

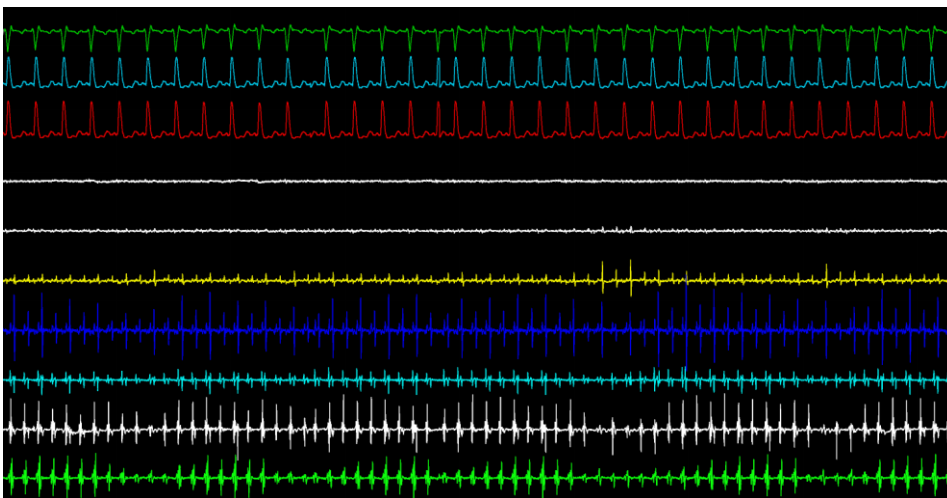


LightningChart® .NET v.10.1 New Features:

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1. Performance improvements and SampleDataBlockSeries

- This release focuses heavily on LightningChart's performance. The following major improvements are included as well as several minor improvements and bug fixes:
 - Zooming and panning of large IntensityGridSeries (heatmaps) when using PixelRendering is up to 100 times faster. CPU load decreases from 80% to 20%.
 - Improved PointLineSeries3D rendering speed and interaction. Data point tracking is up to 40 times faster.
 - Improved chart rendering when thousands of Annotations are used. Rendering and chart interaction is 10-50 times faster.
 - Polar chart with thousands of Sectors performs up to 10 times faster when using Software11 rendering engine.
- Added **SampleDataBlockSeries**, a new series fully optimized for real-time applications. It offers the best possible performance with least CPU and memory consumption, allowing rendering extremely high number of data points simultaneously. **SampleDataBlockSeries** is the optimal series type for real-time medical monitoring applications, such as ECG/EKG, EEG, industrial monitoring applications, telemetry, and waveform vibration monitoring.
 - **SampleDataBlockSeries** decreases the CPU load and uses up to 50% less memory compared to the previous best series SampleDataSeries. The difference to PointLineSeries and FreeformPointLineSeries is even bigger.
 - Produces smooth real-time sweeping even with 100 simultaneous series, each with 10 000 000 data points.



Several SampleDataBlockSeries in a real-time application.

2. TradingChart improvements

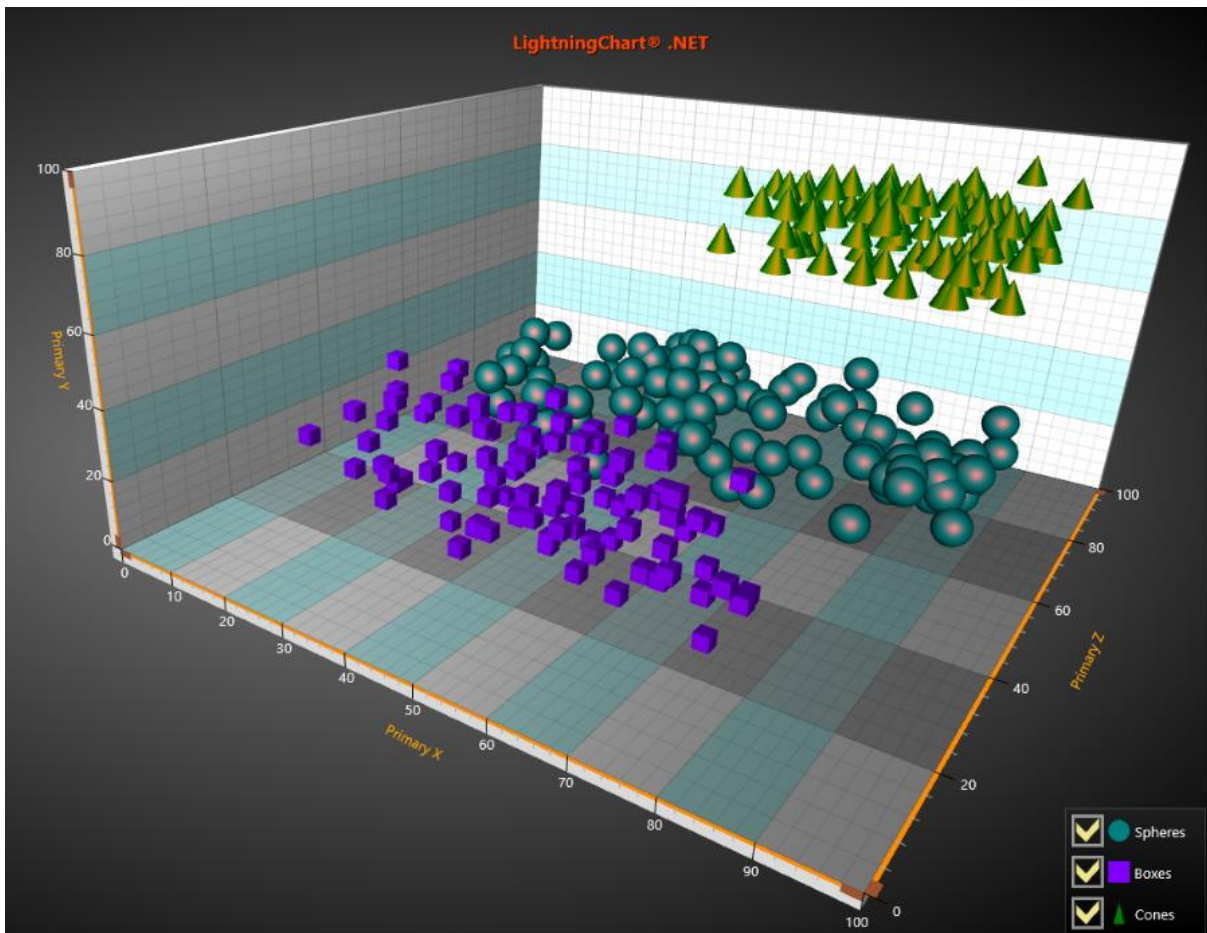
- TradingChart component has some new additions. MarketStack data provider is now supported. Therefore, the built-in provider now provides real-time trading data updates up to 1 minute instead of just end-of-day data. Note that we still recommend getting an own API key for the data providers to ensure that no data request limit is hit.
- Improved X-axis label handling to prevent them overlapping each other when zooming in or out.
- Two new technical indicators are now available: **Stochastic Oscillator** and **Money Flow Index**.



Stochastic Oscillator and Money Flow Index added to a TradingChart.

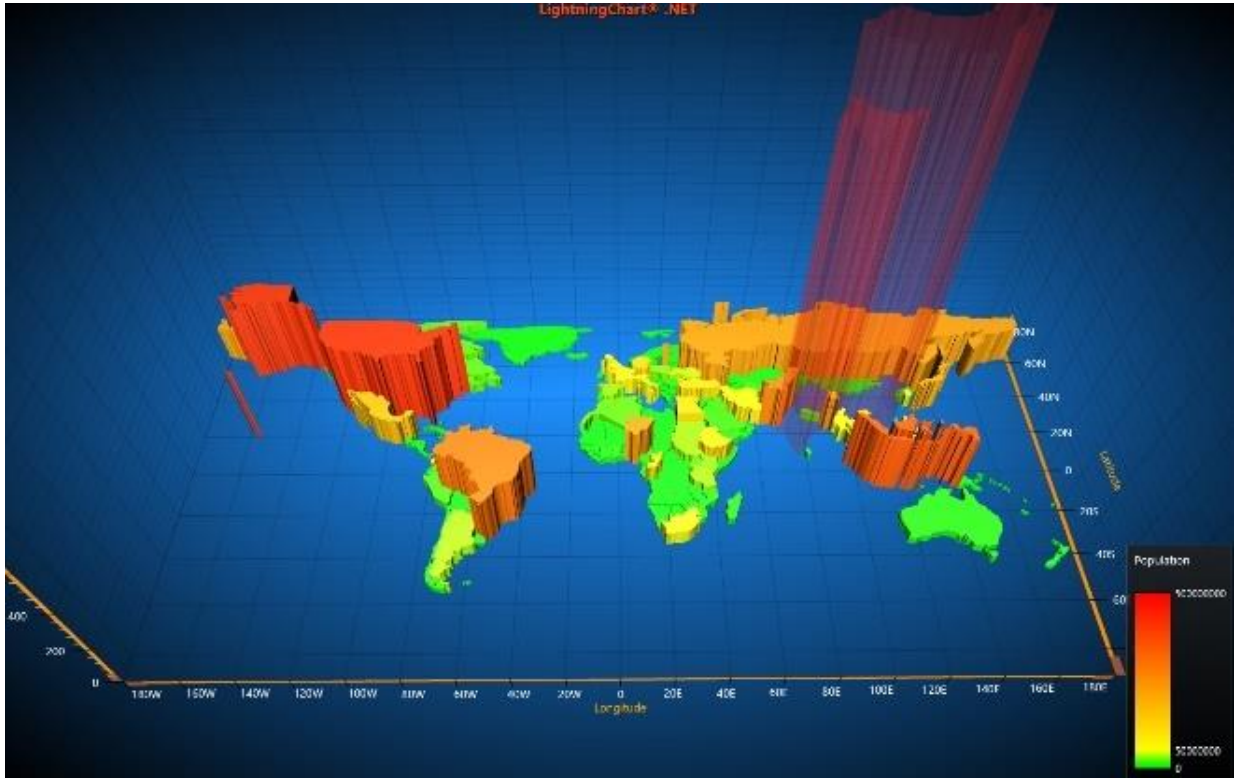
3. New smaller features

- This release has several smaller new features and bug fixes, including for example:
 - Font sizes and styles are now set correctly.
 - Added **GetSegmentsAtPoint()** method for LineCollection, which can be used to identify individual line segments for example when mouse clicking a line collection.
 - Users can now change legend box checkbox size.



The size of the checkboxes in the legend box has been increased.

- Walls in 3D view can now be set fully transparent, in which case only the grid lines are visible.

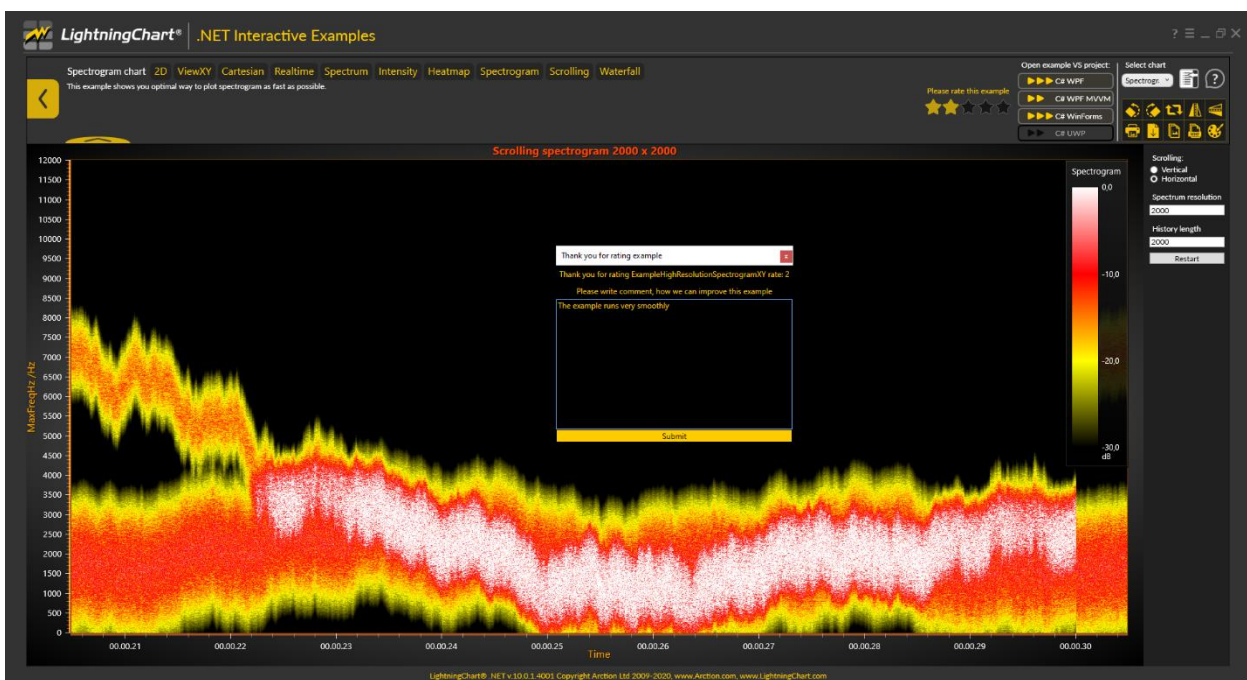


Transparent walls are used. Only the gridlines are visible.

- Full list of changes and bug fixes can be read on the [ChangeLog](#).

4. Interactive examples application changes

- Added several new MVVM versions of the existing examples. Now almost every demo example can be extracted as a stand-alone MVVM project utilizing binding.
- Implemented a feedback system to Interactive Examples application, allowing individual examples to be rated. This helps us create better and more suitable examples in the future.



Rating an individual example.

- Interactive Examples and Dev Center now ask for permission to collect anonymous user statistics to help us improve our applications and to provide the best possible user experience in the future. Regardless of this being allowed or declined, this option can be changed any time via DevCenter or Interactive Examples and does not affect the applications or the charts anyhow. No user statistics from using the LightningChart itself is collected.

If you have any questions, please contact us at arction@arction.com

Thank you for being our customer, happy coding!