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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 ).

Bazaar/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.

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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.

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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

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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 704 times

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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 cached ==> 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've 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

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1) [GraphCtrls.png](#), downloaded 773 times

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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.

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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 want to do that and your code is great : I use all your 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( due 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 trying to give my control some visibility since it's in sandbox ... and so, almost invisible

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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.

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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.

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Subject: Re: [FEATURE REQUEST]Can we support more chart types?

Posted by [unknown user](#) 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.

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