Subject: Drag & Drop , Sort, GetValue(x)
Posted by sapiency on Sat, 20 Dec 2008 23:13:42 GMT
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hi,

I'm just playing arount with TreeCtrl to get a solution for my problem.

Attache you find a modified reference example, including the logfile.

in the output you see the value get with
int n = tree.GetItemAtLine(i)
Value a = tree.GetValue(n);

and with the variable I used in the loop
Value b = tree.GetValue(i);

the output is not the same even after
tree.Sort(0);

is this a bug? or is just the way using GetItemAtLine(x) the only way to do this?

and I don't understand how to use the whole features of Sort...().

Do I have to overload the struct to use it?

```
00222 struct ValueOrder {
00223         virtual bool operator()(const Value& a, const Value& b) const = 0;
00224         virtual ~ValueOrder() {}
00225 };
```

Maybe you can give me a short example.

regards

reinhard

ps: I'm still working with 2008.1, build in July ...

Subject: Re: Drag & Drop , Sort, GetValue(x)
Posted by sapiency on Sun, 21 Dec 2008 13:04:25 GMT
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hi,

I modified the example above to show it more clearly what happens

creating the elements and show the content of the tree:

```
[12/21/2008 13:15:14.3824] Elements: 10
[12/21/2008 13:15:14.3824]  just created ( 1)  get with i: I  get with n: I
[12/21/2008 13:15:14.3824]  just created ( 2)  get with i: II  get with n: II
[12/21/2008 13:15:14.3824]  just created ( 3)  get with i: III  get with n: III
[12/21/2008 13:15:14.3824]  just created ( 4)  get with i: IV  get with n: IV
[12/21/2008 13:15:14.3824]  just created ( 5)  get with i: V  get with n: V
[12/21/2008 13:15:14.3824]  just created ( 6)  get with i: VI  get with n: VI
[12/21/2008 13:15:14.3824]  just created ( 7)  get with i: VII  get with n: VII
[12/21/2008 13:15:14.3824]  just created ( 8)  get with i: VIII  get with n: VIII
[12/21/2008 13:15:14.3824]  just created ( 9)  get with i: IX  get with n: IX
```

choose element 8 with value "VIII" and drop it to the end of the list.

```
parent = 0
ii = 9
sel[i] = 8
[12/21/2008 13:15:26.6583] AcceptInternal<TreeCtrl>(d, 'mytreedrag'): parent:  0, ii  9
[12/21/2008 13:15:26.6583] Elements: 10
[12/21/2008 13:15:28.8165]  unsorted ( 1)  get with i: I  get with n: I
[12/21/2008 13:15:28.8165]  unsorted ( 2)  get with i: II  get with n: II
[12/21/2008 13:15:28.8165]  unsorted ( 3)  get with i: III  get with n: III
[12/21/2008 13:15:28.8165]  unsorted ( 4)  get with i: IV  get with n: IV
[12/21/2008 13:15:28.8165]  unsorted ( 5)  get with i: V  get with n: V
[12/21/2008 13:15:28.8165]  unsorted ( 6)  get with i: VI  get with n: VI
[12/21/2008 13:15:28.8165]  unsorted ( 7)  get with i: VII  get with n: VII
[12/21/2008 13:15:28.8165]  unsorted ( 8)  get with i:   get with n: IX
[12/21/2008 13:15:28.8165]  unsorted ( 9)  get with i: IX  get with n: VIII
```

take last element with value "VIII" and drop it between "V" and "VI"

```
parent = 0
ii = 5
sel[i] = 10
[12/21/2008 13:16:12.1737] AcceptInternal<TreeCtrl>(d, 'mytreedrag'): parent:  0, ii  5
[12/21/2008 13:16:12.1737] Elements: 10
[12/21/2008 13:16:15.4792]  unsorted ( 1)  get with i: I  get with n: I
[12/21/2008 13:16:15.4792]  unsorted ( 2)  get with i: II  get with n: II
[12/21/2008 13:16:15.4792]  unsorted ( 3)  get with i: III  get with n: III
[12/21/2008 13:16:15.4792]  unsorted ( 4)  get with i: IV  get with n: IV
[12/21/2008 13:16:15.4792]  unsorted ( 5)  get with i: V  get with n: V
[12/21/2008 13:16:15.4792]  unsorted ( 6)  get with i: VI  get with n: VIII
[12/21/2008 13:16:15.4792]  unsorted ( 7)  get with i: VII  get with n: VI
[12/21/2008 13:16:15.4792]  unsorted ( 8)  get with i: VIII  get with n: VII
```

```
[12/21/2008 13:16:15.4792]  unsorted ( 9)  get with i: IX  get with n: IX
```

after the second step the tree loose the value from Element with ID 8 because it got ID 10 when I put it to the end of the list.

regards

reinhard

Subject: Re: Drag & Drop , Sort, GetValue(x)
Posted by mirek on Mon, 22 Dec 2008 08:50:32 GMT
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First small tip:

```
#define D3(x) RLOG("[" << GetSysTime() << "." << int(GetTickCount() % 10000u) << "] " << x)
```

In that case, you should be able to

```
D3(" sorted (" << i << ")  get with i: " << b <<  "\t get with n: " << a);
```

(BTW, Sprintf is the least safe way how to format things anyway...)

To work with elements, you never should use 'i'. Always navigate elements in the tree using:

```
 int    GetChildCount(int id);
 int    GetChild(int id, int i);
```

- that will get you correct node ids.

You should never do it by using 'i' as in your example. GetItemAtLine is quite specific command, you probably would not want to use it either - it gets id of item and given *line* of TreeCtrl - that depends a lot on what nodes are actually open!

You only need to use ValueOrder in case that sorting requiris additional parametrs - e.g. values in TreeCtrl are 'columns' and you want to specify by which column you wish to sort - in that case you need to pass column number to comparison predicate - and ValueOrder allows you to do that (you derive from it, add column number, use it in comparision).

In 90% of cases, simplified methods with "int (*compare)(const Value& v1, const Value& v2)" will be enought.

Mirek

Subject: Re: Drag & Drop , Sort, GetValue(x)
Posted by sapiency on Sat, 27 Dec 2008 22:30:13 GMT
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hi Mirek,

I've created an example which work almost as it should.

actually you can create and delete (right button on element / group) elements and groups, move elements to groups, sort them manually.

If you look at line 90 of main.cpp you find
&& _isMovedElement ==false

without this, the callback 'DropInsert' is called twice and two elements are moved to the new place ...

I tried to find out which Method I have to call so that the callback will be called only once. In the example of DND
InsertDrop(parent, ii, d);
moves the Element to the new place in the tree. But I didn't found the reason why the callback is called twice without this line of code ...

regards

reinhard

File Attachments

1) MyTreeCtrl(3).zip, downloaded 318 times