

Forum:[Hack Forums](#)

Thread: [\[VB.NET\]Example Of How to Create a Dynamic Line Graph \[SOURCE\]\[like CPU graph\]](#)

Modesty - September 25, 2010, 9:00 am

What this does:

Know those graphs you get, like on the task manager showing CPU usage history, the horizontally scrolling ones which scroll to the left, each time a new point is plotted on the graph? Well heres how I managed to create something similar to that in VB.NET. unfortunately it uses timers, this is just a proof of concept.

The code is really self explanatory, and is not targetted at beginner users.

Place a PictureBox (recommneded size 400 width, 200 height, set the back color to black) and a Button on your form. The picturebox is where the graph will be displayed. Now add a timer with an interval of 1000ms.

Go to codeview, and enter these variables, just under "Public Class Form1"

Code Dim whichpoint As Integer = 1

Dim xs() As String = {0, 50, 100, 150, 200, 250, 300, 350} ' an array containing the positions at which each new point will be made

Dim ys() As String = {0, 1, 1, 1, 1, 1, 1, 1} ' starting y coords, set at 0Double click button1, and add this code:

Code timer1.start()

Now double click the timer and add this code

Code If whichpoint <= xs.Length - 1 Then

Dim myPen As New System.Drawing.Pen(Brushes.Green, 3)

Dim formGraphics As System.Drawing.Graphics

formGraphics = PictureBox1.CreateGraphics()

formGraphics.DrawLine(myPen, CInt(xs(whichpoint - 1)), PictureBox1.Height -

CInt(ys(whichpoint - 1)), CInt(xs(whichpoint)), PictureBox1.Height - CInt(ys(whichpoint)))

whichpoint += 1

Else

PictureBox1.Refresh() 'refresh picturebox to remove old graph

whichpoint = 1

Timer1.Stop()

Dim r As New Random() 'create a new random point that is going to be drawn

ys = {ys(1), ys(2), ys(3), ys(4), ys(5), ys(6), ys(7), r.Next(20, 150)} ' here we remove the first point of the old graph, add a new point to the end (this

'is currently a random number) and we redraw the graph as shown below. Then the timer is started again and this loops round,

'each time recreating the old graph without the first point and adding on a point.

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whichpoint += 1

```

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CInt(ys(whichpoint - 1)), CInt(xs(whichpoint)), PictureBox1.Height - CInt(ys(whichpoint)))
whichpoint += 1

```

Timer1.Start()
 End If
 Now press debug and watch it rawr :)

Screeny:


thanks to Classical for making the gif^^

Note: The code contains some specifics to the size of my picturebox, such as the positions at which the points will be drawn. This was put intentionally to prevent newbs trying this out without having prior knowledge, or not wanting to learn. For the more experienced members, remember to adjust the array 'xs' so that the points shown fit in your picturebox.

Download Full project: <http://www.mediafire.com/?5g26z39kr5hk412>

Project was created in VS2010, so if you have 2008, just create a new project, delete the form1, and drag in the form1.vb in the download into your solution provider and it should add it.

Coder - September 25, 2010, 9:23 am

Thanks :D

Just what I was looking for. I've seen this in your Rat, I knew you could help.

My way is a bit different, but this is still great. :)

DarkSeven46 - September 25, 2010, 9:24 am

Thanks, already new this, but thanks nice post.

Modesty - September 25, 2010, 9:28 am

(Sep 25, 2010 09:23 AM)Coder Wrote: [\[CITE\]](#) Thanks :D

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Hmm yh urs did seem sexy. But mine will look identical if i make the points at which the graphs are

plotted closer.

Either way, glad it helped.

(Sep 25, 2010 09:24 AM)DarkSeven46 Wrote: [\[CITE\]](#) Thanks, already new this, but thanks nice post.

Didn't quite understand, how can you already know this?

You knew the code, or the concept/pseudo-code

DarkSeven46 - September 25, 2010, 9:35 am

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Modesty - September 25, 2010, 9:37 am

(Sep 25, 2010 09:35 AM)DarkSeven46 Wrote: [\[CITE\]](#) Didn't quite understand, how can you already know this?

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I knew the concept of it.

[/quote]

Oh lol kl. You said it in a way as if it was an accomplishment of mine, sorry for the misunderstanding.

Glad you knew it ? Intelligence is around meh (8)

Vorfin - September 25, 2010, 10:37 am

Seems stupidly complex if you ask me (No offence) Why not just use an external Graph Library?

Modesty - September 25, 2010, 11:12 am

(Sep 25, 2010 10:37 AM)Vorfin Wrote: [\[CITE\]](#) Seems stupidly complex if you ask me (No offence) Why not just use an external Graph Library?

Not complex at all?

And whats the point of a huge graph library if you can just do it quickly like this? Also, this is customizeable to an extent, and the picturebox allows a background image.

Moreover, anyone is free to take this, and profit off this in any way, monetarily or just for learning.

Thanks for the comment though.

Oh and the code above can be reduced to nearly half the size. I only did it in the way I did above for debugging purposes and such, But you can add in for loops in here, and it will be half the size, I'm sure.

Coder - September 25, 2010, 11:46 am

@Vorfin: What's wrong in making something rather than using the prebuilt? :p

(Sep 25, 2010 09:28 AM)P Y R O Wrote: [\[CITE\]](#) Hmm yh urs did seem sexy. But mine will look identical if i make the points at which the graphs are plotted closer.

Either way, glad it helped.

I meant different. You are drawing the graph with a moving animation, whereas I am drawing the graph and moving the actual picturebox in a different direction.

I don't know how I can use this to complete my graph. :/

I'm pretty sure there should be a way like PaintPicture in .net. I'll try to find it.

Modesty - September 25, 2010, 12:46 pm

(Sep 25, 2010 11:46 AM)Coder Wrote: [\[CITE\]](#) @Vorfin: What's wrong in making something rather than using the prebuilt? :p

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I'm pretty sure there should be a way like PaintPicture in .net. I'll try to find it.

Add my msn bro, i'll do it for you:

d7m@hotmail.co.uk

TheBlackMarket - September 25, 2010, 2:32 pm

This is great, thanks for the nice share mate.

Modesty - September 26, 2010, 8:01 am

Glad you like it guys :)

Will be posting my codedom class in a mo

rapidguide - September 26, 2010, 8:09 am

Thats Relly Cool + thank YOu For Ur Post Keep It Up

Samuell - September 26, 2010, 8:16 am

Pretty cool, here's a .gif :).

[IMG][http://i56.\[censored\].com/2nktppl.gif](http://i56.[censored].com/2nktppl.gif)[/IMG]

Modesty - September 26, 2010, 1:45 pm

(Sep 26, 2010 08:16 AM)Classical Wrote: [\[CITE\]](#) Pretty cool, here's a .gif :).

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Thanks brah. What did you use, camtasia?

Samuell - September 26, 2010, 1:47 pm

(Sep 26, 2010 01:45 PM)P Y R O Wrote: [\[CITE\]](#) Thanks brah. What did you use, camtasia?

I used a nice little tool I have called VirtualDub, it's pretty nice for making .gif.