

Market Structure Report

04-26-2024

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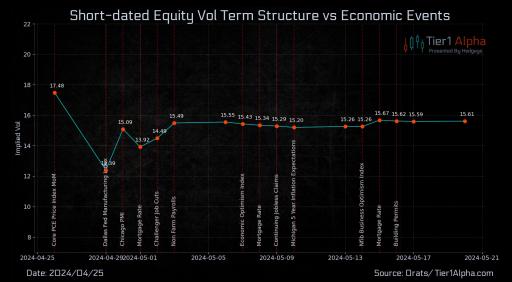
Summary:



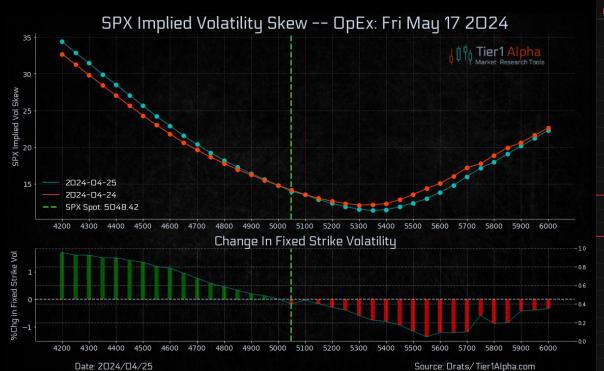
- Yesterday marked a 12-month high in our intraday volatility model. In case you missed it, the S&P 500 was down by 1.6% early in the trading session but managed to stage an impressive comeback, paring most of its losses to end the day.
- This recovery occurred despite Meta still being down a significant 10.56% by the close. However, at the end of the day, the broader index wasn't really that weak, and thanks to the strong performance of Nvidia and Tesla, most of the negative impact from Meta was offset.
- From a structural standpoint, we suspect Puts were being quickly monetized at the open, which forced market makers to buy back the SPX futures they had previously shorted as a hedge. This buying pressure from dealers unwinding their short futures positions then amplified the recovery, contributing to a 1.14% bounce off the lows.
- Dealers remain in negative gamma, which means we continue to trade within a higher volatility regime. Despite yesterday's intraday volatility, our trading range between the 5000 and 5100 strike held up well.

- For today, we expect these levels to continue to hold, especially as our Probable Volatility bands have started to flatten out. All else being equal, this suggests some broader consolidation is likely, albeit with some volatile moves in between.
- Despite the rise in intraday vol, realized volatility declined yesterday, which means Vol control funds had to buy around \$8B in equity exposure yesterday.
- CTA funds have also started to buy back small amounts of equity exposure, but not enough to significantly impact the market yet. At the least, the aggressive deleveraging we saw last week has now paused.
- The window of weakness for systematic funds is starting to close as we're expected a decline in realized volatility next week. However, until then, we're continuing to approach this as a high-risk setup.

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

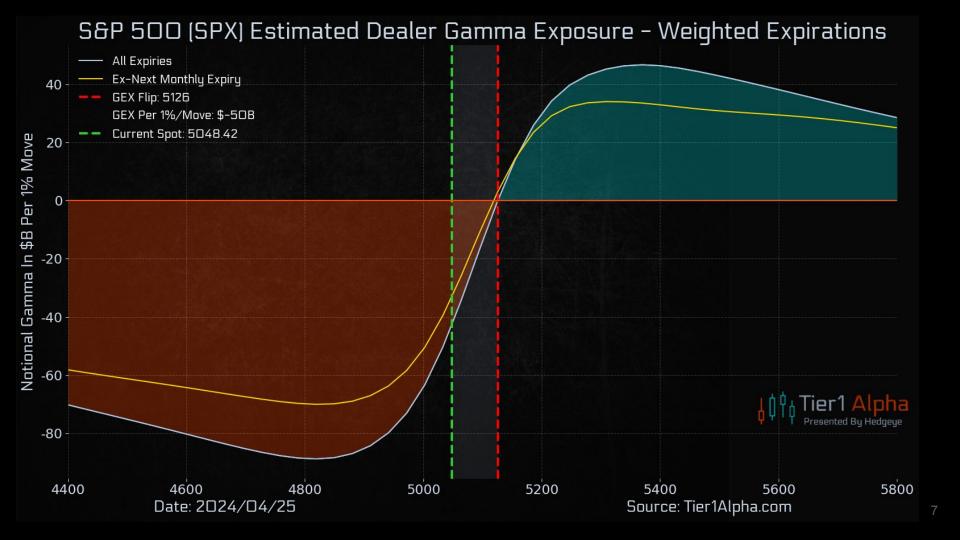


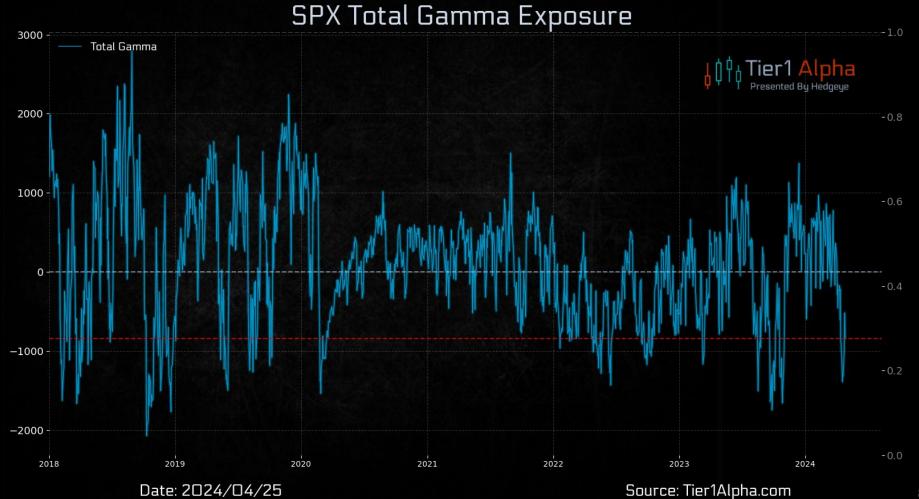
Economic Event Calendar							
Date	Event	Estimate	Previous	Impact	SPX IV		
2024-04-26	Core PCE Price Index MoM	0.3	0.3	high	17.48		
2024-04-26	Personal Income	0.5	0.3	high	17.48		
2024-04-26	Personal Spending	0.6	0.8	high	17.48		
2024-04-26	Michigan 5 Year Inflation Expectations	3.0	2.8	low	17.48		
2024-04-26	Consumer Confidence	77.8	79.4	medium	17.48		
2024-04-29	Dallas Fed Manufacturing Index		-14.4	medium	12.39		
2024-04-30	Chicago PMI		41.4	medium	12.07		
2024-05-01	Mortgage Rate		7.24	low	16.5		
2024-05-01	Mortgage Applications		-2.7	low	16.5		
2024-05-01	MBA Mortgage Refinance Index		472.7	low	16.5		
2024-05-01	MBA Purchase Index		144.2	low	16.5		
2024-05-01	Manufacturing PMI	49.9	51.9	medium	16.5		



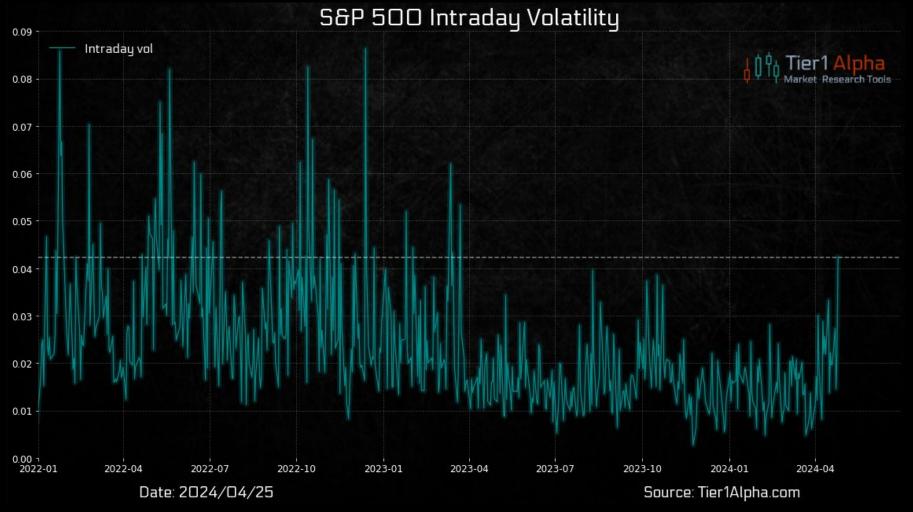
SPX Implied Volatility with Fixed Strike Vol							
	Fri May 17 2024			21 2024	Fri Jul 19 2024		
Strike	Implied Vol	FSV Change	Implied Vol	FSV Change	Implied Vol	FSV Change	
4400.0	28.52	1.5	23.9	0.58	20.44	0.19	
4450.0		1.41	23.06	0.59	19.77	0.17	
4500.0	25.64	1.34	22.21	0.52	19.12	0.15	
4550.0	24.19	1.19	21.37	0.45	18.46	0.13	
4600.0	22.91	1.13	20.57	0.41	17.84	0.11	
4650.0	21.56	0.94	19.79	0.34	17.23	0.09	
4700.0	20.36	0.76	19.03	0.27	16.63	0.05	
4750.0	19.23	0.57	18.3	0.21	16.06		
4800.0	18.2	0.45	17.58	0.15	15.5	0.01	
4850.0	17.26	0.32	16.89	0.1	14.97		
4900.0	16.4	0.19	16.28	0.13	14.45		
4950.0	15.6	0.12	15.64	0.1	14.06		
5000.0	14.79	0.0	15.02	0.06	13.55		
5050.0	13.96		14.42	0.0	13.13		
5100.0	13.5		13.95	0.03	12.74		
5150.0	12.85	-0.17	13.38	-0.07	12.41	-0.19	
5200.0	12.32		12.92		12.1	-0.24	
5250.0	11.9		12.5	-0.18	11.82	-0.28	
5300.0	11.51		12.13	-0.24	11.59		
5350.0	11.37		11.82		11.38		
5400.0	11.48		11.51	-0.38	11.22		
5450.0	11.86		11.24		11.08		
5500.0	12.37		11.06		11.0		
5550.0	12.96		10.95		10.95		
5600.0	13.84		10.93		10.99		
5650.0	14.81		10.98		11.04		
5700.0	15.98	-1.2	11.15	-0.64	11.16		

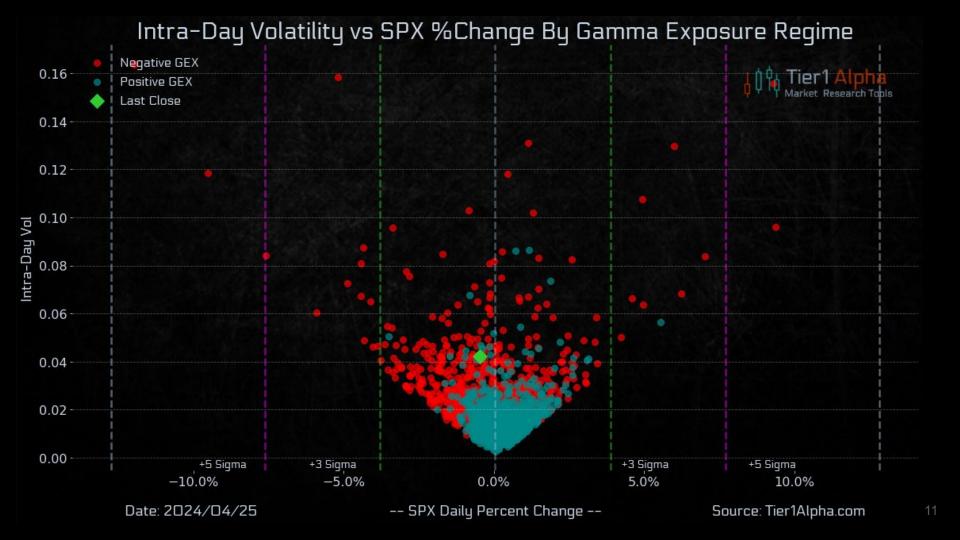








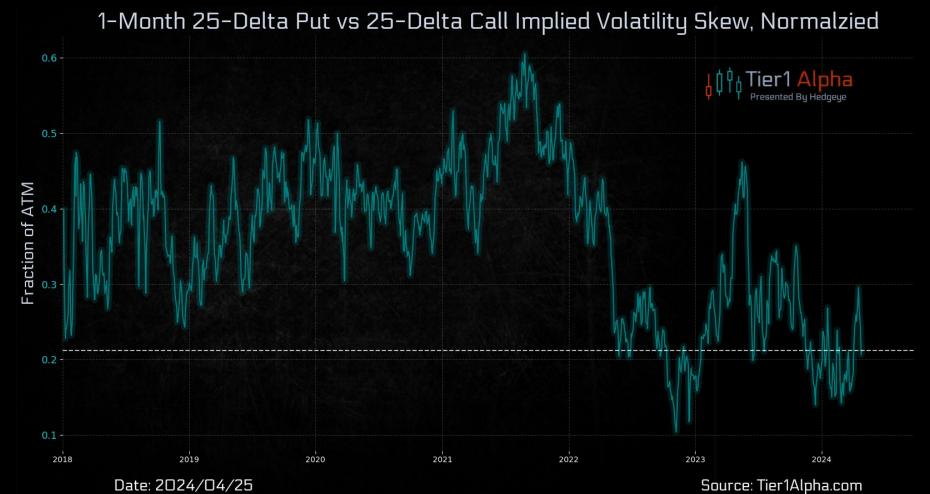


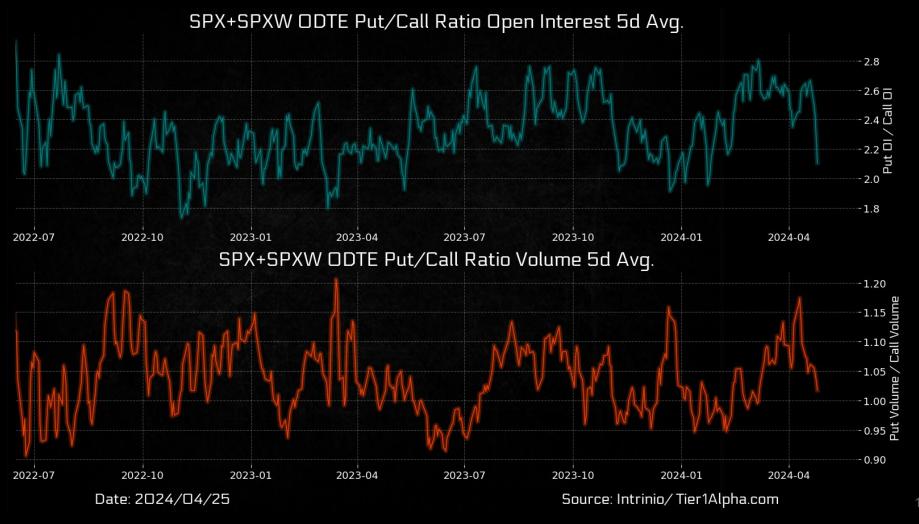


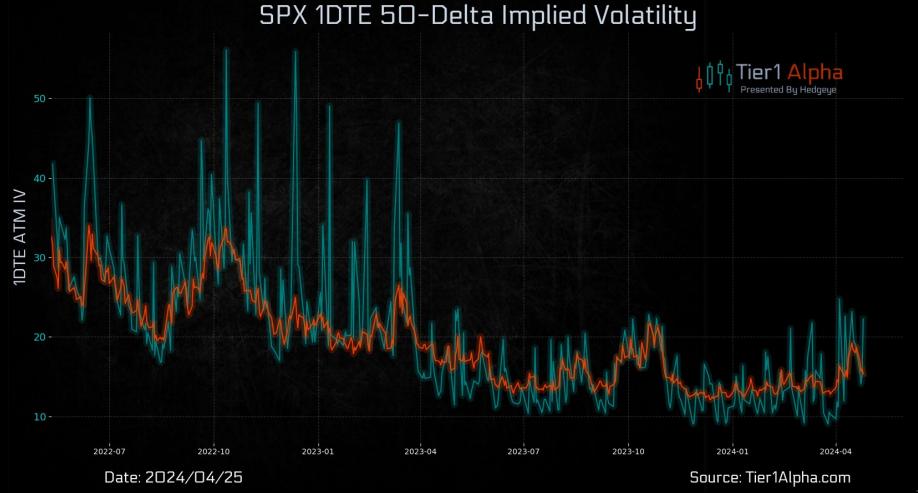
Rolling Cost of 1 Month 25 Delta Put Options Percentile Rank



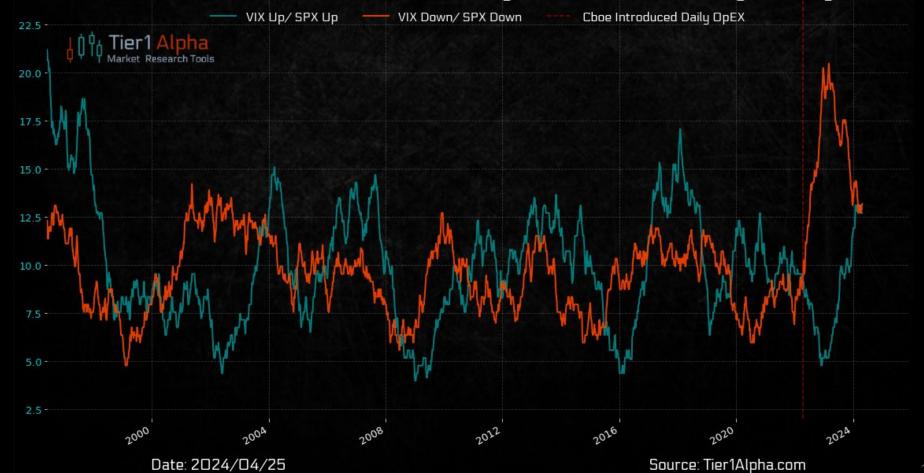
Source: Tier1Alpha.com







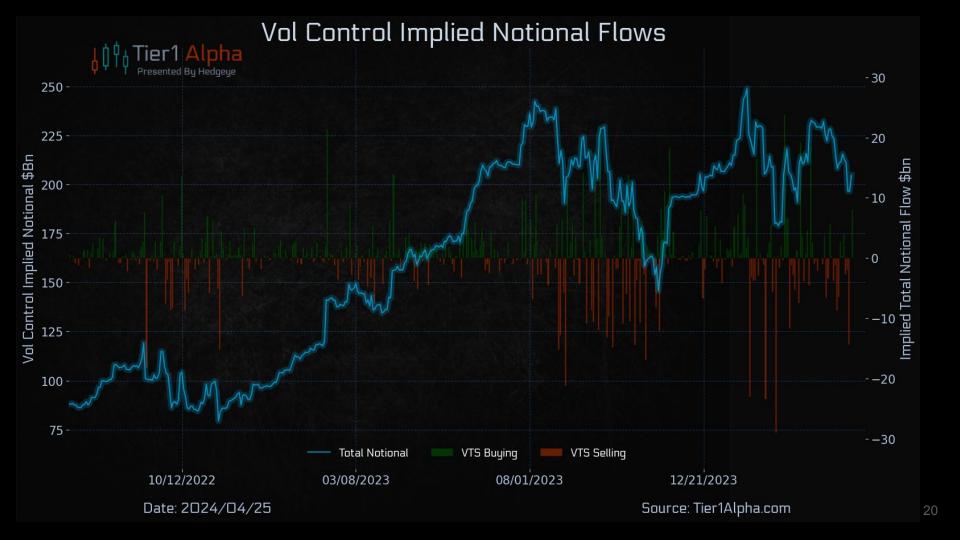
S&P 500 and VIX Co-Movement: Positive and Negative Returns Over Rolling 252-Day Period





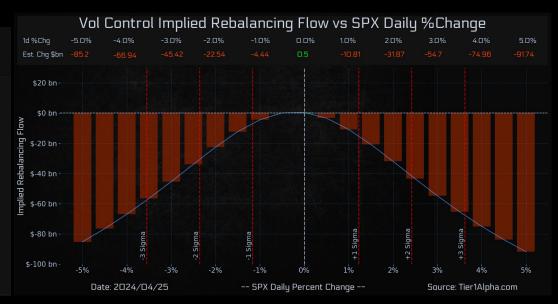




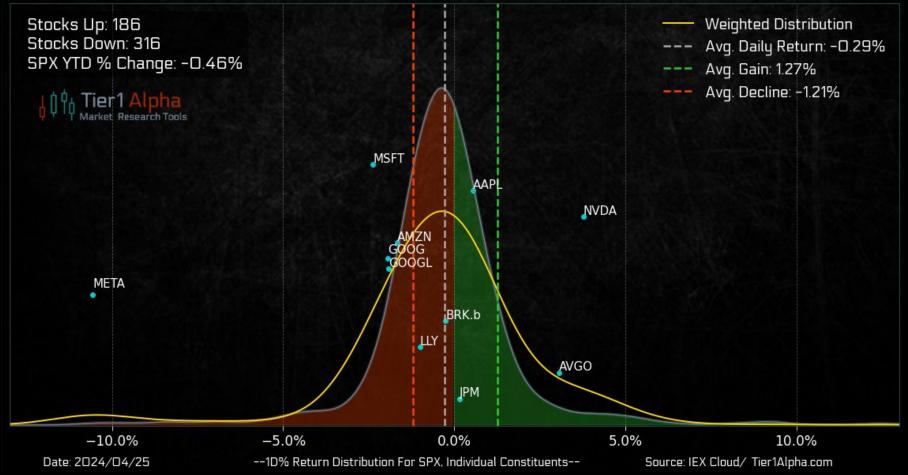




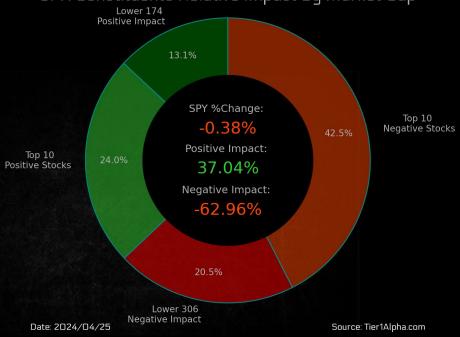
SPX Realized Vol Data In Sample for 2024-04-26							
Dropoff	1m Dates	1m Drop %	3m Dates	3m Drop %			
T+1	2024-03-28	0.1%	2024-01-29	0.8%			
T+2	2024-04-01	-0.2%	2024-01-30	-0.1%			
T+3	2024-04-02	-0.7%	2024-01-31	-1.6%			
T+4	2024-04-03	0.1%	2024-02-01	1.2%			
T+5	2024-04-04	-1.2%	2024-02-02	1.1%			
T+6	2024-04-05	1.1%	2024-02-05	-0.3%			
T+7	2024-04-08	-0.0%	2024-02-06	0.2%			
T+8	2024-04-09	0.1%	2024-02-07	0.8%			
T+9	2024-04-10	-1.0%	2024-02-08	0.1%			
T+10	2024-04-11	0.7%	2024-02-09	0.6%			



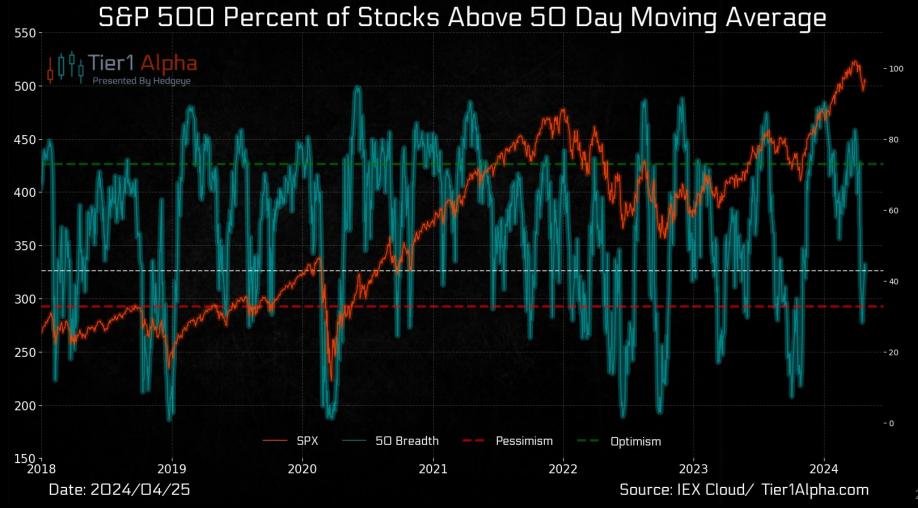
S&P 500 MBAD Indicator for 2024/04/25



SPX Constituents Relative Impact By Market Cap



SPX Constituents Relative Impact By Market Cap							
Largest Positive Impact			Largest Negative Impact				
Top Contributor	Daily %Return	Positive Impact	% Weight	Top Detractor	Daily %Return.1	Negative Impact	% Weight.1
NVDA	3.8%	11.3%	4.97%	META	-10.6%	-16.6%	2.62%
TSLA	5.0%	3.0%	0.99%	MSFT	-2.4%	-10.2%	7.14%
AVGO	3.1%	2.4%	1.32%	AMZN	-1.7%	-3.9%	3.89%
AAPL	0.5%	1.9%	5.76%	GOOGL	-1.9%	-2.5%	2.19%
MRK	2.9%	1.3%	0.75%	GOOG	-1.9%	-2.2%	1.85%
UNP	5.0%	1.0%	0.33%	IBM	-8.3%	-1.9%	0.39%
UNH	1.3%	0.9%	1.08%	CAT	-7.0%	-1.8%	0.43%
NEM	12.5%	0.8%	0.11%	CMCSA	-5.8%	-1.3%	0.37%
CMG	6.3%	0.7%	0.19%	ВМҮ	-8.5%	-1.2%	0.23%
NFLX	1.8%	0.7%	0.63%	NOW	-4.0%	-0.9%	0.36%





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