High Fier 1 Alpha Market Research Tools Market Structure Report

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HEDGEYE

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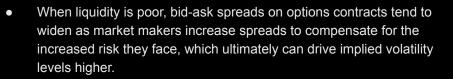
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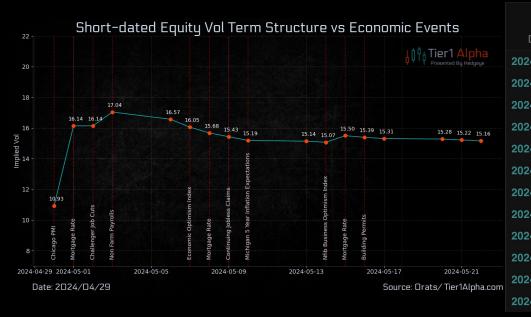
Summary:

- Dealers remain in a neutral setup, which implies they are broadly well-hedged around the current levels. However, market makers are still broadly short-gamma, as our GEX flipping point shifted higher to the 5136 level.
- The 5100 strike is expected to remain the focal point in the near term.
 However, we want to reiterate the steepness of our Gamma curve, which indicates that a quick visit to the 5000 strike is still a possibility.
- Structurally, if the market moves lower, dealers would be forced to aggressively sell futures to hedge their delta exposure, likely accelerating the move back down to those levels.
- We're not sure if that bearish setup will materialize or not, but at this
 point, we cannot rule it out either, so stay cautious of any downside
 moves.
- Surprisingly, SPX options volume was exceptionally low yesterday, which we believe contributed to a modest rise in fixed strike volatility.

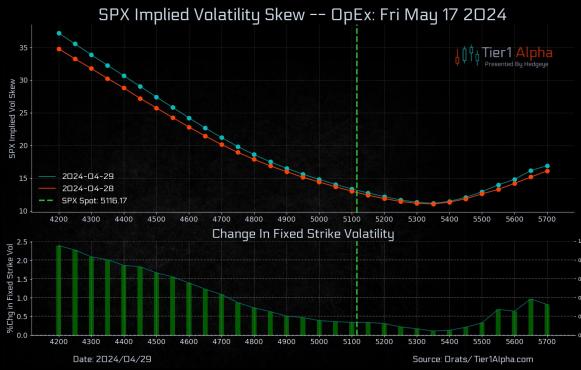


- Going forward, it will be much harder for both the 1-month and 3-month realized volatilities to move much higher, as several volatile returns will be dropping out of the sample.
- As realized volatility falls, Vol control strategies will be forced to mechanically increase their equity allocations in order to maintain their predefined volatility targets, which usually range from 10-15%.
- Over that time frame, we're also expecting CTAs to continue building back their equity allocations, which together will introduce some much-needed bullish flow into the market.
- That said, it's important to keep an eye on realized volatility levels, as any larger increases driven by negative gamma, or an exogenous event, could quickly derail these supportive flows.

Volatility Regime:	Low	Neutral	High
Flow Risk:	Bullish	Neutral	Bearish
PV Band Risk/Reward:	Long	Neutral	Short

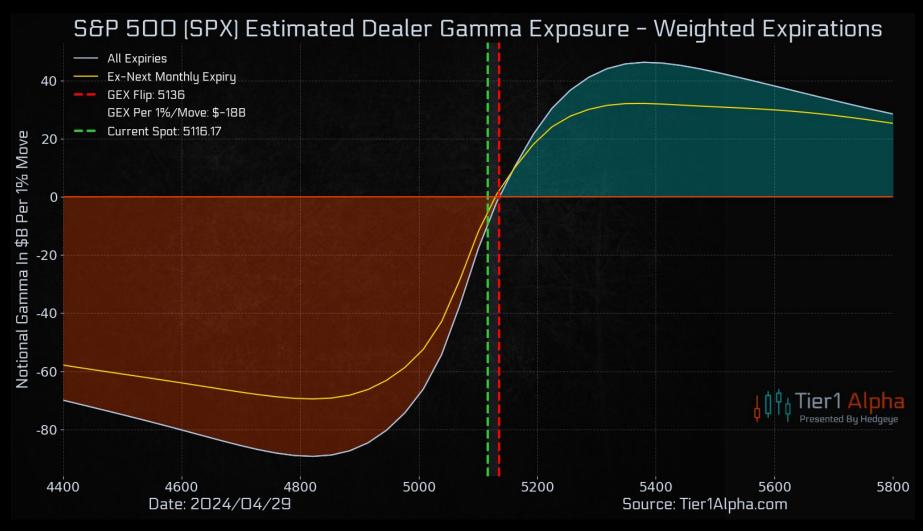


	Economic Event Lalendar								
Date	Event	Estimate	Previous	Impact	SPX IV				
24-04-30	Chicago PMI	44.9	41.4	medium	10.93				
24-05-01	Mortgage Rate		7.24	low	15.95				
24-05-01	Mortgage Applications		-2.7	low	15.95				
24-05-01	MBA Mortgage Refinance Index		472.7	low	15.95				
24-05-01	MBA Purchase Index		144.2	low	15.95				
24-05-01	Manufacturing PMI	49.9	51.9	medium	15.95				
24-05-01	ISM Manufacturing Employment		47.4	medium	15.95				
24-05-01	ISM Manufacturing New Orders		51.4	low	15.95				
24-05-01	Business Confidence	50.1	50.3	high	15.95				
24-05-01	ISM Manufacturing Prices	55.6	55.8	low	15.95				
24-05-01	Job Offers	8.68	8.756	high	15.95				
4-05-02	Challenger Job Cuts		90.309	low	15.96				



SPX Implied Volatility with Fixed Strike Vol									
Expiration	Fri May	17 2024	Fri Jun	212024	Fri Jul 1	19 2024			
Strike	Implied Vol	FSV Change	Implied Vol	FSV Change	Implied Vol	FSV Change			
4400.0	28.8	0.28	23.61	-0.29	20.27				
4450.0	27.21	0.16	22.71						
4500.0		0.1	21.86		18.95				
4550.0	24.27		21.02		18.31				
4600.0	22.82		20.23						
4650.0	21.45		19.48						
4700.0	20.13		18.73		16.5				
4750.0	18.95			-0.28					
4800.0			17.34						
4850.0	16.87		16.66		14.88				
4900.0	15.99		16.02	-0.26	14.37				
4950.0	15.14		15.42						
5000.0	14.41		14.81		13.47				
5050.0	13.69		14.24						
5100.0			13.69		12.67				
5150.0	12.4		13.18		12.32				
5200.0	11.87	-0.45	12.74	-0.18	12.01	-0.09			
5250.0	11.44		12.32						
5300.0	11.15		11.96		11.51				
5350.0	11.05		11.64						
5400.0			11.36		11.14				
5450.0	11.85		11.13		11.0				
5500.0	12.6	0.23							
5550.0	13.29	0.33	10.81						
5600.0	14.19	0.35							
5650.0	15.19	0.38			11.05				
5700.0	16.1	0.12	11.1		11.19	0.03			

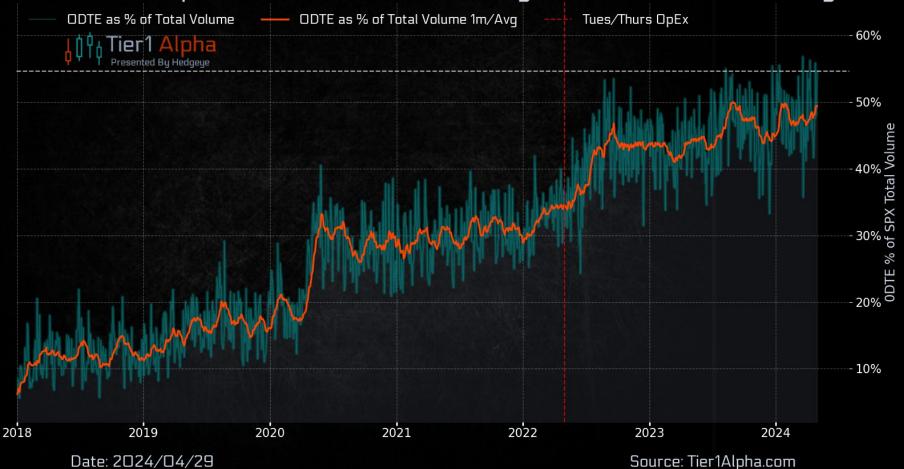


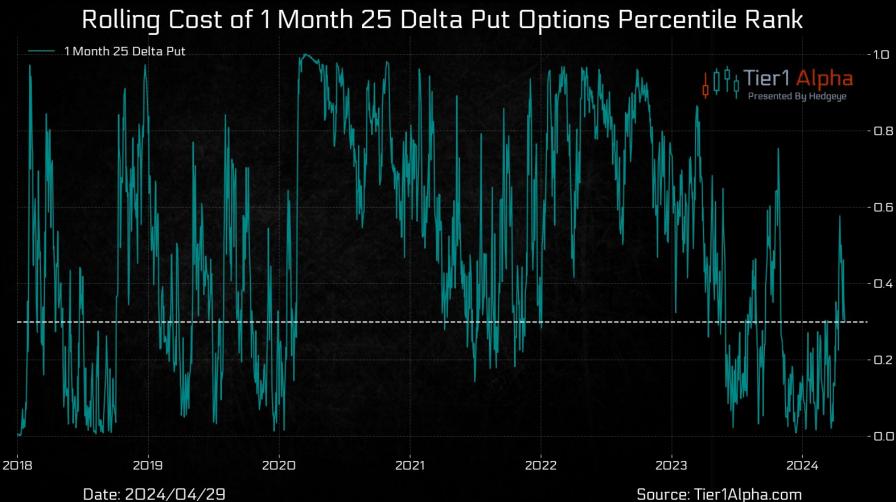


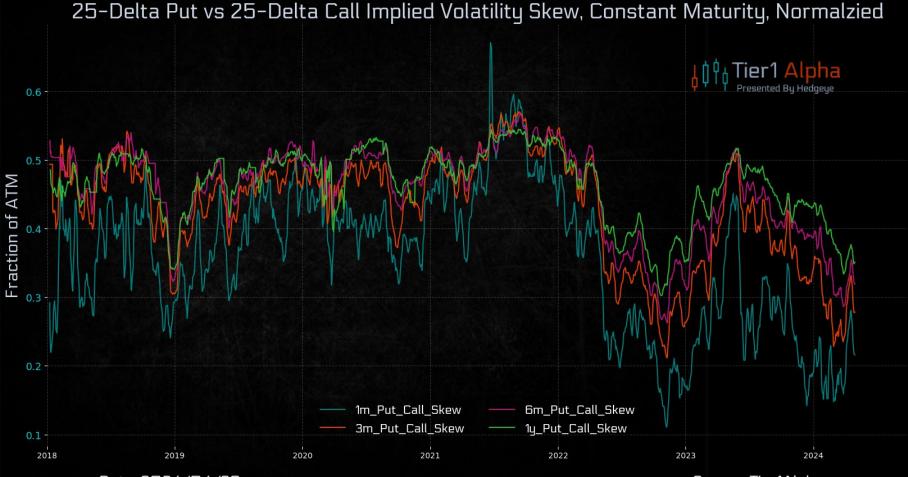
SPX Dealer Gamma Exposure By Regime



ODTE SPX Option Volume as a Percentage of Total Volume 1m Avg.





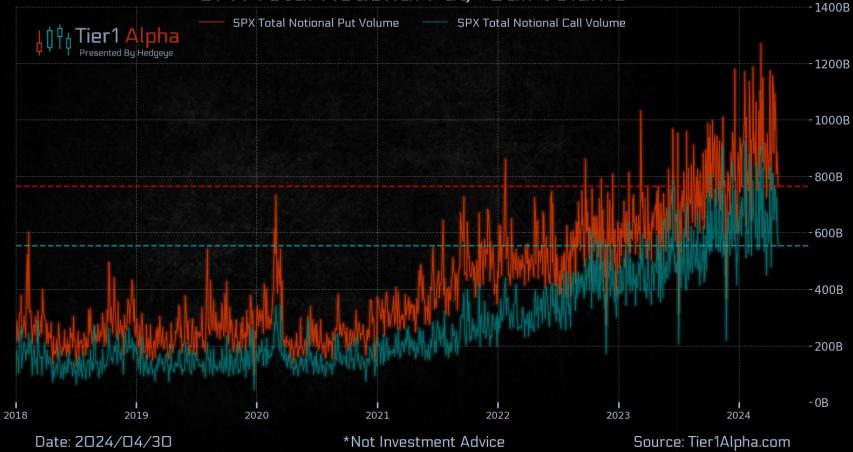


Date: 2024/04/29

Source: Tier1Alpha.com

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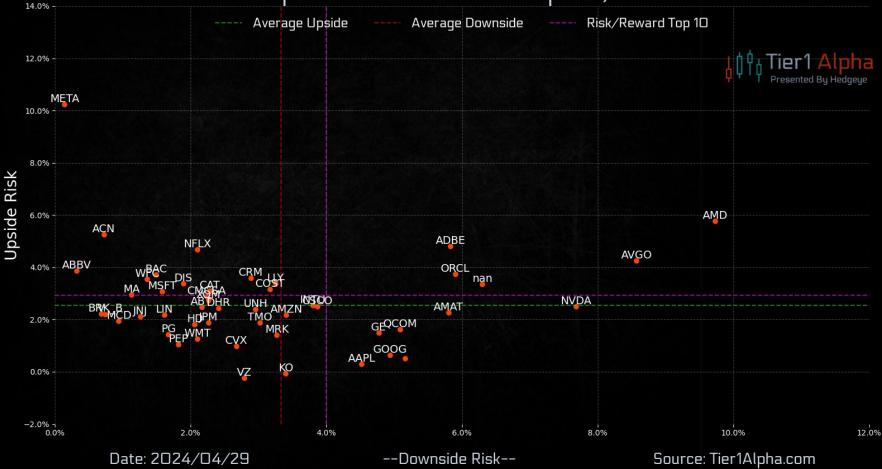
SPX Total Notional Put/ Call Volume

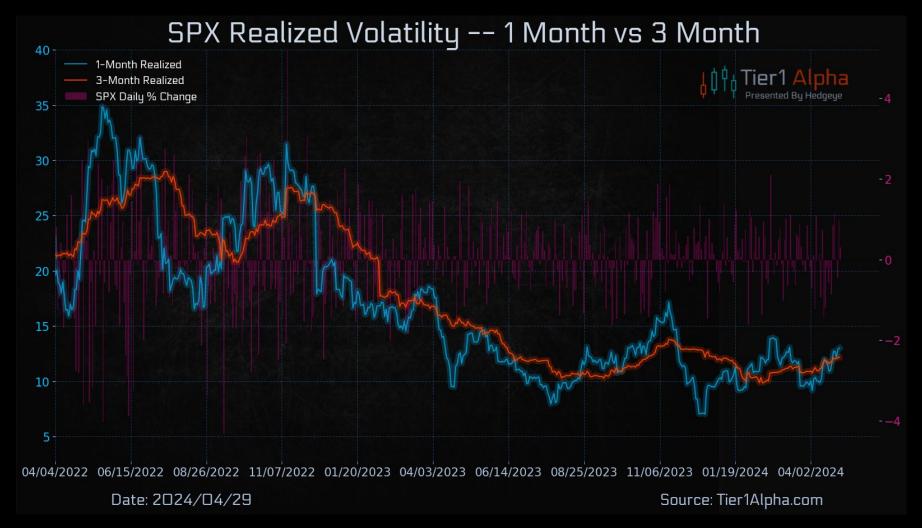


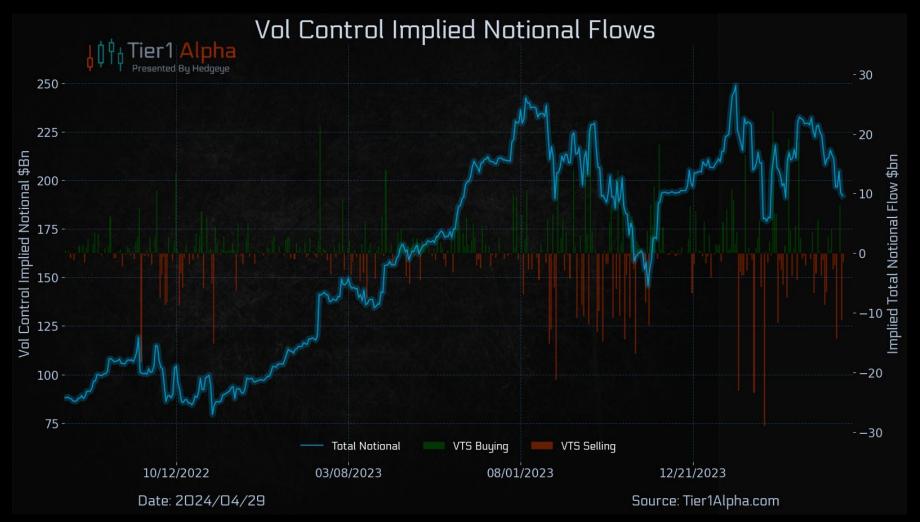


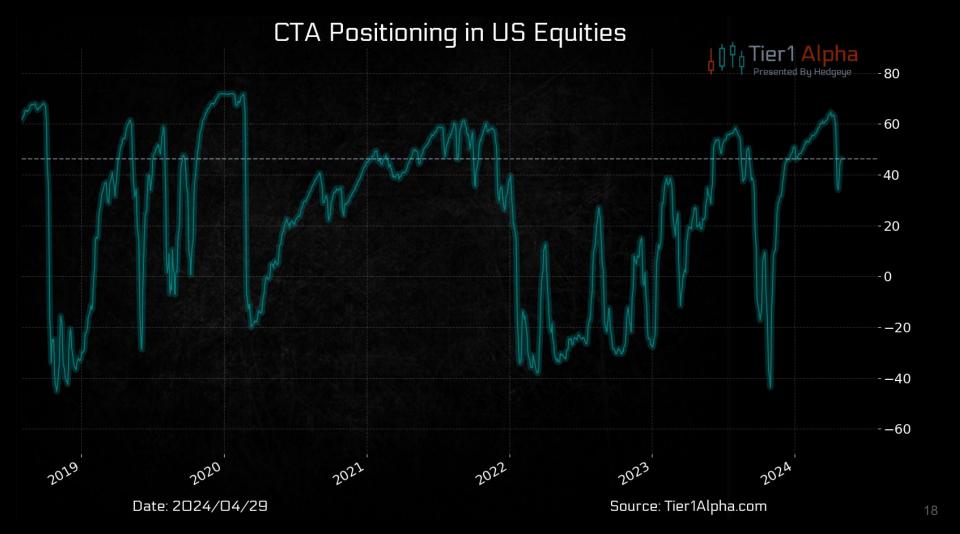


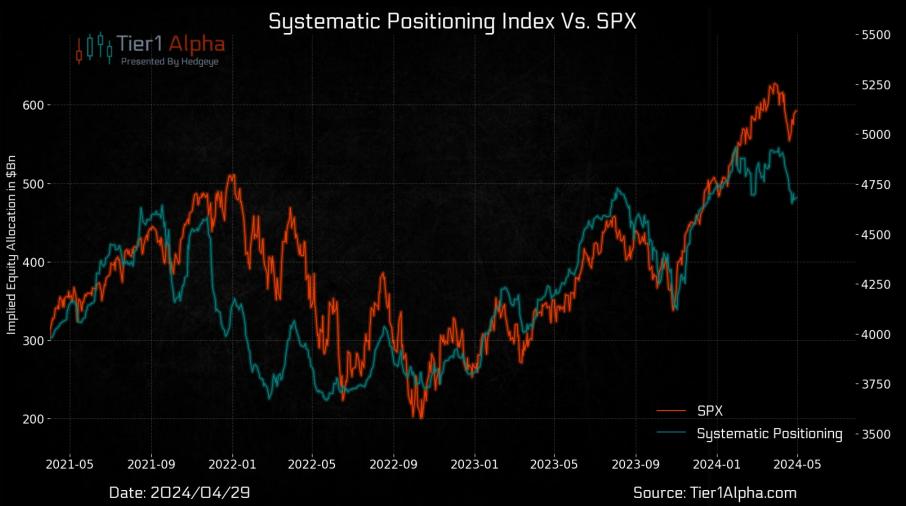
S&P 500 Top 50 Stocks: PV Bands Upside/ Downside Risk







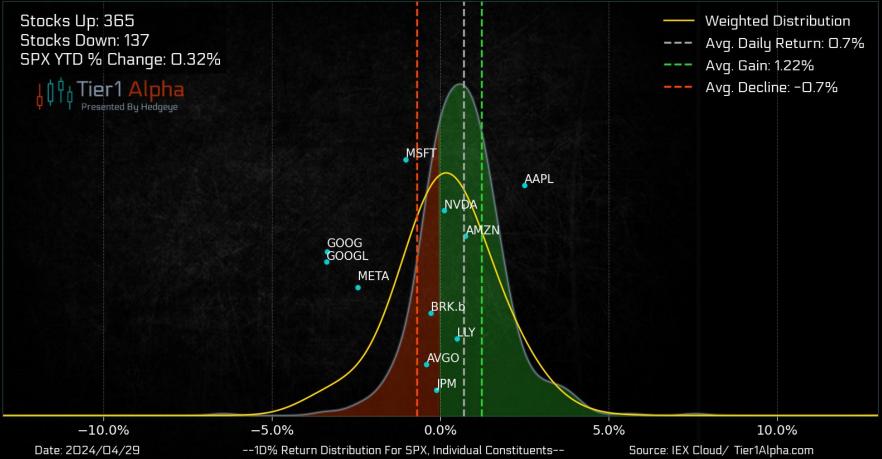


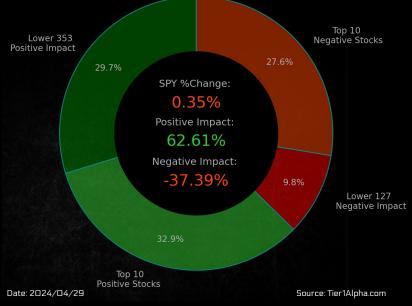




SPX Rea	lized Vol Da	ta In Samnl	o for 2∏24	-04-30		Vol	Contro	ıl Implie	ed Reb	alancir	ng Flow	vs SP)	X Dail <u>u</u>	%Cha	ange	
JIXKeu		icu in Sump			1d %Chg	-5.0%	-4.0%	-3.0%	-2.0%	-1.0%	0.0%	1.0%	2.0%	3.0%	4.0%	5.0%
Dropoff	1m Dates	1m Drop %	3m Dates	3m Drop %	Est. Chg \$bn						2.94		-23.26			
T+1	2024-04-02	-0.7%	2024-01-31	-1.6%	\$20 bn											
T+2	2024-04-03	0.1%	2024-02-01	1.2%	\$0 bn											
T+3	2024-04-04	-1.2%	2024-02-02	1.1%	Flow											
T+4	2024-04-05	1.1%	2024-02-05	-0.3%	5-20 bn											
T+5	2024-04-08	-0.0%	2024-02-06	0.2%	ula 2-40 bn											
T+6	2024-04-09	0.1%	2024-02-07	0.8%	and the second second for the second											
T+7	2024-04-10	-1.0%	2024-02-08	0.1%	Ē		Sigma		Sigma	Sigma		Sigma	Sigma		Sigma	
T+8	2024-04-11	0.7%	2024-02-09	0.6%	\$-80 bn		- S		-25	-1 S		+	+2		m +	
T+9	2024-04-12	-1.5%	2024-02-12	-0.1%	\$-100 bn -	-5%	-4%	-3%	-2%	-1%	0%	1%	2%	3%	4%	5%
T+10	2024-04-15	-1.2%	2024-02-13	-1.4%			te: 2024/04				ily Percent				Tier1Alpha.	

S&P 500 MBAD Indicator for 2024/04/29





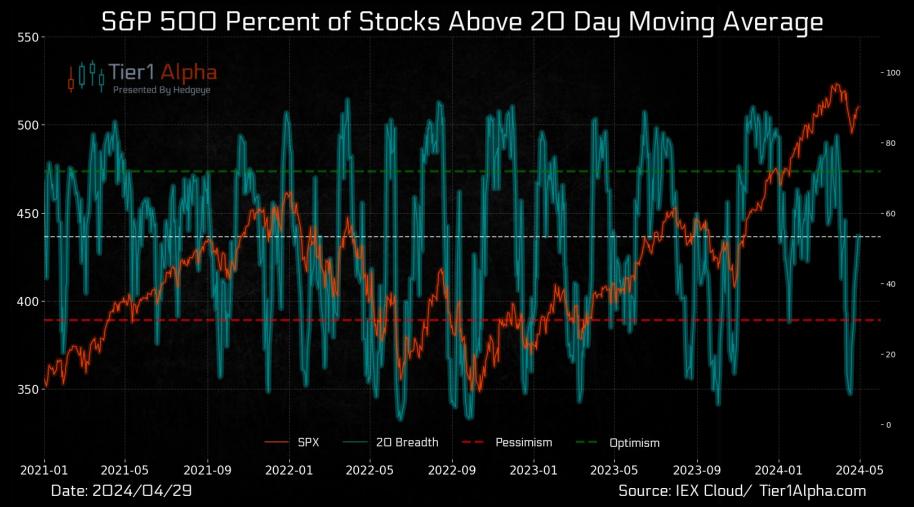
SPX Constituents Relative Impact By Market Cap

SPX Constituents Relative Impact By Market Cap

Largest Negative Impact

Largest Positive Impact

	Largeotro	bience impai	00	Largest Regative impast					
Top Contributo	Daily r %Return	Positive Impact	% Weight	Top Detractor	Daily %Return.1	Negative Impact	% Weight.1		
TSLA	15.3%	12.8%	0.99%	GOOGL	-3.4%	-6.2%	2.19%		
AAPL	2.5%	12.1%	5.76%	MSFT	-1.0%	-6.0%	7.14%		
AMZN	0.7%	2.4%	3.89%	META	-2.4%	-5.3%	2.62%		
хом	1.4%	1.3%	1.12%	GOOG	-3.3%	-5.2%	1.85%		
AMD	1.8%	0.9%	0.6%	UNH	-1.3%	-1.2%	1.08%		
QCOM	2.1%	0.8%	0.43%	МА	-1.2%	-0.9%	0.89%		
BA	3.8%	0.7%	0.23%	V	-1.0%	-0.8%	1.02%		
ABBV	1.2%	0.7%	0.69%	UBER	-2.4%	-0.7%	0.35%		
CAT	1.9%	0.7%	0.43%	ACN	-1.6%	-0.6%	0.47%		
AMGN	2.4%	0.7%	0.33%	MRK	-0.8%	-0.5%	0.75%		



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