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## **CDA\_FuzzyPivots LICENSE AGREEMENT**

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**CDA\_FuzzyPivots** is also referred to as by its release version/revision number appended to this name,  
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CDA Reserves the right to package this indicator with other indicators which are subject to their own licensing agreement. The package will be a standard NinjaTrader 7 compatible NinjaScript Assembly, with a package "zip" file name that may vary from release to release.

## **CDA\_FuzzyPivots INSTALLATION**

Use the standard **Import NinjaScript...** utility accessed from the NT Control Center.  
If there is already a previously installed assembly with the same DLL file name, you should *first* un-install the earlier version, using the **Remove NinjaScript Assembly...** utility accessed from the NT Control Center.

## **CDA\_FuzzyPivots FUNCTION**

Displays *Dual-Purpose Trend Lines (DPTLs)...***intersecting high and low pivots**, as **overlapping zones**. These zones illustrate historical support and resistance areas repeatedly formed by Left-Shoulder Pivots (LSPs) and Break-Out Pivots (BOPs).

## **CDA\_FuzzyPivots RUNTIME PARAMETERS**

Parameters are organized in sections and are context-enabled/disabled based on value of others.  
There is extensive tracing capability, in case there is a need to request help.

#### DPTL property grid section:

<b>DPTLVolumeRegulator</b>	Regulates display volume of overlapping DPTL zones. <i>Default: 30.</i>
<b>PivotIntersectMargin</b>	Number of ticks margin above and below a pivot for qualifying a overlap with another pivot for defining a candidate DPTL. <i>Default: 1.</i>
<b>Resistance Zone Color</b>	Color of resistance zones. <i>Default: Red</i>
<b>Support Zone Color</b>	Color of support zones. <i>Default: DodgerBlue</i>

#### Pivots property grid section:

<b>High Pivot Bar Color</b>	Color of qualified High Pivots. <i>Default: Cyan</i>
<b>Low Pivot Bar Color</b>	Color of qualified Low Pivots. <i>Default: Red</i>
<b>Pivot Strength</b>	Number of higher or lower bars for Low Pivot or High Pivot, respectively, on each side of pivot for pivot to be accepted as a <i>qualified</i> ringed pivot. <i>Default: 5</i>
<b>ShowPivots</b>	If true, will show qualified pivot bars. <i>Default: true</i>

#### Trace/Logging property grid section:

<b>Enable Trace</b>	Enables printing for trace information to a file. Should only be set to true to report problems and when requested; creates large files and can seriously impact performance. <i>Default: false</i>
<b>ShowPivotIDs</b>	If true, will displays bar number above and below qualified pivots. Used to support debugging. <i>Default: false</i>
<b>Trace File Folder</b>	Location of trace file. <i>Default: C:\Temp</i>
<b>Trace Filename Prefix</b>	Beginning part of trace file name. Indicator Name, 'Resistance' or 'Support', followed by 2-character MarketCode, and '.txt' will be appended to specified prefix. If null or fails to create, trace will be directed to Output Window. <i>Default: trace.</i>
<b>Trace Level</b>	Regulates depth of trace details. Used to support debugging; not available to end-user. <i>Default: 1</i>
<b>RunLogEnabled</b>	If true, will log user startup info into RunLogFilename. <i>Default: true</i>
<b>RunLogFileFolder</b>	Directory for run log files; should be periodically checked to ensure contents are not growing larger than desired or space available. <i>Default: C:\Temp\log</i>
<b>RunLogFilename</b>	Name of file in RunLogFileFolder to record run log info; will automatically be created if it doesn't exist. <i>Default: runLogInfo.txt</i>

**User Authentication** property grid section:

<b>EmailAddress</b>	Purchasing email address used for authentication check. Also, facilitates communications of update notices and technical advisories. <i>Default: [ENTER YOUR EMAIL ADDRESS HERE]</i>
<b>License Issuer</b>	Licensor: Issurer of the license: CDA->CriticalDataAssociates <i>Default: CDA</i>
<b>Version</b>	Version of the indicator– READ ONLY

### **CDA\_FuzzyPivots GUIDELINES**

If you don't see any zones where you expect to see some, it is likely due to not having enough data. Remember, you need intersecting high and low pivots, separated within the number of ticks indicated by the **PivotIntersectMargin** value.

Priority ranking, regulated by the **DPTLVolumeRegulator** setting, will favor the area where there are a greater *number* of intersecting pivots.

If you find you have an over-abundance of brighter areas (indicating areas of frequent price consolidation), try increasing the **Pivot Strength** value; this will select stronger pivots on which to qualify the candidate DPTLs.

Note that a *fuzzy* zone indicates an area of price consolidation with the brightness of the zone highlighting the greater frequency of intersecting pivots. A darker zone suggests SR levels of higher degree with less frequent overlaps and typically based on stronger pivots; this should be interpreted as relative strength.