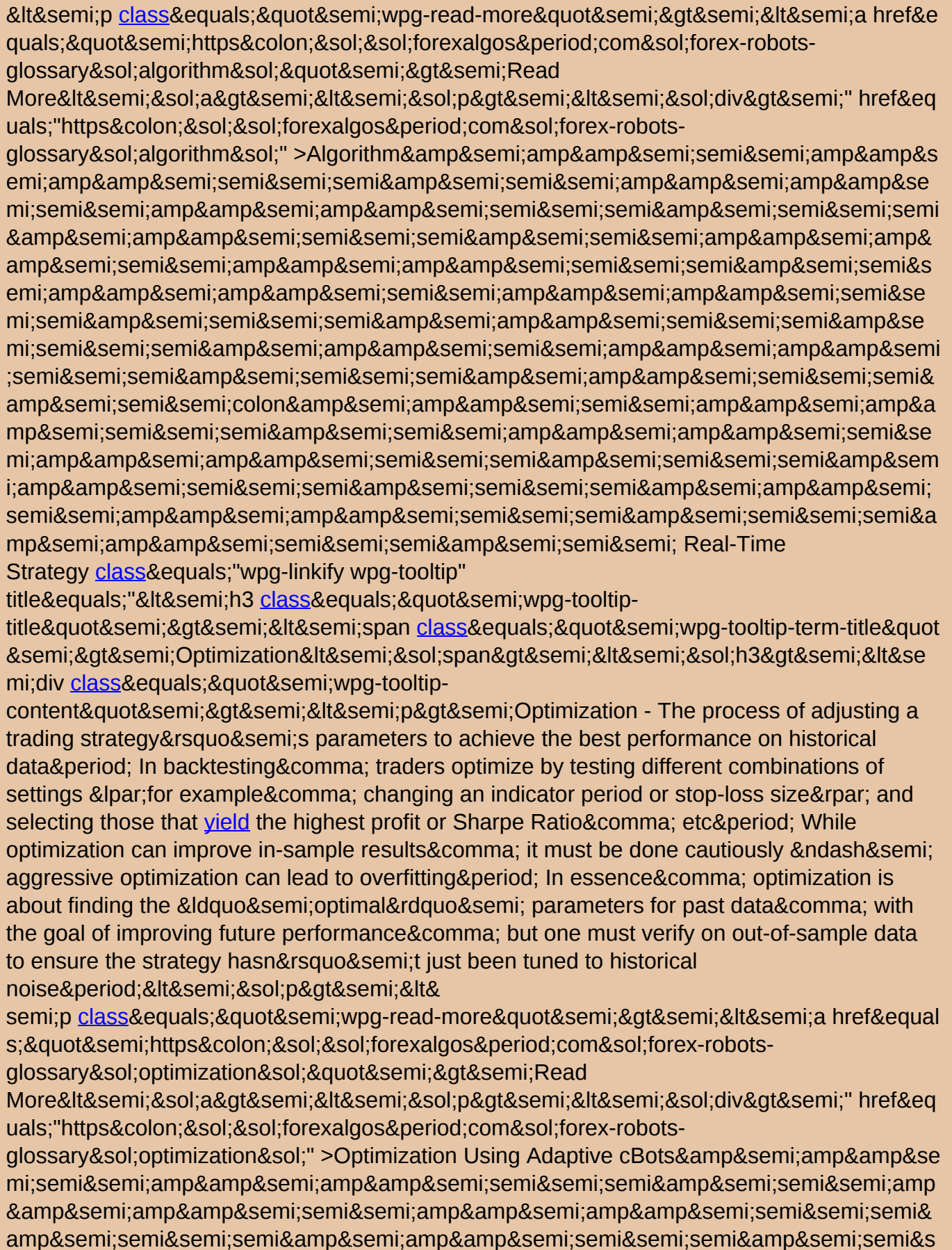




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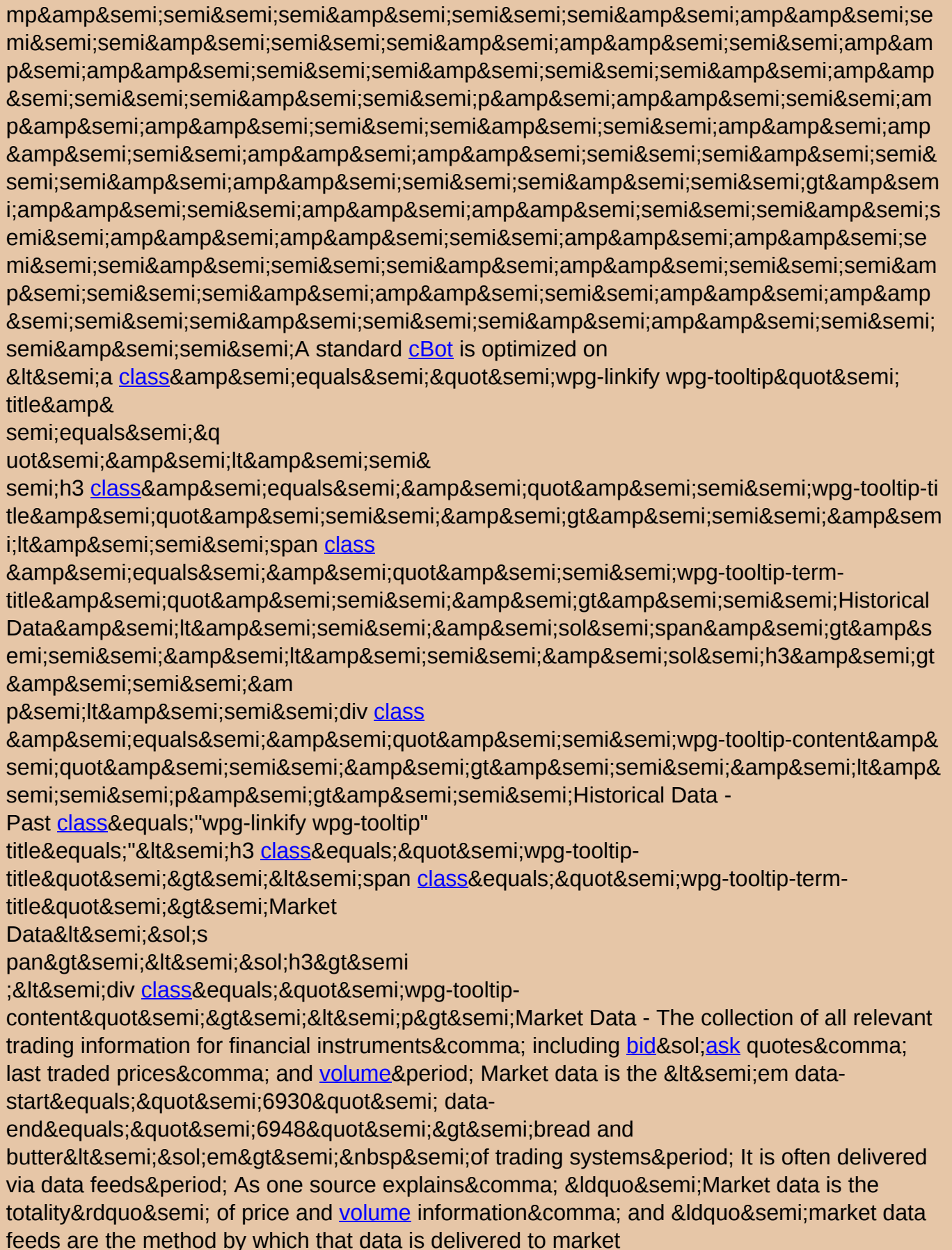
7 / 101

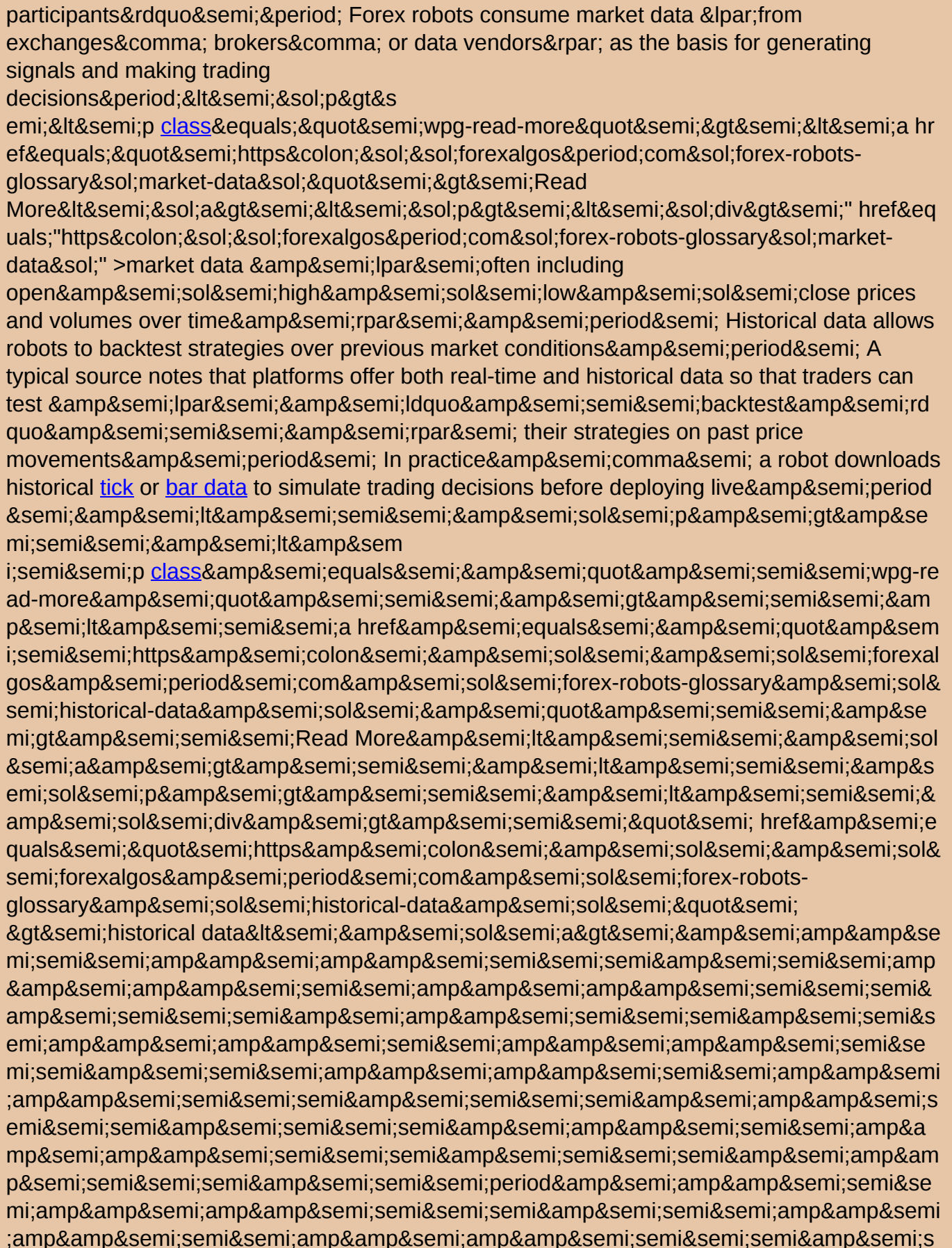
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; You might find that a 50-period moving average was the most profitable setting over the last two years
 ; The problem is
 ; The market of the last two years might be vastly different from the market of the next two weeks
 ;

A static [cBot](#) will continue to use its 50-period MA

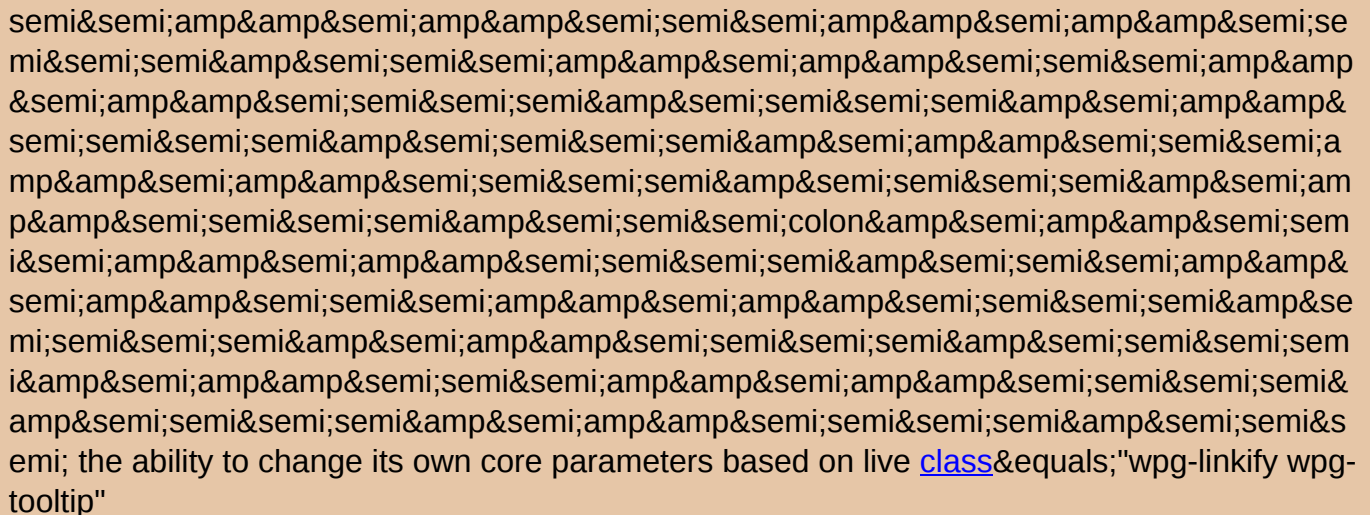
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emi&;semi;adaptive [cBot](#)
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is a sophisticated [class](https://forexalgorithms.com/forex-robots-glossary/algorithm/)="wpg-linkify wpg-tooltip" title=";h3 [class](https://forexalgorithms.com/forex-robots-glossary/algorithm/)="wpg-read-more" title=";a href="https://forexalgorithms.com/forex-robots-glossary/algorithm/";>algorithm programmed with a meta-strategy



title";>;<;span [class](#)=";wpg-tooltip-term-
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pan>semi;<semi;/h3>semi

content">Market Data - The collection of all relevant trading information for financial instruments, including bid\ask quotes, last traded prices, and volume.</p></div>

butter<semi>/em>semi> semi>of trading systems&period> It is often delivered via data feeds&period> As one source explains&comma> &ldquo>semi>Market data is the totality&rdquo>semi> of price and [volume](#) information&comma> and &ldquo>semi>market data feeds are the method by which that data is delivered to market

participants&rdquo;. Forex robots consume market data (from exchanges, brokers, or data vendors) as the basis for generating signals and making trading

emi;<semi;p [class="wpg-read-more">wpg-read-more</class><semi><semi>a href="https://forexalgorithms.com/forex-robots-glossary/market-data/">https://forexalgorithms.com/forex-robots-glossary/market-data/<semi><semi>Read](https://forexalgorithms.com/forex-robots-glossary/market-data/)

More<;/a>;<;/p>;<;/div>;" href=&eq
uals;"https://forexalgos.com/forex-robots-glossary/market-
data/">market data&;amp&;semi;amp&;amp&&

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v [class](#)="";wpg-tooltip-
content";>;<;p>;Volatility - A measure of how much and
how quickly price moves over time. High volatility means large price swings; low
volatility means stable prices. Volatility affects [position](#) sizing and risk: robots
typically use volatility (e.g. Average True Range) to adjust [trade](#) size
or widen stops, since more volatile markets require larger
buffers.<;/p>;
<;p [class](#)="";wpg-read-more";>;<;a href&e
quals;"";https://forexalgos.com/forex-robots-
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uals;"https://forexalgos.com/forex-robots-
glossary/volatility/">Volatility Analysis&;amp&;semi;amp



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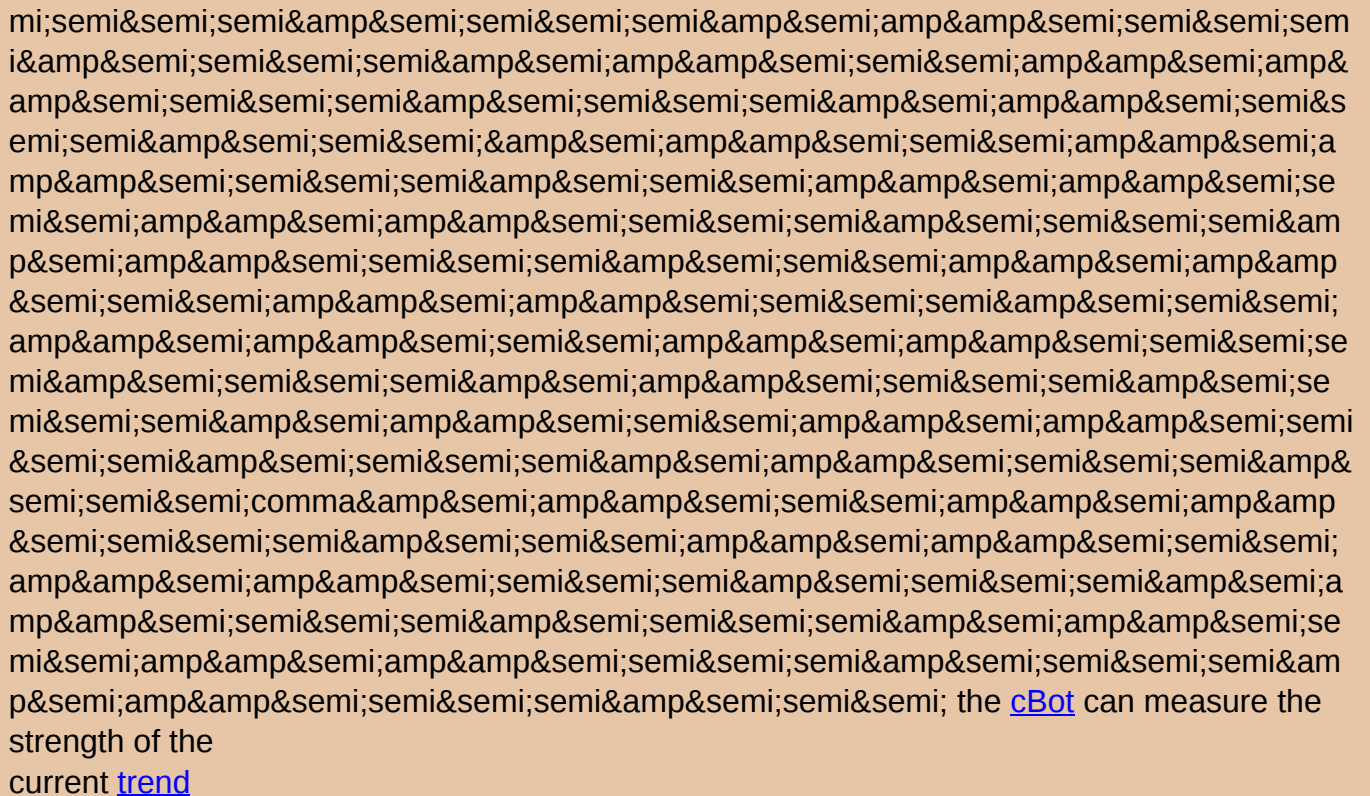
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strategy [class](#) equals; "wpg-linkify wpg-tooltip" title equals; "<;h3 [class](#) equals; ";wpg-tooltip-title";>;<;span [class](#) equals; ";wpg-tooltip-term-title";>;Optimization<;/span>;<;/h3>;<;div [class](#) equals; ";wpg-tooltip-content";>;<;p>;Optimization - The process of adjusting a trading strategy&rsquo;s parameters to achieve the best performance on historical data. In backtesting, traders optimize by testing different combinations of settings (for example, changing an indicator period or stop-loss size) and selecting those that [yield](#) the highest profit or Sharpe Ratio, etc. While optimization can improve in-sample results, it must be done cautiously –; aggressive optimization can lead to overfitting. In essence, optimization is about finding the &ldquo;optimal&rdquo; parameters for past data, with the goal of improving future performance, but one must verify on out-of-sample data to ensure the strategy hasn&rsquo;t just been tuned to historical noise.<;/p>;<&

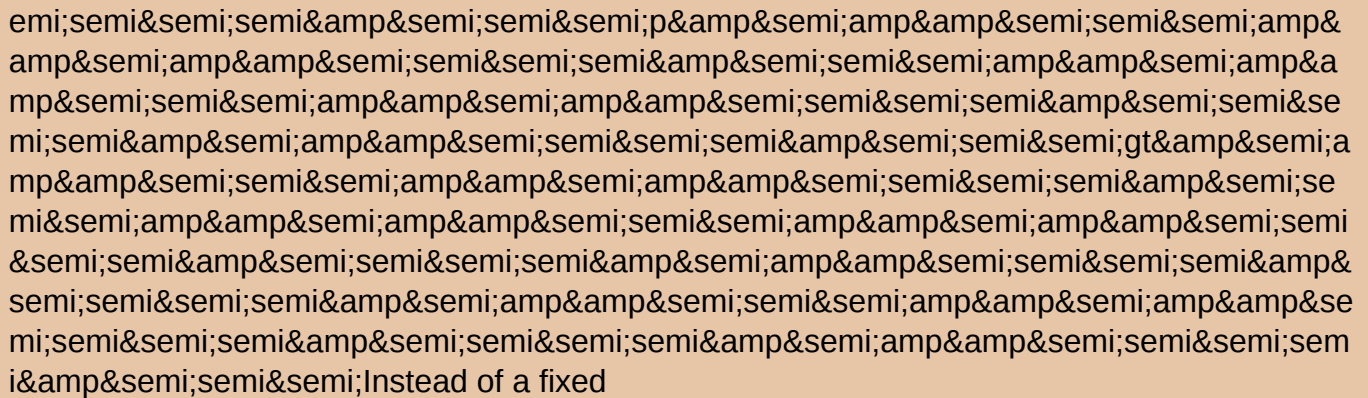
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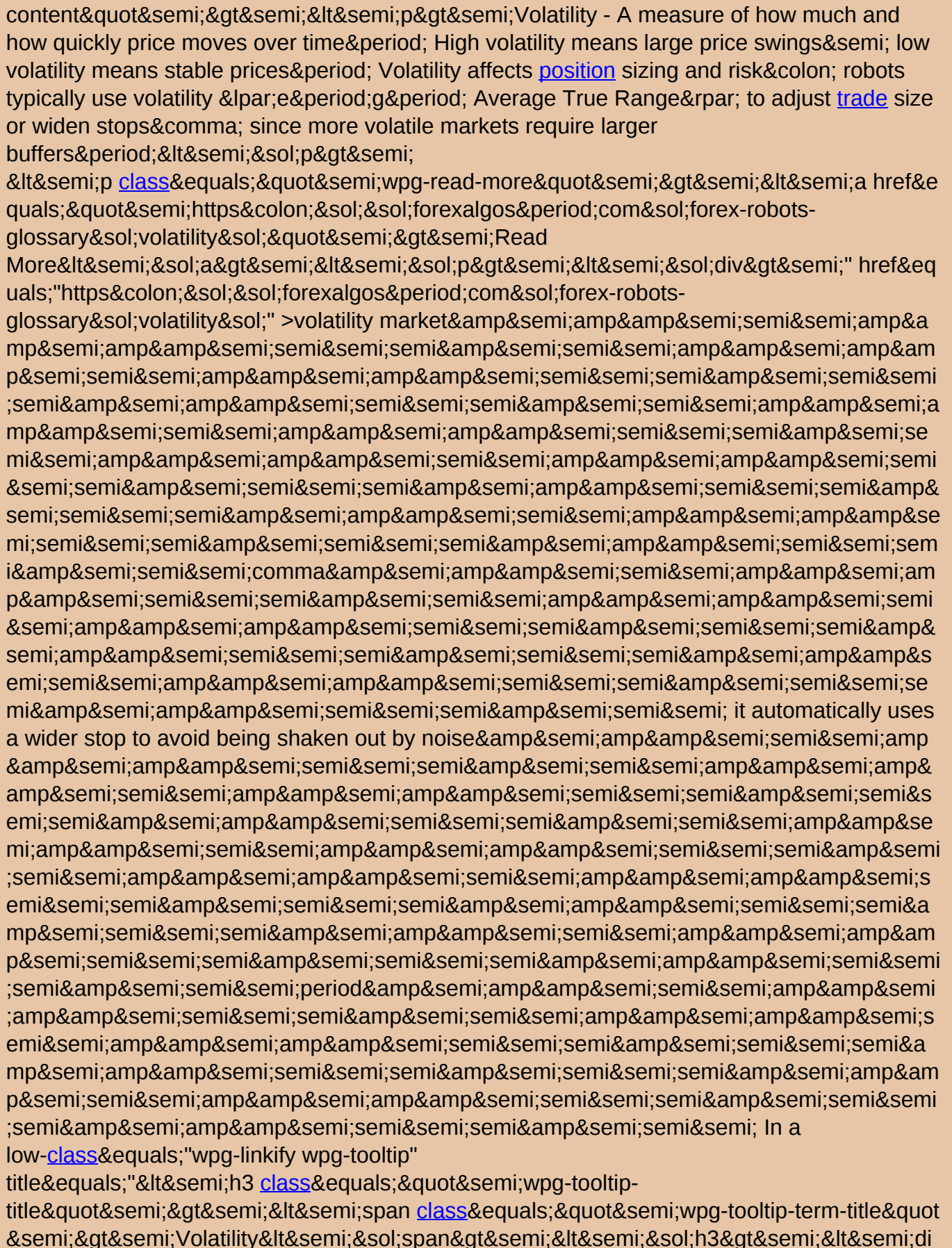
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50-[pip](#) stop-loss&;amp&;semi;amp&;amp&;se
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content";>;<;p>;Volatility - A measure of how much and
how quickly price moves over time. High volatility means large price swings; low
volatility means stable prices. Volatility affects [position](#) sizing and risk: robots
typically use volatility (e.g. Average True Range) to adjust [trade](#) size
or widen stops, since more volatile markets require larger
buffers.<;/p>;
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to protect profits&;&;semi;&;&;se
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emi;semi&;amp&;semi;semi&;semi;The [cBot](#) could be programmed with two different [class](#) equals;"wpg-linkify wpg-tooltip" title equals;"<;h3 [class](#) equals;"";wpg-tooltip-title";>;<;span [class](#) equals;"";wpg-tooltip-term-title";>;Parameter<;/span>;<;/h3>;<;div [class](#) equals;"";wpg-tooltip-content";>;<;p>;Parameter - A public property in a [cBot class](#) marked with the <;code data-start equals;"";11873";data-end equals;"";11886";>;[Parameter]<;/code>; ;attribute becomes an input that users can set in the UI before running the [cBot](#). For example, defining ;<;code data-start equals;"";12068";data-end equals;"";12134";>;[Parameter(DefaultValue equals; 1000)] public int [Volume](#) { get; set;}<;/code>; ;creates a &ldquo;[Volume](#)&rdquo; input. The docs note: ;<;em data-start equals;"";12176";data-end equals;"";12216";>;&ldquo;Marks a property as input parameter.&rdquo;<;/em>;. Supported types include numeric types, ;<;code data-start equals;"";12296";data-end equals;"";12302";>;enum<;/code>;, ;<;code data-start equals;"";12304";data-end equals;"";12316";>;DataSeries<;/code>;, ;<;code data-start equals;"";12318";data-end equals;"";12329";>;TimeFrame<;/code>;, etc. ;Parameters allow users to customize things like stop-loss, take-profit, indicator periods, etc., without editing code.<;/p>;<;em;p [class](#) equals;"";wpg-read-more";>;<;a href equals;"";https://forexalgos.com/forex-robots-glossary/parameter/"";>;Read More<;/a>;<;/p>;<;/div>;" href equals;"https://forexalgos.com/forex-robots-glossary/parameter/">parameter sets&;amp&;semi;amp&;semi;amp&;amp&a mp;semi;amp&;amp&;semi;semi&;semi;semi;semi&se

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the cBot

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and more



It might increase its trading frequency during high-probability periods and stop trading altogether during periods of extreme low volatility.

Volatility - A measure of how much and how quickly price moves over time. High volatility means large price swings; low volatility means stable prices. Volatility affects position sizing and risk; robots typically use volatility to adjust trade size or widen stops, since more volatile markets require larger buffers.

Read More: <https://forexalgos.com/forex-robots-glossary/volatility/>

Major news release

It might increase its trading frequency during high-probability periods and stop trading altogether during periods of extreme low volatility.

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semi;semi;semi; are beginning to incorporate simple machine learning
models;amp;semi;amp;amp;semi&semi
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mi; these models can analyze dozens of market variables simultaneously to classify the
current market environment with greater accuracy;amp;semi;am
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rise of the adaptive [cBot](#) changes the role of the human trader;amp;se
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mi;semi;semi;amp;semi;semi;semi;
You become the architect of the adaptation rules;amp;amp
;amp;semi;semi;semi;amp;amp

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[wpg-linkify wpg-tooltip](#) [title](#) [wpg-tooltip-term-title](#) [wpg-tooltip-content](#) [Algorithmic Trading - The use of algorithms](#) [computer programs](#) [to execute trades automatically according to pre-set rules](#) [In algorithmic trading](#) [strategies are encoded as logic in software](#) [which places orders when specified market conditions arise](#) [This removes emotional decision-making](#) [allowing high-](#)



speed execution of

strategies&&;semi;period&;semi; Forex robots often implement algorithmic trading so that they can enter and exit positions based on data-driven criteria&&;semi;period&;semi;&;semi;lt&;semi;semi;semi;&;semi;semi;&;semi;sol&;semi;p&;semi;semi;gt&;semi;semi;semi;&;semi;semi;lt&;semi;semi;p [class](#)

&;semi;equals&;semi;&;semi;p;semi;quot&;semi;semi;semi;semi;wp;semi;quot&;semi;semi;semi;semi;semi;&;semi;gt&;semi;semi;semi;semi;semi;semi;&;semi;semi;a href&;semi;equals&;semi;&;semi;semi;quot&;semi;semi;semi;semi;https&;semi;colon&;semi;&;semi;sol&;semi;&;semi;sol&;semi;forexalgos&;semi;period&;semi;com&;semi;sol&;semi;forex-robots-glossary&;semi;sol&;semi;algorithmic-trading&;semi;sol&;semi;&;semi;quot&;semi;semi;semi;semi;&;semi;gt&;semi;semi;semi;semi;Read More&;semi;lt&;semi;semi;semi;semi;&;semi;sol&;semi;a&;semi;gt&;semi;semi;semi;semi;&;semi;lt&;semi;semi;semi;semi;s;semi;sol&;semi;p&;semi;gt&;semi;semi;semi;semi;&;semi;lt&;semi;semi;semi;semi;sol&;semi;div&;semi;semi;semi;semi;quot&;semi;href&;semi;equals&;semi;&;semi;https&;semi;colon&;semi;&;semi;sol&;semi;semi;sol&;semi;forexalgos&;semi;period&;semi;com&;semi;sol&;semi;forex-robots-glossary&;semi;sol&;semi;algorithmic-trading&;semi;sol&;semi;&;semi;quot&;semi;&;semi;algorithmic trading&;semi;lt&;semi;semi;semi;semi;sol&;semi;a&;semi;gt&;semi;

[illegible]

[illegible]

[illegible]

[illegible]



&;semi;p&;gt&;semi;<;&;sol;p>;

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