# The Use of Exchange Traded Funds By Hedge Funds

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## Assessing and Isolating Risk

#### Cash

Currency Risk, Opportunity Risk

Fixed Income

Duration Risk, Credit Risk, Interest Rate Risk

**Equities** 

Market Risk, Company Risk, Industry Risk

Hard Assets

Liquidity Risk, Financing Risk, Tax Risk

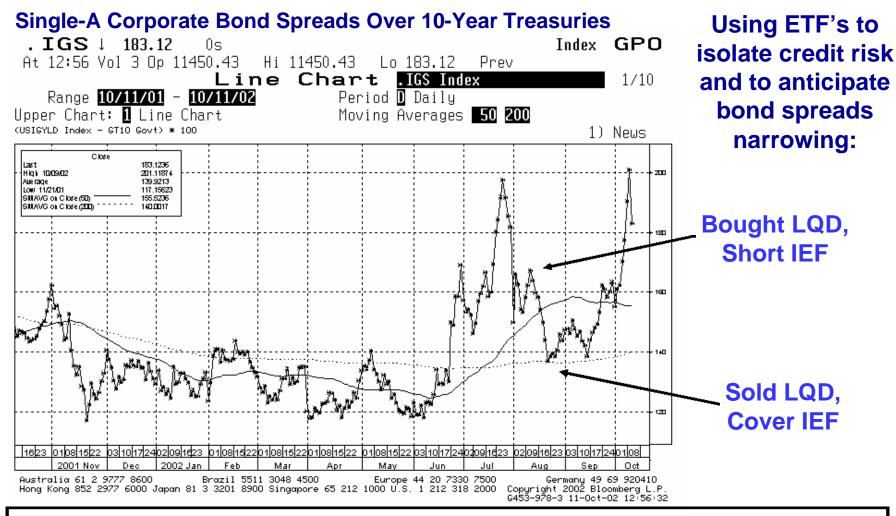


#### Risk Isolation Techniques

- Market neutral / Pairs trading
- Macroeconomic
- Derivatives / Delta management
- Volatility / Beta management
- Tax management



#### Pairs Trading with ETFs: Bonds



LQD: iShares Goldman Sachs InvesTop Corporate Bond Fund IEF: iShares Lehman 7-10 Year Treasury Bond Fund

### Pairs Trading with ETFs: Equity



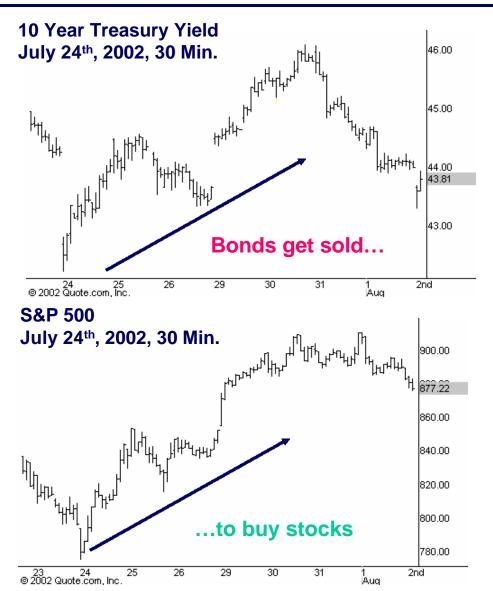






**SMH: Semiconductor HOLDR** 

#### Macroeconomic Trades Using ETFs



**Asset Allocation Program Sell Bonds to Buy Stocks** 

Using ETF's to isolate macro risk:
Short IEF, Long SPY

IEF: iShares 7-10 Yr T-Bond Fund SPY: S&P 500 ETF

### Delta Management with ETF's

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SPX S&P 500 INDEX			13:32 Hedge: <b>[</b>				model defaults			
839.64 +4.	15		Div pt 1.4	17 Days	<b>33</b> F	in Ra	ate	1.56	Volat:	36.09
		LAST TR	ADE INFO	IMPL	.VOLAT	H	HEDGE		*THEORE	TICAL
SPX Nov 02	Bid	Ask	Last Chnge	e Bid	Ask	Del	Gam	Vega	Price	Diff
1) WE 725	6.10	6.80	6.8070	42.17	43.60	115	002	.50	3.48	-2.97
2) WH 740	7.80	8.80	9.5050		42.78	144	002	.58	5.21	-3.09
3) WJ 750	9.20	10.20	9.50 -1.20	40.34	41.93	166	002	.64	6.70	-3.00
4) WL 760	10.50	12.10	12.30 -1.20	39.18	41.52	190	003	.69	8.48	-2.82
5) WN 770	12.30	13.90	15.5050	38.46	40.62	216	003	.75	10.60	-2.50
6) WO 775	13.30	14.90	13.50 -1.80	38.10	40.18	231	003	.77	11.80	-2.30
7) WP 780	14.40	16.00	20.50 unch	37.78	39.79	246	003	.80	13.08	-2.12
8) WR 790	16.80	18.40	17.00 -2.00	37.10	38.99	278	003	.85	15.95	-1.65
9) WT 800	19.50	21.10	19.50 -2.00	36.39	38.18	314	004	.90	19.23	-1.07
10) UE 925	27.80	29.60	28.10 -2.60	34.56	36.39	414	004	.98	29.30	+.60
11) WH 840	33.90	35.90	35.00 -4.90	33.34	35.33	481	005	1.01	36.67	+1.77
[2] [J.] 85]]	: RB. 711	411. 711	39.411 -5.91	1:37.69	34.БВ	· 5/8	11115	1.1111	: 47.17	+/.4/ •

Example: Purchase 100 SPX 840 Puts @ 35.90

Delta = 0.481 so put contract will move \$0.48 for every 1 SPX point

For every 1 contract, must buy 481 SPY.

In order to hedge 100 puts, must currently buy 48,100 SPY

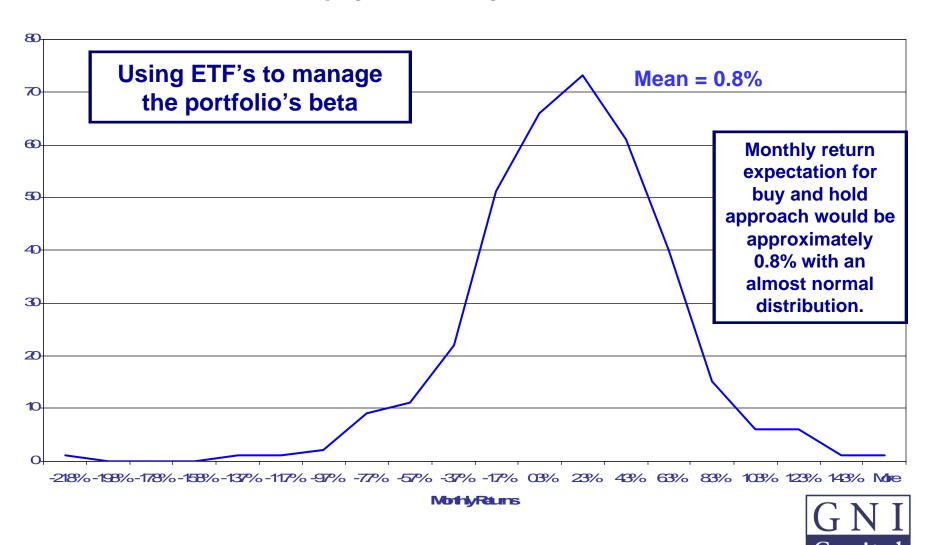
Manage delta as SPX moves and delta changes.

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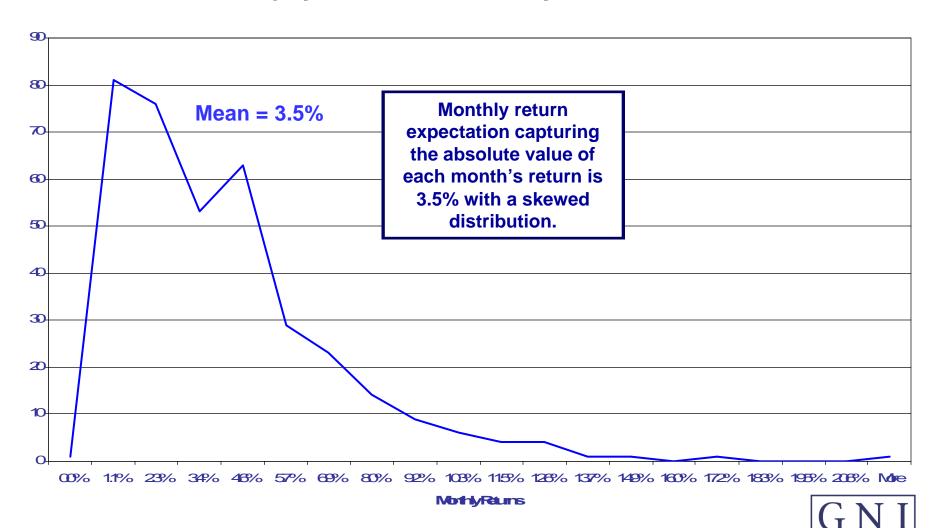
### Beta Management with ETF's

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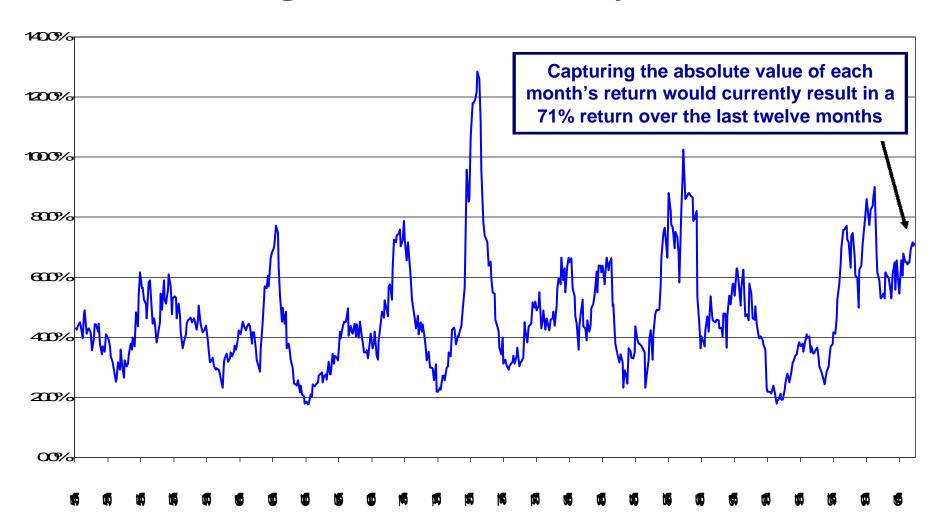
## Absolute Value of Monthly Returns

#### Fietpero, Distribution of Assilute Value of Worth 1857 Returns

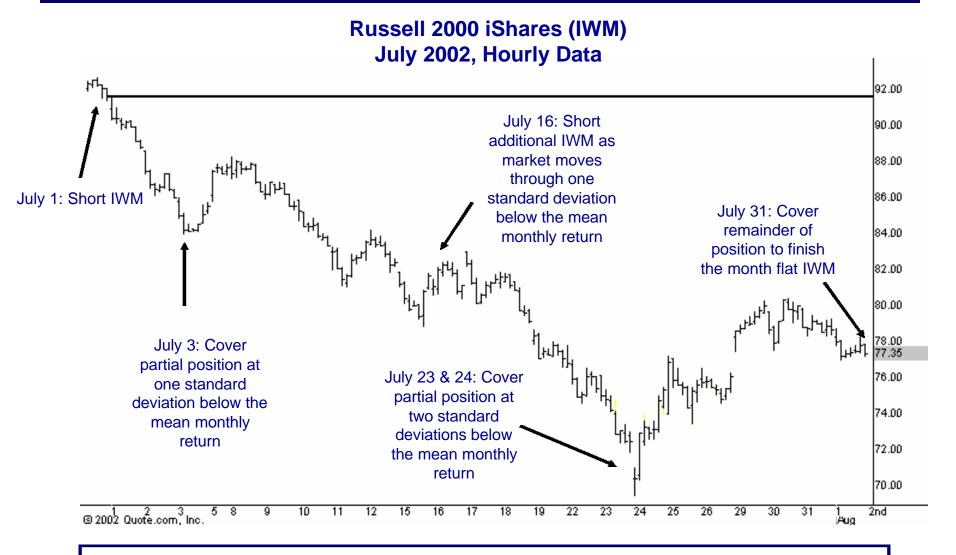


# Capturing The Absolute Value

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## Absolute Value Strategy at Work



In July, IWM was highly correlated with portfolio's long exposure. Since the Russell 2000 was down in July, we traded IWM from the short side as a hedge.

#### Tax Management with ETFs

#### Situation:

- Client sold family business to ESOP plan of a public company in a 1042 Rollover transaction.
- Deferred capital gains tax if a qualified replacement asset is purchased.
- Qualified assets, in this case, were securities of domestic public companies.
- Client Concerns:
  - Tax Deferral, Capital Preservation, Income



### Tax Management with ETFs

#### Possible Solutions:

- Buy long term floating rate notes.
- Buy non-callable long-term corporate bonds and hedge interest rate risk with Fixed Income ETFs.





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