



**S-Trader**





## TRIX | Tripple Exponential Average

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## Description

TRIX is a momentum oscillator that displays the percent rate of change of a triple exponentially smoothed moving average. It was developed in the early 1980's by Jack Hutson, an editor for the Technical Analysis of Stocks and Commodities Magazine. With its triple smoothing, TRIX is designed to filter insignificant price movements.

## Formula

Step 1: Calculate a Tripple Smoothed Exponential Moving average of the source for the requested n periods, i.e.

$EMA(EMA(EMA(Source,n),n),n)$

Step 2: Calculate the 1 period rate of change of the value obtained at Step 1:

$$TRIX = 100 * (Value\ Current\ Period - Value\ Previous\ Period) / (Value\ Previous\ Period)$$

## Parameters

<b>Source</b>	Any price source (O, H, L, C, Vol, OI) or any other built-in or custom study
<b>Periods</b>	Any number of periods

## Output value(s)

There is one output value resulting from the formula, the Tripple Exponential Average.

## Plot

The plot is in a separate panel at the bottom.

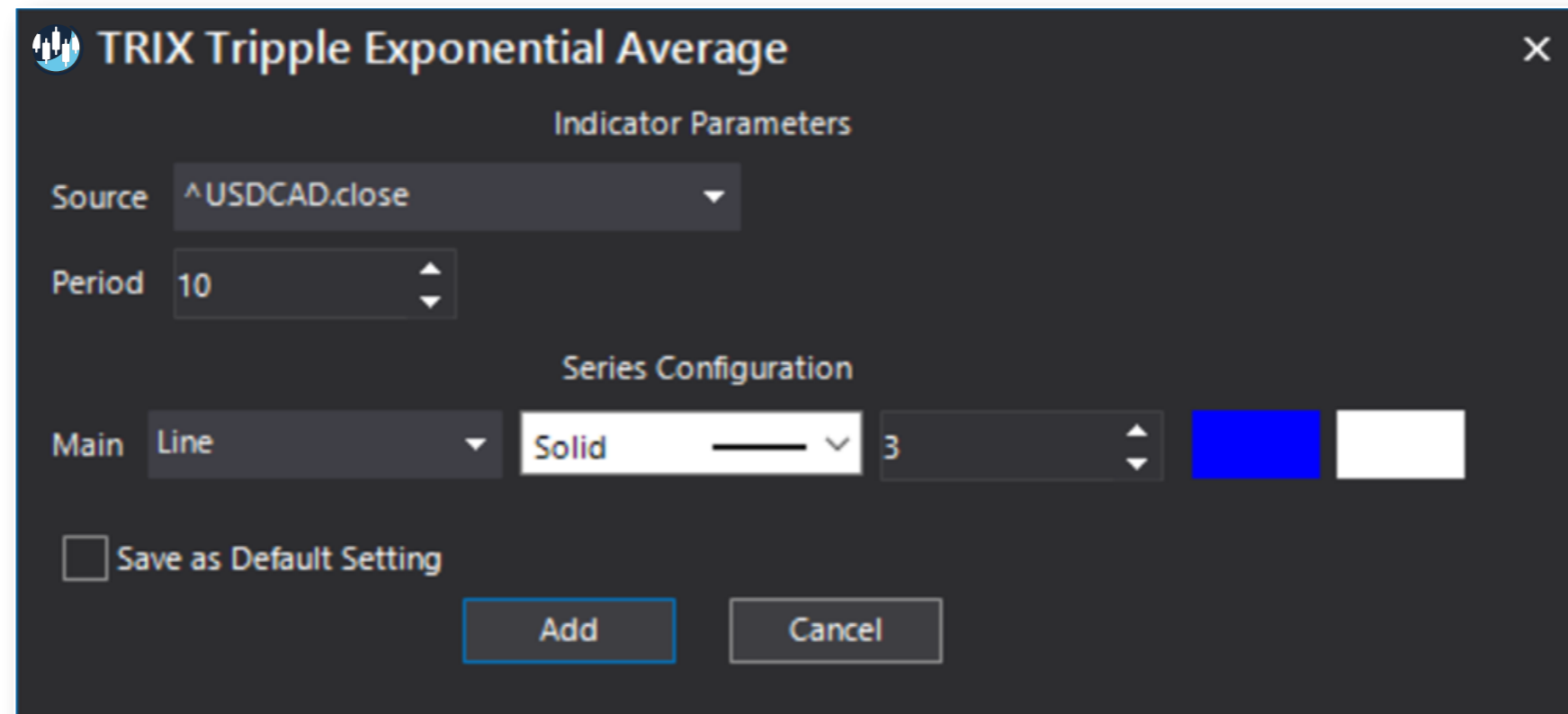


## Quant Script™ Syntax

<b>Short Form</b>	<i>TRIX</i> (Source, Periods)
<b>Long Form</b>	<i>TRIXIndicator</i> (Source, Periods)

## Dialogs

### Chart Study Dialog





## Sample Chart With Study





## Quant Script™ Wizard Study Dialog

The image shows two overlapping dialog boxes in the S-Trader desktop platform. The 'Custom Study Wizard' dialog is on the left, and the 'Add Variable' dialog is on the right.

**Custom Study Wizard**

- Save To Group: Default
- Custom Study Name: [Empty text box]
- Password: [Empty text box]
- Result: Line, Solid, 2, [Color swatches]
- Reverse\_Result: Line, Solid, 2, [Color swatches]
- Buttons: Add To New Panel (checked), Add New Variable, Edit Selected Variable
- Table:

Name	Description
------	-------------
- Buttons: OK, Cancel

**Add Variable**

- Name: [Empty text box]
- Description: [Empty text box]
- Source: CLOSE
- Period: 10
- Variable List:
  - RWID
  - RWIU
  - SchaffTrendCycleMACD
  - SchaffTrendCycleMACDS
  - SI
  - Slope
  - STCMACD
  - STCMACDS
  - SwingIndex
  - TimeSeriesForecast
  - TRIX
  - TRIXIndicator
  - TRSUM
  - TrueRangeSummation
  - TSF
  - VerticalHorizontalFilter
  - VHF
  - Volatility
- Code Editor: TRIXIndicator(CLOSE, 10)
- Buttons: Create Script Line, OK, Cancel



## Quant Script™ Study Dialog

**Custom Study Editor** [Close]

Save To Group: 5\_TREND INDICATORS [Dropdown] A 16.25 [Dropdown]

Custom Study Name:

Password:

Result: Line [Dropdown] Solid [Dropdown] 2 [Spinner]

Reverse\_Result: Line [Dropdown] Solid [Dropdown] 2 [Spinner]

Formula Add To New Panel

```
SET RESULT = TRIX(CLOSE, 8)
SET REVERSE_RESULT = TRIXIndicator(CLOSE, 8)
```