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September 13, 2023

Market Structure EDGE

How Many Rich Technical Traders Do You Know? Why Market Structure Is Key Trader Knowledge

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Founder & CEO Market Structure EDGE

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How Many Rich Technical Traders Do You Know?

Why Market Structure is Key Trader Knowledge

Tim Quast, founder and CEO of Market Structure EDGE Sep 13, 2023





I don't know much. But I do know market structure!

Image: Youtube, CNBC, Tim Quast's appearance on Last Call with Brian Sullivan, Aug 15, 2023



- Tim Quast founder of two market structure analytics firms
- ModernIR.com Market leader, quantitative equity Market Structure Analytics for US issuers
- Market Structure EDGE Only quantitative Supply and Demand data for traders

TRACK record

We are nationally recognized experts on US equity market structure, and have grown into industry educators and thought leaders. We frequently serve as financial media experts and have provided written testimony on market structure for Congress.



Longtime top national, chapter sponsors of the investor-relations professional association, NIRI. When you think of successful investors, who comes to mind? Warren Buffett? Someone else?

How about rich technical traders?



How about these people?

Ken Griffin, Jeff Yass, Tim Reynolds, Jim Simons, John Overdeck, David Siegel, David Shaw, Ed Bosarge





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We are a global liquidity provider and trading firm that uses sophisticated quantitative analysis and a deep understanding of market mechanics to help keep prices consistent and reliable.

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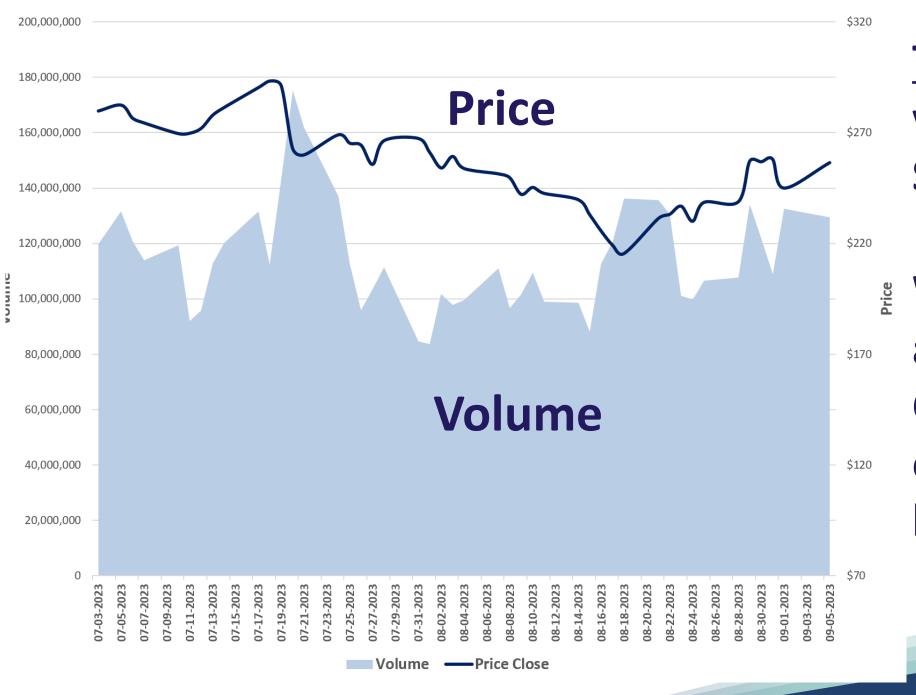
Deep understanding of market mechanics. Quantitative data.



The single most important question for all traders:

How does the stock market work?



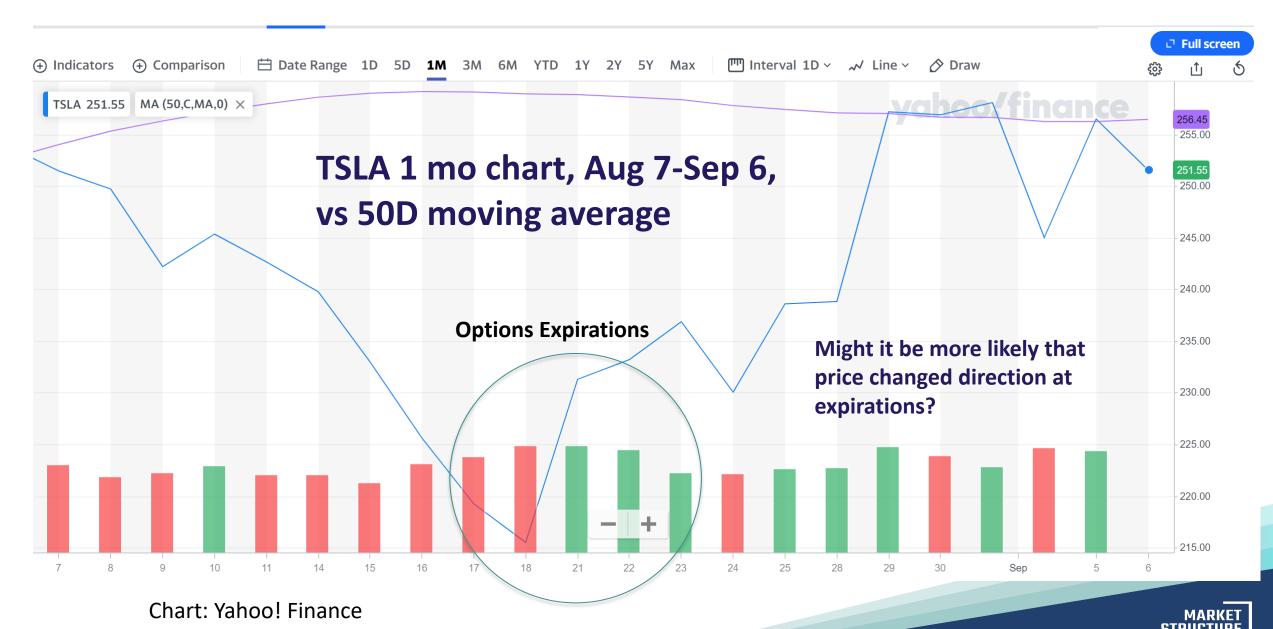


TSLA price and volume Jul 3-Sep 5, 2023

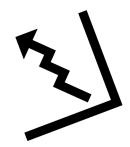
What are price and volume?
Consequences of behaviors behind them.

Chart data: QuoteMedia





There is little meaning in price, volume, moving averages, by themselves.







The Root Cause of Behavioral Change: Reg NMS

Regulation National Market System (2007):

- Forced stocks to trade at a single best price marketwide: Nat'l Best Bid/Offer (NBBO)
- Eliminated exchange customer-preference
- Forced exchanges to share prices, customers
- Imposed rules that spawned a focus on selling data, and changing stock quotes, prices
- Imposed a Continuous Auction Market

Regulates:

- Quotes
- Prices
- Data
- Access to all three



Money is Motivated by Different Purposes, Horizons



Horizon: 1-25+ yrs

Active Investment (10%)
Institutional Investors

Capital Research
American Century
Wellington
T Rowe Price

Source: ModernIR.com research

passive

Characteristics similar to other stocks

Horizon: Weeks

Passive Investment (20%)
Index Funds, ETFs, Quant Funds

Blackrock
Vanguard
State Street
Invesco
UBS
JP Morgan
Morgan Stanley
Fidelity
Renaissance Technologies
Worldquant

fast trading

Profit on price differences in securities

Horizon: A day or less

Fast Trading (52%)

High Frequency Trading Strategies

Citadel Jane Street Susquehanna Quantlab

risk management

Leverage/Protect with derivatives

Horizon: days to months

Risk Management (18%)

Options, forwards, futures

Millennium Partners
Point72
Bridgewater
AQR



The market is short-term, volatile, because 90% of the money buying and selling stocks has horizons ranging from a day to months.

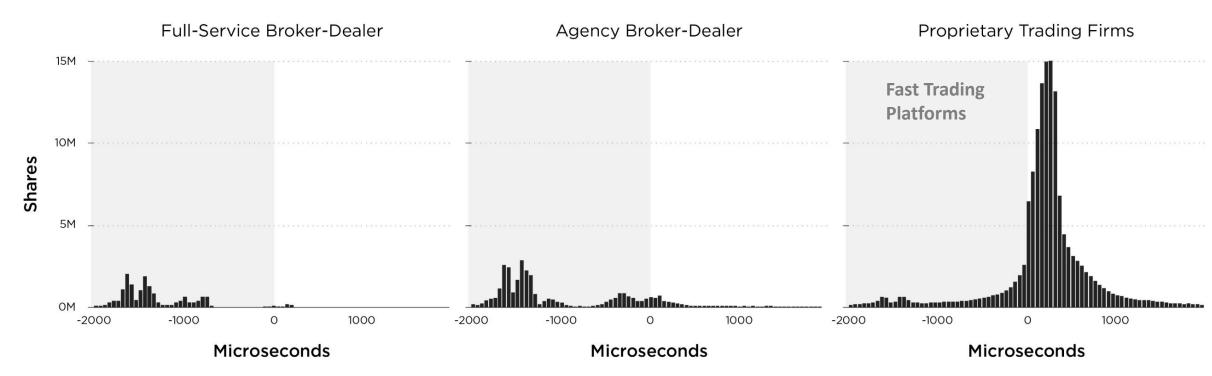




Fast Traders Are Vastly More Responsive to Price Changes Than Brokers with Customers



Aggressive Shares Within 2 Milliseconds of Signal Prediction



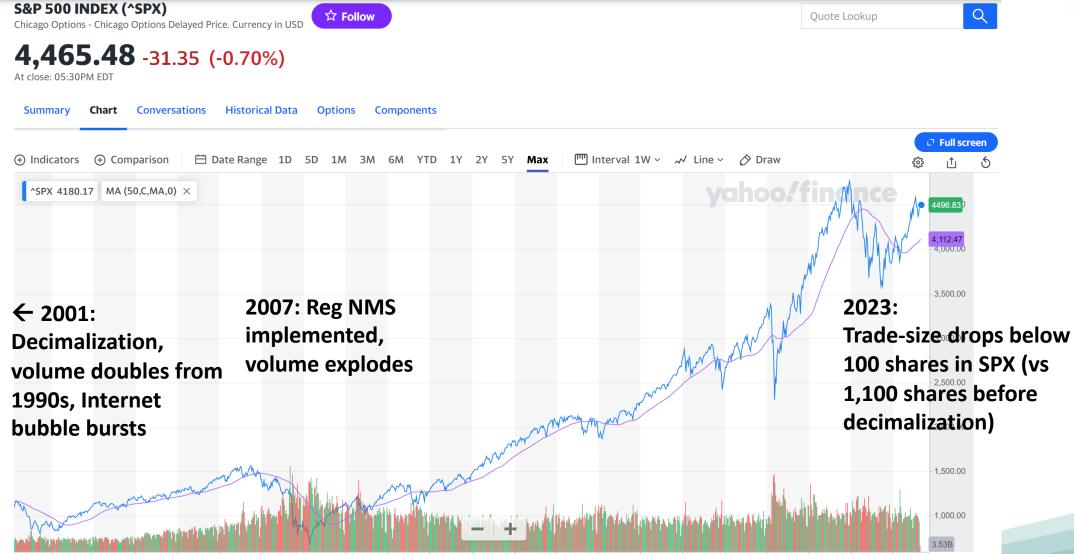
What matters is not why YOU buy or sell, but the motivation of the party buying from you, or selling to you.

Source: IEXTrading.com, Spring 2020



S&P 500 Index: 1998-2023





Technical signals lack reliable predictive value because they treat all PRICES as equal, and they don't account for modern market RULES.

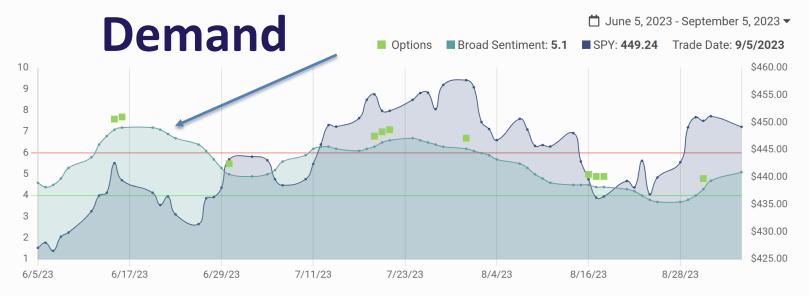


Know these three things:

- 1. Broad Market Demand and Supply
- 2. Context: The market's calendar
- 3. Demand/Supply divergences



Broad Sentiment, the EDGE risk-management tool, reflects average Market Structure Sentiment™ (Demand) for composite S&P 500 stocks versus the price of SPY, the State Street S&P 500 ETF. Green squares show monthly options and futures expirations.

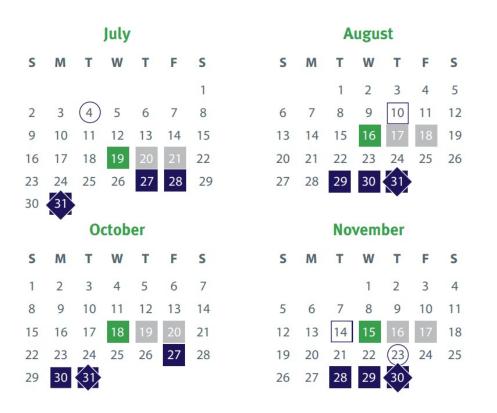


Short Volume (Supply) is the average percentage of daily volume in S&P 500 stocks that's short (borrowed, created by market-makers).



PRICE is not predictive. Supply and Demand are.





September												
S	M	T	W	Т	F	S						
					1	2						
3	4	5	6	7	8	9						
10	11	12	13	14	15	16						
17	18	19	20		22							
24	25	26	27	28	29	30						
							_					

December												
	S	M	T	W	Т	F	S					
						1	2					
	3	4	5	6	7	8	9					
		11										
	17	18	19	20	21	22	23					
	24	25)	26	27	28	29	30					
	31											

Monthly expirations recalibrate hedges for about 18% of US equity market capitalization.

It's a BIG deal.

- O Exchange holiday: markets closed
- Options expirations: stocks, indexes, currencies, interest rates, treasuries
- VIX (Volatility Index) options expirations
- S&P quarterly rebalances: quarterly share updates to S&P 500, Mid-cap 400, Small-cap 600, Total Market
- MSCI Barra Rebalances: announcement and effective date of quarterly changes to Morgan Stanley/Barra quantitative theme and strategy indexes
- Russell Rebalances: annual reconstitution of Russell indexes; rankings May, estimates early June, final late June
- Month-end portfolio balancing: poor time for good news/good time for bad news
- LEAPS expirations: S&P futures for long term portfolio hedges
- S&P 500 End of Month (EOM) options expire





What Are "Supply" and "Demand"?

Demand. An algorithm called "Market Structure Sentiment" metering buying and selling by investors under rules governing quotes and trades in US stocks. It's a predictive mathematical calculation of the velocity of short-run price-movement driven by behavioral change and normalized to a scale of 1-10 with 1 being negative but oversold and 10 being positive but overbought. It's the DEMAND read, and Demand over 5.0 tends to produce rising stocks and markets, and vice versa.

Supply. Short volume is the percentage of trading volume predicated on borrowed stock. It derives from 2010 Reg SHO modified-uptick rules for shorting stocks, is regulated by Finra, and includes market-making exemptions to short-locate rules under Reg SHO Rule 203b(2).



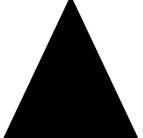
Demand Supply

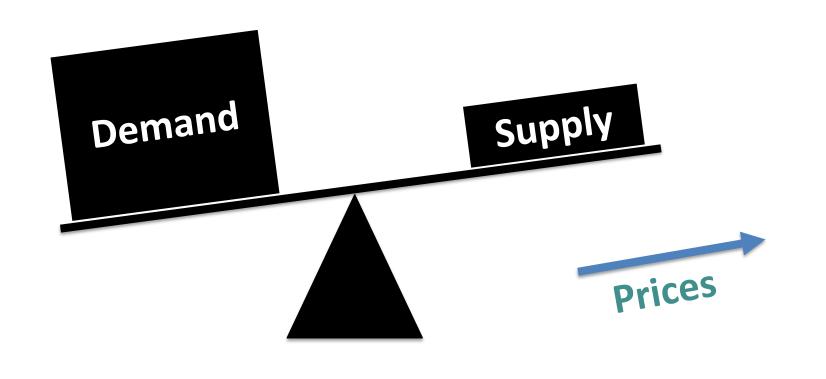
Active Investment (10%)

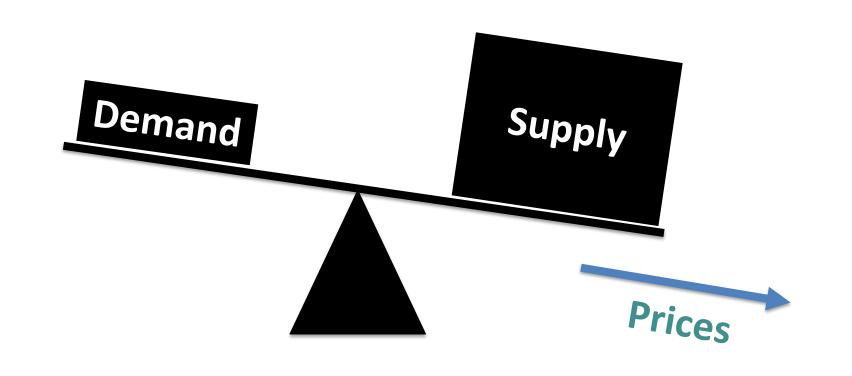
Passive Investment (20%)

Fast Trading (52%)

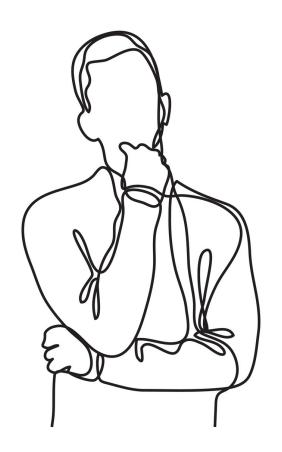
Risk Mgmt (18%)







Why Market Structure Knowledge is Key for Traders:



- 1. Technical indicators predate market rules
- 2. 90% of volume has a horizon of a day to months
- 3. What matters is the motivation of your counterparty not YOUR motivation

performance. Conclusions are not advice but statistical observations in data from Market Structure EDGE LLC.

Past performance is no guarantee of future

Courtesy: Illustration <u>131636307</u> / <u>Thinking Man</u> © <u>OneLineStock</u> | <u>Dreamstime.com</u>



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