Subject: Change row appearance based on column value in that row
Posted by slashupp on Fri, 17 Jun 2016 09:08:18 GMT

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I have looked at http://www.ultimatepp.org/forums/index.php?t=msg&goto=34 851& but is of no help at all.

I want to change the appearance of a given row (font/style/color) using a Display based on the values
of one or more of the columns in this row.

I know that I must use AddIndex but have no clue on how it works.

Currently I just tag clues to the ends of the values to be displayed and parse them out in the Display,
it works but is ugly code.

Can someone give me an example or point me to one where AddIndex is used?

Subject: Re: Change row appearance based on column value in that row
Posted by mirek on Sun, 31 Jul 2016 12:02:57 GMT

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I guess the basic examples quite shows it:

http://www.ultimatepp.org/reference$ArrayCtrl$en-us.html

See how MyConvert is used.

The thing to know is that what goes to Convert and Display can be just loosly related to row cells. Basic AddColumn starts with "single Value", however you can Add more indicies to the column, in that case you will get ValueMap instead of single Value in Display.

So basically, you need to AddIndex (which does not add column), then for each AddColumn add this index. In Display you will get ValueMap of column value combined with this 'index'.

Mirek

Subject: Re: Change row appearance based on column value in that row
Posted by slashupp on Tue, 16 Aug 2016 10:26:34 GMT

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Quote:I guess the basic examples quite shows it:

old-text:
Quote:clear as mud, sorry
i cannot see the link these indexes has with the actual data or different columns
ID1 is used as a stand-alone 'array.AddIndex(ID1);' - where is the relevance? what does it index?
and again as 'array.AddColumn(ID2, ...).Add(ID1)...' - ID2 seems ok, but what is ID1 doing here?
ID3 just seemingly gets AddIndex()ed to the same column as a 'just because got it' - again
relevance?, index to what?
do all three indexes here relate to the still-to-be-added-data in this column, whatever it is?
what data is added to the ValueMap?
looking at 'MyConvert()' doesn't help to clarify
looking at 'IdInfo' in 'ArrayCtrl' doesn't either

edit 16/8/23
okay, my attempt at understanding of what is happening:
 - an un-attached (akin to a "variable") index is created with AddIndex()
 - this index is then attached to some column with Add()
 - the index added above will be associated with the value in that column when a row is added
 - with a single index Display is called with just that value in that column - which makes no sense
at all because it will be called with that value anyway, index or not
 - with multiple indexes added to as many columns a ValueMap
([index]->value-in-associated-column)? is created - this seems to make sense - but display-routine
magically has to know when its a single or a map? or do i have to in this case always create
something like MyConvert?
 - multiple indexes to same column - wtf? this throws me completely
array.AddColumn(ID2, "combined").Add(ID1).AddIndex(ID3).SetConvert(Single<MyConvert>());
ID1, ID2, ID3 ALL added to this single column - what am i missing?
in MyConvert you use 0, 1 and 2 as indexes into the ValueArray - what then is the purpose of the
named indexes?

Subject: Re: Change row appearance based on column value in that row
Posted by slashupp on Tue, 23 Aug 2016 08:58:32 GMT
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can someone explain? - see my edited previous post

Subject: Re: Change row appearance based on column value in that row
Posted by mirek on Sun, 25 Sep 2016 21:52:53 GMT
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slashupp wrote on Tue, 16 August 2016 12:26
 - multiple indexes to same column - wtf? this throws me completely
array.AddColumn(ID2, "combined").Add(ID1).AddIndex(ID3).SetConvert(Single<MyConvert>());
ID1, ID2, ID3 ALL added to this single column - what am i missing?

Well, perhaps it is usefull to state that 'basic' operations are in fact

ArrayCtrl::AddIndex - adds 'index' (or 'column in datagrid')
ArrayCtrl::AddColumnAt - adds visual column which (at first) contains some index
ArrayCtrl::Column::Add - adds another index to the column - in this case, the value of column is
ValueMap combining valus of all indices

now other methods are derived. For example

array.AddIndex(ID1);
array.AddColumn(ID2, "combined").Add(ID1).AddIndex(ID3);

can be written using basic ops as

array.AddIndex(ID1);
array.AddIndex(ID2);
array.AddIndex(ID3);
array.AddColumnAt(ID2, "combined").Add(ID1).Add(ID3);

Quote:
in MyConvert you use 0, 1 and 2 as indexes into the ValueArray - what then is the purpose of the
named indexes?

Well, ArrayCtrl always creates ValueMap, but in U++, maps are ordered and ValueMap can be
converted to ValueArray, that is why it is then possible to use just indexes. But you can convert to
ValueMap instead and use IDs or in fact, you can use both IDs or indexes directly for Value (this
was not quite possible at the time the example was written).

Hope this helps.

Mirek

_____

Subject: Re: Change row appearance based on column value in that row
Posted by slashupp on Fri, 01 Sep 2017 09:20:44 GMT
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Revisiting this because I previously could not understand this AddIndex()-stuff.
(I used my work-around as described to achieve what I needed to)

I still cannot make any sense from this at all.

I now want to add a key to each row so that I can identify the specific entry when selected/clicked with the real data in another container using this key.

I can find no way to add/associate a row-level key !?!?
no straightforward, intuitive way

any advice?

Subject: Re: Change row appearance based on column value in that row
Posted by mirek on Fri, 01 Sep 2017 11:34:15 GMT
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What about AddKey ? Which is essentially the same as AddIndex, just checks that it is added as the zero index.

```
ArrayCtrl list;
list.AddKey(); // not visible
list.AddColumn("Something");

list.Add(1, "One");
list.Add(2, "Two");

list.GoBegin();
ASSERT(list.Get(list.GetCursor(), 0) == 1);
ASSERT(list.GetKey() == 1);
```

Subject: Re: Change row appearance based on column value in that row
Posted by slashupp on Fri, 01 Sep 2017 13:26:59 GMT
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That works well, thx mirek.

Can I assume that AddKey() and AddIndex() effectively adds hidden columns
that I then can access through column-order-index?
e.g.:

   ar.AddIndex(); ar.AddColumn(); ar.AddIndex();

and I can access these with:

   int idx=ar.GetCursor();

```
if (idx>=0)
{
    int first_index=ar.Get(idx, 0);
    int first_data=ar.Get(idx, 1);
    int second_index=ar.Get(idx, 2);
    ...
}
```

Subject: Re: Change row appearance based on column value in that row
Posted by mirek on Sat, 02 Sep 2017 07:38:37 GMT
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You can say that.

More precise is to say that there are "data columns" ("Index") and "visible colums" and mapping between them. Visible column can have as its data source any number of other data columns.

AddIndex adds data column.

AddColumn adds data column and visible column and trivially maps data->visible.

Mirek