Subject: [FEATURE REQUEST]Can we support more chart types?
Posted by woielakp on Fri, 18 Oct 2013 05:11:46 GMT
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Hello,
I'm working on the design of an algo-trading monitor,and I need a plotting library which can make financial charts(OHLC,candlestick [both static and dynamic plotting support]) and statistical charts (histogram charts ,etc).
Bazzar/Scatter is not enough.
I've tried "ChartDirect" "PLPlot" before I meet U++,and I do not know how to make a wrapper of them with Upp::Ctrl.

So here comes 2 solutions:
1.Enrich Scatter (now maybe ScatterCtrl & ScatterPlot library) to support more chart types
2.Include external plotting libraries to Upp.

I'm looking forward to your advices.Thanks.

Subject: Re: [FEATURE REQUEST]Can we support more chart types?
Posted by koldo on Fri, 18 Oct 2013 06:44:56 GMT
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Hello qsoft_cn

You may try ScatterCtrl package. There is an example here.

The documentation is here for ScatterCtrl and here for ScatterDraw. This one does the plots without a control, I mean, you can draw and print a chart in a printer or a .pdf without showing it on the screen.

Subject: Re: [FEATURE REQUEST]Can we support more chart types?
Posted by woielakp on Fri, 18 Oct 2013 06:59:30 GMT
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I can use "custom graph types and mark" as the doc shows in the
"User graph" Section

Subject: Re: [FEATURE REQUEST]Can we support more chart types?
Posted by koldo on Fri, 18 Oct 2013 15:44:48 GMT
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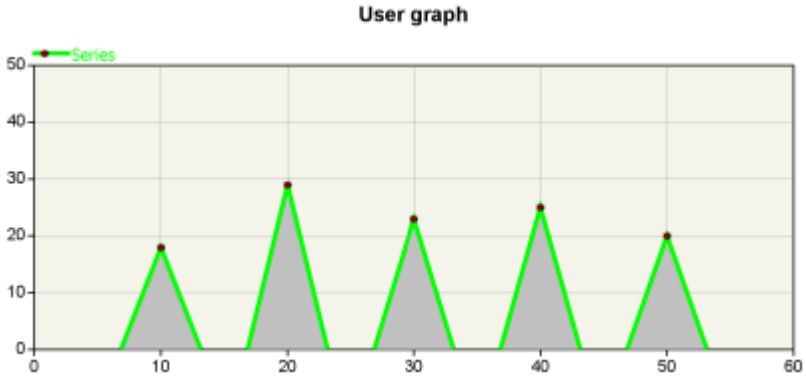
Yes you can define them like in ScatterCtrl_demo:

File Attachments

1) examples$ScatterCtrl_Demo$en-us.html_10.png, downloaded 1114 times



Subject: Re: [FEATURE REQUEST]Can we support more chart types?
Posted by Didier on Fri, 18 Oct 2013 18:09:19 GMT
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Hi qsoft,

There is also another graph package which has all the graphing possibilities of ScatterDraw since it uses it's series class.
GraphDraw & GrahCtrl (it is in svn sandbox : svn://www.ultimatepp.org/upp/sandbox)

The main difference is that GraphDraw end GraphCtrl are built to be enhanced:

add specific axis management (drawing, scaling, PropertiesDlg...)
add custom data over the plot (exlusion zones for example)
Legend can be moved around and re-sized on the graph
add specific legend (whatever you wan't)
In general add any sort of 'element' to the graph

It also has some other capacities that ScatterCtrl does not have :

Undo/Redo
native support of any number of axis (with individual/global move/zoom/FitToData)
plot image is cashed ==> the purpose is to avoid redraw when not necessary (if you have several charts with huge data on several tabs for instance .... you will appreciate this feature
fast draw : works by doing decimation of the data ==> the global shape/distribution of the data is kipped when moving/zooming the plot

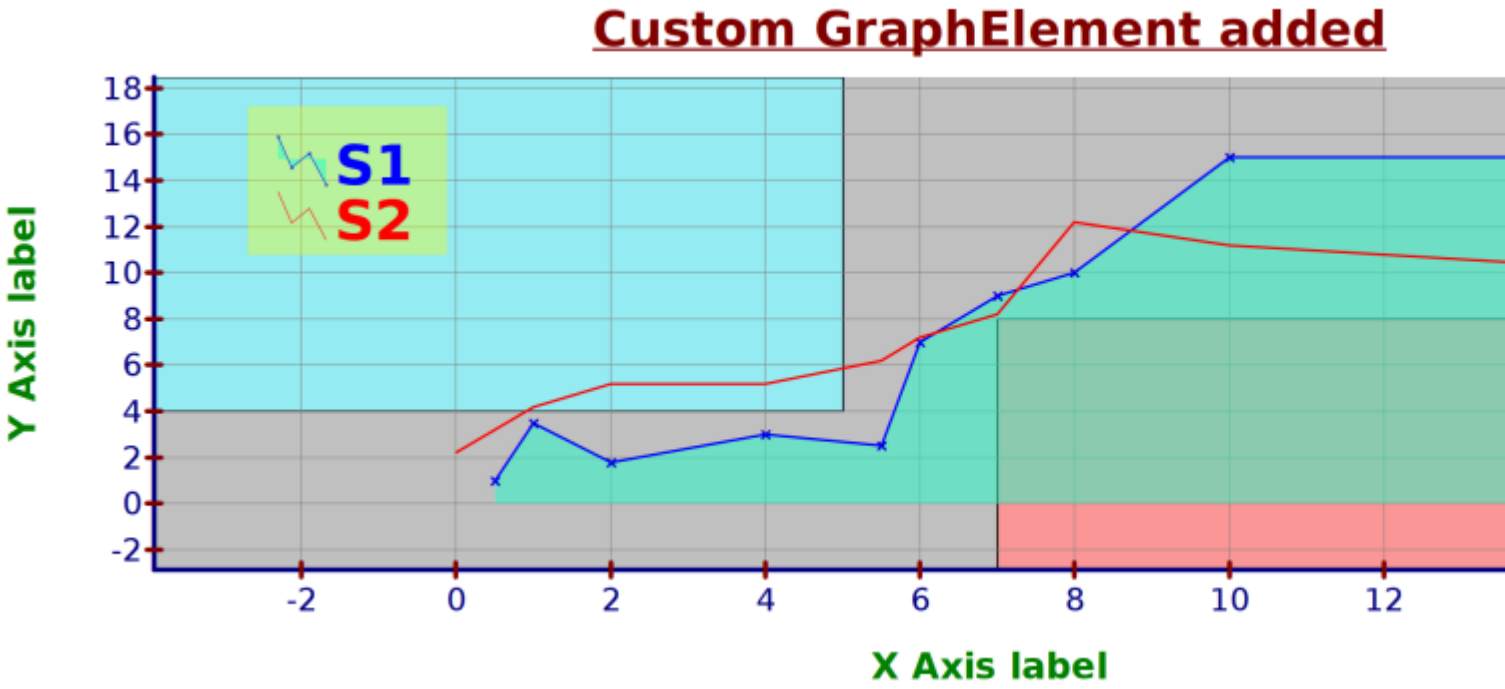
This means you can achieve virtually any chart you need

The main drawback are the following:

no documentation yet (I'recently started filling up the gap slowly)
Complex code for the moment (this is du to the use of a long inheritance tree that uses CRTP : the aim of this is to postpone some decisions the latter possible and when all is OK ==> kick out what's not needed ... so great simplification)

The following example shows a basic example of exclusion zones

File Attachments
1) GraphCtrls.png, downloaded 1179 times



Subject: Re: [FEATURE REQUEST]Can we support more chart types?
Posted by koldo on Fri, 18 Oct 2013 18:53:36 GMT
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Hello Didier

Your comparison is not fair and is not true in many areas. In my opinion it is enough to show the own features and drawbacks. But perhaps I am old fashioned.

However I do not want to open a new topic about this.

Subject: Re: [FEATURE REQUEST]Can we support more chart types?
Posted by Didier on Fri, 18 Oct 2013 19:11:24 GMT
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Hi Koldo,

I'm sorry if I offended you, I really didn't wan't to do that and you're code is great : I use all you're series management as is.

I only added what I needed, and at the beginning, GraphCtrl was a fork of ScatterCtrl.

And like I said, my Ctrl is NOT DOCUMENTED and since assist++ has difficulties dealing with the complex hierarchy(du to the use of CRTP) and macros ==> this makes it hard to use ==> so it is NOT PRODUCTION use

Anyway this is not a competition, I'm only triing to give my control some visibility since it's in sandbox ... and so, almost invisible

Subject: Re: [FEATURE REQUEST]Can we support more chart types?
Posted by woielakp on Sat, 19 Oct 2013 02:35:43 GMT
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I'll have a try.

Subject: Re: [FEATURE REQUEST]Can we support more chart types?
Posted by koldo on Sun, 20 Oct 2013 08:26:30 GMT
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I'll have a try.
and as you can see we Didier and me will try our best if you need more features.

Subject: Re: [FEATURE REQUEST]Can we support more chart types?
Posted by Anonymous on Thu, 13 Mar 2014 06:31:46 GMT
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Very interesting topic, hope more update packages be published to rival more chart types like what I'd seen some abundant chart types from the UI chart control.