Lightspeed Trader Charts: The Lightspeed Trader Charts are described in depth in this memo. Users will find the charts to be easy to use, completely customizable and more performant.
I. Changing the Chart Parameters

The charts allow users to create time frame “buttons.” These buttons are used to quickly switch between pre-defined time frames and chart settings and are displayed at the bottom of your chart window.

There are several ways to change the Chart Parameters you are looking at: 1) Buttons at the bottom of the chart, 2) Right Clicking and Selecting Chart Parameters, 3) Using your mouse wheel to Scroll backward/forward through time.

1) Selecting Chart Parameters
Select from Daily, Weekly, Monthly Periods and enter your # of Days, Weeks, Months back. If you select and Intraday period, you may choose from a # of Days Back or for a Fixed bar size, select a # of Bars Back.

2) Using and Editing the Buttons
You may use the predefined Timeframe Buttons to change the Displayed Timeframe or you may create your own buttons with Timeframes. To create your own button, select the parameters in the above window, name it, then click Add.

*Note: Users can also map the keyboard keys “Chart Button Next” and “Chart Button Previous” from the Non-Trading Function keys on the Keyboard Tab to cycle through their pre-defined Chart Parameters.*

3) Zooming/Changing Timeframes with your Mouse wheel
When using your mouse to change time frames, it will scroll back in the period you are currently viewing. For instance, if you are looking at a Daily Chart the mouse wheel will scroll back Days, and if you are looking at a Weekly chart you will scroll back in weeks. When viewing an Intraday Chart you can scroll back in Bars if you have selected to view a # of Bars back or you will scroll back in Days back respectively.

*Note: If you want to modify an existing button you must first select the button, then modify the parameters, and then select Add again. Or, you must select your parameters, retype the name of the button and then select Add. Once you click on an existing button without selecting Add, your changes will be lost.*
II. Chart Style Part 1: Customizing the Colors

1. Change the background color of the chart.
2. Change the foreground color of the chart (gridlines and axis lines).
3. Change the text color.
4. Change the up/down text color (the colored axis, the net change, executions). Note: This does not change the color of your candles or bars, which is changed in the “Studies” Tab.
5. Modify the Font of the Symbol in the top right corner of your chart.
6. Modify the Font of the Level 1 information and your buttons.
7. Modify the Font of your Axis Labels.
8. Save your Layout as a Style. This will allow you to save different styles of charts. The “Style” includes all of the above settings (Colors and Fonts) as well as any studies you have added.
III. Chart Style Part 2: Customizing Chart Type

Selecting Price Chart Type

**Candle**: When Candle is selected, choose your up and down candle color and size and size of the wick.

**Hollow Candle**: Also called “Japanese Candle” will display hollow “Up” Candles and Colored “Down” Candles.

**OHLC Bar**: Configure the colors for your up/down Bars easily.

**Line**: The Line of a Line Charts can be made thin, medium or thick.

**Mountain**: Mountain Charts are shaded-in Line Charts

**Simple Bar**: Simple Bar Charts are typically used to plot volume but can also be used in the Price Chart.
IV. Chart Style Part 3: Adding Studies

To add a Study right click in the chart and select the Studies option, you will be taken to the Studies tab, seen above. Select from Simple Moving Average, Exponential Moving Average, Bollinger Bands, MACD, RSI, Previous Close Line, or Comparison Charts.

**Moving Average and Exponential Moving Average:** The Average will be calculated based on the closing price of the last X Bars in your chart. Select the # of Bars, select Line or Mountain display, choose color, and select Add.

**Bollinger Bands:** Consist of a middle band = X period of SMA, an upper band at N times standard deviation above and a lower band at N times standard deviation below. Choose your # of Bars (X period, usually 20) and choose your # of standard deviations (N, usually 2). Choose your color for the middle, upper and lower bands.

**Comparison Chart:** Lightspeed’s answer to the “overlay,” a comparison chart will start at the same point as your price chart and overlay a symbol, index or future of your choice. Just enter the symbol to overlay and choose your style and color.

**MACD:** Stands for Moving Average Convergence/ Divergence. MACD will display in its own pane below the chart. Choose the # of Bars and color for the signal line (usually 9), choose the fast and slow EMA bars and color (usually 12 and 26 respectively).
**RSI:** Relative Strength Index will also show up in its own pane below your price chart. Select your EMA smoothing period (usually 14) and color and style.

**Previous Close Line:** This is a line indicating the prior day’s closing price. It is available on intraday charts only. Choose a color.

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V. Chart Style Part 4: Saving your Chart Style

Once you have configured your chart with your desired **Chart Type, Colors, Display Settings and Studies** you can save it as your own personal Style. Simply name your Style [Layout] and Click Add.

*Note: If you want to Modify an existing Style, you must retype the name of the style and select Add, once you click on an existing style, it will reset it and you will lose all changes.*
Some Tips and Tricks for the Lightspeed Charts

- Individual Charts can be **Linked** in the same manner as any other windows in Lightspeed. You can link a chart to “Focus,” Unlink it for a stand-alone chart, or Link a Chart to a specific Level 2 Window.

- Creating and deleting Buttons is especially easy by **right-clicking** on an existing button. Choices for Adding a New Button, Editing or Deleting an existing button will come up in the right-click menu.

- By default, users must double-click within the chart window to bring up the **cross-hairs**. If you would like to change that to single-click, you may do so in the Display subtab.

- Users can add **extra space** at the end of their chart (to predict future movement) by increasing the “Extra Pixels” in the Display subtab.

- In order to compare a price chart with another symbol, index or futures contract select **“Comparison Chart”** from the list of Studies in the “Studies” subtab. Lightspeed currently provides a comparison chart and an overlay. An ”overlay” shows the line of the second symbol on top of your chart for best fit, while the comparison chart actually starts at the same point as your price chart, for reference.

- Users can map the keyboard keys “**Chart Button Next**” and “**Chart Button Previous**” from the Non-Trading Function keys on the Keyboard Tab to scroll through their pre-defined Chart Parameters.

- Hold down the Alt key to start drawing a **Trendline** without using the right click menu. It will default to the type of trendline you last drew (Segment, Ray, Line).

- Hold down **CTRL** and use your mouse wheel to move the chart along the Y-Axis. Hold Down **ALT** and use your mouse wheel to adjust the chart by increasing/decreasing the Y-Axis.