

# EasyLanguage Forum

## Session I

July 12-August 2, 2022  
Tuesdays at 10amPT/1pmET

Sunny J. Harris & Samuel K. Tennis  
July 12, 2022 10:00am PT / 1:00pm ET

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HYPOTHETICAL PERFORMANCE RESULTS HAVE MANY INHERENT LIMITATIONS, SOME OF WHICH ARE DESCRIBED BELOW. NO REPRESENTATION IS BEING MADE THAT ANY ACCOUNT WILL OR IS LIKELY TO ACHIEVE PROFITS OR LOSSES SIMILAR TO THOSE SHOWN. IN FACT, **THERE ARE FREQUENTLY SHARP DIFFERENCES BETWEEN HYPOTHETICAL PERFORMANCE RESULTS AND THE ACTUAL RESULTS ACHIEVED BY ANY PARTICULAR TRADING PROGRAM.**

ONE OF THE LIMITATIONS OF HYPOTHETICAL PERFORMANCE RESULTS IS THAT THEY ARE GENERALLY PREPARED WITH THE BENEFIT OF HINDSIGHT. IN ADDITION, **HYPOTHETICAL TRADING DOES NOT INVOLVE FINANCIAL RISK, AND NO HYPOTHETICAL TRADING RECORD CAN COMPLETELY ACCOUNT FOR THE IMPACT OF FINANCIAL RISK IN ACTUAL TRADING.** FOR EXAMPLE, THE ABILITY TO WITHSTAND LOSSES OR TO ADHERE TO A PARTICULAR TRADING PROGRAM IN SPITE OF TRADING LOSSES ARE MATERIAL POINTS WHICH CAN ALSO ADVERSELY AFFECT ACTUAL TRADING RESULTS. THERE ARE NUMEROUS OTHER FACTORS RELATED TO THE MARKETS IN GENERAL OR TO THE IMPLEMENTATION OF ANY SPECIFIC TRADING PROGRAM WHICH CANNOT BE FULLY ACCOUNTED FOR IN THE PREPARATION OF HYPOTHETICAL PERFORMANCE RESULTS AND **ALL OF WHICH CAN ADVERSELY AFFECT ACTUAL TRADING RESULTS.**

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## Sunny is a Trader/Programmer

- And has been for 41 years
- I trade both Futures, Stocks & Crypto
- I am fluent in EasyLanguage, having used TradeStation continuously since 1987
- I am the author of "TradeStation Made Easy!" & 5 other books as well as many articles
- And am almost done authoring "[EasyLanguage OOEL Made Easy!](#)" with Samuel K. Tennis

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## Sam is an EZL Programmer

- Teacher and Consultant
- And is the author of “Ask Mr. EasyLanguage”
- He is the originator/designer of EasyLanguage
- And lead programmer for Omega Research
- His website is [www.vista-research.com](http://www.vista-research.com)

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- My website [www.moneymentor.com](http://www.moneymentor.com)
- Has been active since 1995
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Education is NOT Expensive;  
Lack of Education IS!

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Sunny has been programming for others and teaching others to trade almost as long as she has been trading. Helping struggling novice & intermediate traders over the hurdles is a passion of hers. Sunny has won awards for her teaching and consulting, being #1 in several categories. Sunny can teach you how to use [TradeStation](#), [MultiCharts](#) and [EasyLanguage](#) as well as [MetaStock](#), [TC2000](#), [VantagePoint](#), and more so you don't spend months struggling on your own. If you have a concept you want programmed, she can do it for you or teach you how to do it yourself. [BUY NOW](#).

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# Vista-Research.com

- Sam's website [www.vista-research.com](http://www.vista-research.com)
- Email: [sktennis@vista-research.com](mailto:sktennis@vista-research.com)
- Please drop by

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# Vista-Research.com

The screenshot shows the Vista-Research.com website. At the top, it says "SKT Vista-Research" and "EasyLanguage Spoken Here". The navigation menu includes Home, Products, Services, Seminars, and Education. The main content area features a headline: "We don't have problems, we have solutions". Below this, there are several news items, including a recent letter from a valued client and a testimonial from Samuel K. Tennis. A "Help is now available!!!" section is also present. On the right side, there is a sign-up form for "Ask Mr. EasyLanguage" with fields for First Name, Last Name, and Email Address, and a "Sign me up!" button.

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- The products I have were all developed for my use in my own trading
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- SunnyBands            ~~\$2,495~~     \$1,996
- DMA\_Histogram     ~~\$ 995~~     \$ 796
- PHW dots             ~~\$ 695~~     \$ 556
- **TOTAL for all 3**     ~~\$4,185~~     **\$3,348**
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- **Offer Good Until 8/10/22** (not combined with any other offers)

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## Sam’s Products

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- Scroll the Chart Docked \$159
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- or Data Report/SPGC Bundle \$499
- **Offer Good Thru 8/10/22: 20% off**

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## This Session We Will Cover

- Intro to EasyLanguage (EZL)
- Reserved Words
- Skip Words
- Key Words
- Verifying Your Code
- Functions
- Quick Start
- Detailed Steps
- CPC Index
- PHW Analysis

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## This Session We Will Cover

- Basic Math
- Terminating EZL Statements
- Comments
- Bars Ago
- More Math Rules
- Order Dependence
- Built-In Functions
- Free Variables & Conditions
- Linear vs Semi-Log Scaling
- Averages

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## This Session We Will Cover

- MaxBarsBack
- Using Price Fields
- Programming Conventions
- Declaration Statements
- Declaration Type Casting
- Boolean Logic
- If ... Then
- If ... Then ... Else
- Block Statements

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## Intro to EZL (EasyLanguage)

- Developed by Omega Research in 1987
  - System Writer
  - System Writer Plus (Product of the year 8 years running)
  - TradeStation (moderately acceptable replacement)
- Plain English-like
- Simplicity instead of obscure computer terminology
- Uses many of the terms traders use to describe and test Trading Strategies
- Just WHAT makes up a language? Vernacular. 'You HAVE to speak the language'.

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## Samuel K. Tennis

- “I developed it after hearing hundreds (thousands) of orders being called in by clients”

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## Reserved Words

Symbol	Meaning
#	Character used to denote compiler directives
(	Open parenthesis, used in formulas
)	Close parenthesis, used in formulas
*	Multiplication sign
+	Addition sign
-	Subtraction sign
/	Division sign
//	Comment
<	Less Than sign
>	Greater Than sign
<>	Not Equal sign
{ }	Comment of 1 or more lines
	Bars Ago
;	Statement Terminator

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## More Reserved Words

Statement	Action
<b>plot1-99</b>	Plots a line, marker, or text on a chart or grid
<b>if-then</b>	Executes one or more statements when an if condition is true
<b>else</b>	Executes one or more statements following else when the preceding condition is not true
<b>begin</b>	Specifies the beginning of a block of statements to be conditional executed
<b>end</b>	Specifies the end of a block of statements
<b>for</b>	Executes one or more statements within a loop using a counter variable
<b>while</b>	Executes one or more statements within a loop while a condition is true
<b>variable</b>	Declares one or more user defined variables to an initial value
<b>input</b>	Declares one or more input values of a specified type and with a default value
<b>array</b>	Declares one or more array variables to contain a specified number of cells with a default value
<b>print</b>	Sends output to the print log
<b>commentary</b>	Sends output to a commentary window
<b>once</b>	Specifies that the EZL statement or begin-end block that follows will only be executed once

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## Reserved Words

- Words like:
  - Buy, Sell, BuyToCover and SellShort
  - are also reserved words
  - As are Limit and Stop
- We'll will get into that in a bit
- There are many more
- In fact, there are hundreds of pages in  
 “[EasyLanguage OOEL Made Easy!](#)”

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## Skip Words

There are also Skip Words that EZL ignores. These are:

A	An
At	By
Does	Is
Of	On
Than	The
Was	

These skip words are for your use in making your code **easier to read**. For instance, these two sentences are the same, but the second one (**verbose**) is easier to read.

- `if Close > High[1] then Buy next bar at market;`
- `if the Close is > than the High of 1 bar ago then Buy on the next bar at the market;`

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## Key Word Examples

- AsType
- Catch
- Finally
- In
- IsType
- Method
- New
- Once
- Out
- Override
- Throw
- Try
- Using

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## Terminate Your Sentence

- Each full statement must be terminated
- Termination character **;**

```
Vars : myVar( 0 ) ;
Vars : myCond( false ) ;
```

```
If myCond = true then
  Begin
    myCond = false ;
  End ; // myCond
```

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## Verifying Your Code

- When you Verify <F3> EZL checks your code for validity
  - Not Fitness For Purpose
  - Not whether it makes money (you'll do this by reading the Performance Report)
- Locates programming errors. Not logic errors.
- I Verify every few lines of code

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## Functions

- TS Comes with a large Library of Built-In functions
  - Trig functions
  - Averages
  - BarNumber
  - BlackScholes etc
  - See [TSME](#) Appendix G1 for full list
- Can be extended by creating your own User Functions

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## Quick Start

- You thought your trading problems were over
- Your first Indicator
- Your first Strategy
- Your first User Function
- View Performance Report

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## Pseudo Steps

1. Open TradeStation (TS)
2. Open Chart w Data
3. Open TDE (TradeStation Development Environment)
4. Write Indicator
5. Put Indicator on Chart
6. Write Strategy
7. Apply Strategy to Chart
8. View Strategy Performance
9. If CPC<sup>®</sup> Index > 1.2 prepare to trade (SIM), else loop back to Step 6 and continue homework

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## Detailed Steps

1. Open TradeStation
2. Open a Chart with Data  
**CTRL\_ALT\_W** or **New Workspace** → **CTRL\_ALT\_C**  
**or File** → **Chart Analysis**
3. Data Window (as opposed to the data tips)
  - two formats
  - save to file



\* Members can Access our Previous **Strategy Trading Forum** slides

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## Detailed Steps

4. Crank Up the EasyLanguage Editor
  - TradeStation Development Environment (TDE) or 'PowerEditor'
5. Write an Indicator
6. Putting the Indicator on a Chart
  - TS 9.5 'Insert'; pick from list but they are all available from pull down
  - TS 10.0 'Studies', 'Add Study'

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## Detailed Steps

7. Write a Strategy
8. Apply the Strategy to a Chart
  - TS 9.5 'Insert → Strategy'
  - TS 10.0 'Studies → Add Strategy'
8. View Strategy Results
9. Interpreting the Strategy Performance Report
  - Collapsed vs Expanded Views
  - CPC<sup>®</sup> Index

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# Optimization

## 10. Optimization Report

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# CPC<sup>©</sup> Index

- Cardinal Profitability Constructs
- Profit Factor \* Percent Profitable \* Ratio
- Must be > 1.2 for me to Trade It
  - Profit Factor = 3.38
  - Percent P = 75% (0.75)
  - Ratio = 1.13

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TradeStation Strategy Performance Report - @ES Daily (7/6/2020-7/5/2022)

Account (USD) | All Data

Display: Column View

### TradeStation Performance Summary

	All Trades	Long Trades	Short Trades
Total Net Profit	\$43,412.50	\$28,187.50	\$15,225.00
Gross Profit	\$61,625.00	\$46,400.00	\$15,225.00
Gross Loss	(\$18,212.50)	(\$18,212.50)	\$0.00
Profit Factor	3.38	2.55	n/a
Roll Over Credit	\$0.00	\$0.00	\$0.00
Open Position P/L	\$0.00	\$0.00	\$0.00
Select Total Net Profit	\$43,412.50	\$28,187.50	\$15,225.00
Select Gross Profit	\$61,625.00	\$46,400.00	\$15,225.00
Select Gross Loss	(\$18,212.50)	(\$18,212.50)	\$0.00
Select Profit Factor	3.38	2.55	n/a
Adjusted Total Net Profit	\$5,376.02	(\$17,500.44)	\$7,612.50
Adjusted Gross Profit	\$36,466.70	\$13,590.25	\$7,612.50
Adjusted Gross Loss	(\$31,090.68)	(\$31,090.68)	\$0.00
Adjusted Profit Factor	1.17	0.44	n/a
Total Number of Trades	8	4	4
Percent Profitable	75.00%	50.00%	100.00%
Winning Trades	6	2	4
Losing Trades	2	2	0
Even Trades	0	0	0
Avg. Trade Net Profit	\$5,426.56	\$7,046.88	\$3,806.25
Avg. Winning Trade	\$10,270.83	\$23,200.00	\$3,806.25
Avg. Losing Trade	(\$9,106.25)	(\$9,106.25)	\$0.00
Ratio Avg. Win:Avg. Loss	1.13	2.55	n/a
Largest Winning Trade	\$43,525.00	\$43,525.00	\$6,712.50
Largest Losing Trade	(\$15,562.50)	(\$15,562.50)	\$0.00
Largest Winner as % of Gross Profit	70.63%	93.80%	44.09%
Largest Loser as % of Gross Loss	85.45%	85.45%	n/a
Net Profit as % of Largest Loss	278.96%	181.12%	n/a
Select Net Profit as % of Largest Loss	278.96%	181.12%	n/a
Adjusted Net Profit as % of Largest Loss	34.54%	-112.45%	n/a

Performance Summary | Trade Analysis | Trades List | Periodical Returns | Performance Graphs | Trade Graphs | Settings

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## Calculations

- $3.38 * 0.75 * 1.13 = 2.86455$
- $> 1.2!$
- Average Trade \$5,426.56
- 8 trades in 2 years
- Long & Short

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## PHW<sup>©</sup> Analysis

- Potential Hourly Wage
- Working vs Trading
- You need to make more trading Per Hour than working at McDonalds

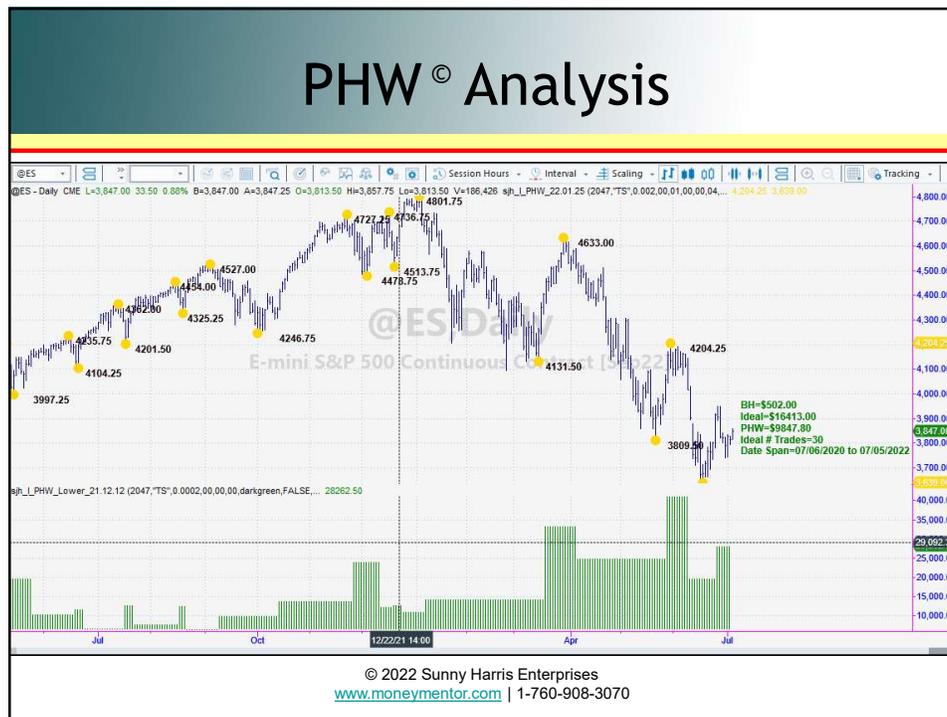
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## PHW<sup>©</sup> Analysis



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## Basic Math

- Zero Factor
  1. For every real number  $a$ ,  $a \cdot 0 = 0$
  2. If  $a \cdot b = 0$ , then either  $a=0$  or  $b=0$
- Laws for Negatives
  1.  $-(a) = -a$
  2.  $(-a) \cdot (-b) = ab$
  3.  $-ab = (-a)b = a(-b) = -(-a)(-b)$
  4.  $(-1)a = -a$

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## Basic Math

- Addition
  1.  $a+b = b+a$
  2.  $a-a = 0$
  3.  $(a+b)+c = a+(b+c)$
- Subtraction
  1.  $a-b = a+(-b)$

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## Comments

- For your own edification
- And ease of reading
- Essential for understanding your code later
- Essential for others who read your code

```
// this is a single line comment
{
  this is a block, or multiline comment
  here is the second line
}
```

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## Bars Ago

- `[n]` means n bars ago
- For instance:  

```
Sum = C + C[1] + C[2] + C[3] ;
// sum of past 4 closes
// C (Close) is also past as it has
// already closed
```

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## Math Examples

```
Target = (Close + High + Low) / 3 ;
Mom = C[0] - C[09] ;
TrueRange = TrueHigh - TrueLow ;
```

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## More Math Rules

- Decimals & Fractions

1.  $-a/b = a/-b$
2.  $-a/-b = a/b$
3.  $a/b = c/d$  if and only if  $ad = bc$
4.  $a/b = ka/kb$  for any nonzero real number

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## More Math Rules

- Absolute Value

`AbsValue(-27.82)` returns a value of 27.82

`AbsValue(134.9)` returns a value of 134.9

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## More Math Rules

- Exponentiation
  1. In Math  $a^{**2}$  means “a squared”
  2. In EZL we use `Power(a, 2)`
  3. It’s the same as  $a*a$
  4. In Math  $a^{**3}$  means “a cubed”
  5. In EZL we use `Power(a, 3)`
  6. It’s the same as  $a*a*a$

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## Order Dependence

- Use Parentheses Liberally
- Say What You Mean
- Order of Precedence
  - Parentheses `()`
  - Exponentiation `**`
  - Multiplication and Division `*` `/`
  - Addition and Subtraction `-` `+`
  - Relational Operators `=` `>` `>=` `<` `<=` `<>`
  - And
  - Or

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## Examples

- $X = 3 + 4 * 5$  is ambiguous
- Do you mean  $(3 + 4) * 5$
- Or  $3 + (4 * 5)$  ?
- The first is  $7 * 5 = 35$
- The second is  $3 + 20 = 23$

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## EZL Math Functions

- **Squaring a number**
  - Value1 = Square (Num) ;
- **Power(num, pwr)**
  - Cubed = Power (Close, 3) ;
  - Fourth = Power (Close, 4) ;
- **Square Root of a number**
  - Value1 = SquareRoot (Num) ;
- **Logarithms**
  - Log (4.5) returns a value of 1.5041
  - Log (172) returns a value of 5.1475

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## End Here

- Being beyond our allotted time we stopped here
- And will resume next time
- By consensus of opinion, we will probably go over 4 sessions

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## Cost of the Most Popular

- |                          |                    |                |
|--------------------------|--------------------|----------------|
| • SunnyBands             | <del>\$2,495</del> | \$1,996        |
| • DMA_Histogram          | <del>\$ 995</del>  | \$ 796         |
| • PHW dots               | <del>\$ 695</del>  | \$ 556         |
| • <b>TOTAL for all 3</b> | <b>\$4,185</b>     | <b>\$3,348</b> |
- 20% off
  - “But Wait”, if you **buy all 3: \$2,678**
  - That’s another 20% off! **\$1,507 savings!**
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## Sam's Products

- Scroll the Chart \$79.50
- Scroll the Chart Docked \$159
- Real-Time Profit/Loss Viewer \$495
- Data Report Pro \$279
- SPGC Report Pro \$279
- or Data Report/SPGC Bundle \$499
- **Offer Good Thru 8/10/22: 20% off**

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# Thank You!

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