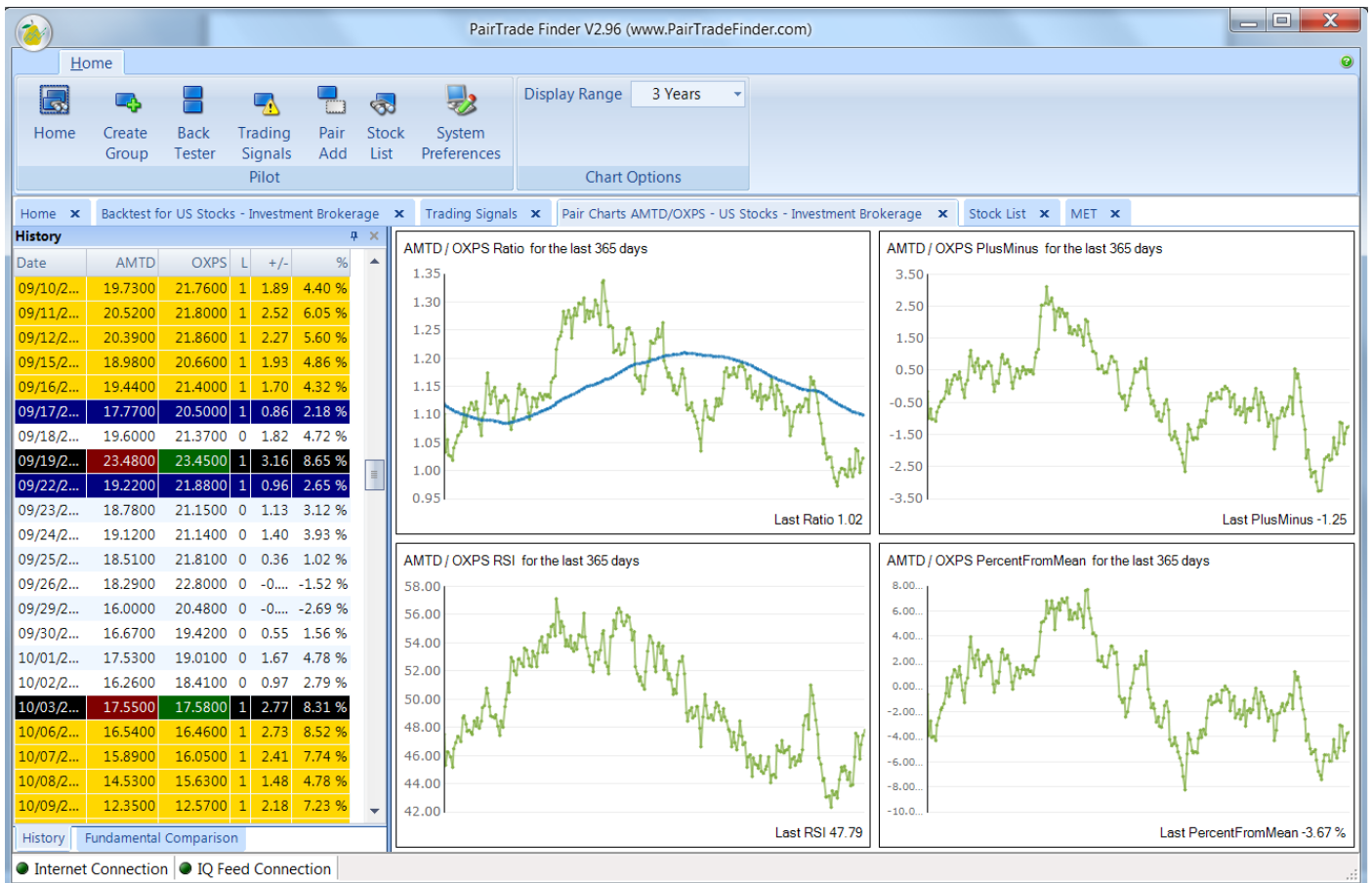


# Pairtrade Finder (PTF)

## Version 3.01 User Manual



Finder  
**Pairtrade**  
Professional Stock Trading Software

[www.PairTradeFinder.com](http://www.PairTradeFinder.com)

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# 1.1 Overview of Pairtrade Finder(PTF)

Welcome to the Pairtrade Finder user manual. This manual is designed to help you understand the concepts within our software and how to get the most out of it. We highly recommend you take the time to read this manual as it could dramatically change your trading, so grab a cup of coffee and enjoy learning our highly popular trading software.

At first glance PTF may seem complex or confusing, however after reading this user manual and playing around with the software for an hour or two you will begin to realise its simplicity and powerfulness in creating your own pair trading system. There is no other software available that comes close to performing what PTF does. Pairtrade Finder has been developed by professional traders in tandem with qualified programmers and has been continually developed over the past several years and is constantly updated. We encourage user feedback to develop our software.

Pairtrade Finder is a stand-alone software program that runs on Windows XP, Windows Vista or Windows 7. In section 1.2 we give you detailed instructions on how to install Pairtrade Finder on your computer free for 30 days; this is a simple process that should only take you 15 minutes to achieve.

PTF is a highly customizable tool you can use to generate trading signals on over 1,000,000 tradeable instruments from around the world including stocks, options, futures, commodities and forex, it is a true global platform to find unique trading opportunities at a click.

You can create your own groups categorized by industry, sector, country or whatever else you can think of, and then you can test all instruments within those groups for historical performance of our trading signals. You can customize how the trading signals are generated, and then save the pairs with the best historical performance to your home screen where you can watch over all pairs at once and receive real time trading signals for.

After designing your trading system, you can use the triggers window to easily see new entry and exit signals on your saved pairs. These signals come in during market hours or any other time which you can specify. These trading signals can be sent to your email inbox so you don't need to be in front of the computer all day, you can receive and trade these signals from your phone with the help of one of many free broker applications.

You can perform additional analysis on the built in trading signals, using ratio, correlation, RSI, volatility, standard deviation and our own custom % *from the mean* charts. With quick links to news items, ability to chart 2 instruments, easily compare fundamentals gives you an extra added layer of analysis to improve your trading performance.

PTF is designed to be very user friendly and perform various calculations very quickly, all backed up and supported by a team of professional programmers and traders that regularly update the software to stay current with market conditions and changes.

Please turn to section 1.2 for instructions on how to download a free 30 day trial of PTF. If you wish to continue using our software after 30 days, you will need to [purchase a lifetime license](#).

## 1.2 The Pair Trading Strategy

Pairtrade Finder is built around the pair trading strategy. Pair trading involves buying one instrument and at the same time shorting another instrument. This leaves you market neutral, you're not betting on the underlying direction of the market, you're betting on the relationship between 2 correlated instruments.

Pair trading or statistical arbitrage as it's more commonly known in the investing world, is the most popular trading strategy amongst hedge funds, as they recognise the reduced risk and ability to produce returns in any market environment that the pair trading strategy delivers.

Pair trading has been around since the invention of markets, Jesse Livermore, probably one of the most famous traders of all time, used pair trading back in the late 1800s, he would find a strong stock then short what he called the "sister stock". Pair trading really took off with large investment banks and hedge funds in the 1980s with the help of computers.

Today, pair trading is still a new concept amongst most online traders; however that is quickly changing; more and more online traders are beginning to see the benefits of the pair trading strategy. The go-go days of 1999 where you could wake up and buy yahoo, go out for breakfast and come back and have made 3k are gone, markets are a lot more sophisticated now, and so too must be your trading strategy.

With pair trading, it doesn't matter which direction markets go in, up, down or sideways you can still profit. Your risk is greatly reduced as you are not subject to large directional price shocks the market can often experience. Using pair trading, you can safely use leverage to magnify your position size, something that is not safe when betting on a one way direction.

Pairtrade Finder allows you to design, test and implement your very own customized pair trading system. You can import over 1,000,000 different tradeable instruments from around the world and look for the best pair combinations, and then be notified of entry and exit signals for those pairs. You can further analyse the trading signals with the help of our own custom charts, formula's and fundamental analysis. No other tool available allows you to do all this so easily.

We urge you to take some time out of your day and go through this user manual with Pairtrade Finder open, the 60 minutes you invest in learning our proprietary software is sure to pay handsome dividends and could dramatically change your trading and your income.

You may find it easier to print this user manual and have it in your hand whilst learning our software. The user manual is designed to flow from one section to another, giving you an overview of the software and teaching you how to extract the most value from it.

## 1.3 Installing Pairtrade Finder

Everyone is welcome to download a free 30 day trial of PTF. This free trial has no feature limitations and you will receive the same support provided to our already large user base. We welcome you to test out our support response by sending an email to [support@pairtradefinder.com](mailto:support@pairtradefinder.com) we answer 99% of all emails within 24 hours. If at any time you have trouble installing PTF please email us and we will guide you through the process or we can even remotely connect to your computer and install the software for you, right in front of your eyes. We provide this service free of charge.

If you have already successfully downloaded PTF, please skip this section.

Pairtrade Finder is a windows based program and if you have purchased your computer within the last 10 years, you will have the hardware and software pre-requirements for installing our software, it does not require the latest specifications to run.

**Installing PTF is a 2 step process.** The **first step of getting PTF up and running is to Install Microsoft SQL**, this is a database program and is where all of the historical and ongoing data is stored. PTF automatically updates data into SQL, once you have setup SQL, you don't need to anything further in regards to updating and storing data.

If you are running Windows XP, you will need to install [Microsoft .NET](#) and [Microsoft SQL 2005](#).

If you are running Windows Vista, or Windows 7 you only need to install [Microsoft SQL 2008](#).

We recommend [using this guide](#) in assisting you to install Microsoft SQL 2008.

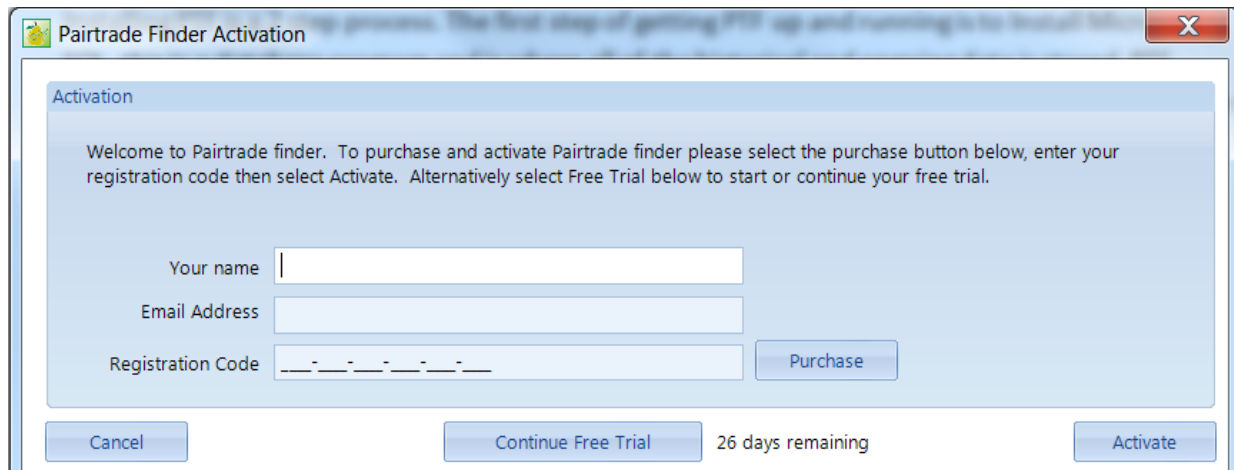
Once you have successfully installed SQL, the **last remaining step is to install the PTF software**.

Please download the Pairtrade Finder software [from here](#).

The Pairtrade Finder installation is very quick and straight forward, and upon completion you should see the PTF icon on your desktop. Please read on to section 1.3 for instructions on starting PTF for the first time.

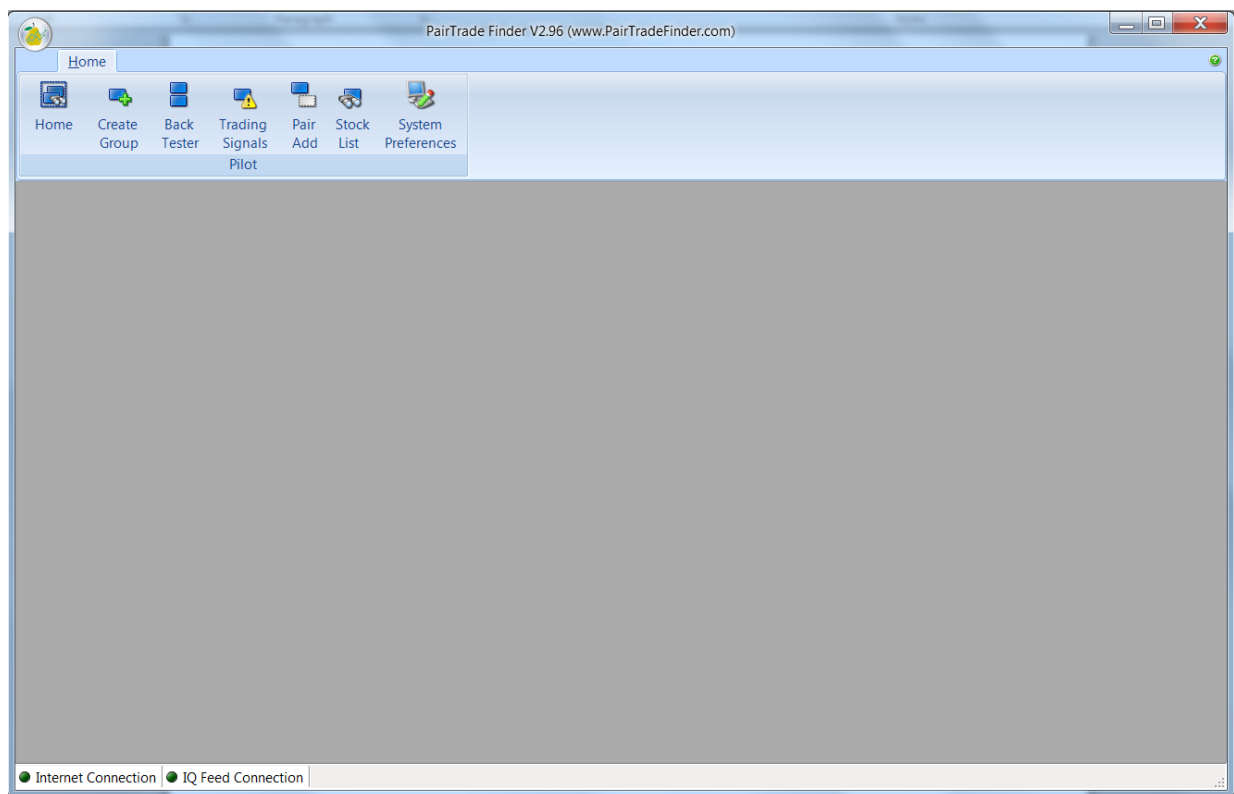
## 1.3 Starting Pairtrade Finder

Open Pairtrade Finder from your desktop. You will see the below screen once open.



Please type in your correct name and email address, and then click on free trial.

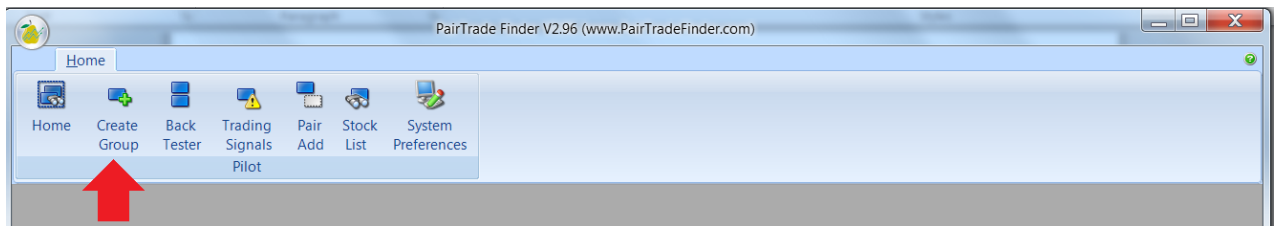
Next you will see the below screen.



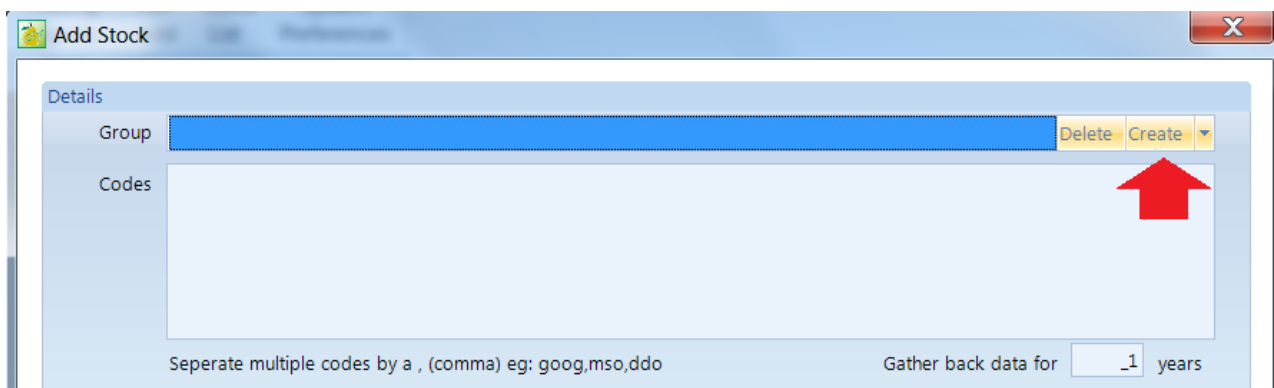
Please read onto section 2.1 for instructions on how to input your first group of stocks into the program to find good pairs.

## 2.1 Creating your first group

In this example we will create a group of stocks in the US investment brokerage industry. Please click on the **create group** button.

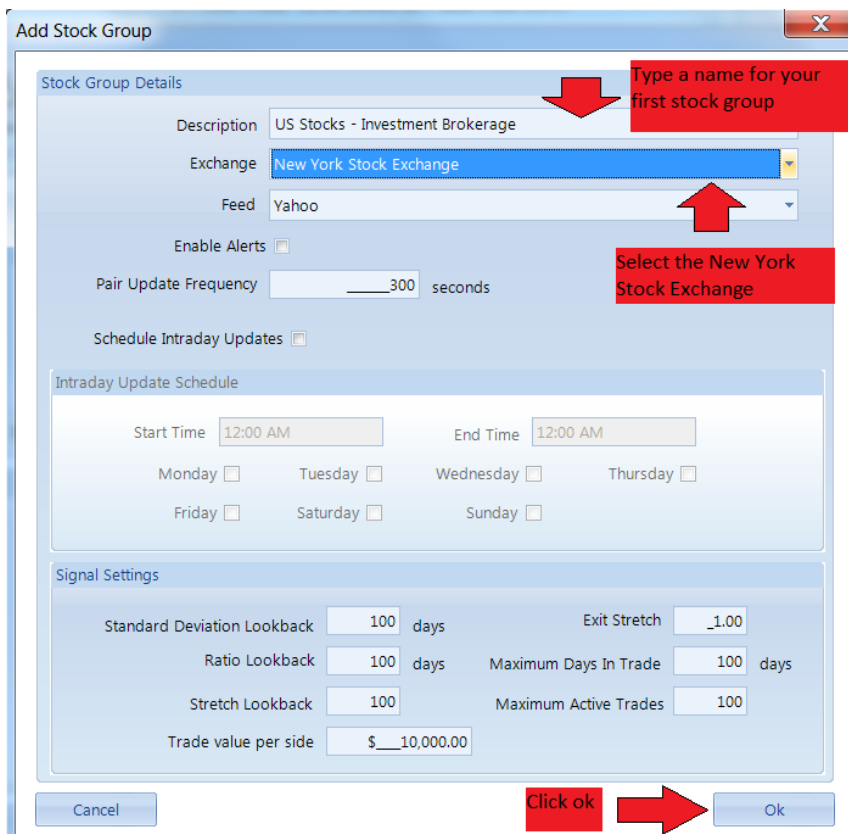


Then click on **create**.

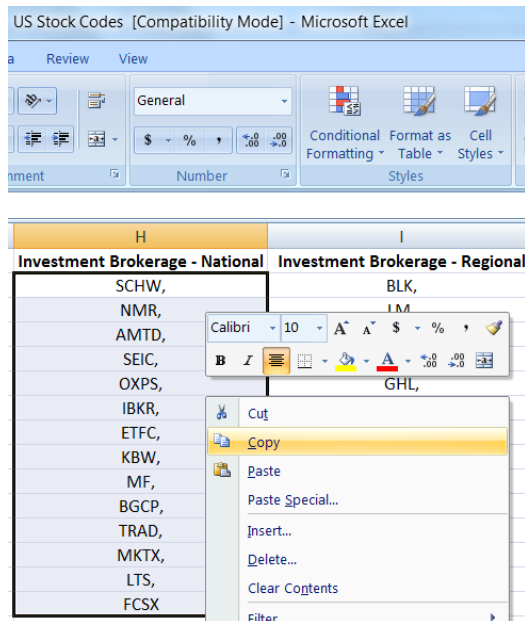


**Type a name** for your stock group. Then **choose the New York Stock Exchange**. Click **ok**.

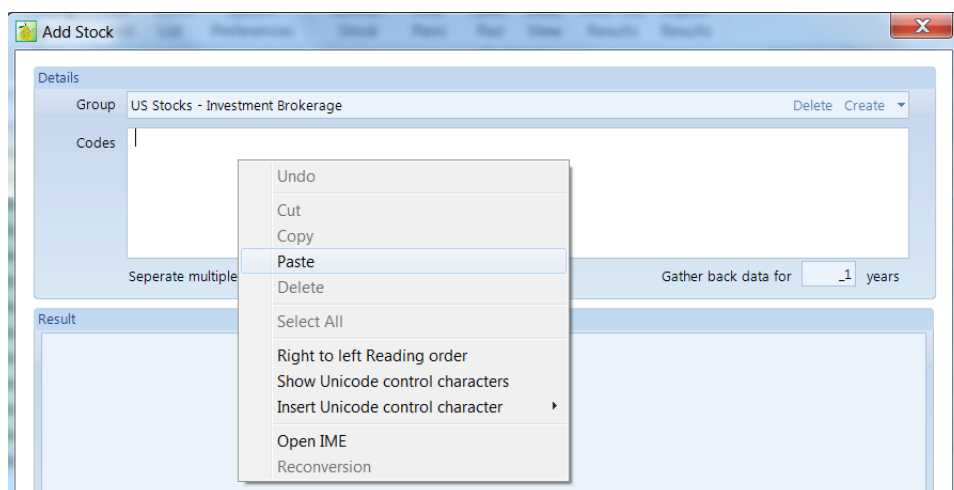
We will explain the other settings in this window further into this manual.



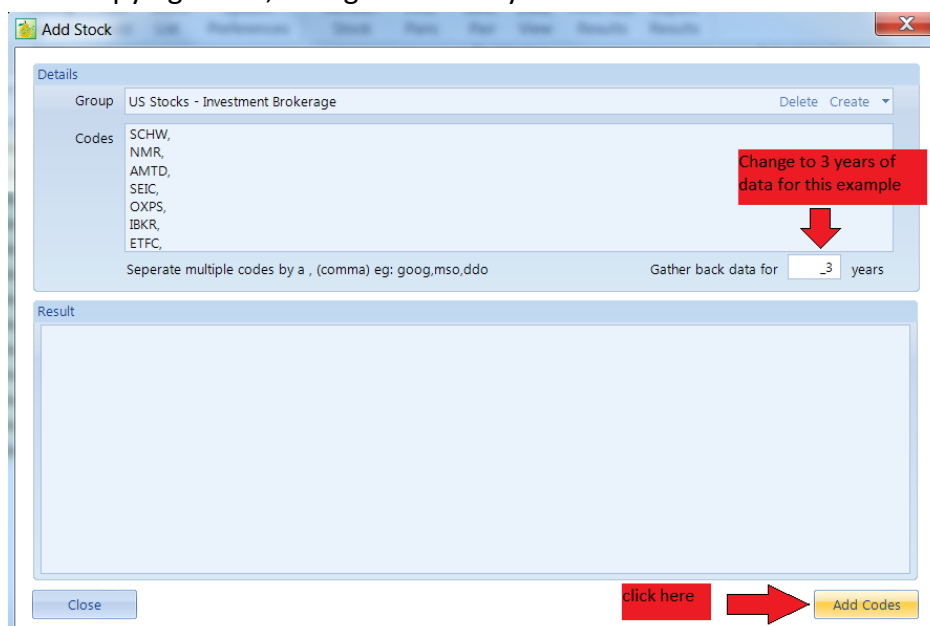
Using the [US stock code spreadsheet](#), click on the **financials tab**, scroll across to the **investment brokerage column**, select the **top 10 stocks** in there, and click on **copy**.



In the **create group box** in **PTF**, in the **codes window**, right click on your mouse then click **paste**.



After copying codes, change data to 3 years then **click on add codes**. Once finished, click **close**.





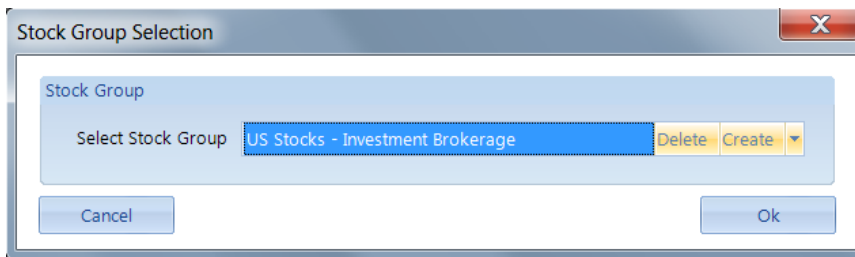
## 2.2 Finding good pairs with Back Testing

Now that you have created your first stock group, now is time to back test them to find good pairs to save to your home page.

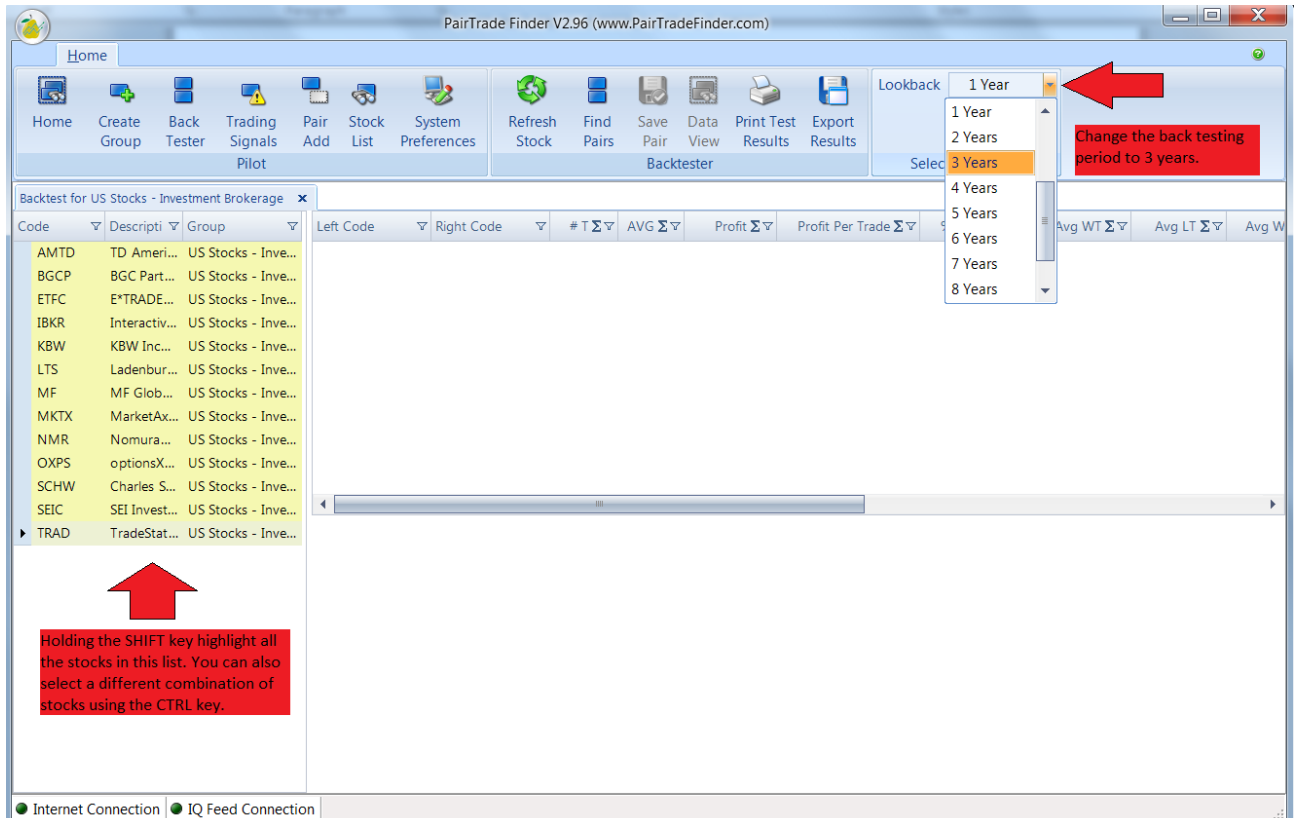
Please **click on back tester** from the front screen.



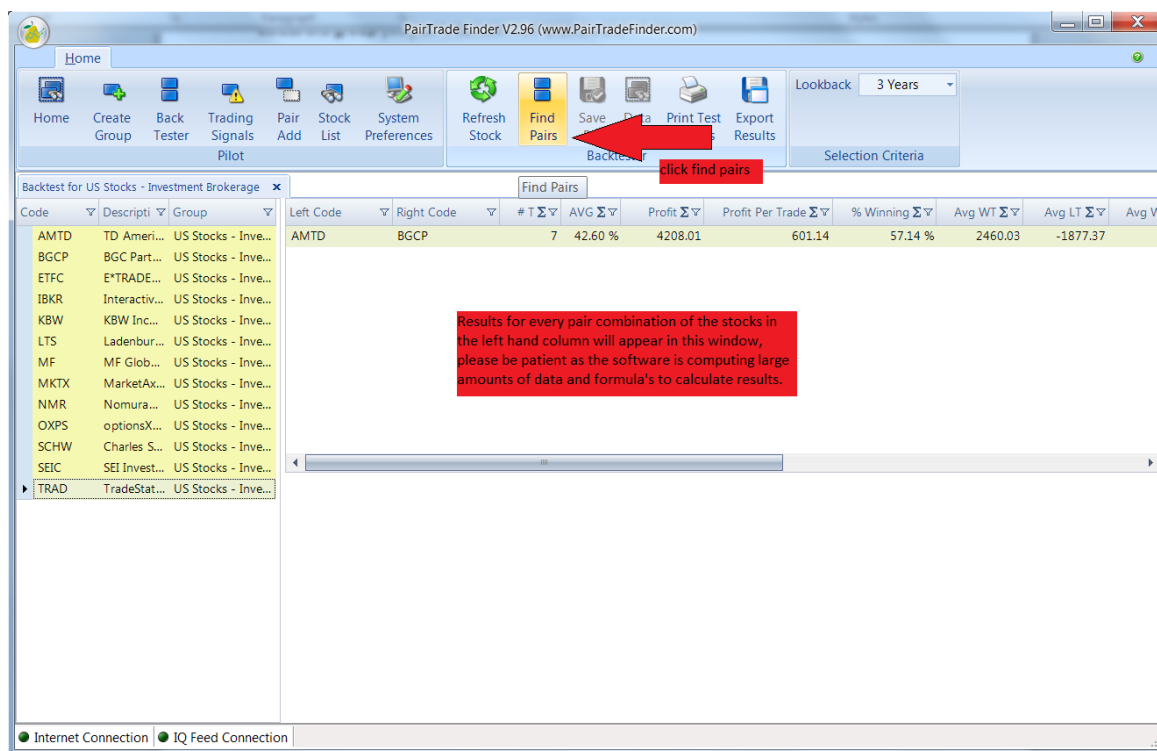
**Select the group** you just created. Then **click on ok**.



You will see the back testing screen appear, next **highlight all stocks** using the SHIFT key in the left hand column and **change the back testing period to 3 years**.

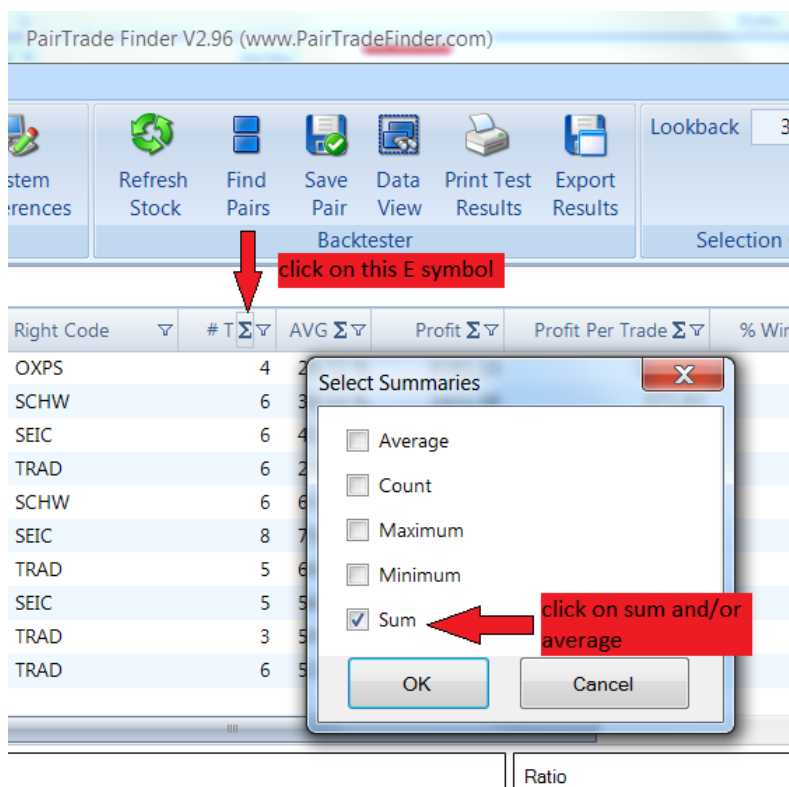


Next **click on Find Pairs** and please wait for results to start showing in the blank window, this can take several minutes as the software is crunching huge volumes of data. Every possible pair combination from stocks in the left hand window is shown in the results.



The results shown are based on the in-built pair trading system, the same signals that you can receive in real time going forward. This is real proof that our system works, numbers don't lie.

When you see the last 2 stocks codes paired, in this case its SEIC & TRAD, back testing has finished. Now let's average the results for every pair in this group, **click on the E symbol in each column header** to do so.



You can do this for each column, feel free to average any column you want to get a deeper look at the performance of the group as a whole. Ideally you want to focus on groups that show good performance as a whole. Shown below is the sum of all trades, the total profit from all those trades, the average profit per trade and the winning %.

Right Code	# T	AVG	Profit	Profit Per Trade	% Winning	Avg WT	A
SEIC	6	41.96 %	1031.68	171.95	66.67 %	946.92	
TRAD	6	20.29 %	4855.59	809.27	66.67 %	1451.28	
SCHW	6	65.38 %	3438.17	573.03	83.33 %	826.34	
SEIC	8	70.42 %	7430.57	928.82	100.00 %	928.82	
TRAD	5	66.27 %	2725.11	545.02	80.00 %	697.23	
SEIC	5	56.23 %	1096.79	219.36	80.00 %	845.04	
TRAD	3	59.56 %	782.62	260.87	66.67 %	548.85	
TRAD	6	53.21 %	7751.85	1291.98	100.00 %	1291.98	

Sum = 418	Sum = 386954.6...	Average = 831.9733...	Average = 0.702...
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In this back test there were a total of 418 trades for the 3 year period

The total profit from all these trades was \$386,954 assuming 10k was invested per trade

The average profit per trade (sum of profits / number of trades) was \$831.97 assuming 10k was invested per trade (you can change this amt)

The amount of profitable trades in this back test was 70.2%, that is 7 out of 10 trades made money

When it comes to back testing all pair combinations, you want to focus on pairs that have shown good results historically, this is the best indicator of future performance that we have. Using the **triangle icon in each column header** you can filter results based on your own defined parameters, shown below is our back test filtered to show only pairs that make at least \$300 average profit per trade.

# T	AVG	Profit	Profit Per Trade				
6	41.96 %	1031.68	(All)	66.67 %	946.92	-137	
6	20.29 %	4855.59	(Custom)	66.67 %	1451.28	-47	
6	65.38 %	3438.17	(Blanks)	83.33 %	826.34	-69	
8	70.42 %	7430.57	(NonBlanks)	100.00 %	928.82	-69	
5	66.27 %	2725.11	-815.67	80.00 %	697.23	-6	
5	56.23 %	1096.79	-756.96	80.00 %	845.04	-228	
3	59.56 %	782.62	-637.11	66.67 %	548.85	-31	
			-536.24				

Then filter for pairs above \$300 average profit per trade.

Enter filter criteria for Profit Per Trade

And conditions

Or conditions

Add a condition

Delete Condition

OK

Operator

Operand

> Greater than

300.00

change this operator to > Greater than

change this amount to 300.00

Now that has reduced the shown pairs down to 55 out of all 78 possible combinations, all pairs showing in the results make at least \$300 per trade (assuming 10k invested per trade). This has also increased all our other back test statistics, lifting the average winning trades to 77.4%

# T	AVG C	Profit	Profit Per Trade	% Winning	A
4	33.84 %	2389.06	597.27	100.00 %	
4	28.72 %	6161.10	1540.28	100.00 %	
6	38.33 %	3431.56	571.93	66.67 %	
6	20.29 %	4855.59	809.27	66.67 %	
6	65.38 %	3438.17	573.03	83.33 %	
8	70.42 %	7430.57	928.82	100.00 %	
5	66.27 %	2725.11	545.02	80.00 %	
6	53.21 %	7751.85	1291.98	100.00 %	

Sum = 312 Count = 55 Sum = 402056.8... Average = 1240.765... Average = 0.774...

By filtering for only pairs above \$300 avg profit per trade we have increased all other stats too

Now we will save all of these 55 profitable pairs to our home page to monitor further for trading signals going forward. Using the SHIFT key again, **highlight all the pairs in the results window**, then **click on Save Pair**.

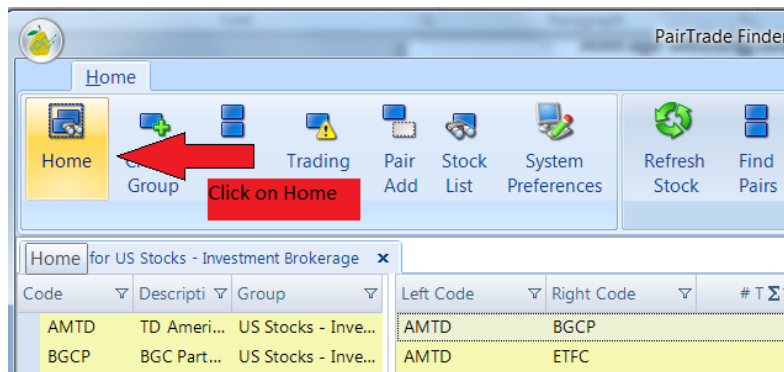
You have now completed a back test, found good pairs and added them to your home page.

Feel free to play around with the back tester more, you can back test our system on up to 10 years worth of historical data, and create any combination of filters that you can think of. These results are shown in the back tester for each pair, in this order;

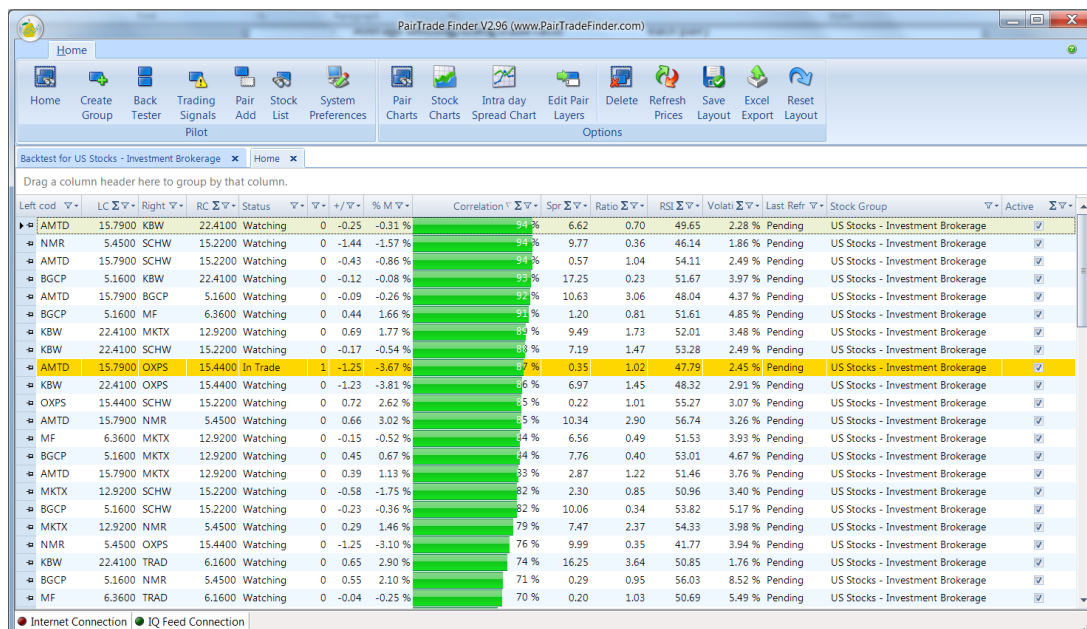
- Number of trades
- Average correlation
- Total profit
- Average profit per trade
- Winning % of trades
- Average winning trade
- Average losing trade
- Average winning/losing trade ratio
- Biggest winning trade
- Biggest losing trade
- Average days trade was open
- Total PnL less biggest winning trade
- Total PnL less biggest losing trade
- Median profit/loss per trade
- 2 charts shown (Running PnL and ratio chart for each pair)

## 2.3 Monitoring all your pairs at once

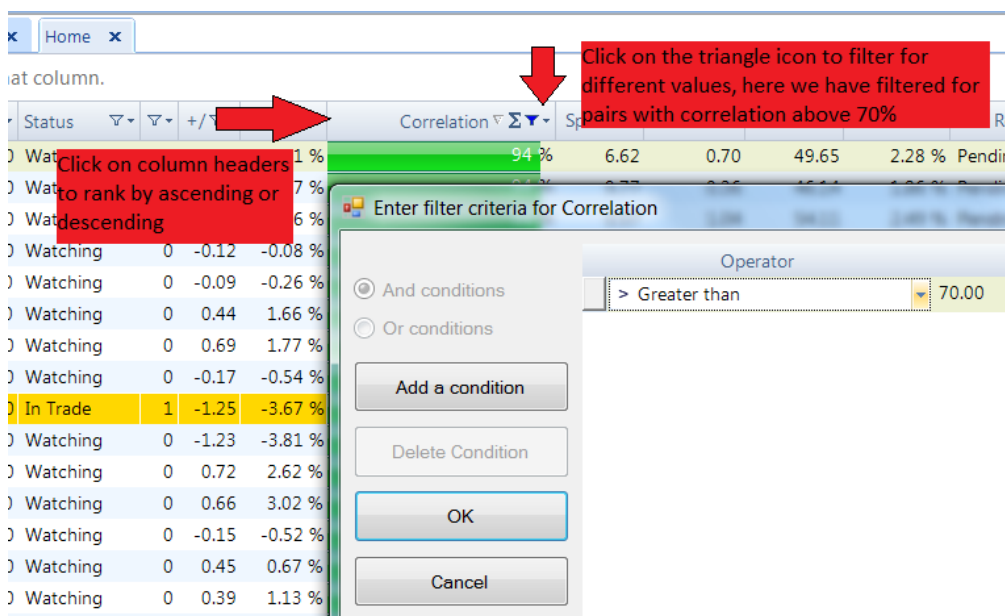
Now that you have created your first stock group, found and saved good pairs via the back tester, you can now view all your pairs on one screen, please **click on the home icon**.



The below screen will appear with all your saved pairs populated.



On this home page you can rank and filter for different values the same as the back tester.



Below is a screenshot with definitions for each column contained on the home page.

The layer column shows what layer your pair is in, you can setup multiple entry layers, e.g...2.00 stdev, 2.50 stdev, etc....

The +/- column shows how many standard deviations the pair is currently from its mean

The ratio column is the left stock price divided by the right stock price

The volatility column shows the volatility of the pair based on daily % changes in the ratio, beware of high volatility pairs

Stock group column shows what group each pair belongs too

This column shows the status of each pair, watching means waiting for a trade, in trade means the pair is currently in a trade

The % from mean column shows in % terms how far the pair is away from its mean, the higher the number the further its away from the mean average.

The spread column shows your the value of the highest priced stock in the pair minus the lowest priced stock

The RSI column is the RSI of the ratio, under 30 means the pair is oversold (long the left code / short the right code) and if the RSI is over 70 means the pair is overbought (short the left code / long the right code)

The last refreshed column shows you when data was updated last in the system, it will show as pending until the next data update comes in at market open

Active column refers to the maximum in trade feature, which allows you to specify a maximum amount of open trades at any given time, this is more for use in tandem with the automated spreadsheet

Σ	Status	+	-	% M	Correlation	Spr	Ratio	RSI	Volati	Last Refr	Stock Group	Active
.4100	Watching	0	-0.25	-0.31 %	94 %	6.62	0.70	49.65	2.28 %	Pending	US Stocks - Investment Brokerage	
.2200	Wa	0	-1.44		94 %		0.36		1.86 %	Pe	US Stocks - Investment Brokerage	
.2200	Watching	0	-0.43	-0.66 %	94 %	7	1.04		2.49 %	Pe	US Stocks - Investment Brokerage	
.4400	In Trade	1	-1.25	-3.67 %	87 %	0.35	1.02					
.4400	Watching	0	-1.23	-3.81 %	86 %	6.97	1.45				US Stocks - Investment Brok	
.2200	Watching	0	0.72	2.62 %	85 %	0.22	1.01				US Stocks - Investment Brok	
.4500	Watching	0	0.66	3.02 %	85 %	10.34	2.90				US Stocks - Investment Brok	
.9200	Watching	0	-0.15	-0.52 %	84 %	6.56	0.49				US Stocks - Investment Brokerage	

Shown below are the functions of some other buttons you will find on the home screen.

If you change your settings, highlight pairs then click on refresh prices

You can export your home page with all columns to an excel spreadsheet to analyse further or keep records

To manually add a pair from a particular group to your home page, click on pair add

To delete a pair from your home page, click on the pair, then click delete

When you have customized your column widths, and layout, you can save this so the software remembers

Click here to reset the layout to default settings

% M	Correlation	re	Stock Group
-0.31 %		ng	US Stocks - Investment Brokerage
-1.57 %		ng	US Stocks - Investment Brokerage
0.43	0.86 %		US Stocks - Investment Brokerage

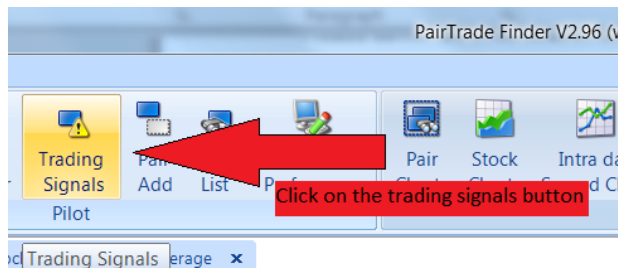
As you can see the home page is your bird's eye view of your all pairs at once, from here you can rank them according to the different columns, or you could filter to only show pairs currently in a trade, or filter to show only a particular group, etc...

Please continue onto section 2.4 for information on how to monitor for trading signals.

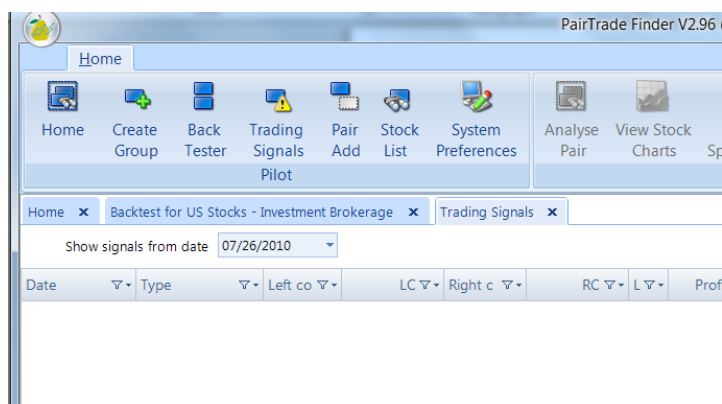


## 2.4 Receiving entry and exit signals on your pairs

You have now created a stock group, found and saved good pairs, know where to see them all at once, now you can use the triggers window to monitor for upcoming trading signals. Trading signals will come in during market hours or your specified time. Please **click on the trading signals** button.



It will be blank until new trading signals are generated by the software.



This is what your trading signals window will look like once one new trading signal comes in, you can also sort to show signals going back in time, and then using the same E and triangle icons in the columns headers, can sort, rank and average values.

PairTrade Finder V2.96 (www.PairTradeFinder.com)

Home Create Back Trading Pair Stock System Analyse View Stock

Home x Backtest for US Stocks - Investment Brokerage x Trading Signals x

Show signals from date 06/01/2010

Date Type Left cod LC Right cod RC L Profit Purchase C Sell Cost Qty P Qty S Por

This column shows the date of the trading signal

Change the dates for signals shown here

LC means left code, RC means right code, and shown in these 2 columns are the prices at the time of the trading signal

This column shows the profit for exited trades based on your entered trade size, by default this is \$10,000 per trade

This is the sell cost of the covered/short trade

This is the amount of shares sold short/covered

Type of signals is shown here, either buy/sell, sell/buy or exit

Red highlight means it was a short entry signal on that code

This is the purchase cost of the buy/long trade

This is the amount of shares bought/went long

Green highlight means an long entry signal was given on this code

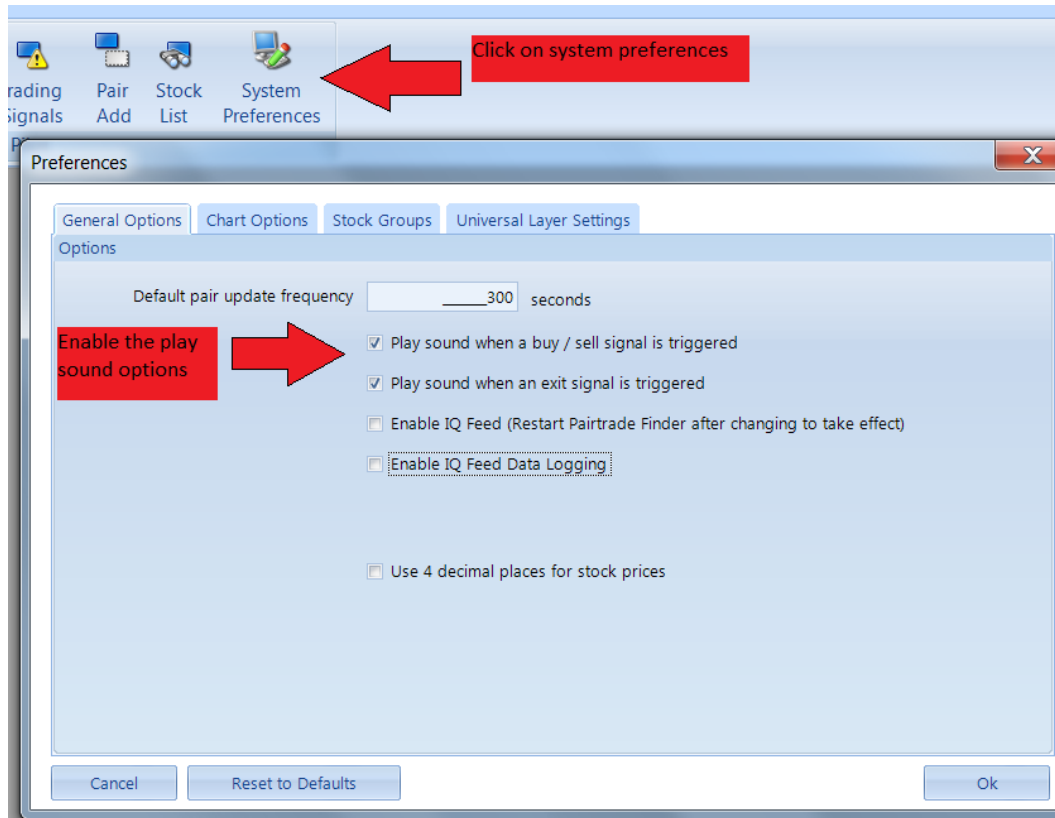
Date	Type	Left cod	LC	Right cod	RC	L	Profit	Purchase C	Sell Cost	Qty P	Qty S	Por
07/23/2010	Exit	AUDCHF...	0.9421	CHFJPY.FXCM	83.0900	1	116.12	10136.98	10265.56	122	10896	FO
07/23/2010	Exit	AUDCHF...	0.9429	EURJPY.FXCM	112.7630	1	283.26	10261.43	10561.31	91	11201	FO
07/20/2010	Exit	AUDCHF...	0.9300	GBPJPY.FXCM	133.4450	1	134.90	9874.93	10133.50	74	10896	FO
07/16/2010	Buy	XLE	39.2300	XLE	51.4800	1					254	ETF
07/06/2010	Buy	HYG	18.3060	HYG	85.0800	1					584	ETF
07/06/2010	Buy	XLB	38.0900	XLB	27.9000	1	-649.69	10208.12			343	ETF
07/06/2010	Buy	XOP	38.0900	XOP	38.0000	1	0.00	9994.00			262	ETF
07/06/2010	Exit	ACG	8.1699	DBB	18.2700	1	341.86	10334.92	10669.68	1265	584	ETF
07/06/2010	Exit	HYG	85.1500	XLB	27.9500	1	-562.85	10132.85	9614.80	119	344	ETF
07/02/2010	Sell / Buy	MOO	36.3400	XME	44.7400	1	0.00	9977.02	9993.50	223	275	ETF
	Buy	PBW	8.3000	XOP	38.6100	1	314.40	9996.13	9329.20	233	1124	ETF
	Buy	OIH	96.1781	XOP	38.6100	1		9691.11	10579.59	251	110	ETF
	Buy	ACG	8.1350	IGE	38.0800	1		9972.34	9997.92	322	1229	ETF
	Buy	ACG	8.1350	XLE	49.8700	1		9974.00	9997.92	200	1229	ETF
	Sell	PCG	15.2800	JNK	38.0800	1	0.00	9993.12	9976.96	654	262	ETF
	Sell	IGE	30.9600	JNK	38.0820	1	0.00	9969.12	9977.48	322	262	ETF
	Buy	JNK	38.0820	XLE	49.8400	1	0.00	9968.00	9977.48	200	262	ETF
06/29/2010	Sell / Buy	ACG	8.1392	XOP	38.9650	1	0.00	9975.04	9994.94	256	1228	ETF
06/29/2010	Sell / Buy	HYG	84.8790	XLE	49.7000	1	0.00	9989.70	9930.84	201	117	ETF
06/25/2010	Exit	XME	50.7600	XOP	41.5800	1	637.11	10270.26	10913.40	247	215	ETF
06/24/2010	Exit	DBB	18.5600	FCG	16.1800	1	917.28	9384.40	10285.56	580	554	ETF

Internet Connection IQ Feed Connection

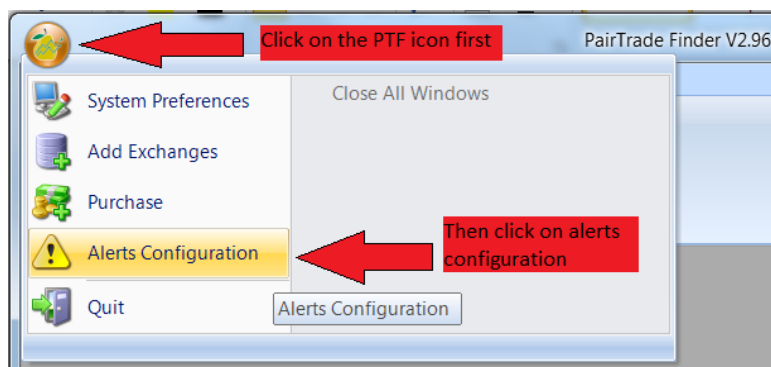
## 2.5 Setting up audio and email alerts

Trading signals will come in during market hours for you to act on, instead of being glued to the trading signals window all day, you can be alerted to a new trading signal via an audio beep or email.

To setup audio alerts, which is a beeping sound when a new trading signal arrives, please **click on the system preferences** button on the front screen, then **enable the play sound options**, click **ok**.

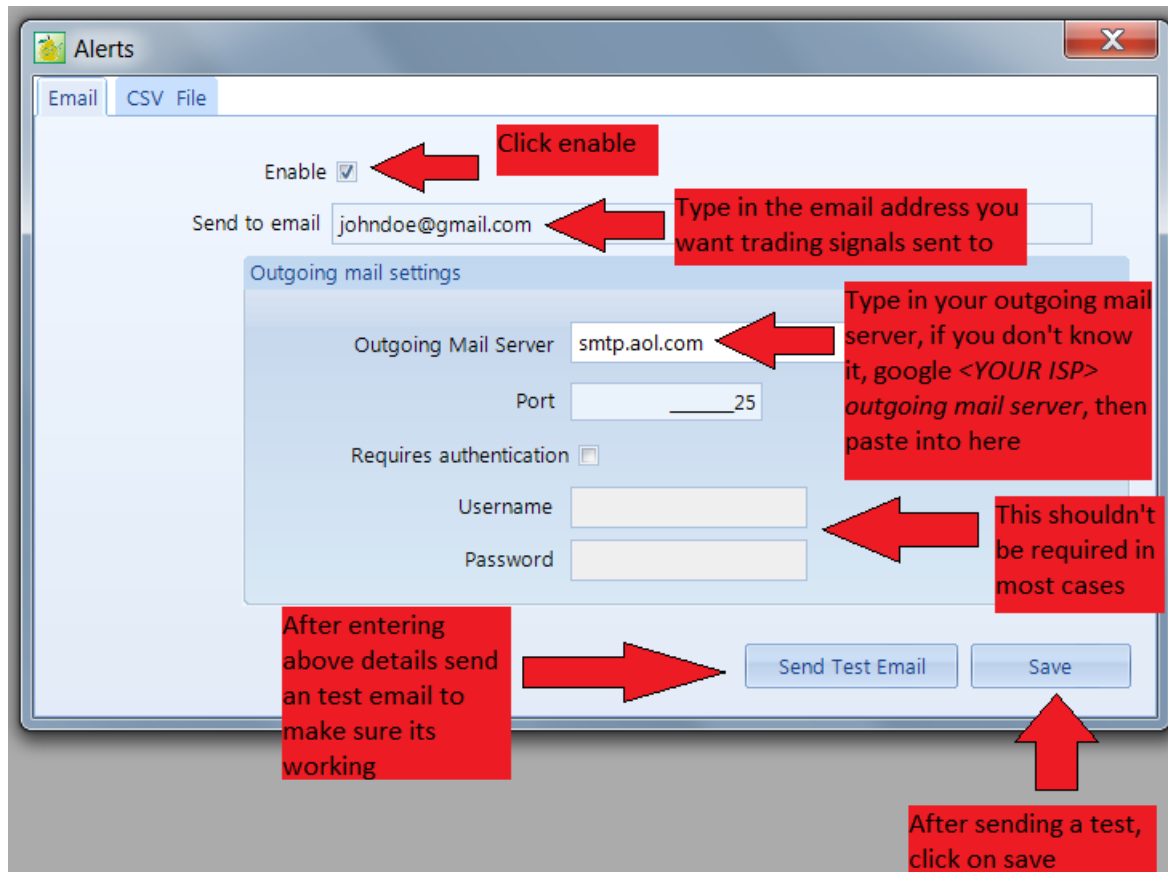


To setup email alerts, please **click on the pair logo** in the top left hand corner of the software, then **click on alerts configuration**.





In the alerts configuration window, **click on the email tab** and follow instructions as shown in the screenshot below.



Below is an example of what an entry trading signal sent to your inbox will look like.

**7/16/2010 Enter Trade GOOG/YHOO - Long GOOG at 412.38, Short YHOO at 15.75 Layer 1**

Below is an example of what an exit trading signal sent to you inbox will look like.

**7/20/2010 Exit Trade GOOG @ 419.25/YHOO @ 14.63**

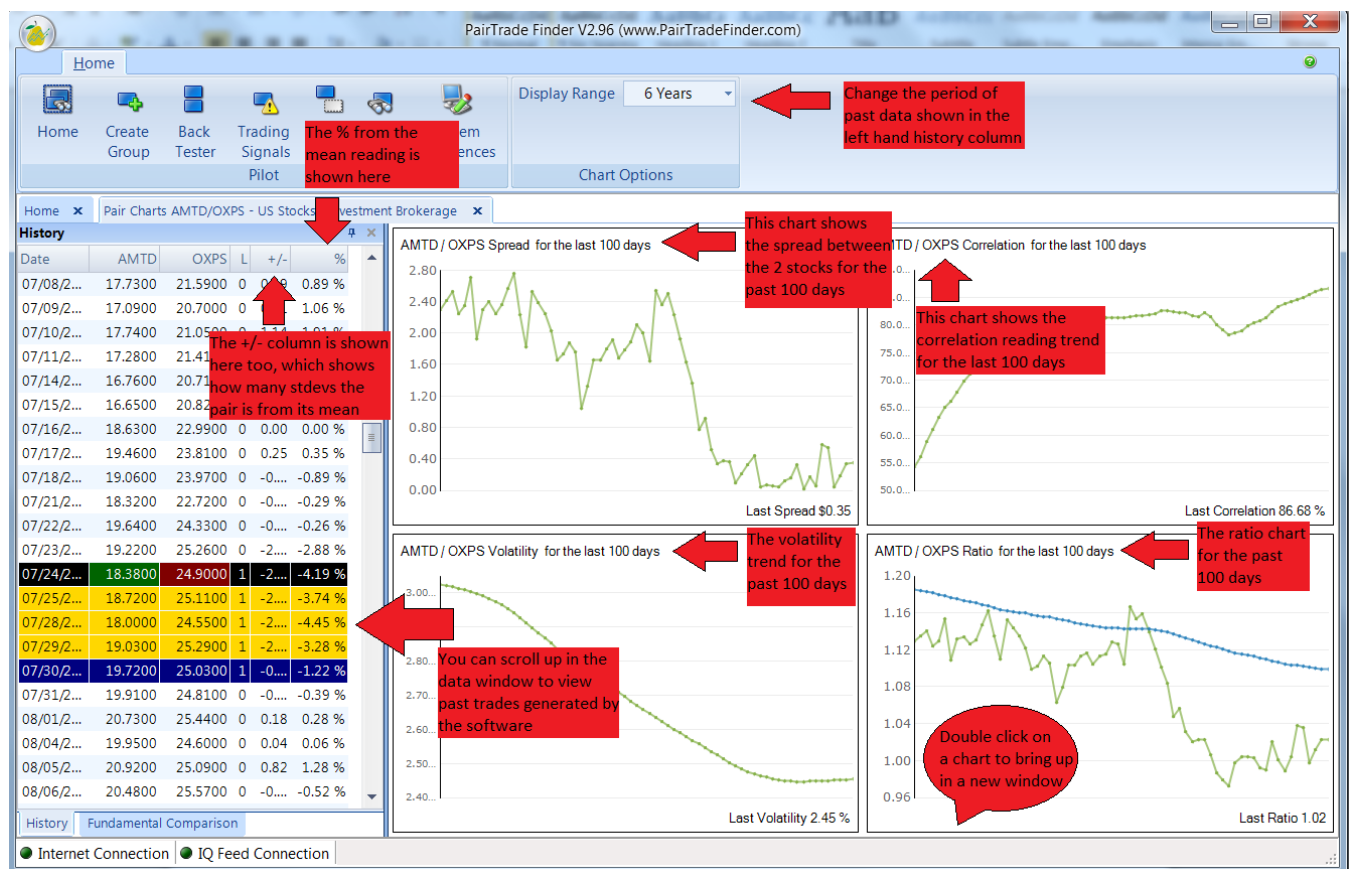
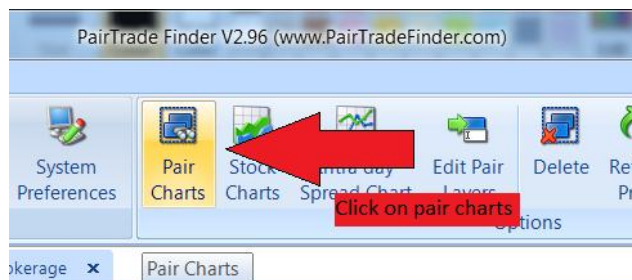
We highly recommend you setup at least audio alerts, and/or email alerts so you are notified in real time when our software has generated a new trading signal for you to look at and/or act on.

## 2.6 Analysing beyond the trading signals

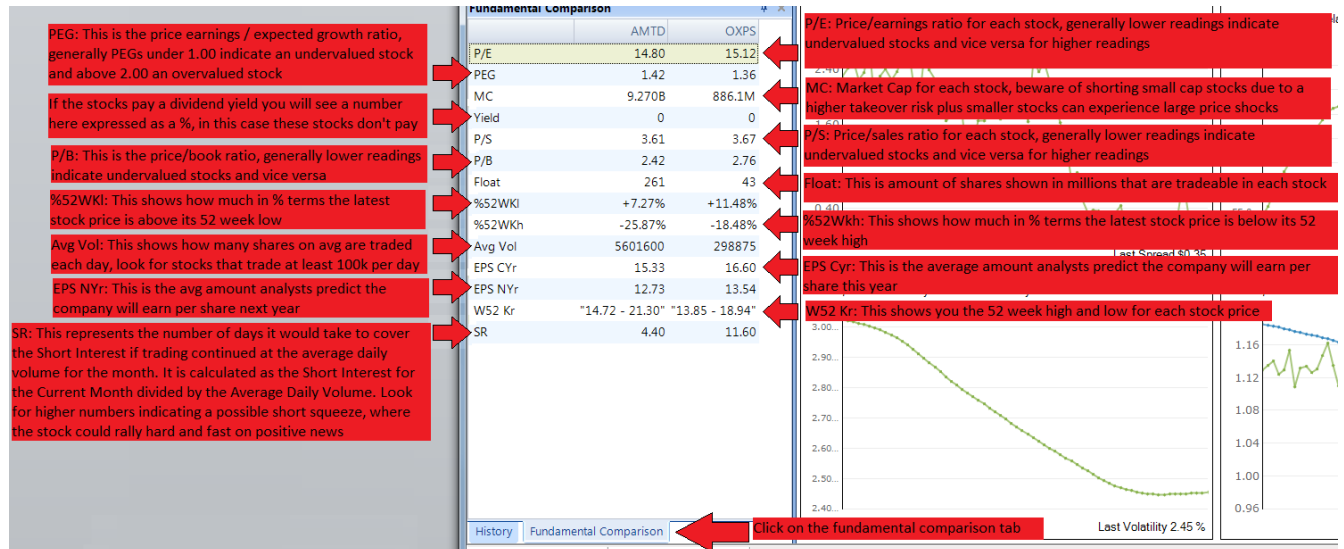
In addition to the in-built trading signals, you can analyse the pair further to pick n choose trading signals if you wish, alternatively you could just trade every signal that comes in and still be profitable over time.

Using the default signal settings, trading signals are generated at 2.70 standard deviations from the 100 day mean average of the ratio, an exit signal is generated when the pair goes past 1.00 standard deviations; i.e.....its goes closer than 1 standard deviation to the mean. The current reading on each pair is shown in the +/- column in the home page.

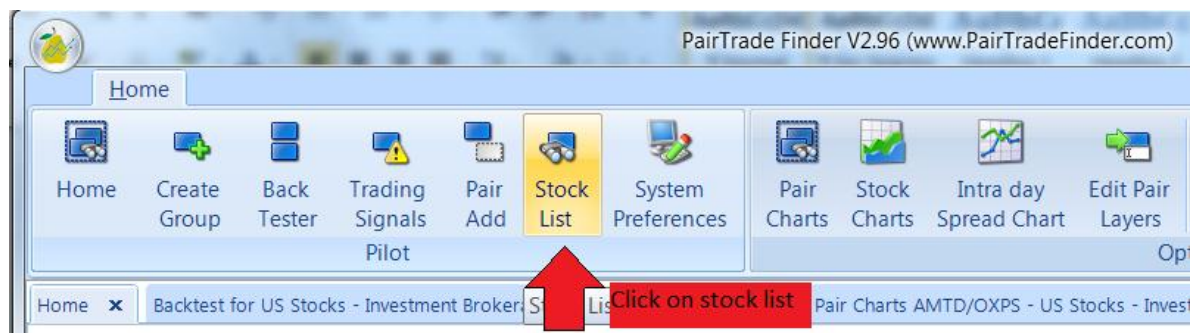
To analyse each pair further, you can select a pair in the home page then click on the pair charts button.



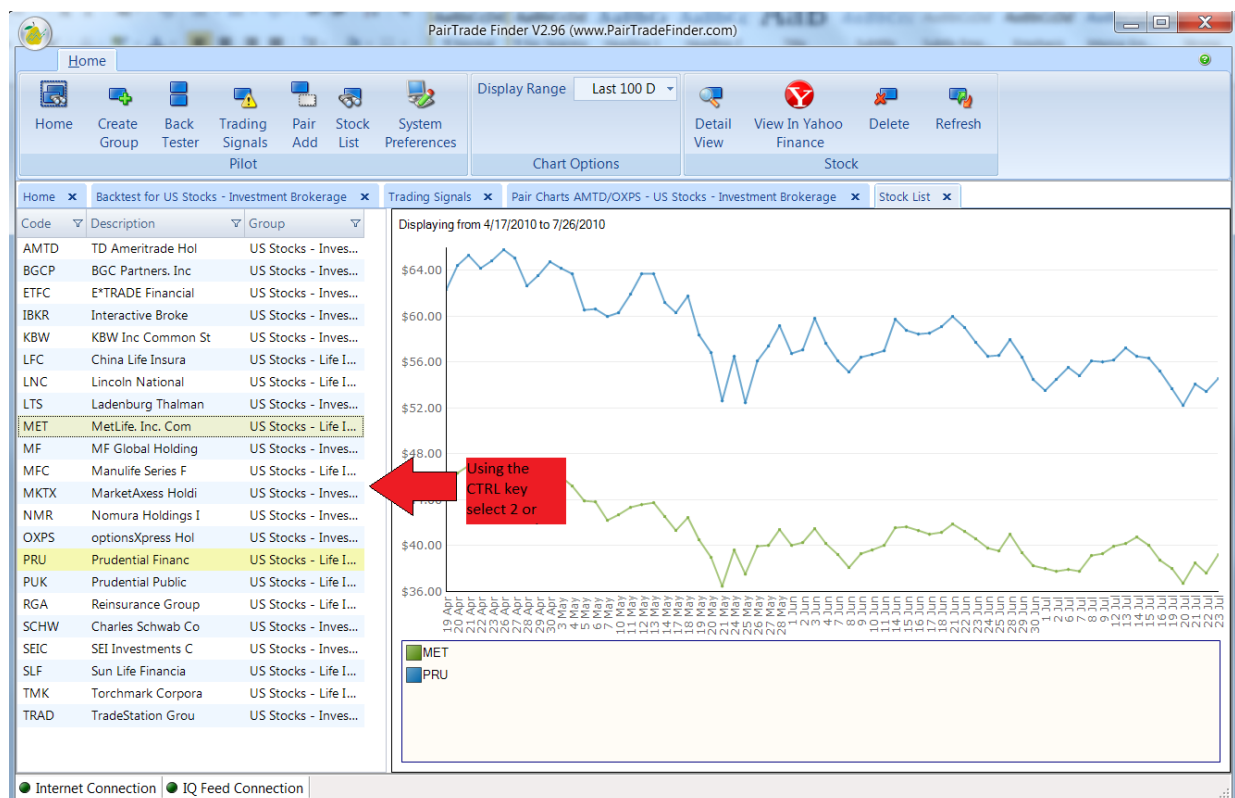
In the same pair charts window, you can easily compare the fundamentals of each stock against each other, **click on the fundamental comparison tab** at the bottom of the data column.



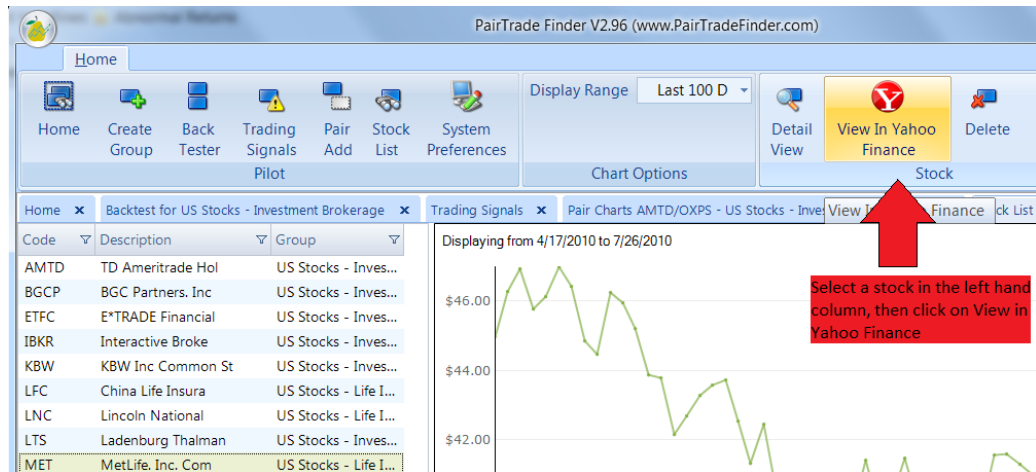
If you would like to compare two stocks or more against each other you can do so by clicking on the **stock list button** on the front screen.



Next, select 2 or more stocks using the CTRL key.



If you wish to see the latest news items released on a particular stock, click on it in the left hand column, then **click on the View in yahoo finance** button.



Your browser will automatically load the selected stock code in yahoo finance, so you can quickly see any recent news items released on a stock.

**YAHOO! FINANCE** Search Web Search

Dow  $\uparrow$  0.99% Nasdaq 0.00% streaming quotes: ON

HOME INVESTING NEWS & OPINION PERSONAL FINANCE MY PORTFOLIOS TECH TICKER

00 MET 39.54 +0.00 MSFT 25.81 +0.00 SR 3.50 +0.00 GOOG 490.06 +0.00 settings

**MetLife, Inc. (MET)** Jul 23: 39.54 0.00 (0.00%)

**More On MET**

- Quotes
  - Summary
  - Real-Time
  - Options
  - Historical Prices
- Charts
  - Interactive
  - Basic Chart
  - Basic Tech. Analysis
- News & Info
  - Headlines
  - Financial Blogs
  - Company Events
  - Message Boards
- Company
  - Profile
  - Key Statistics
  - SEC Filings
  - Competitors
  - Industry
  - Components
- Analyst Coverage
  - Analyst Opinion
  - Analyst Estimates
  - Research Reports
  - Star Analysts
- Ownership
  - Major Holders
  - Insider Transactions
  - Insider Roster
- Financials
  - Income Statement
  - Balance Sheet

**MetLife, Inc. Common Stock** (NYSE: MET) Like 6

After Hours: 0.00 N/A (N/A) 10:00PM EST

Last Trade:	39.54	Day's Range:	N/A - N/A
Trade Time:	Jul 23	52wk Range:	32.00 - 47.75
Change:	0.00 (0.00%)	Volume:	0
Prev Close:	39.54	Avg Vol (3m):	7,401,690
Open:	N/A	Market Cap:	32.43B
Bid:	36.00 x 100	P/E (ttm):	N/A
Ask:	N/A	EPS (ttm):	-1.20
1y Target Est:	52.25	Div & Yield:	0.74 (1.90%)

People viewing MET also viewed: PRU MS LNC ALL HD BK

Quotes delayed, except where indicated otherwise. Currency in USD.

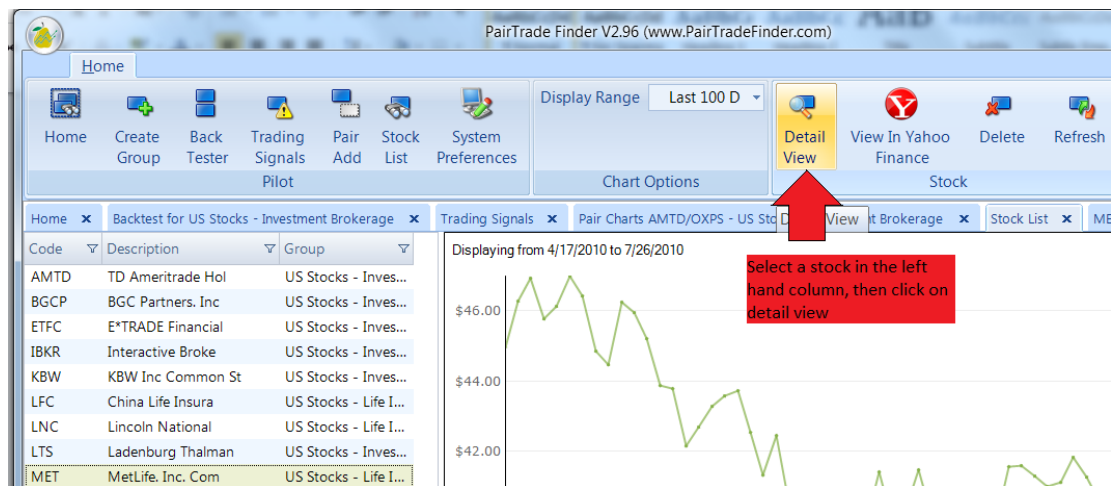
**Headlines** Filter Headlines

- Life Insurance is Still Risky Business  
Morningstar (Mon 7:00AM EDT)
- Business events scheduled for the coming week  
AP (Fri, Jul 23)
- Earnings schedule for week of 7/26/10  
AP (Fri, Jul 23)
- Some Perspective on Bank Loan Loss Provisions

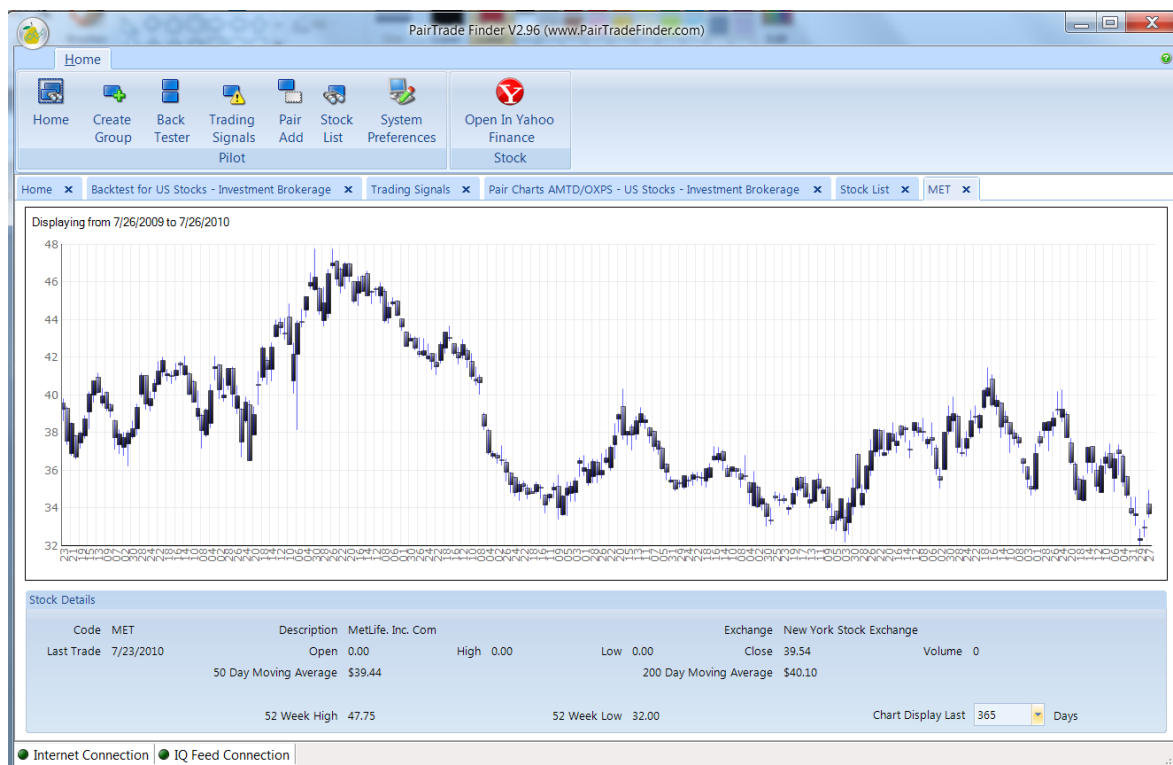
**Who 2010**

Look for recent news items like upgrades/downgrades, earnings announcements, litigation, takeover, won/lost contracts, CEO appearances, earnings guidance, dividends, etc...which could affect the stock price

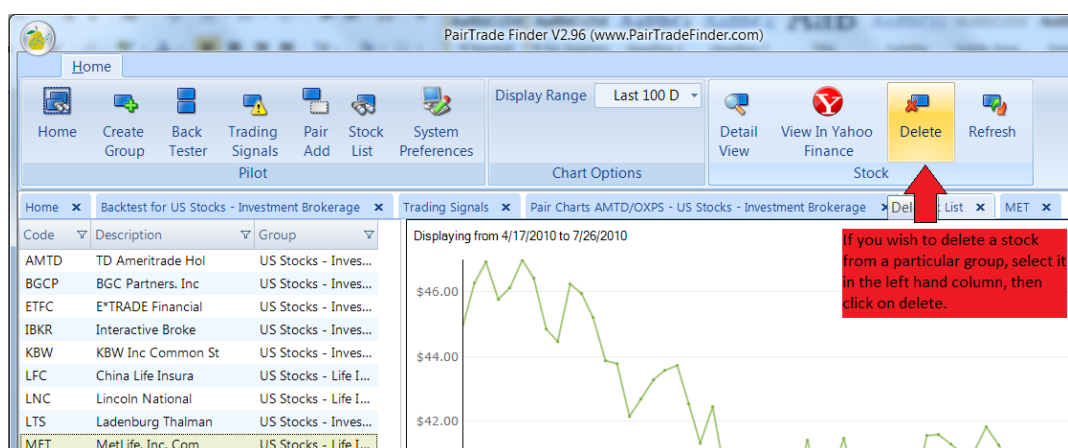
If you wish to view an individual candlestick chart for a stock, please select a stock in the left hand column, then **click on detail view**.



Next you will see the detailed view window, where you can daily trading information, and whether the stock is trending or ranging, and key support/resistance levels.

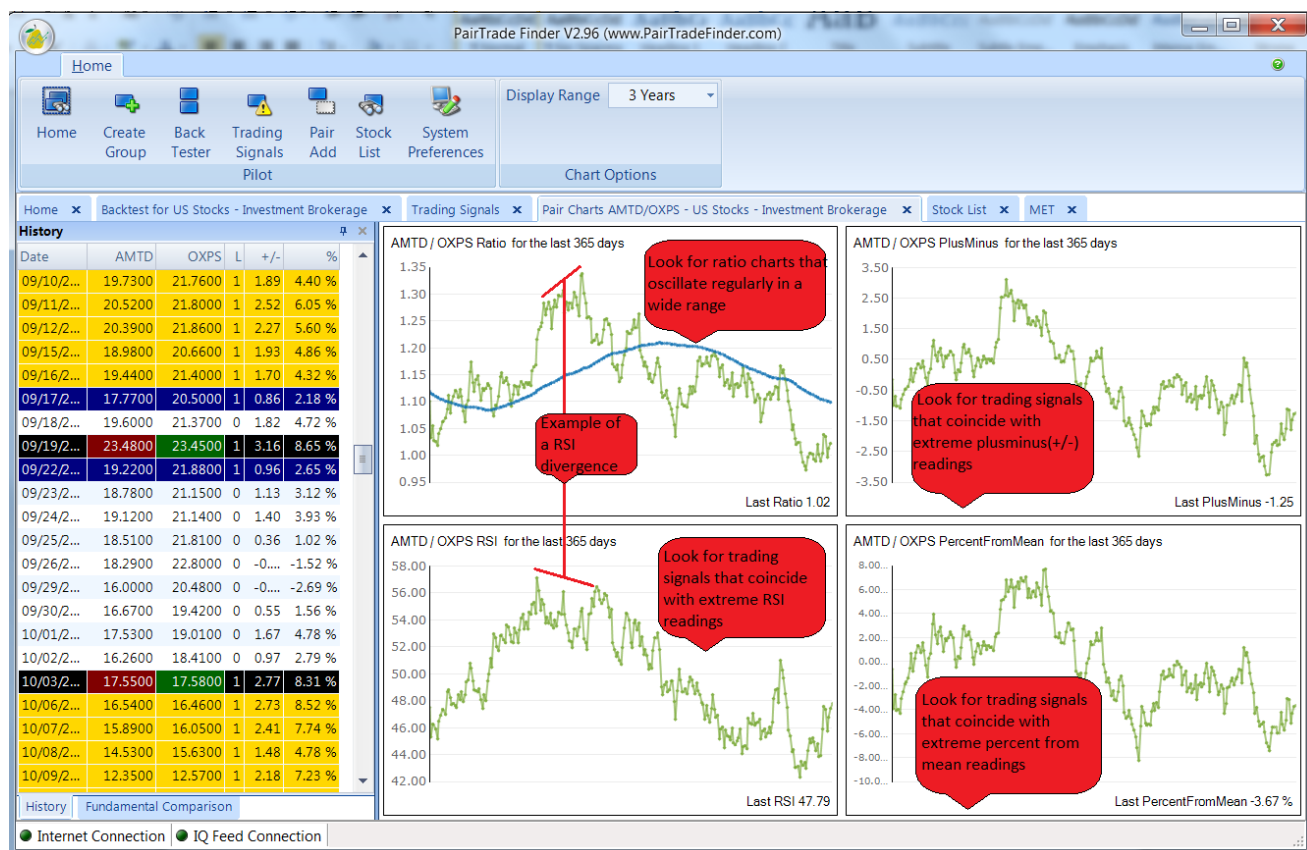


If you wish to delete a stock from a particular group, select it in the left column and **click delete**





Below is a screenshot with some tips for what to look for when analysing the pair charts, feel free to devise your own interpretations and create your own custom trading rules.



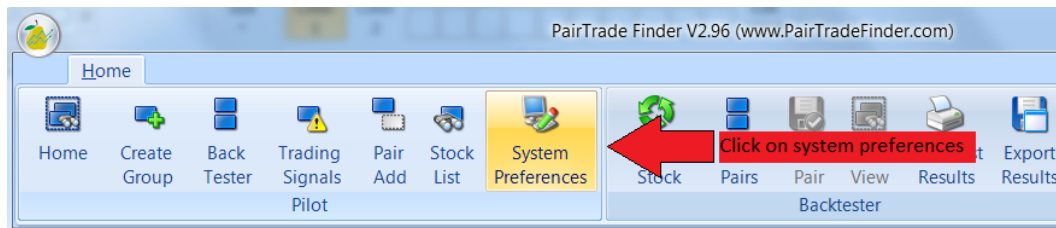
The ratio chart is probably the most used chart in pair trading, shown in the top left hand corner in the above screenshot, it is the left stock in a pair divided by the right stock. In the above example, the latest ratio is 1.02. When the +/- column is showing a negative number, the ratio is below its mean, vice versa when the +/- column is showing a positive number. When we are betting on a rising ratio, we are betting on the left code outperforming the right code, i.e.....long the left stock / short the right stock, and vice versa when we are betting on a falling ratio price. In the above example of the RSI divergence between the ratio and the RSI price, you can see the ratio chart move higher but in the same period the RSI makes a lower high, indicating a divergence, we follow the direction of the RSI chart, so we would be bearish on the ratio, thus betting on the left code underperforming the right code. Please don't be alarmed if this doesn't make sense, we recommend reading the above information several times, although it's not needed to use our system effectively, however understanding how the ratio chart works will help your pair trading.

Ideally the best trading signals occur on pairs with the best back testing results and that are very stretched from their mean on no significant news items, for example if the pair AMTD/OXPS was 3.00 standard deviations and 10% away from its mean on no significant news items, this would be a very good trading opportunity, not every trade may win, but out of 10 or more of these trades, you will come out on top.

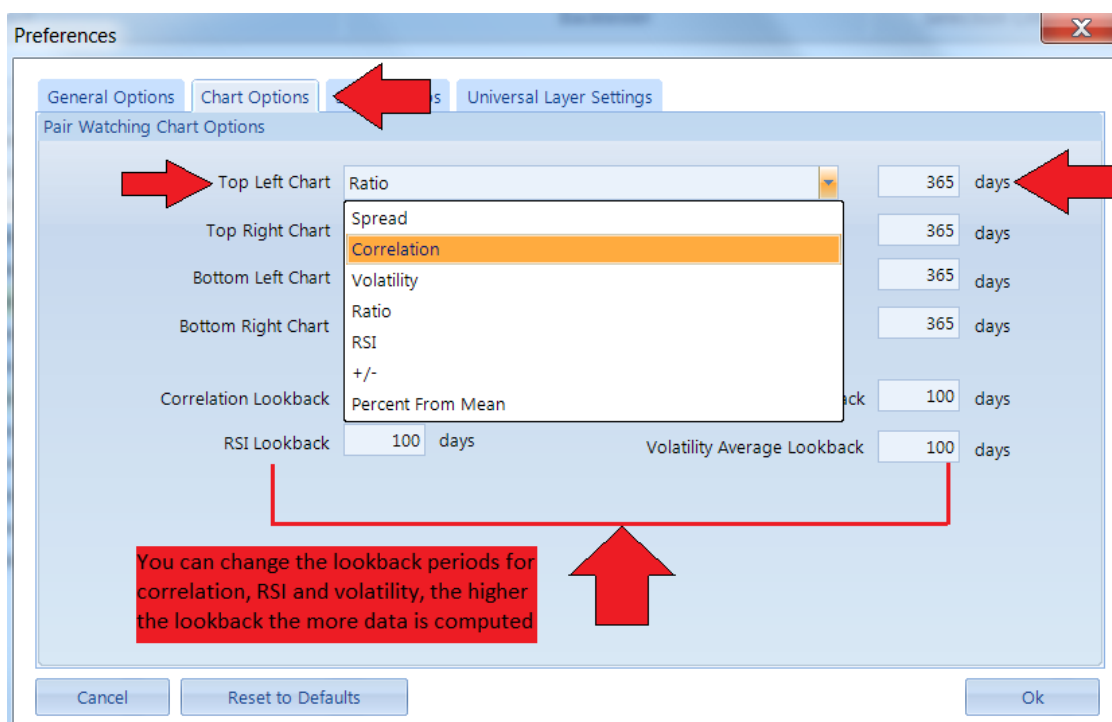
The best way to get good at pair trading is the same way to get good at anything else; read, learn, practice, persist, be patient, practice some more then you will get better and you will find your trading nirvana, pair trading is just the vehicle that will get you there, it is ultimately up to you, the trader, whether you make it succeed for you or not.

## 2.7 Customizing your own trading system

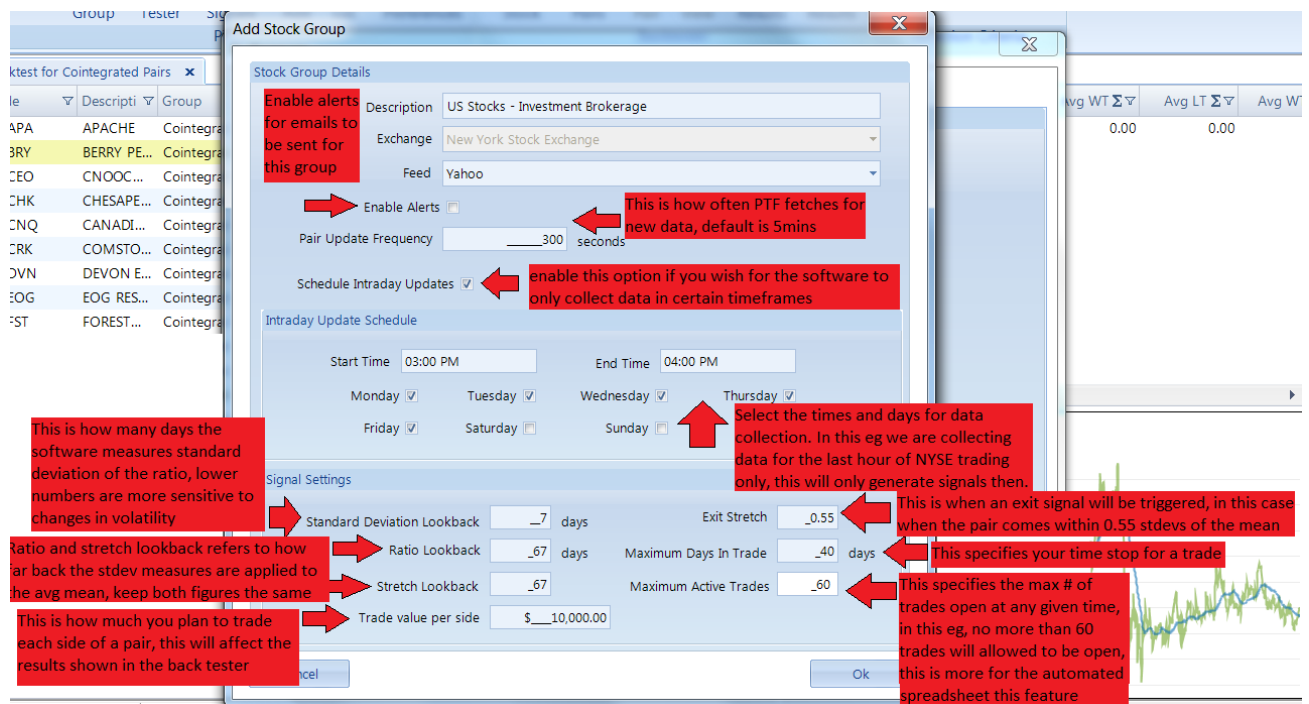
PTF is designed to be highly customizable, flexible and appealing to a wide audience of traders. You can customize how the charts are shown in the pair charts window. On the front screen, please **click on system preferences**.



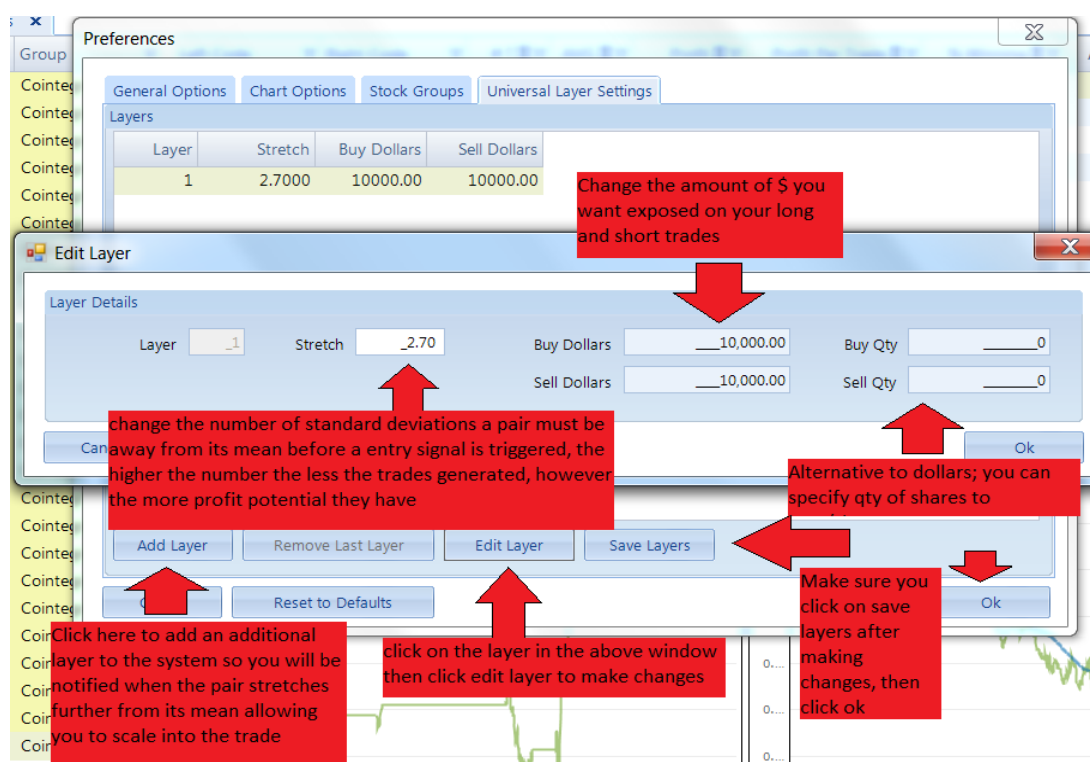
Then **click on the charts tab**, you can choose what charts are shown where and for what look back period.



You can customize how the signals are generated for each individual group you have, to change the parameters, **click on system preferences**, then the **stock groups** tab, select a group then **click edit**. Please refer to the below screenshot for definitions of each parameter.

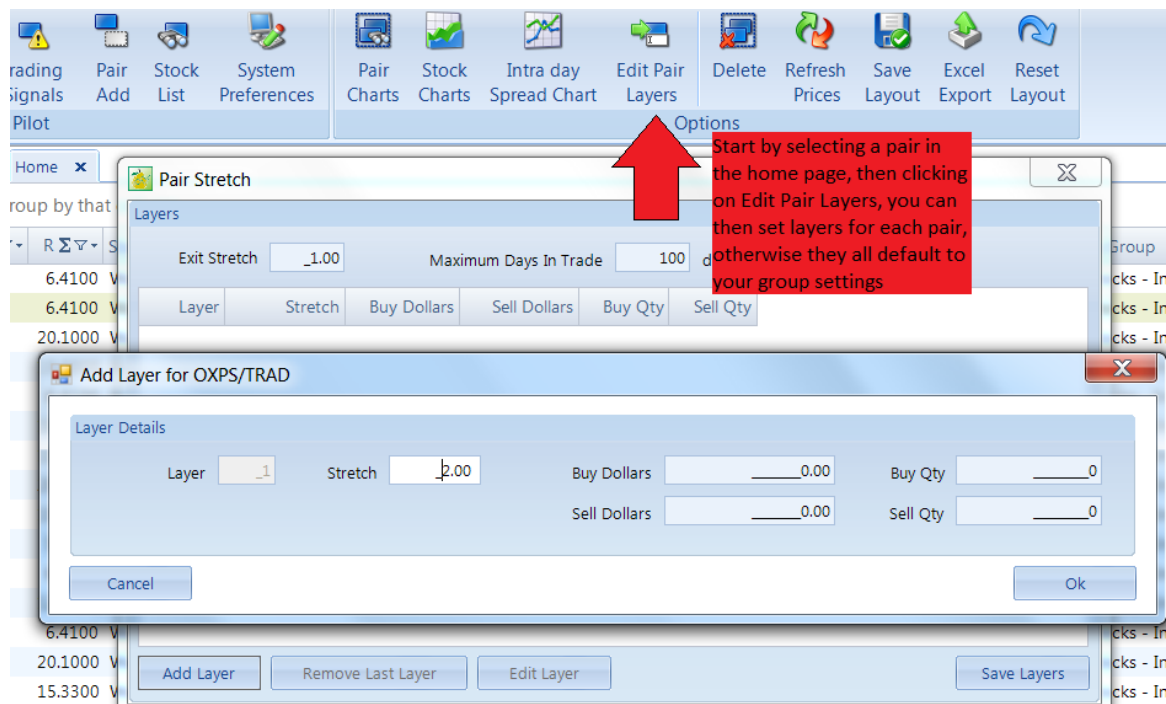


To modify the entry trigger level, that is, how many standard deviations a pair must be away from its mean before our software generates a signal, please click on system preferences, then on universal layer settings, select layer 1, and then click on edit layer. By default PTF generates entry signals when the pair is 2.70 standard deviations from the mean. You can also add additional layers to the system, that is, have additional entry signals in the same pair if it keeps on moving away from the mean, you could setup the 1<sup>st</sup> layer at 2.50 stdev, 2<sup>nd</sup> layer at 2.80 stdev, and a 3<sup>rd</sup> layer at 3.10 stdev so you can scale into a trade to improve your cost average, this is only recommended for experienced pair traders.





You may wish to set individual entry layers for each pair, for e.g...2 highly correlated liquid ETFs you may want to set at 2.00 layer, however for a risky small cap NASDAQ biotechnology pair you want may to use 3.00 along with smaller position sizing. To edit individual layers for pairs, go to the front screen, select a pair, and then **click on edit layers**.



As you can see PTF is highly customizable and its very unlikely 2 traders will make exactly the same trades over time. You can use and customize PTF in any way you can think, some traders can get very creative with their trading rules and combinations, some swear by the RSI chart, other's buy the dips in up-trending ratio charts backed with fundamentals, some will only trade pairs in a certain industry, etc...it really is up to your imagination as to what you can come up with. Pair trading is part science, part art, it is a skill that you can grow and develop over time, and before you know it, your trading will come natural just like driving a car.

## 2.8 Keeping records and position sizing

As a pair trader, it is very important you keep detailed records of all trades, both simulated and live as this gives you a journal that you can go back to and learn from, plus keep track of your PnL. It is also critical that you have the right position sizing formula based on your risk tolerance, investment objectives and available leverage. We cannot give a *one-size-fits-all* type position sizing formula as every trader is different and use a multitude of brokers which offer different leverage. We can give you an outline on how to approach position sizing with the help of our spreadsheet.

You will find the spreadsheet for [download here](#).

You will also find in the trading signals window the qty of shares to buy or sell for a trade which is calculated on your defined trade size, default is size \$10,000.

In here you can record your trades, entry and exit prices, and it will automatically calculate the % PnL return for the pair trade as a whole. You can also use the spreadsheet to calculate how many shares to buy or sell.

When pair trading, our aim is to trade dollar neutral, that is, equal \$ exposure on both the long and short side. For example if you had a \$10,000 a/c you may wish to place \$2,000 in each trade, so you would take \$2,000 and divide it by the share price to work out the qty to buy/sell....eg..... $2000 / 35 = 57$  shares to buy/sell.

Good pair trading is all about making heaps of small trades with an edge, don't ever place a large % of your a/c in any one trade, as in the rare case of a large overnight move this will affect your whole a/c negatively.

Spreading your risk is what we keep you in the game for the long term, try and trade a diversified portfolio of pairs from different sectors, industry's, asset classes whilst never focusing on the results on one trade, rather the performance of 10, 20 or more trades over time, that is what counts.

## 2.9 Using Co-integration with PTF

The biggest upgrade to Pairtrade Finder in version 3 is in the addition of co-integration. There is a new column in the backtester and home page titled co-integration. Below we will give you an explanation of co-integration, why it's important in pair trading and how to use it with Pairtrade Finder.

Basically co-integration measures the tendency for a pair to revert back to its mean, so how often it will coverage back to its average after diverging. This is a far superior measure of a relationship compared with correlation, as correlation only measures the simarility in movement between 2 stocks or other instruments.

Co-integration is shown as a value between 0.01 – 0.99, with higher the number the more co-integrated a pair is. Ideally you want to trade pairs above 0.90 co-integration, this means there is a greater chance our trading signals will produce a profit for you.

The amount of data you load in for each instrument is what Pairtrade Finder uses to calculate co-integration, we find measuring of as much data as possible ideal for finding true long term mean reverting pairs.

Remember to rotate your pairs on your home page so you are regularly deleting low co-integrated pairs and looking for and adding high co-integrated pairs.

This is the most important measure for finding suitable pairs to trade.

Pairtrade Finder is the only application on the net that accurately calculates co-integration in real time on over 1,000,000 different trading instruments, this levels the playing field between hedge funds and online traders to access the same information.

## 3.1 Getting Real Time Data into PTF

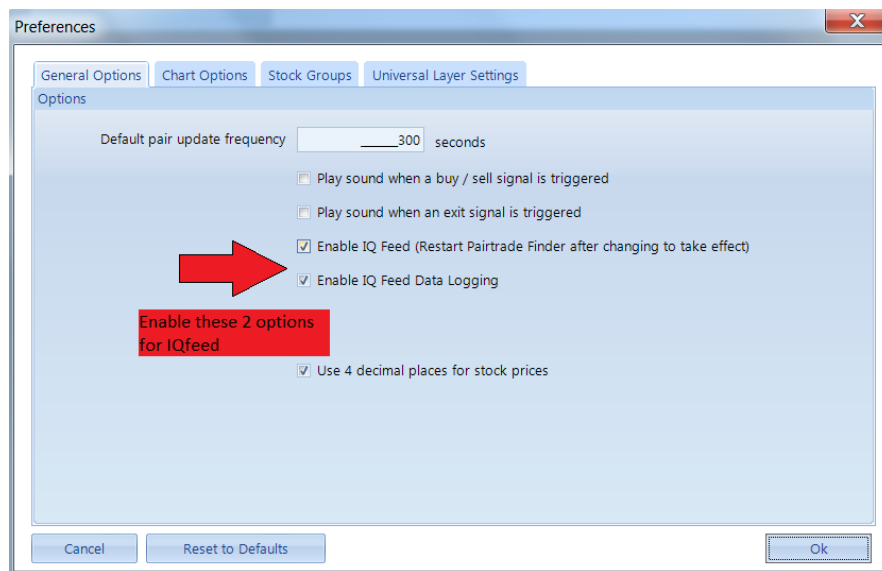
To use Pairtrade Finder with real time data for US or Canadian stocks or with futures, options, forex and commodities requires a data subscription from [www.iqfeed.net/pairtradefinder](http://www.iqfeed.net/pairtradefinder) Please remember to use this link with our extension as we have an arrangement with IQfeed where the normally charged \$50 setup fee is waived for PTF users.

Whilst you may be used to getting free data, if you're a serious trader, there is nothing more important than getting quality, clean data, a bad tick on free data could cost you hundreds, which would have been saved with a simple monthly subscription to real time data. IQfeed isn't the cheapest provider, however they offer the best value when it comes to markets covered and quality of data, hence they have over 80,000 clients.

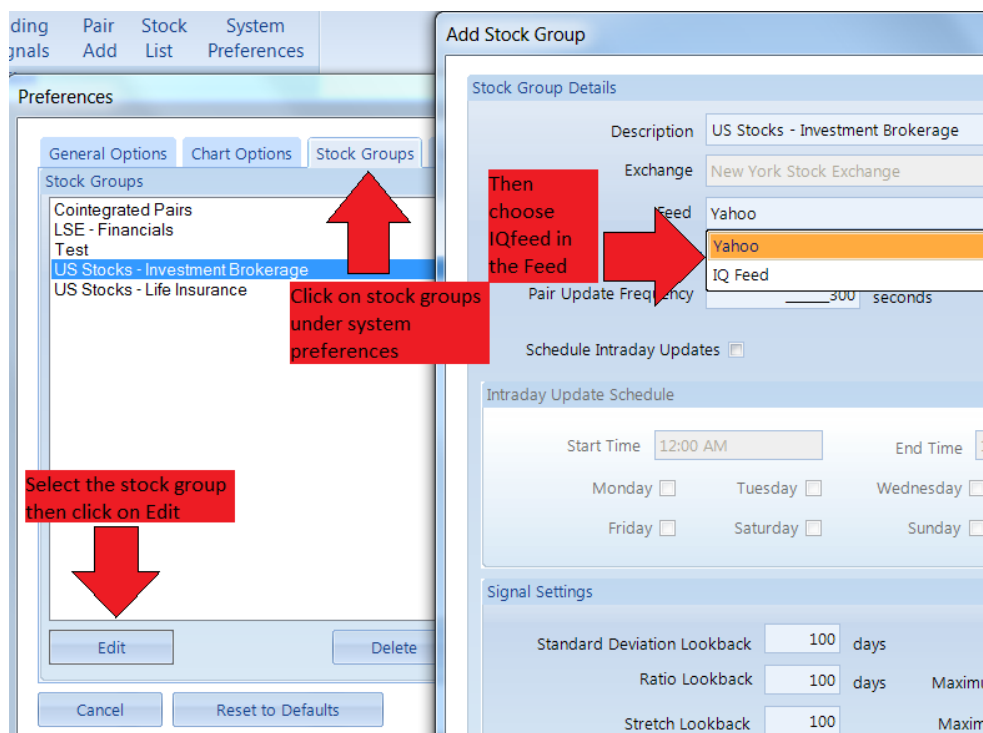
Signing up to IQfeed is a simple process. To get started complete their online free trial registration form, then download their software.

The screenshot shows the IQFeed website interface. At the top, there's a navigation bar with links for 'about', 'privacy', 'site map', and 'fee calculator'. Below this, a large banner features a quote from Jim: "I have to tell you though that using the IQFeed API is about the easiest and cleanest I have seen for some time." and another quote: "Can I get another account from you? I am tired of \*\*\*\*\* going". A welcome message for PairTrader Finder customers follows, mentioning a 24-hour customer support line. The main content area is divided into three columns: 'About IQFeed', 'Support', and 'Developers'. The 'About IQFeed' column lists 'Services', 'Fees', 'CME Exchange Fee Waiver', 'Compatible Software', and a prominent 'Get Free Trial Now' link. The 'Support' column includes 'Symbol Guide', 'Symbol Look-Up', 'Download Client', 'Support Forums', 'Live Chat', and 'Contacts'. The 'Developers' column has 'Developer Login' and 'Developer Registration' links. Red arrows point from the text in the previous block to the 'Get Free Trial Now' and 'Developer Registration' links. A red box with text 'After signing up, download the IQfeed software.' points to the 'Download Client' link.

Once you have signed up to IQfeed you will need to enable IQfeed in PTF, please click on system preferences, then enable IQfeed.



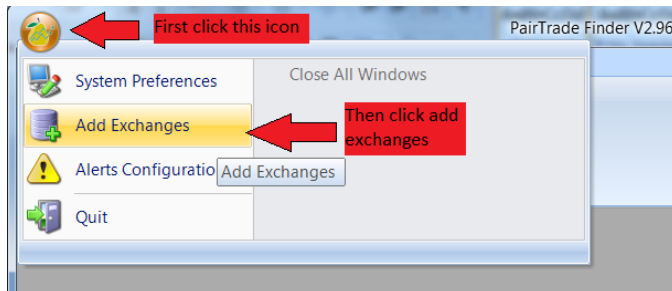
Then you will need to change your stock groups to IQfeed, this is done via the stock groups tab in system preferences.



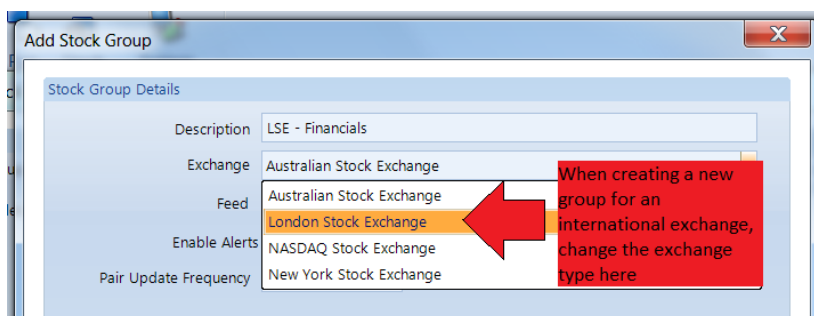
When creating new groups, don't forget to choose IQfeed there too.

## 3.2 Using PTF with International Stocks

Pairtrade Finder sources its data from yahoo finance by default; it is free 15 min delayed data automatically imported into the software. Alternatively you can subscribe to real time market data for US stocks, Canadian stocks, futures, options and forex via an IQfeed data subscription at [www.iqfeed.net/pairtradefinder](http://www.iqfeed.net/pairtradefinder) Yahoo finance supports the majority of international stock exchanges, you can find a list of supported exchanges in PTF [here](#). To add an international exchange to PTF, please click on the pair logo, then add exchange.



Next, scroll through the list and add an exchange, in this example we will add the London Stock exchange, after adding the exchange, when you create a new group, select this exchange as shown below.



Next, you will want to add relevant codes for that exchange, unless you know your local codes off by heart, go to your local yahoo finance page and look for the local index listing, in the LSE example this is the ^FTSE. Click on this index, and then click on components for stock codes as shown below.

YAHOO! FINANCE UK & IRELAND Welcome, Jared [Sign Out, My Account] the Web

MAKE FAST AND SECURE MONEY TRANSFERS TO MOST VISA CREDIT AND DEBIT CARDS OVERSEAS

Tuesday, 27 July 2010, 12:56pm - UK Markets close in 3 hours and 34 minutes.

Yahoo! Finance Home Investing Your Money Finance News & Comment My Portfolios

UK Activity International Funds Currencies Research & Education

Hot topics: FTSE100 FTSE250 All Share AIM Sector Indices Dow Jones Nasdaq Dax 30

Enter Company or Symbol UK [Get Quote] Search Y! Finance Search

**FTSE 100 (^FTSE)** At 12:41PM : 5,391

MORE ON ^FTSE

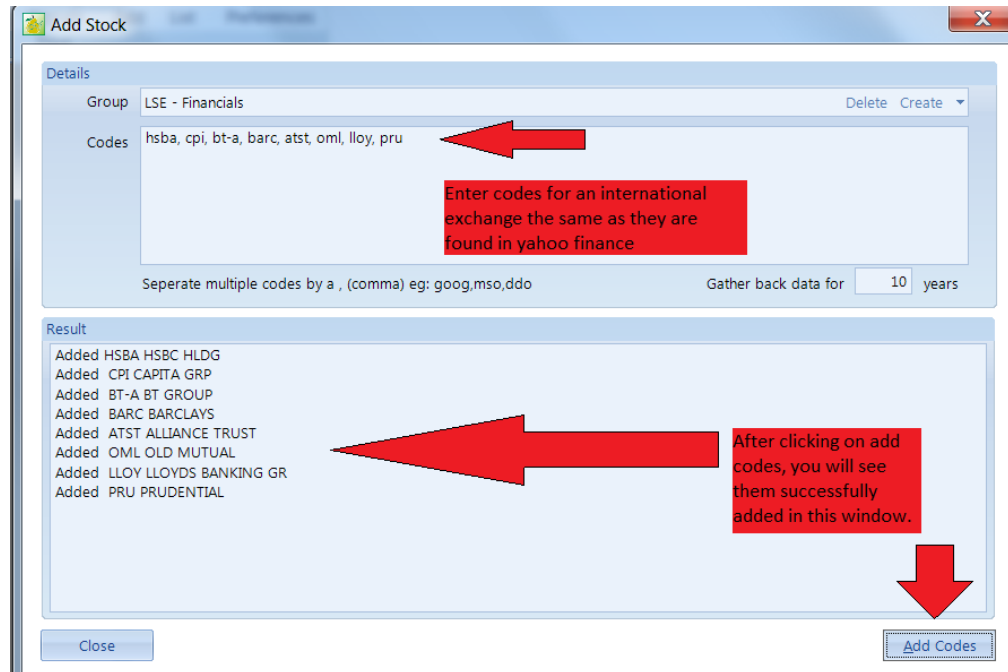
- Quotes
- Summary
- Components
- Historical Prices
- Charts
- Interactive
- Basic Chart
- Technical Charts
- News & Info
- Headlines

**Components** Get Components for

Click on components 1 - 50 of 102 | First | Previous | Next | Last

Symbol	Name	Last Trade	Change	Volume
AAL.L	ANGLO AMERICAN	2,550.50 p 12:40PM	↑ 11.50 (0.45%)	1,507,840
ABF.L	ASSOCIAT BRIT FOODS	1,090.00 p 12:39PM	↑ 4.00 (0.37%)	532,878
ABG.L	AFRICAN BARR GOLD	557.28 p 12:37PM	↑ 7.28 (1.32%)	533,275
ADM.L	ADMIRAL GROUP	1,600.00 p 12:41PM	↑ 6.00 (0.40%)	149,038
AGK.L	AGGREKO	34.00 (2.12%)	34.00 (2.12%)	242,053
AMEC.L	AMEC	1.50 (0.17%)	1.50 (0.17%)	280,105
ANTO.L	ANTO	7.00 (0.69%)	7.00 (0.69%)	788,798

After creating the new group for London stocks, you now have found financial related codes and want to add them as shown below.



Other indices you can type in the yahoo quote box, to find relevant codes are;

**^DJI** (Dow Jones Industrial – Top 30 US stocks)

**^SPX** (SP500 Index – Top 500 US Stocks)

**^GSPTSE** (TSX – Canadian Index)

**^AXJO** (ASX200 – Australian Index)

**^HSI** (Hang Seng – Hong Kong Stocks)

**^GDAXI** (DAX30 – Top German Stocks)

**^FCHI** (CAC 40 – Top France Stocks)

You can find an expanded list [here](#).

Any code you can find in yahoo finance, you can import into PTF, this opens you to a wide array of instruments along with IQfeed 600,000+ importable instruments makes it possible to literally import over 1 million different instruments into PTF. You can even import things like non tradeable indices like advance/decline line, tick, trin, etc....and compare them to indices, futures, options or anything you can think to pair with for some interesting results. The sky is the limit to possible combinations.

For example if you wanted to pair the France stock index against the German stock Index, you would create a group with NYSE as the exchange, and add codes **^FCHI** and **^GDAXI** (the same codes used in yahoo finance) you could then back test the performance of this pair for the past 10 years.

With over 1 million importable instruments, there are literally billions of possible pair combinations available to you at a click, do not under estimate the power of this software to analyse everything, if it moves, we can pair it and trade it. There is no other tool available to you that can do this.

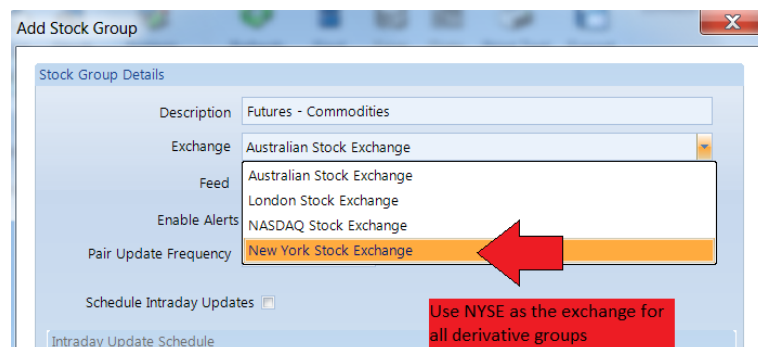
## 3.3 Using PTF with Futures and Commodities

PTF is primarily designed for pair trading stocks, however you can use to trade more exotic instruments aswell. We only recommend trading futures, commodities, options and FX to more experienced traders, new traders should learn how to pair trade stocks to begin with, before venturing into derivative products.

To use Pairtrade Finder with futures and commodities requires a data subscription from <http://www.iqfeed.net/pairtraderfinder> as per section 3.1 of this manual. Once you have a IQfeed subscription and the data feed enabled in PTF you can now import futures contracts. Please note that some exchanges require different subscriptions with IQfeed, the basic subscription does cover most contracts, however some require additional exchange subscriptions.

We will begin with an example of some of the most popular futures contracts available with the basic data subscription from IQfeed.

To start, create a group with NYSE as the specified exchange.



You will need to use [IQfeed symbol look-up guide](#) on their webpage to locate relevant contract codes. He are some codes for continuous futures contracts, that is they don't expire, you can front month contracts, however you will need to remove and add fresh contracts with every expiry cycle.

@BO# (soybean oil), @C# (corn), @GF# (feeder cattle), @HE (lean hogs), @RB# (random length lumber), @LE@ (live cattle), @O# (oats), @PB# (pork bellies), @S# (soybeans), @W# (wheat), @ZG# (gold), LRC# (robusta coffee), QC# (cocoa), QW# (white sugar)

You use the same codes as above and found in the IQfeed symbol look up guide to add into PTF.

You could also pair stocks against futures, for example you could compare gold stocks NEM, KGC, GG, and ABX against the gold futures @ZG #for some interesting trading opportunities. Just add your desired stocks into the same group as your futures contract then use the back tester as already shown.



## 3.4 Using PTF with Options

Just as above, you will need a IQfeed subscription to import options into PTF. Please read instructions in section 3.1 of this user manual on how to achieve this.

Please specify the NYSE as the exchange when creating a new group to house your option contracts. Then use the [IQfeed symbol look-up guide](#) to locate relevant option codes to import into PTF. As with stocks and futures, we highly recommend you only trade the most liquid contracts, with the case of options, this is mostly comprised of the SP100, that is the top 100 liquid stocks, you can trade other stocks in the SP500, however the more liquid the option, the tighter the spread and lower your trading costs.

When searching for options in IQfeed, specify OPRA as the exchange in the lookup window. Then specify index/equity options in the product field and type the stock code of the options you want displayed.

### SUPPORT: Symbol Lookup

You may [DOWNLOAD](#) a complete *tab-delimited* list of all symbols in a .txt format (file is .zip to provide a smaller download). File Updated: 08/07/2010 06:00:20 AM

The screenshot shows the 'Symbol Lookup' form. A red arrow points to the 'Search Text/String' field containing 'msft' with the label 'type in stock code here'. Another red arrow points to the 'Exchange' dropdown menu set to 'OPRA (347741)' with the label 'select OPRA here'. A third red arrow points to the 'Security Type' dropdown menu set to 'Index/Equity Option' with the label 'select Index/Equity Option here'. The form also includes a 'Records to Display' dropdown set to '250 records', a 'Search by' section with radio buttons for 'Name/Description' (selected), 'Symbol', 'SIC Code', and 'NAICS Code', and a 'Search Options' section with checkboxes for various filters. A 'Search' button is at the bottom. Below the form, a yellow box states 'Total Available Records: 666770'.

Displaying records 1-180 out of 180 total

these are the codes you can copy and paste into PTF...e.g.....MSFT1021H19 is the MSFT AUG 2010 CALL OPTION with a \$19 strike price

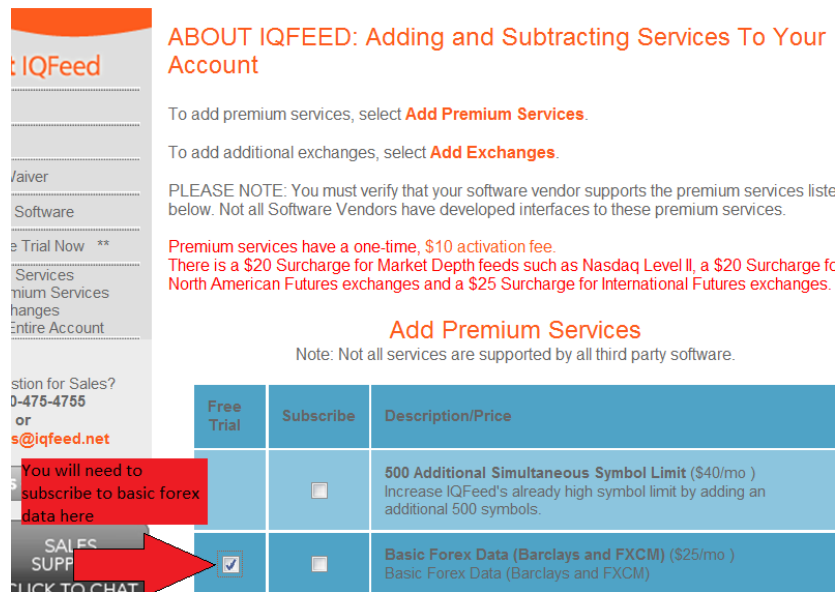
SYMBOL	DESCRIPTION	EXCHANGE	SECURITY TYPE	LISTED MARKET
MSFT1021H19	MSFT AUG 2010 C 19.000	OPRA	IEOPTION	OPRA
MSFT1021H20	MSFT AUG 2010 C 20.000	OPRA	IEOPTION	OPRA
MSFT1013H20	MSFT AUG 2010	OPRA	IEOPTION	OPRA

You can compare the underlying stock to the options too, by adding the stock code into the same group as the options, e.g.....you could add all the call options for MSFT into a group then add stock code MSFT aswell to backtest pairs of stock vs options. You could get even more creative by comparing the call options of MSFT against a similar business like ORCL or INTC, or compare MSFT call options against the stock of ORCL or INTC. The combinations are endless and only limited by your imagination.

## 3.5 Using PTF with Forex

You can import foreign currency into PTF. These are the spot instruments traded over the counter between large banks and with access offered via online brokers. There are many benefits to trading forex, including 24hrs deep liquidity, steady movements with limited price shocks, cheap access and high leverage. This can make trading forex very appealing to the online trader.

As with futures and options, you need an IQfeed subscription to import forex data into PTF, please refer to section 3.1 of this user manual for relevant instructions. In addition to the basic subscription you will need to subscribe to forex data in their premium services section.



**ABOUT IQFEED: Adding and Subtracting Services To Your Account**

To add premium services, select **Add Premium Services**.

To add additional exchanges, select **Add Exchanges**.

PLEASE NOTE: You must verify that your software vendor supports the premium services listed below. Not all Software Vendors have developed interfaces to these premium services.

Premium services have a one-time, \$10 activation fee.  
There is a \$20 Surcharge for Market Depth feeds such as Nasdaq Level II, a \$20 Surcharge for North American Futures exchanges and a \$25 Surcharge for International Futures exchanges.

**Add Premium Services**

Note: Not all services are supported by all third party software.

Free Trial	Subscribe	Description/Price
<input type="checkbox"/>	<input type="checkbox"/>	500 Additional Simultaneous Symbol Limit (\$40/mo ) Increase IQFeed's already high symbol limit by adding an additional 500 symbols.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Basic Forex Data (Barclays and FXCM) (\$25/mo ) Basic Forex Data (Barclays and FXCM)

**You will need to subscribe to basic forex data here**

**SALES SUPPORT**

**CLICK TO CHAT**

As with futures and options, please select NYSE in the exchange field when creating a new group to house your currency crosses. Shown below are the most liquid currency crosses and in the same format you would add them into PTF. For a full list of currency crosses you can add, please use the IQfeed symbol lookup guide and select FXCM as the exchange.

USDJPY.FXCM, EURUSD.FXCM, GBPUSD.FXCM, USDCHF.FXCM, AUDUSD.FXCM, NZDUSD.FXCM

You could add some interesting pairs with FX, like the EURUSD against the EUR futures, or against the euro ETF code FXE, to create riskless arbitrage opportunities. Also oil tends to move in line with the euro, as Europe is a major importer of oil and central banks consider it a high factor in their inflation models which affect interest rates, so you could pair the EURUSD against the crude oil futures contract or against oil ETFs like codes USO, OIL, or XLE.

Use the back tester as much as possible to find the best pairs which have performed the best over 1, 3 and 5 year periods. Make sure you only save the best performing pairs to your home page for monitoring.

Once again, the possibilities of pairs that you can create is never ending, you can find unique and exotic trading opportunities that only large hedge funds are used to enjoying. Pairtrade Finder is the only tool available to you that can do this.

## 4.1 Optimum Performance

Pairtrade Finder is a powerful program. No other software available crunches the same amount of data PTF does on the fly. The latest programming technologies have been used to allow this to happen. However there are limits on the amount of data you can import and back test at any given time. This largely depends on your computer RAM, chip speed, hard drive speed, internet connection and how many other programs you have running on your computer.

PTF can store and analyse more data than most trading software programs available. That is because we use separate 3<sup>rd</sup> party software, Microsoft SQL as a database for our data. PTF connects to your SQL database automatically and updates it minute by minute, and retrieves old data from there for back testing. Due the volume of data PTF crunches on the fly, you have to be aware of the limitations involved.

Typically speaking, you should be able to easily store 300 pairs in your home page and back test 20 stocks at once. This is plenty of capability, because you should be creating groups with 20 or less instruments to make sure there are of high correlation, so create a new group for each industry or instrument type. With default settings, each pair will produce on average 2.5 trades per year, so with 300 pairs, that is 750 trading signals per year. Some users have powerful PCs and can comfortably store over 1,000 pairs on their home page and back test 50 or more stocks at once. However if you find the program crashing during start up or during a back test, it is likely you have loaded too much data into the software.

We have found the optimum computer setup to be a brand name PC with 8gb of memory, quad core chip and windows 7 64 bit. This is not required to use PTF, however if you are a serious full time trader you may consider the above. Anything over 2gb of RAM and more than 1.5ghz of chip speed should allow you to enjoy PTF functionality without issue.

With regards to setting the update frequency in group settings, be careful using a high frequency like 5 seconds when having more than 200 pairs, by default the update frequency is 300 seconds, meaning PTF will fetch new data every 5 minutes, you can safely decrease this to 60 seconds with 200 pairs on your home page.

## 4.2 Trading Mentality Required

Your personal attitude required to succeed in pair trading is the same attitude required to succeed in any other style of trading or anything else in life. Every trading system or style will have drawdowns and soft patches, that's the nature of the beast. There is not one trading system that will produce profit, day in day out all the time, there will be times when market conditions aren't favourable for a particular trading style.

Anyone can handle winning, it's how you handle losing that matters. You can't control what happens, you can only control how you respond to what happens. The good thing with pair trading is naturally it has a high win rate around 70%, meaning 7 out of 10 trades will produce a profit, having a high win rate makes it easier to stick to a strategy. That doesn't mean you can't have 3 losing trades in a row, and you inevitably will at some stage if you trade long enough. What matters is your performance after 10, 20 or more trades. It's a game of numbers and you need to treat your trading like a business where your losses are your business costs, are your wins your business revenue, so long as you collect more revenue than costs after the quarter you have a profitable trading business.

By default, we are raised to believe that if you do something and it is wrong, that you must change something. This is a natural human reflex that is deeply ingrained in our psyche, this is also detrimental to successful trading. You have to continue to use the same method even if it isn't working. This is where most traders fail with trading systems, you can find a trading system with an excellent back test report and equity curve, however when the inevitable drawdown comes, the traders start chopping and changing things or even worse, completely abandon the method.

What you need to continue trading through a drawdown is confidence in your trading method. The advantage with pair trading, is that it is designed around a very robust strategy with sound logic. Pair trading is not a fly by night strategy that most online traders employ, it has been around for 100s of years and will continue to do so. It is not based on some voo-doo combination of the MACD, RSI, chart pattern and day of the week filters, which sometimes may produce good results, however trading systems like this aren't based on sound logic and when the drawdown comes you will have no conviction to continue trading it.

Successful pair trading, like anything else in life, requires planning, persistence and patience. You can't expect to become a millionaire overnight, it takes work and time to achieve. Plenty of practice and record keeping will help you get better at your craft. Try and learn as much as possible, ask other successful pair trader's questions and look for new ways to improve your trading. Pair trading is a method you can use to generate a consistent income and capital growth after you have mastered the basics.

If you are tired of chopping and changing your trading method, or looking for the non-existent holy grail, or sick of being promoted the latest "hot stock" then make it your objective to learn the pair trading method to the best of your ability and guided with our software and ongoing support you are significantly increasing your chances of becoming a successful trader and living a lifestyle most only dream about.

Pair trading does work over time as evidenced by the results in the back tester, if you stick to it, you will succeed, the impatient and greedy won't.

## 4.3 Diversification and Risk Management

Paying attention to risk is of utmost importance in trading. You have to ensure you won't take a drawdown above your psychological uncle point, for most traders this is 30%, after a 30% drawdown it becomes mentally hard to continue with the same method. Also smart risk management ensures your account won't take a big hit if any one trade goes sour. Every now and then you will take a large loss, this is part and parcel of trading, and something every trader has to deal with.

The first thing you want to decide is how much of your account you want to place in each trade. This is a function of your risk tolerance and the maximum amount of positions you will allow. Ideally you will place between 10-30% of your account in each trade. For example if you had a \$10,000 account, you may wish to buy \$2,000 stock and short \$2,000 at a time. With 2:1 overnight margin, this will allow you to have a maximum of 5 pair trades open ( $5 \times 4,000 = 20,000$ ).

Next, you want a diversified portfolio of pairs, look for opportunities in as many markets as possible, if you are just trading stocks, trade companies from a variety of industries. Even better would be to trade multiple asset classes, stocks, futures, options and forex. Of course you will need more trading capital and trading experience to trade multiple markets, this is something you can work towards.

You have to be careful with what stocks you trade, unlike with futures and forex which are large, liquid instruments, some stocks present much greater risks. For example a large blue chip company like Walmart (WMT) has significantly less risk inherent than say a small cap biotechnology company traded on the NASDAQ which doesn't have any revenue and trades only 50,000 shares per day, you shouldn't short stocks like this. Where possible, stick to the largest and most liquid stocks only.

When trading derivatives, use a % of your account position sizing rule, don't over leverage your account, the volatility in your trading account will become unbearable. The first goal of any investment program is to preserve your capital, next is to reduce account volatility then your aim to grow your capital above the risk-free rate offered in bonds. Focus on not exposing your account to great risks and the growth will come naturally. Good trading is all about being defensive, conservative and taking calculated risks.

Finally, be careful of the news surrounding stocks when trading. Don't place a trade several weeks before an earnings announcement, or make sure you don't have a position during the announcement, because if a company surprises on delivered earnings compared to what analysts and market expected, the stock price can and often does move large amounts. Use [yahoo finance](https://finance.yahoo.com) and [earnings.com](https://www.earnings.com) to check for stock news and upcoming earnings announcement dates.

## 5.1 Trouble shooting Installation Issues

Sometimes getting PTF installed for the first time can be tricky, this isn't due to our software, rather the strict system requirements set by Microsoft SQL, the database program PTF plugs into. SQL is very strict because it is mostly used by companies which house sensitive data they don't want employees to have access too. You have to be the computer administrator for full rights to be able to install SQL correctly.

The most common issue with users installation issues, is downloading the wrong SQL version relevant to their operating system, please check section 1.3 of this user manual for instructions on how to correctly identify your operating system and the relevant SQL version to install.

If you are having installation issues, please don't hesitate to contact us at [support@pairtraderfinder.com](mailto:support@pairtraderfinder.com) and we will respond to you very quickly with a possible solution to your issue.

If you would like, we also offer remote installation of our software on your computer, we provide this service free of charge.

## 5.2 Troubleshooting Running Issues in PTF

Pairtrade Finder is a very stable software program, which has been used for several years amongst thousands of traders. Most issues are due to local computer settings or something the user has done out of the ordinary.

For most issues, you can find answers at our support forum in the Q&A section at [www.pairtraderfinder.com/forum](http://www.pairtraderfinder.com/forum)

The most common issue with users from European or other non-US counties, is not being able to add stock codes, this is due to your computer date format not being compatible with PTF date format. To fix this issue, open your control panel, click on global and regional settings, then change your date format to MM/DD/YYYY and re-start PTF and try again, if that doesn't work try changing your date settings to DD/MM/YYYY and re-start again. Also you may wish to change your default currency to \$ and use 2 decimal (.) places.

If you find your software crashing during start up or a back test, you most likely have too many pairs saved in your home page or are back testing too many stocks at once. Due to the large amounts of data PTF crunches, you have to be aware of your computers limitations.

If you have any other issues running PTF properly, please don't hesitate to contact us at [support@pairtraderfinder.com](mailto:support@pairtraderfinder.com) and we will endeavour to help you at the earliest convenience.

## 5.3 Troubleshooting Data Issues

By default PTF uses free data automatically imported from yahoo finance. Data from yahoo finance comes from CSI data, a large reputable data company. 99% of the time it is reliable, even more so with large, liquid stocks. With smaller stocks the quality isn't so high, this is the give and take of free data. If you want 100% reliable clean data, you will have to subscribe to a data subscription from IQfeed as per section 3.1 of this user manual.

If you see large spikes in your price charts, one or more of your stocks may have become corrupted, this doesn't affect the trading signals at all, only the price chart. To fix this issue, simply delete the pairs, and the related stocks, then re-add the stocks back into the system. If you wish to force a new data grab for all of your pairs please follow instructions from Q&A thread "my price charts have large spikes in them" found in our support forum [www.pairtraderfinder.com/forum](http://www.pairtraderfinder.com/forum)

Apart from that, data is quite reliable and stable in PTF, our software runs very smoothly and efficiently.

If you have any other data issues, please don't hesitate to contact us at [support@pairtraderfinder.com](mailto:support@pairtraderfinder.com) and we will endeavour to help you at the earliest convenience.



## 6.1 Useful links to aide your Pair Trading

[www.iqfeed.net/pairtradefinder](http://www.iqfeed.net/pairtradefinder) - Quality, reliable and clean data you can import into PTF.

[www.mechtrading.com/qcollector/dtn/index.htm](http://www.mechtrading.com/qcollector/dtn/index.htm) - A cheap and simple program you can use with your IQfeed subscription to be able to download historical data into MSII or CSV format, so you can import into other software programs or a spread sheet. You can download data in any time interval (1min, 18min, 1day, etc..) and going back 10 years for some instruments.

[www.yahoo.com/finance](http://www.yahoo.com/finance) - Possibly the best free finance website on the net, you can type in just about any code for any instrument around the world and pull up charts and analysis for. Use yahoo finance to check for any stock related news that may be affecting the price, upgrades/downgrades, earnings, take overs, won/lost contracts, litigation, earnings guidance, CEO appearances.

[www.pairtradefinder.com/forum](http://www.pairtradefinder.com/forum) - Our own forum for PTF users to converse with one another. Please don't forget to email us after joining to confirm your user name so we can activate it.

[www.earnings.com](http://www.earnings.com) – A free service for traders to look up earnings announcements dates for US stocks, you don't want to place trades right before an earnings announcements, this is the place to check for that.

[www.interactivebrokers.com](http://www.interactivebrokers.com) – Possibly the best online broker in the world. Available to traders all over the world, you can trade over 80 different markets all from one platform. IB has the cheapest overnight financing rates and commission fees than other online brokers.

To see a full list of useful links please visit [www.pairtradefinder.com/articles.php](http://www.pairtradefinder.com/articles.php)

This concludes the Pairtrade Finder user manual.

We hope you enjoy using our software and are certain it will be a valuable tool to improve your trading for many years to come. You have 30 days to use our software before the free trial will expire, you cannot download another free trial as our system recognises your IP address and blocks it. You will need to purchase a license key before your free trial is over to continue using our software.

With every lifetime license, you don't just get the best pair trading software available, you also get ongoing upgrades and support from a team of professional traders and programmers.

If you have any questions or suggestions for us please don't hesitate to email us at [support@pairtradefinder.com](mailto:support@pairtradefinder.com) and we would be happy to help you.

We look forward to you becoming part of the large and growing online pair trading community.

Happy Trading!

Jared Mann and the team at [www.PairTradeFinder.com](http://www.PairTradeFinder.com)

