Subject: detecting clicked row in ArrayCtrl [FIXED...]
Posted by hojtsy on Wed, 29 Mar 2006 19:55:56 GMT
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I have an ArrayCtrl and would like to take some action when a row is clicked. It is easy to assign a callback to WhenLeftClick. But the callback should find out which row was clicked. GetCursor is not good enough, because the click could be below the last row, and the cursor is not moved then, so it would appear as if the user clicked the row which has the cursor.

Subject: Re: detecting clicked row in ArrayCtrl
Posted by mirek on Wed, 29 Mar 2006 21:22:24 GMT
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hojtsy wrote on Wed, 29 March 2006 14:55I have an ArrayCtrl and would like to take some action when a row is clicked. It is easy to assign a callback to WhenLeftClick. But the callback should find out which row was clicked. GetCursor is not good enough, because the click could be below the last row, and the cursor is not moved then, so it would appear as if the user clicked the row which has the cursor.

Interesting trouble.... I guess it will require another interface improvement... (I guess WhenLeftClick only for items and WhenLeftClickNoItem for "free" area with default proxy to WhenLeftClick?)

Mirek

Subject: Re: detecting clicked row in ArrayCtrl
Posted by hojtsy on Thu, 30 Mar 2006 06:54:08 GMT
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How about ArrayCtrl with NoCursor? Is the cursor field updated to the last clicked row in this case, so that I can read it from WhenLeftClick action?
What if I want to take some action on middle button click?
I think a more generic solution would be something like a WhenClicked action which gets the mouse position in parameter, and would have a default proxy to WhenBar & WhenLeftClick & WhenLeftDouble.

Subject: Re: detecting clicked row in ArrayCtrl
Posted by mirek on Thu, 30 Mar 2006 20:14:30 GMT
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hojtsy wrote on Thu, 30 March 2006 01:54How about ArrayCtrl with NoCursor? Is the cursor field updated to the last clicked row in this case, so that I can read it from WhenLeftClick action?
What if I want to take some action on middle button click?
I think a more generic solution would be something like a WhenClicked action which gets the

mouse position in parameter, and would have a default proxy to WhenBar & WhenLeftClick & WhenLeftDouble.

Well, I believe that if your code depends on actual mouse position, it is much better to simply derive ArrayCtrl and override LeftDown....

In other words, following this path, we would ended with callbacks for each single virtual method of Ctrl.

Mirek

Subject: Re: detecting clicked row in ArrayCtrl
Posted by hojtsy on Thu, 30 Mar 2006 20:40:06 GMT
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I can hardly imagine an ArrayCtrl where you are interested in left clicks but not the position of them. At least you would be interested in the clicked row index, but adding column index too could not hurt. Since the clicked row is not always available through GetCursor (clicks below last row), would I need to subclass ArrayCtrl just to do exactly the thing that WhenLeftClick callback is for? How about adding a GetClickPosition() public method, which the WhenLeftClick can call?

Subject: Re: detecting clicked row in ArrayCtrl
Posted by mirek on Thu, 30 Mar 2006 20:57:54 GMT
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hojtsy wrote on Thu, 30 March 2006 15:40I can hardly imagine an ArrayCtrl where you are interested in left clicks but not the position of them. At least you would be interested in the clicked row index, but adding column index too could not hurt. Since the clicked row is not always available through GetCursor (clicks below last row), would I need to subclass ArrayCtrl just to do exactly the thing that WhenLeftClick callback is for? How about adding a GetClickPosition() public method, which the WhenLeftClick can call?

I believe there is only a little difference between this and my original "WhenLeftClickNoItem" suggestion - as long as your are not interested in "non-existing" (past the last row) rows (which I believe you should not be).

I mean - WhenLeftClickNoItem -> indicates click outside

WhenLeftClick -> indicates click inside, use GetCursor to get row, GetClickColumn to get column.

Mirek

P.S.: would it be based on my actual experience, I would remove almost all ArrayCtrl callbacks except of WhenCursor, WhenLeftDouble (maybe add WhenLeftDoubleNoItem) and WhenBar. I

have not used others for years....

Subject: Re: detecting clicked row in ArrayCtrl
Posted by hojtsy on Fri, 31 Mar 2006 06:22:48 GMT
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luzr wrote on Thu, 30 March 2006 15:57I believe there is only a little difference between this and my original "WhenLeftClickNoItem" suggestion - as long as your are not interested in "non-existing" (past the last row) rows (which I believe you should not be). WhenLeftClick -> indicates click inside, use GetCursor to get row, GetClickColumn to get column.I am indeed not interested in clicks on non-existent rows. But can I use GetCursor if the ArrayCtrl is set to not display the cursor? If yes then "WhenLeftClickNoItem" suggestion is OK.
luzr wrote on Thu, 30 March 2006 15:57
would it be based on my actual experience, I would remove almost all ArrayCtrl callbacks except of WhenCursor, WhenLeftDouble (maybe add WhenLeftDoubleNoItem) and WhenBar. I have not used others for years....Actually I am trying to use WhenLeftDouble. I was just thinking that refering to WhenLeftClick would simplify the discussion. None of my current apps use the callbacks you are mentioned as removal-candidates, but I suppose there may be other apps out there which does.

Subject: Re: detecting clicked row in ArrayCtrl
Posted by mirek on Fri, 31 Mar 2006 07:50:23 GMT
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hojtsy wrote on Thu, 30 March 2006 15:40I can hardly imagine an ArrayCtrl where you are interested in left clicks but not the position of them. At least you would be interested in the clicked row index, but adding column index too could not hurt. Since the clicked row is not always available through GetCursor (clicks below last row), would I need to subclass ArrayCtrl just to do exactly the thing that WhenLeftClick callback is for? How about adding a GetClickPosition() public method, which the WhenLeftClick can call?

OK, after some thinking, I agree, now on uvs2:

```
ArrayCtrl::
 Point     GetClickPos() const;
 int       GetClickColumn() const;
 int       GetClickRow() const;
```

Mirek
