Subject: GridCtrl: Feature Requests
Posted by Lance on Fri, 30 Mar 2012 12:10:51 GMT
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1. Custom filtering

Use case: In a grid, there is a column called 'age'; the grid has been populated. Then I want to show only rows with ages in certain range. Ideally, GridCtrl will provide a method Filter(); it takes a Gate that will allow user program to test if a row should be filtered out. It's very similar to what Search with search-hide-rows do, but allowing for callback.

Maybe this feature is already there, just I don't know how to use it.

2. Custom sorting
Clicking column header to sort is very handy. Unfortunately sometimes it doesn't demonstrate desirable behavior. E.g., the sorting issue I mentioned in an earlier post. And sometimes, a column might be combined from many pieces of data(because it's more screen space efficient to combine them together). In these cases, more flexible sorting is desirable. A Sort() that accepts callback will fix the issue.

3. External data
The only thing I missed from ArrayCtrl is the capability to use external data (SetVirtualCount, etc). There are times that I'd love to have GridCtrl to ask me:"I know you have a total of 100 rows, I am now drawing the 36th row, can you tell me the datum in the 1st column of the row so that I can render it for you? and the 2nd column..."

I think it might be reasonable to insert an intermediate class in the class hierarchy, maybe a GridCtrlBase which has virtal functuions like:
virtual void SetCount(int newcount)=0;
virtual int GetCount()=0;
virtual Value Get(int row, int col)=0;
virtual void Set(int row, int col, Value value)=0;

And GridCtrl, like what it is current doing, provides built-in storage and implements these functions accordingly.