Subject: Some addition proposals Posted by crydev on Wed, 26 Apr 2017 10:30:25 GMT

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Hello,

During the development of my personal/hobby application CrySearch, I made several changes to the U++ framework. In this thread I would like to propose some of these to be added to the framework by default. I think it's a good idea, but let me know if you intentionally did not add it in the first place, or if you think it is not a good idea. :)

Firstly, my application contains some code that requires the title (text field) of a TabCtrl::Item. As such wasn't included at that moment, I added the following function to the TabCtrl::Item class. Good idea to add this to the framework?

```
const String& GetText() const { return text; }
```

Secondly, I made a my own class derived from the ArrayCtrI, implementing functionality to set the background color of a row for each column at once. Similarly, I added a wrapper function for the Add(RowNum)Column functions that allow me to set the minimum width of the column. That avoids accidentally dragging a column such that it becomes unusable or invisible. Finally, I added functionality to retrieve a tuple of all indices that are currently visible to the user. This is useful because it allows you to update visible rows only. This last feature is built by Sender Ghost in this thread: http://www.ultimatepp.org/forums/index.php?t=msg&goto=39 908&#msg_39908. Finally, I added multi-row delete functionality with the DELETE key. :)

```
// Handles the DEL key for each array control in the application.
bool CrySearchArrayCtrl::Key(dword key, int count)
{
    // Check for DEL key presses.
    if (key == K_DELETE)
{
        // Execute the removal routine. Since we make such intensive use of virtual rows, we
        // can't place responsibility at the control itself.
        Vector<int> selectedRows;
        const int rowCount = this->GetCount();
        for (int i = 0; i < rowCount; ++i)
        {
            if (this->IsSelected(i))
            {
                  selectedRows << i;
            }
        }
        }
}</pre>
```

// If the removal routine was implemented, execute it. Otherwise, the DEL key does nothing.

```
if (this->RemovalRoutine)
 this->RemovalRoutine(selectedRows);
 return true;
}
// Execute base key function of the ArrayCtrl class.
return ArrayCtrl::Key(key, count);
}
// Returns a range of visible items in an array control.
Tuple2<int, int> CrySearchArrayCtrl::GetVisibleRange()
int from = 0;
int to = 0:
const int last = this->GetCount() - 1;
if (last >= 0)
 const int cy = this->GetSize().cy - 1;
 const int sb = this->GetScroll();
 from = this->GetLineAt(sb),
 to = this->GetLineY(last) <= cy ? last : this->GetLineAt(sb + cy);
if (last < 0 || IsNull(to) || from > to)
 from = to = -1;
return MakeTuple(from, to);
}
// Sets the same display structure for every cell in a row.
// The first parameter is the row and the second parameter is the display structure.
// This function requires protected access to the cellinfo vector.
void CrySearchArrayCtrl::SetRowDisplay(int i, const Display& d)
{
const int rowCount = this->GetCount();
const int colCount = this->GetColumnCount();
if(i \ge 0 \&\& i < rowCount)
 for (int j = 0; j < colCount; ++j)
 this->cellinfo.At(i).At(j).Set(d);
```

```
this->RefreshRow(i);

// Proxying method for adding a regular ArrayCtrl column. Sets a minimum width for a new column.

ArrayCtrl::Column& CrySearchArrayCtrl::CryAddColumn(const char *text, int w)

{
    ArrayCtrl::Column& col = this->AddColumn(text, w);
    col.HeaderTab().Min(25);
    return col;
}

// Proxying method for adding a virtual data column. Sets a minimum width for a new column.

ArrayCtrl::Column& CrySearchArrayCtrl::CryAddRowNumColumn(const char *text, int w)

{
    ArrayCtrl::Column& col = this->AddRowNumColumn(text, w);
    col.HeaderTab().Min(25);
    return col;
}
```

The above code works fine, but every time I update U++, I have to move the 'cellInfo' variable in ArrayCtrl from private to protected. If some of this could be implemented in the framework itself, or maybe the cellInfo variable could be made protected by default, operations like above are easier to implement. :)

Thanks,

crydev

Subject: Re: Some addition proposals Posted by mirek on Sun, 14 May 2017 12:44:39 GMT

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TabCtrl::Item::GetText (and GetPicture to make it complete) now in trunk.

CtrlLib::SetRowDisplay and SetColumnDisplay now in trunk.

Subject: Re: Some addition proposals

Posted by crydev on Mon, 15 May 2017 20:27:16 GMT

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mirek wrote on Sun, 14 May 2017 14:44TabCtrl::Item::GetText (and GetPicture to make it complete) now in trunk.

CtrlLib::SetRowDisplay and SetColumnDisplay now in trunk.

Thanks Mirek!:)

How do you feel about Tuple2<int, int> GetVisibleRange()?

crydev

Subject: Re: Some addition proposals

Posted by mirek on Mon, 15 May 2017 20:41:44 GMT

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Uneasy, that is why I have not it added:)

Anyway, I believe you can implement that one without changing access mode to any members, so....

Why I feel uneasy: IME, code that needs this one is usually fragile. Do not want to encourage that way.

Subject: Re: Some addition proposals

Posted by crydev on Tue, 16 May 2017 07:08:05 GMT

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mirek wrote on Mon, 15 May 2017 22:41Uneasy, that is why I have not it added:)

Anyway, I believe you can implement that one without changing access mode to any members, so....

Why I feel uneasy: IME, code that needs this one is usually fragile. Do not want to encourage that way.

I can understand that! Thanks for your help. :)

crydev