

Apache Pulsar

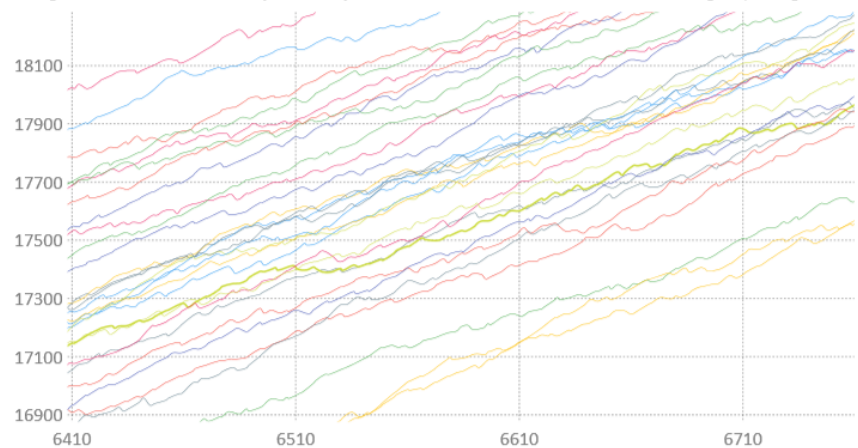
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30 Series 10k points each

In this case we have 30 series, with 10,000 points each, even the quality is set to low, once you zoom in the library is smart enough to draw the lines without any error, use your mouse wheel to zoom in/out, click hold and drag for panning.



This example uses LiveCharts.Geared, the geared package is an optional extension that boost LiveCharts performance, you can install a 10 day trial from Nuget More samples (<https://github.com/Live-Charts/GearedExamples>) | Install (/App/examples/v1/wpf/Installing%20Geared) | Pricing (/licensing/pricing)

To keep this example always up to date it is directly pulled from the Github repository, the repo for simplicity uses the *MetroWindow* class, from Mahapps (<http://mahapps.com/>) to wrap this example, but you can use any container for your plots.

MultipleSeriesVm.cs

```

1. using System;
2. using System.Windows.Media;
3. using LiveCharts;
4. using LiveCharts.Geared;
5.
6. namespace Geared.Wpf.MultipleSeriesTest
7. {
8.     public class MultipleSeriesVm
9.     {
10.         public MultipleSeriesVm()
11.         {
12.             Series = new SeriesCollection();
13.             var r = new Random();
14.
15.             for (var i = 0; i < 30; i++) // 30 series
16.             {
17.                 var trend = 0d;
18.                 var values = new double[10000];
19.
20.                 for (var j = 0; j < 10000; j++) // 10k points each
21.                 {
22.                     trend += (r.NextDouble() < .8 ? 1 : -1)*r.Next(0, 10);
23.                     values[j] = trend;
24.                 }
25.
26.                 var series = new GLineSeries
27.                 {
28.                     Values = values.AsGearedValues().WithQuality(Quality.Low),
29.                     Fill = Brushes.Transparent,
30.                     StrokeThickness = .5,
31.                     PointGeometry = null //use a null geometry when you have many
32.                 };
33.                 Series.Add(series);
34.             }
35.
36.             public SeriesCollection Series { get; set; }
37.         }
38.     }
39. }

```

XAML

```

1. <UserControl x:Class="Geared.Wpf.MultipleSeriesTest.MultipleSeriesView"
2.             xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
3.             xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
4.             xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"
5.             xmlns:d="http://schemas.microsoft.com/expression/blend/2008"
6.             xmlns:lvc="clr-namespace:LiveCharts.Wpf;assembly=LiveCharts.Wpf"
7.             xmlns:MultipleSeriesTest="clr-namespace:Geared.Wpf.MultipleSeriesTest"
8.             mc:Ignorable="d"
9.             d:DesignHeight="300" d:DesignWidth="300">
10.     <UserControl.DataContext>
11.         <MultipleSeriesTest:MultipleSeriesVm/>
12.     </UserControl.DataContext>
13.     <Grid>
14.         <Grid.Resources>
15.             <Style TargetType="lvc:Separator">
16.                 <Setter Property="Stroke" Value="#6900000"></Setter>
17.                 <Setter Property="StrokeThickness" Value=".8"></Setter>
18.                 <Setter Property="StrokeDashArray" Value="2"></Setter>
19.             </Style>
20.         </Grid.Resources>
21.         <Grid.RowDefinitions>
22.             <RowDefinition Height="Auto"></RowDefinition>
23.             <RowDefinition Height="*"></RowDefinition>
24.         </Grid.RowDefinitions>
25.         <TextBlock TextWrapping="Wrap">
26.             In this case we have 30 series, with 10,000 points each,
27.             even the quality is set to low, once you zoom in the library is smart
28.             enough to draw the lines without any error, use your mouse wheel to zo
29.             click hold and drag for panning.
30.         </TextBlock>
31.         <lvc:CartesianChart Grid.Row="1"
32.                             DisableAnimations="True"
33.                             Series="{Binding Series}"
34.                             DataTooltip="{x:Null}"
35.                             Zoom="Xy"/>
36.     </Grid>
37. </UserControl>
38.

```

Search

WPf (/App/examples/v1/wpf/30 Series 10k pts each) UWP (/App/examples/v1/uwp/30

Series 10k pts each) WF (/App/examples/v1/wf/30 Series 10k pts each) | Edit

(https://github.com/Live-Charts/LiveCharts.Wpf/blob/master/Wpf/30 Series 10k pts each/Wpf/Xaml) OPEN CHAT: <https://gitter.im/beto-bonroque/Live-Charts>

Start

Basic Plots

Customizing and Inspiration

Features

More

You might also find useful:

[Installing Geared \(/App/examples/v1/wpf/Installing Geared\)](#)

Pulsar vs. Kafka

A More Accurate Perspective on Performance, Architecture, and Feat

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[Release Announcements \(https://github.com/beto-rodriguez/Live-Charts/releases\)](https://github.com/beto-rodriguez/Live-Charts/releases)
[Issues tracker \(https://github.com/beto-rodriguez/Live-Charts/issues\)](https://github.com/beto-rodriguez/Live-Charts/issues)
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