AddColumn("Description");
    // Get width for sampleText
    const int sampleWidth = GetTextSize(sampleText, Draw::GetStdFont()).cx;
    // Set width for column
    HeaderCtrl& hc = list.HeaderObject();
    hc.Tab(1).Fixed(sampleWidth + hc.Tab(1).GetMargin() * 2 + 1); // second method

    Add(list.VSizePosZ(4, 4).HSizePosZ(4, 4));
}

void FixedArray::ArrayBar(Bar& bar)
{
    if (list.HasFocus() && list.IsCursor())
        bar.AddKey(K_SPACE, THISBACK(ToggleOption));

    list.StdBar(bar);
}

void FixedArray::ToggleOption()
{
    GuiLock __;

    list.Set(0, !list.Get(0));
}

```

```
void FixedArray::FillWithData()
{
    GuiLock __;

    list.Clear();

    for (int i = 1; i <= 10; ++i)
        list.Add(i % 2 == 0, sampleText, Format("Description of %d", i));
}

GUI_APP_MAIN
{
    //Ctrl::GlobalBackPaintHint();

    FixedArray fa;
    fa.FillWithData();

    fa.Run();
}
```

File Attachments

1) [FixedArray.png](#), downloaded 567 times

Subject: Re: Calculate needed cell width to fit some text
Posted by [mdelfede](#) on Sat, 13 Feb 2010 13:29:16 GMT
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Hi Sender Ghost,

I missed that one :

```
GetTextSize(sampleText, Draw::GetStdFont()).cx;
```

Thank you very much !

Ciao

Max

Subject: Re: Calculate needed cell width to fit some text

Posted by [nixnixnix](#) on Fri, 05 Mar 2010 23:42:49 GMT

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It looks to me like there should be a GetFont method in GridCtrl::ItemRect. How can you be sure that the return from GetStdFont is the font being used by the GridCtrl Column?

Nick
