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THRASHER ANALYTICS MARKET DASHBOARD



Sector Rotation:		
August		
Technology	XLK	
Consumer Disc.	XLY	
Communication	XLC	

Fixed Income Rotation: Q3			
Muni Bond	MUB		
High Yield Corp.	HYG		

Notable Breadth Data:		
SPX >50MA	63.56%	
SPX >200MA	55.05%	
Nasdaq >50MA	66.02%	
Nasdaq >200MA	75.73%	

Index & Sector				
Adaptive Trend				
	Up	Down		
	Trend	Trend		
SPX	X			
QQQ	X			
XLF		X		
XLY	X			
XLK	X			
XLV	X			
XLU		X		
XLP	X			
XLI	X			
XLRE		X		
XLE		X		
XLB	X			

Daily Sentiment Index					
	% Bullish	5-day MA			
S&P 500	81%	80%			
Nasdaq 100	87%	85%			
Nikkei	71%	78%			
VIX	17%	13%			
10yr Treasury	63%	59%			
5yr Treasury	62%	61%			
CRB Index	70%	77%			
Gold	72%	76%			
U.S. Dollar	21%	15%			
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*Green<25% Red>80%

source: trade-futures.com

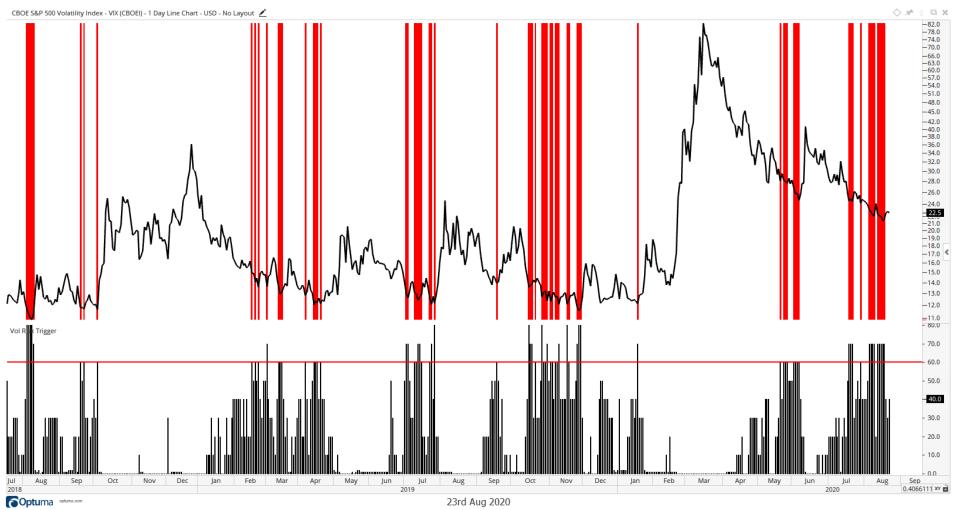
SECTOR DASHBOARD



Sector	> 50MA	> 200MA	1wk Perf 🕶	1mo Perf	3mo Perf	12mo Perf
SPDR Technology Select Sector Fund ETF	True	True	3.57%	8.74%	22.68%	47.43%
SPDR Consumer Discretionary Select Sector Fund ETF	True	True	1.8%	7.34%	20.4%	22.18%
SPDR Communication Services Select Sector ETF	True	True	1.54%	5.07%	13.79%	23.08%
SPDR Consumer Staples Select Sector Fund ETF	True	True	0.22%	4.55%	12.28%	6.62%
SPDR Real Estate Select Sector Fund ETF	True	False	0.11%	3.46%	12.19%	-7.66%
SPDR Health Care Select Sector Fund ETF	True	True	0.02%	0.96%	7.45%	16.99%
SPDR Materials Select Sector Fund ETF	True	True	-1.18%	1.19%	16.75%	9.17%
SPDR Industrial Select Sector Fund ETF	True	True	-1.39%	6.09%	19.66%	1.91%
SPDR Utilities Select Sector Fund ETF	True	False	-1.59%	-0.45%	6.37%	-4.28%
SPDR Financial Select Sector Fund ETF	True	False	-3.46%	0.00	10.5%	-8.61%
SPDR Energy Select Sector Fund ETF	False	False	-5.66%	-5.83%	-6.95%	-38.05%







The VRT continues to give signals of heightened risk of a spike in the Volatility Index. Thus far, the market has ignored these concerns, with the VIX moving to its lowest level since March last week. Is this latest move down the setup for a seasonal bounce in volatility that August has grown known for? We'll see.





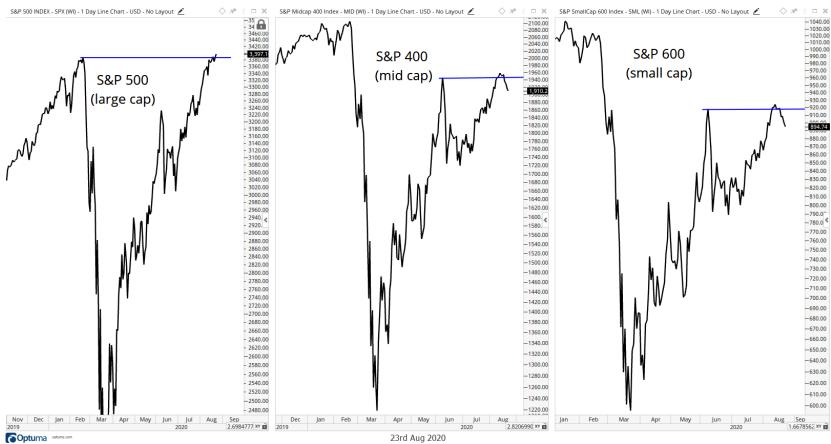


The S&P 500 closed at a new all-time high on Friday, which may have been the least exciting/minimal fanfare new high ever. The equity index has been on a slow crawl higher, rising less than 1% last week and up just 1.37% over the last two weeks during the move to fresh highs. Meanwhile, the 14-day RSI hasn't broken above 70 since June, skirting the line for the last month. We'll be looking quite a bit at this new high in this letter. Sector leadership remains firm with tech, communications, and consumer disc. which fortunately have been the sector overweight's in the Thrasher Analytics Sector Rotation model for several months now.

This week earnings focus will likely be on software and retail stocks such as CRM, WDAY, LULU, BBY, ULTA, INTU, PANW, and GPS. We also will have a speech on Thursday from Powell during the annual Jackson Hole Fed conference which is the same day the second attempt to calculate Q2 GDP will be released. The market didn't respond well to the minutes from the last FOMC meeting, so Powell will likely walk cautious through his remarks, holding to the belief the Fed will do any and everything in its power to backstop the financial markets with liquidity.







This chart was in my public blog post from last week but I feel its worth sharing again. Its one of the charts that truly stands out right now, with the large cap index hitting clear sky's the mid & small caps are falling back below their prior June highs. It's not that small/mid are under-performing, that wouldn't be a huge issue, but hey are flat out moving lower! This doesn't happen very often. In fact, going back to 1992, the S&P 400 has never been more than 9% off its 52-week high when the S&P 500 was making a new high.



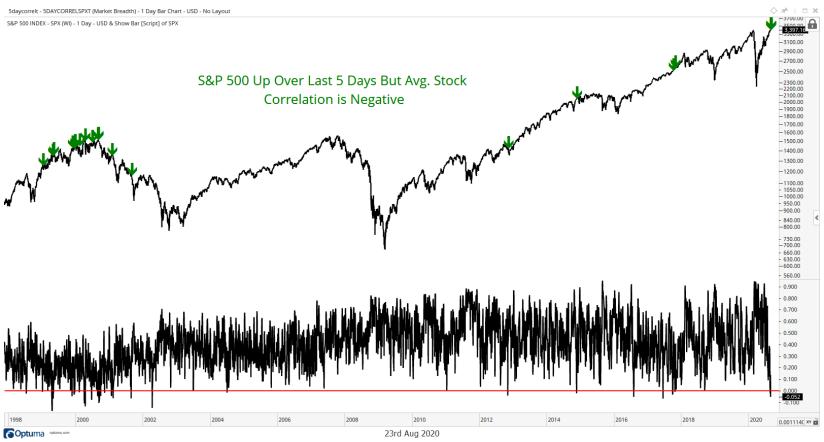




Looking at the difference in the mid/small and large cap price performance, the above chart shows when the SPX is at a new high but the mid/small are trading under their 20-day moving average. This has happened just a couple of times in the last decade. Most recently, just before the big move in late '17 and again before the first drop in 2014. Then we'd have to go back to 2004 and the late-1990s. The point is, we don't see price action like this very often.







It's not just the small/mid cap stocks that aren't performing with the S&P 500. The average SPX stock has one of the lowest 5-day correlations since 2002! The above chart shows when the S&P 500 index has risen over the last five days but the average correlation was negative, meaning the index was up but if the correlation is negative, then the average stock was not rising with the index. This happened quite a bit in the late 90s, a period many traders point to in comparison to today—when many stocks were no longer moving with the index, relying on just a handful of equities to carry the broad market higher.





Speaking of the late 90s, we have to go back to early 2000 to find a time where the market was at a new 52-week high but the average stock was still more than 15% below its own 1 year high watermark. No other time since then has there been such a large spread in average stock recovery and the index itself. Did this send stocks lower immediately in 2000? No. But it showed the underlying health of the market going into what ended up being a major high for equities. I'm not expecting the same type of price action to follow today, each trend in the market is unique, but the internals are about as weak as they were back then.

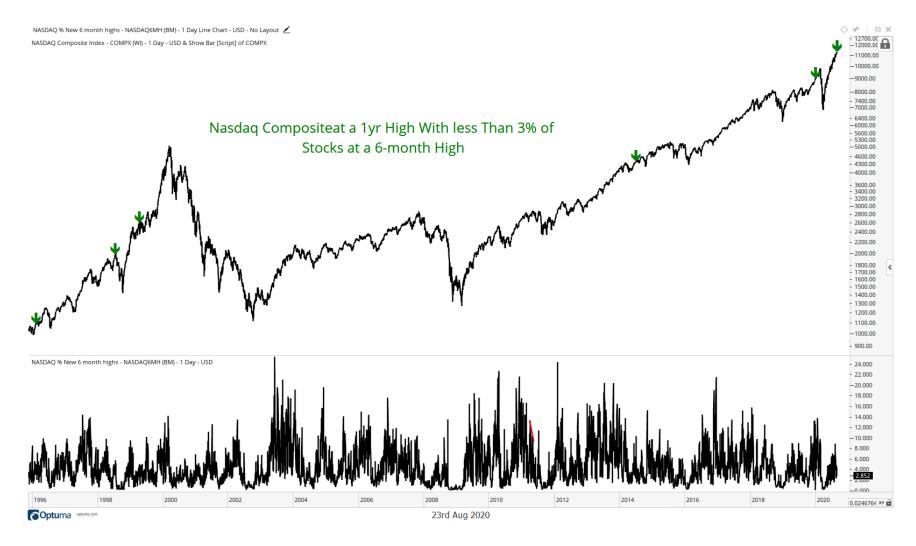




It's been over thirty years since we last had a period of time where the S&P 500 Advance-Decline Line was at a 10-day low while the index hit a new high. We'd have tog o back to the start of the multi-year down turn that kicked off the 80s for the last time this occurred.

The point I'm trying to make here with all of these charts singing the same song, is it's not a matter of poor relative performance of the individual equity, it's not that the Facebook, Amazon, Google, Apple, and Microsoft's of the world are showing greater strength, it's that they are showing the ONLY strength (yes, this is hyperbole). The A-D Line has almost perfect correlation with the index, as you can see on the above chart, so when it drops like this, it takes quite a bit of internal math to get a divergence. This divergence is of the short-term nature, but as I noted above, still quite rare.





The Nasdaq 100 gets the most focus, but I still watch the broader Composite as well. On Friday, like the Nas 100, it hit a new high. And how many of its underlying stocks even made just a 6-month high along with it? 2.8%. We saw this going into the Feb. peak earlier this year, in 2014, and a couple of times in the late 90s—that's it.

To show just how big the FAAMG names have gotten, Mike O'Rourke, CMT of JonesTrading wrote last week that "Another 10% rally in Apple's shares will make it as valuable as the Industrials, Consumer Staples, and the Russell 2000."

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-4100

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2020



On Friday, EAFE fell back below its prior June high. Four of the primary countries with the EAFE index are the UK, Japan, Germany, and France—charted above. As you can see, they don't look very similar to the U.S. large cap markets. Besides Japan, they aren't even close to making new 2020 highs. While some of the smaller foreign equity markets may be strengthening, these are the four that move the needle for the major int'l index and currently aren't showing the same level of strength as we have here in the U.S.

-1940 -1910

-1880

-1850

-1820

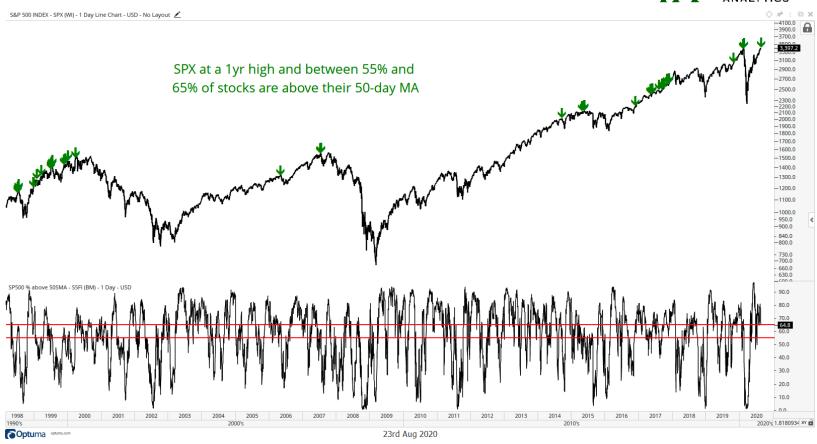
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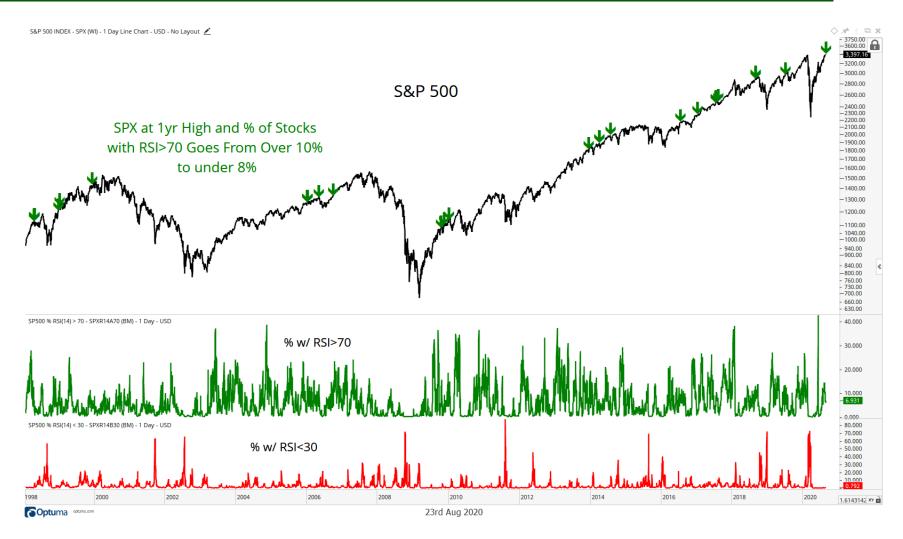




The percentage of stocks in the S&P 500 that are above the 50-day MA is still a healthy 64%. I wouldn't expect us to stay near 90% like we saw earlier this year, but this figure has been declining, As we closed out the week at a new high for the index, the above chart shows when this happens and we have less than 65% but more than 55% of stocks above their 50-day moving average. As you can see, the results are quite mixed w/ the following price action. In 2017 this was hardly a problem while in '14/'15 stocks struggled, and of course in February of this year we know what price did. Back in 2007 equities peaked, 206 we saw a pullback, and several pullbacks followed the occurrences in the 90s but never ended the bullish trend until the figure really began to breakdown in 2000.

While we don't have a lot of strong stocks, do we have falling stocks? The % of stocks at a 1-month low inched up to 12.3% - a low level but has been slowly rising since mid-July.

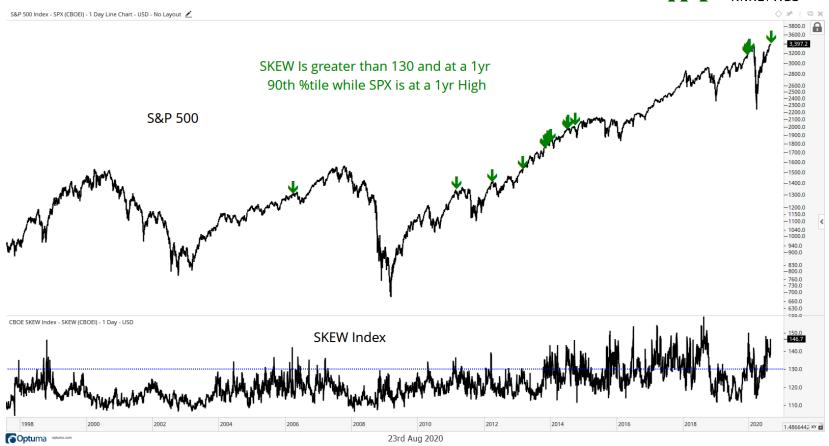




One of the bullish arguments over the last couple of weeks has been the expansion in number of stocks with 'overbought' momentum. Remember, 'overbought' momentum is a good thing long-term, it shows a strong trend higher for that stock so seeing a growing number of stocks 'overbought' suggests a strong momentum trend for the underlying securities. Unfortunately, this trend ended last week with a drop to 6.9% of stocks as of Friday, after being north of 10% in the last month. The above chart shows when this has occurred in the past, notably in Q4 '18. Most occurrences saw at least a mild pullback in the SPX, except in 2017 and took a few weeks in early 2010.







The SKEW Index attempts to measure the activity in deep out of the money options, believed that as interest in deep OTM options grows is a sign of market expectation for a large "tail" event in equities. Many traders discount the SKEW Index for its few faults, of which I don't disagree but also don't completely abandon the tool either. I believe it does have some use when viewed in the proper context. The above chart shows when the SKEW is at a 1 year 90th percentile and above 130 while the SPX is at a 1yr high as well. This indicates that not only is SKEW elevated (above 130) but also recently near the high end of its 1 year range (90th %tile) while the equity market is at a fresh high. We saw this happen a few days earlier this year and then notably in 2011 and 2006 as well as a few times in 2012 and 2014.



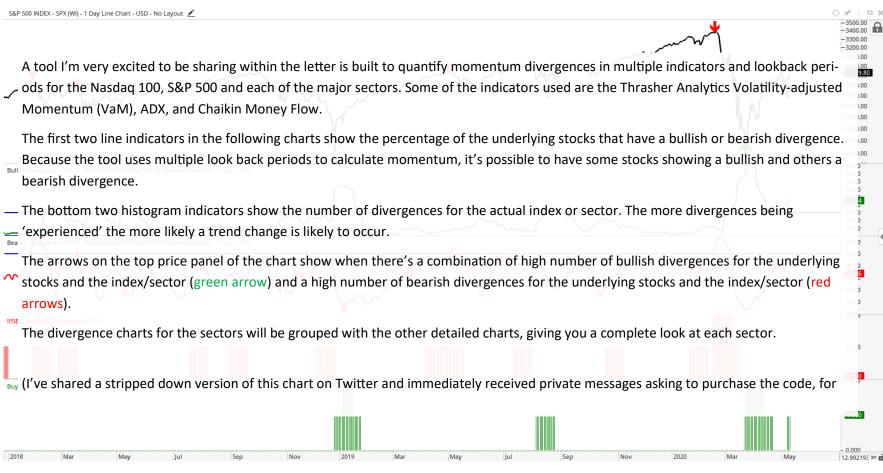




I shared this chart two weeks ago and it still is holding up today. The VVIX is showing a bullish divergence to the VIX, making a higher low to the latest lower-low the in the VIX. While the Volatility Index firmed up at the end of last week, closing off its weekly low, it remains below 24.5 which has been a ceiling in recent weeks for volatility.







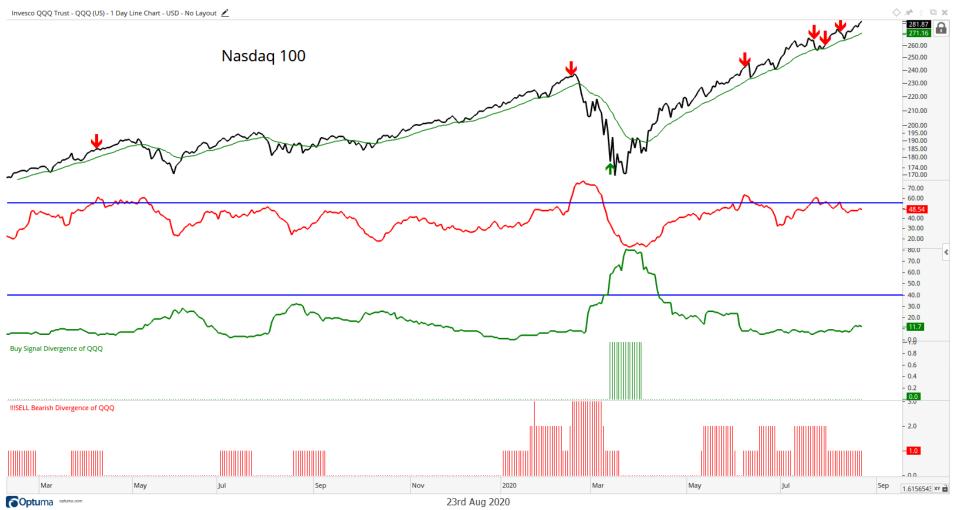


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One of the new sections of the report will include a more detailed look at the primary S&P sectors. This section will develop over time but initially will include two pages (three when the divergence data launches in the next report).

The first page will show a daily and weekly chart of the sector with two proprietary indicators. The first is a **Momentum Composite**, which allows momentum indicators to be viewed from a overbought and oversold lens as the indicator evaluates the z-score of multiple momentum indicators with varying lookback periods. When the underlying indicators are at historic extremes, they often are prone to mean-reversion price action, especially when grouped together as I've done with the Momentum Composite

The second tool is a Volatility-Adjusted Momentum, which uses a custom gauge of volatility applied to a traditional momentum indicator.

When used together, a great detail can be gleaned from what momentum is showing for the daily and weekly charts of each sector and I'll of course provide brief commentary to accompany them.

On the far right are **two watchlists**, showing stocks that make up each sector broken down by momentum and mean-reversion. The momentum list is the same tool used for the sector rotation model, a custom built indicator (different than the Momentum Composite) that evaluates the trend of a security and provides a score based on the attractiveness and sustainability of that trend. The higher the score the better.

The second watchlist is the individual stocks of the sector sorted by respective Momentum Composite reading, shown as a z-score. Scores less than 2 are significant.

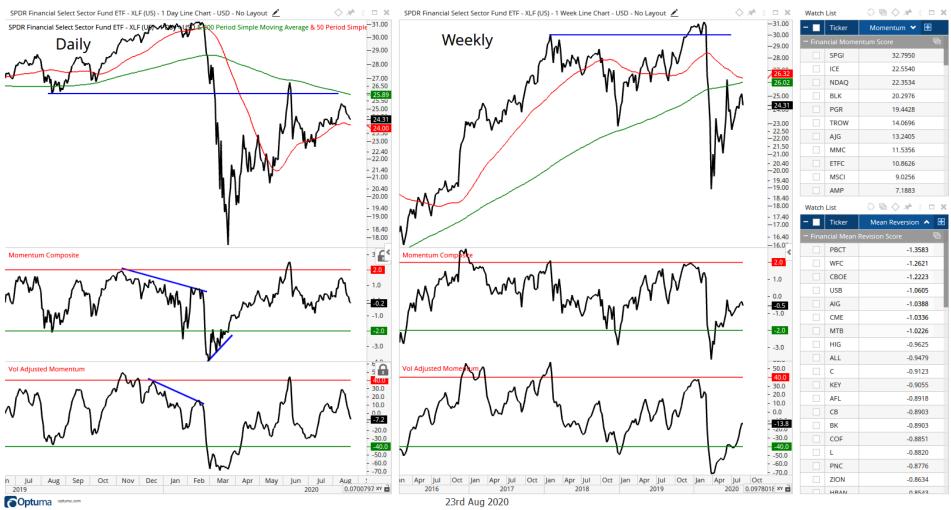
These watchlists can provide an excellent starting point for further research and analysis. Feel free to use these as idea generation. I'll have more details and example back tests in the future. These lists aren't intended to be buy/sell signals on their own.

The second page will show several standard breadth gauges for each sector, providing additional insight into the individual stock participation in the sector's price action.





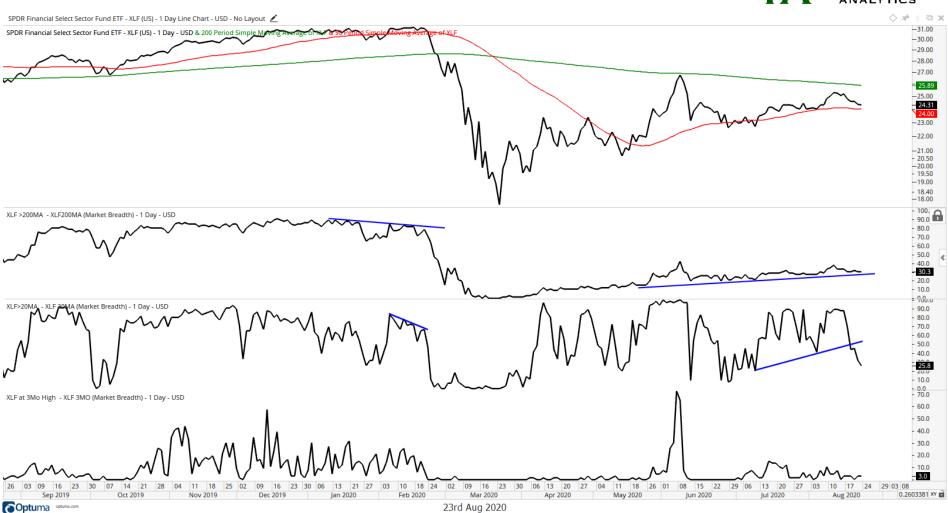




XLF has held above the 50-day MA but struggles to regain its 200-day MA.







% above 200-day MA is still rising but short-term break has broken down.

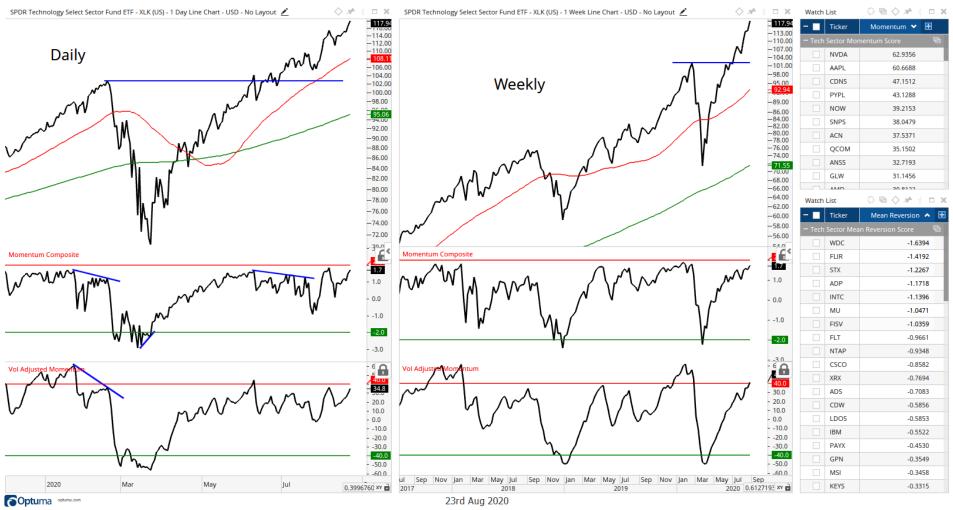


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XLK has cleared its bearish momentum divergence with price holding above its breakout point. Weekly VaM is now 'overbought'







Declining % of tech stocks above the 200-day MA (top panel) with a ceiling on the % making 3-month high just under 30%. Breadth not looking great for tech.













Momentum divergence with XLV on daily and weekly charts.







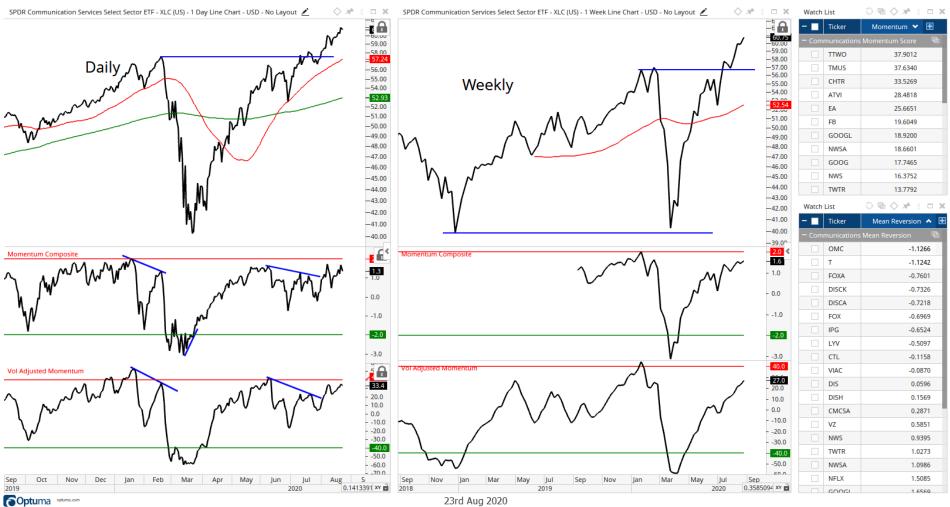
Breadth beginning to weak with a drop in %20MA and a possible breaking of the up trend in %200MA.











XLC holding on to its breakout, closing out the bearish momentum divergences.







Supportive short-term breadth of %20MA but no improvement in 3 month high or %200MA.



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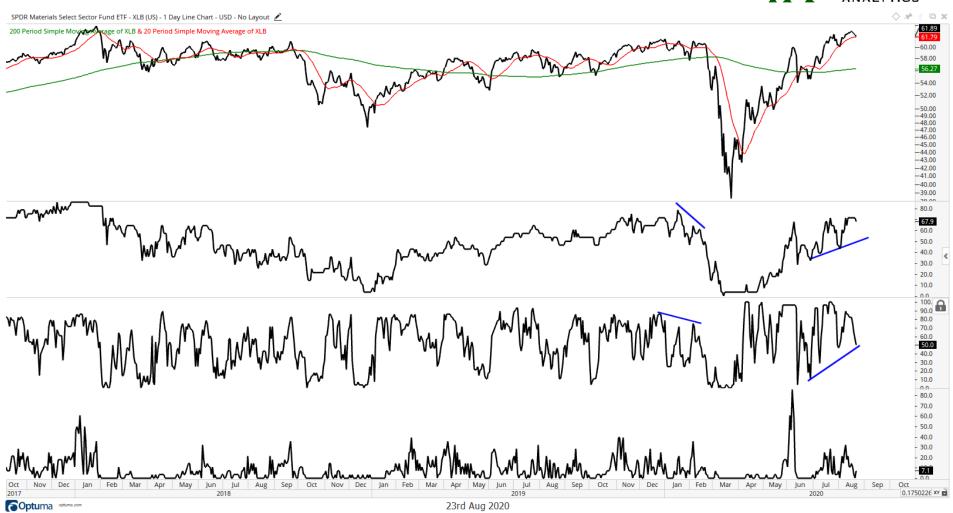






XLB broke out but nearing a test of the breakout point with divergences in daily momentum.

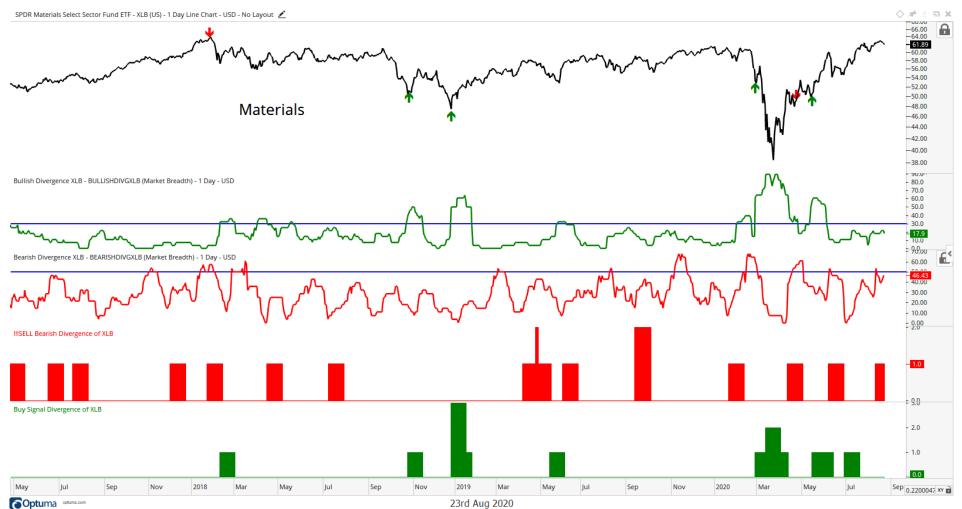




Breadth is positive for XLB.

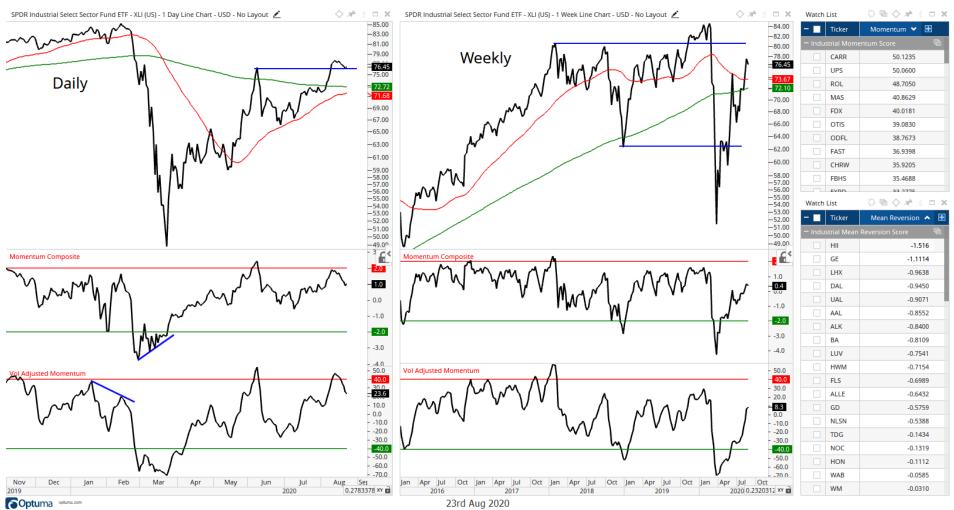


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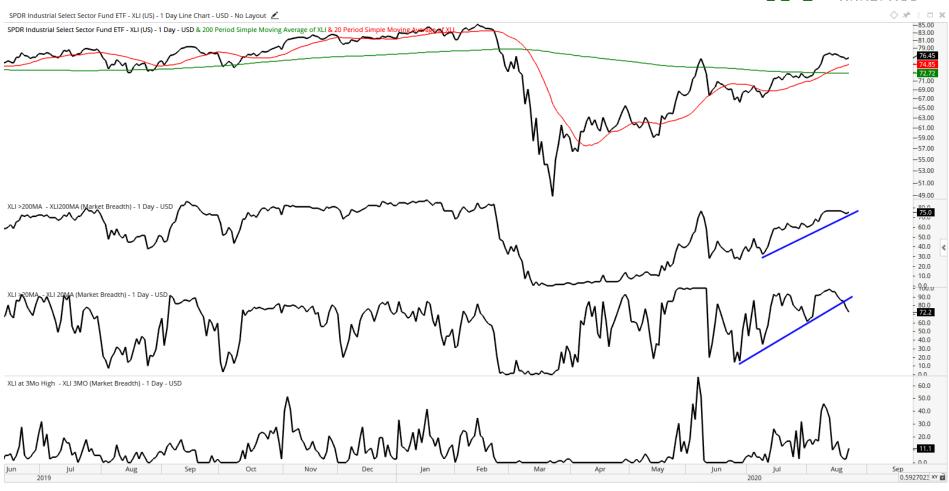
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XLI testing its breakout point.







Breadth continues to track price trend.

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XLP back to its prior high, failing the first test but not far from making another. VaM on daily is coming off 'overbought'.

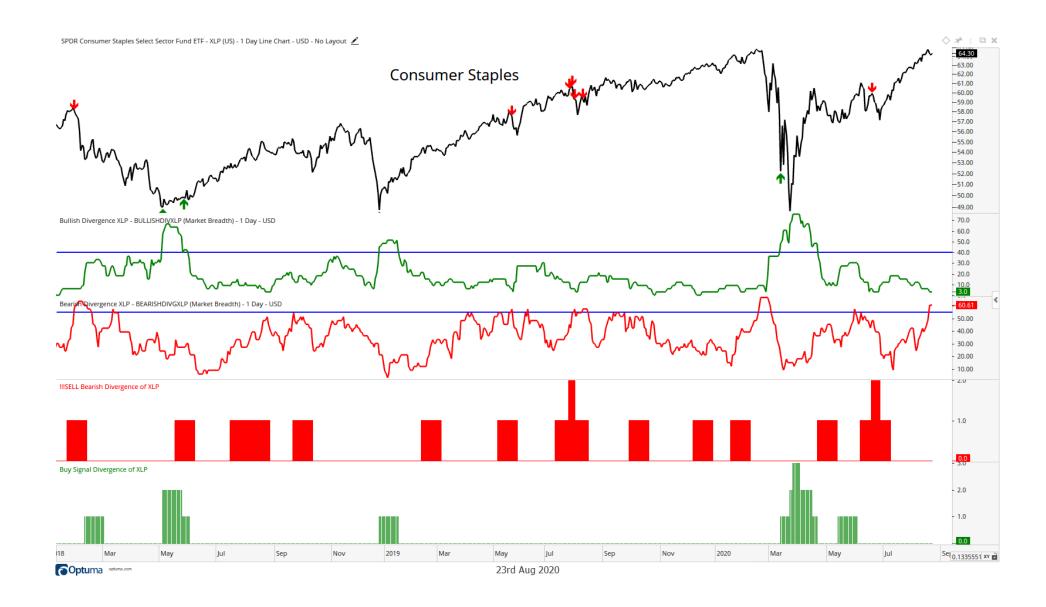






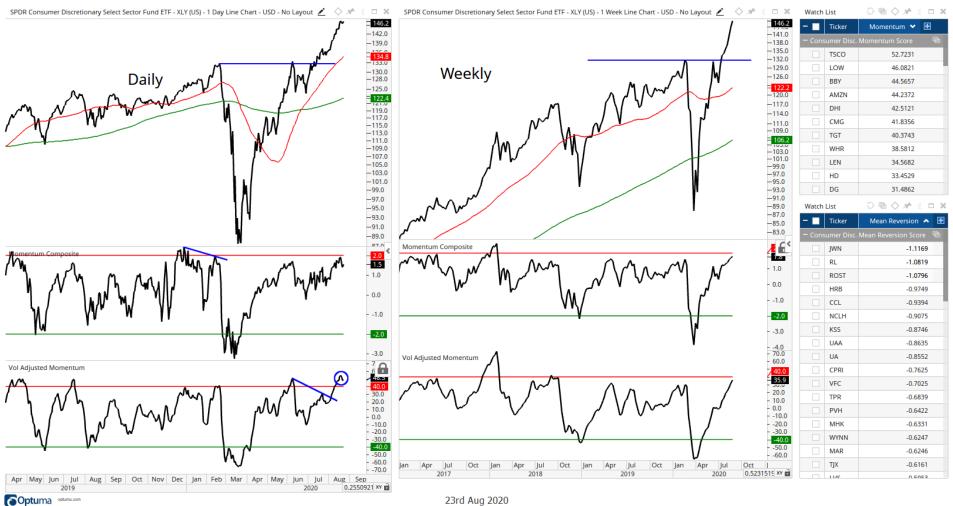
Breadth is supportive.











XLY holds above the prior high with daily VaM extremely high, near levels that prior saw price pull back in 2019.



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Breadth remains supportive with a downtick in % at 3mo high.

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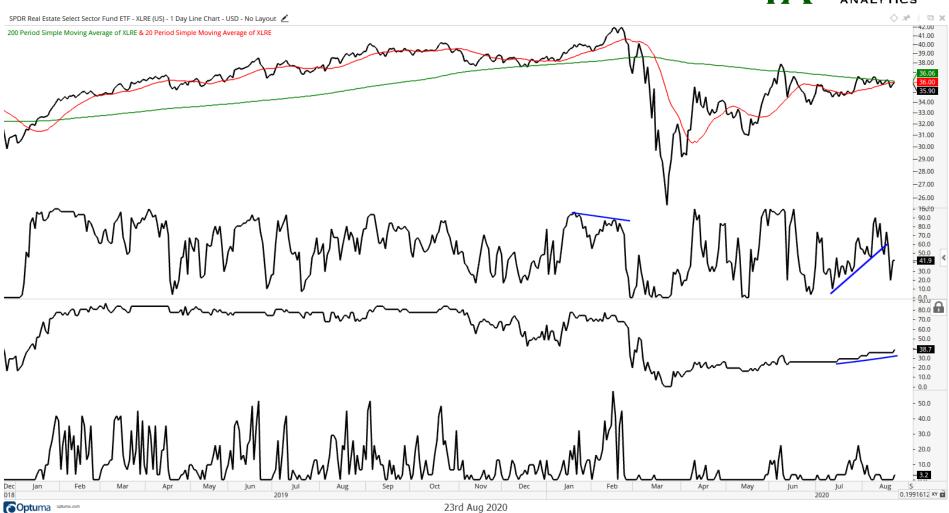




XLRE trying to break above the declining 200-day MA.







Breadth is supportive.











XLU failed at breaking its 200-day MA, coming back to rest above the 50-day MA.





Breadth still waiting to expand with price.



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,,									
	Market	% Bullish 🔦	5MA	History ⊞ ■	1	Code	% Bullish 🔨	5MA	History [[]
	VIX DSI	17	12.6			Nikkei DSI	71.00	78.40	
	US Dollar DSI	21	14.8			EuroDollar DSI	71.00	73.00	
	Corn DSI	31.00	31.40			Cocoa DSI	71.00	67.00	
	Natural Gas DSI	44.00	42.00	A-1111		British Pound DSI	71.00	73.40	
	Lean Hog DSI	45.00	41.60			Silver DSI	72.00	77.20	
	Orange Juice DSI	50.00	55.20			Gold DSI	72.00	76.00	Market Anna Carlo Car
	Coffee DSI	51.00	45.60			Palladium DSI	73.00	72.80	
	5YR DSI	62.00	61.20	Maria Maria Anna Anna Anna Anna Anna Anna Anna An		Copper DSI	74.00	78.80	
	Crude Oil DSI	63.00	68.20			Swiss Franc DSI	75.00	81	
	10Y DSI	63.00	59.00	- Address of the second		Euro DSI	75.00	83.6	
	Heating Oil DSI	64.00	71.40			Cattle DSI	75.00	81.4	
	Wheat DSI	65.00	55.60			Gasoline DSI	77.00	75.60	
	Sugar DSI	65.00	66.40			Australian Dollar DSI	77.00	82	
	Platinum DSI	67.00	72.20			Mexican Peso DSI	78.00	74.80	
	New Zealand Dollar DSI	68.00	69.00			SPX DSI	81	80.2	
	CRB Index DSI	70.00	76.60			Nasdaq DSI	87		
	Cotton DSI	70.00	69.00			Lumber DSI	93	91.2	

Source: trade-futures.com

Above is the DSI score for each of the futures markets.

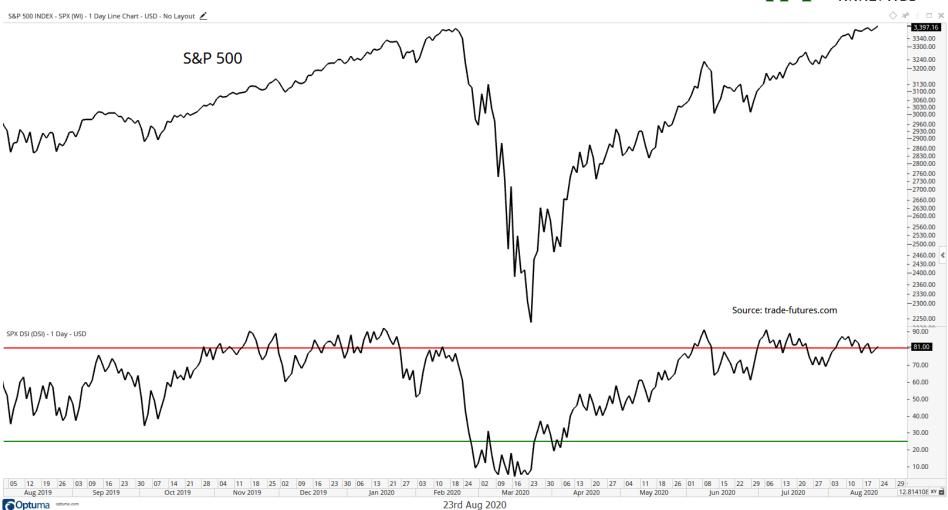


















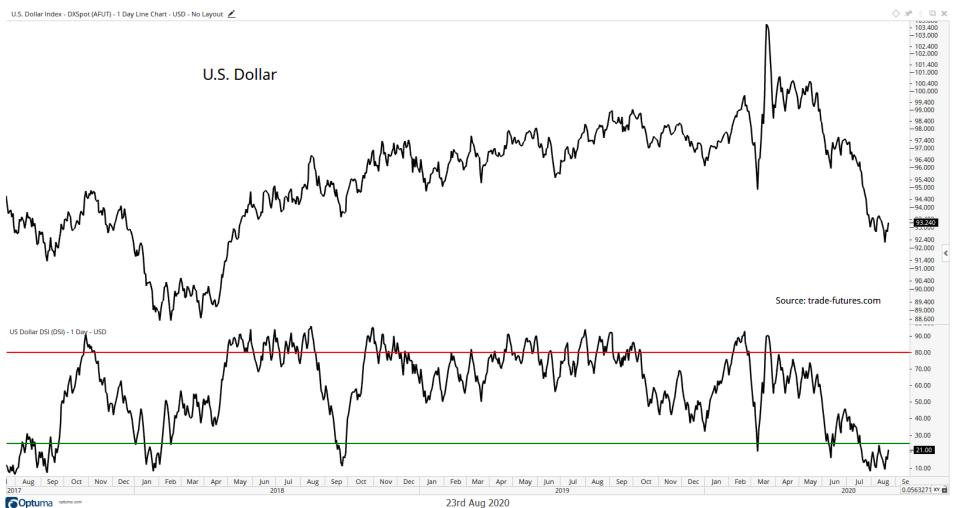


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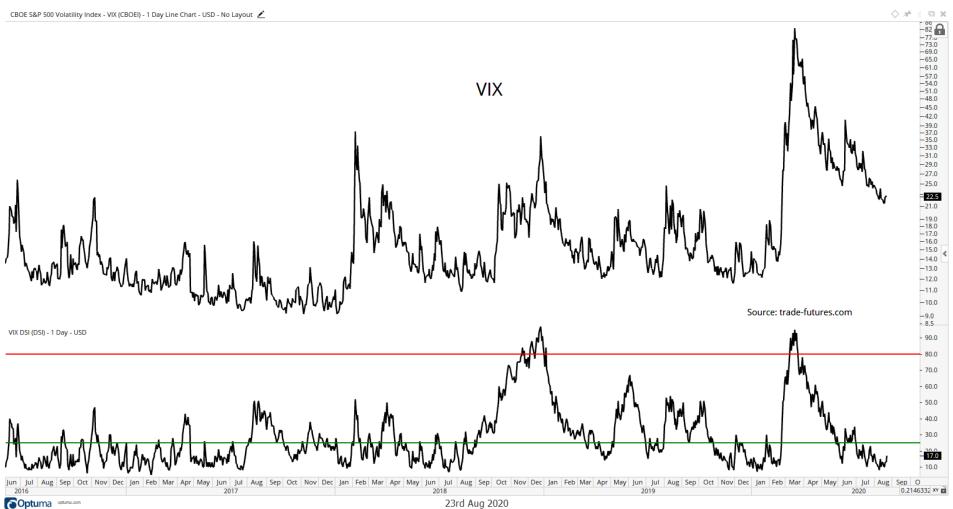






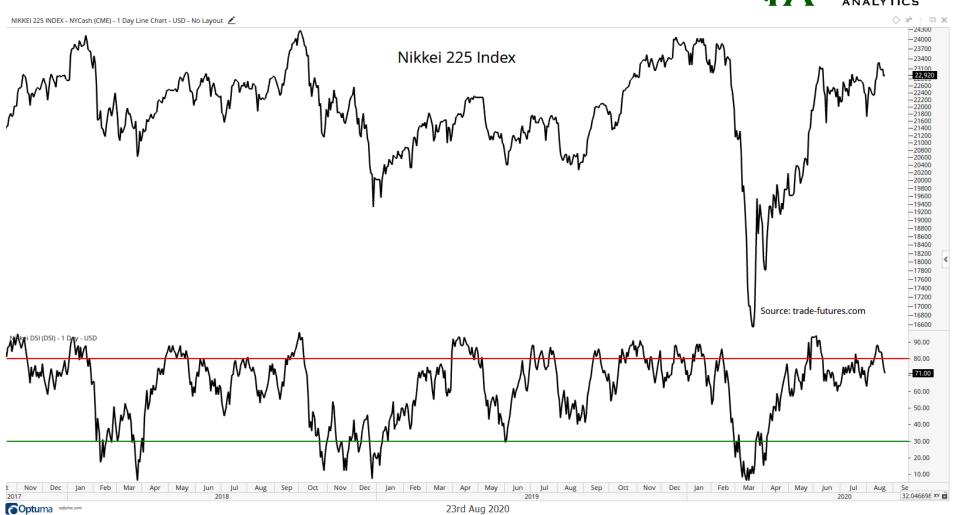




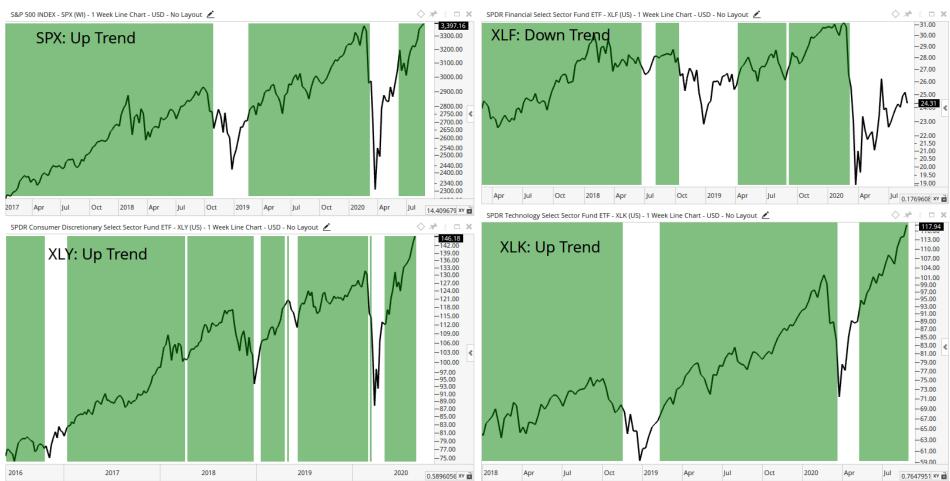




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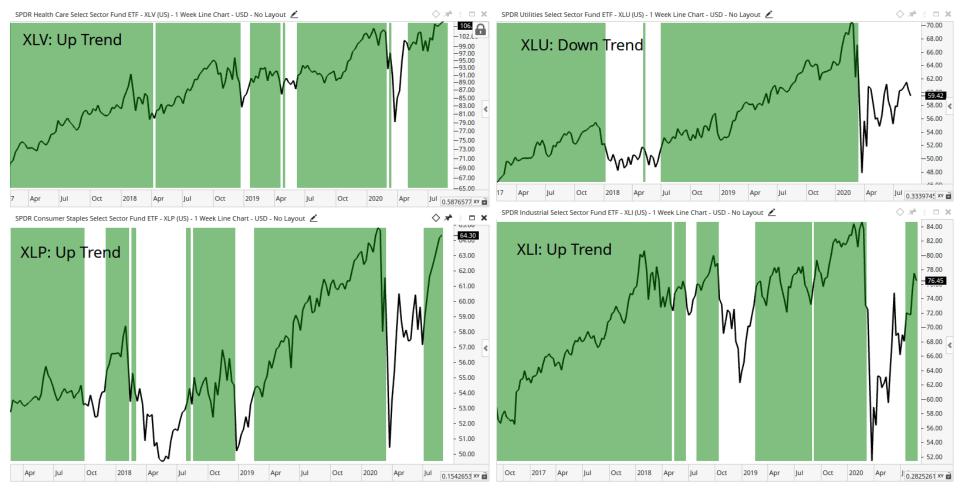




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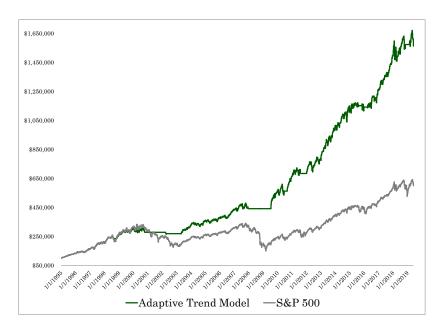


Trend-based analysis is a process built on the idea of enduring minor pullbacks in the anticipating of avoiding protracted drawdowns in financial markets. With a focus on stepping out of the market during large down trends, the Thrasher Analytics Adaptive Trend Model (TAATM) pursues to minimize the "whipsaws" of signals during highly volatile periods of market activity. To accomplish this, TAATM incorporates multiple look-back time periods and incorporates volatility gauges in its evaluation of the equity market's overall trend.

Thrasher Analytics analysis concludes the market's trend is led by the resulting trend of its individual stocks. This means, if the majority of stocks are trending in one direction, then the broad index will be persuaded to follow that trend as well. By incorporating the individual stock trends, volatility, and multiple time periods, the TAATM provides a data-focused look at the overall trend of the U.S. equity market.







	Annualized Return	Annualized Volatility	Beta	Sharpe	Maximum Drawdown
Adaptive	12.5%	10.3%	0.47	0.97	14.1%
S&P 500	8.9%	15.3%	1	0.42	56.6%

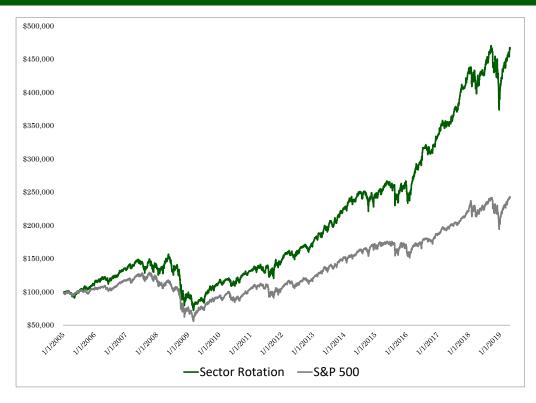
Provided charts, data, and descriptions are a result of a back test using historical market data. No representation is being made that the use of this strategy or any system or data will generate profits. The results do not represent actual results and actual results may significantly differ from the theoretical returns being presented.

Please see complete disclosure for additional information.



hrasher Analytics holds the belief, resulted from an in-depth examination of the performance of the primary S&P sectors, that they historically cycle through periods of strength and weakness. In order to move towards capturing the alpha from this rotation, a mean-reversion model is deployed with a monthly rebalance of the lowest scoring sectors. Using proprietary methods of systematic technical analysis, Thrasher Analytics sector rotation model focuses on equity sectors that are most heavily showing signs of volatility and trend exhaustion and likely to be exposed to a positive shift in investor sentiment. By pairing this mean reversion approach towards sectors with the Adaptive Trend Model for the broad index, a layer of risk management can be achieved through strategy diversification.





	Annualized Return	Annualized Volatility	Beta	Sharpe	Maximum Drawdown
Sector	12.7%	15.9%	0.96	0.64	53.9%
S&P 500	7.5%	14.8%	1	0.34	56.6%

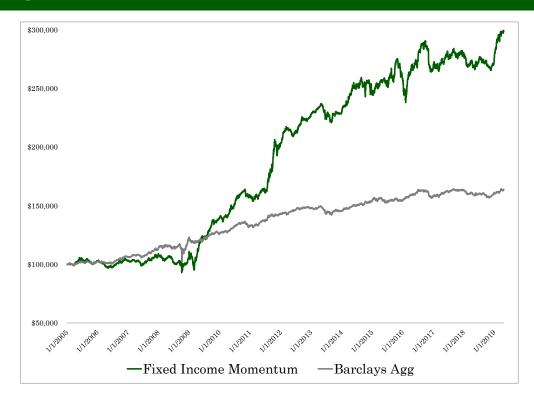
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Lf equities are the speedboats in the sea of financial markets then fixed income securities are the tanker ships. While stocks can move violently in both directions, Thrasher Analytics research has shown that fixed income markets historically show consistent trends. Because of the tanker-like movements displayed by bonds, a quarterly rebalance method is used for the Thrasher Analytics Fixed Income Momentum Model, with a pursuit focusing on the strongest performing corners of the fixed income market. By evaluating the risk adjusted momentum of both longand short-term momentum, the Fixed Income Momentum Model also incorporates a proprietary indicator that acts as a throttle of the momentum score of each fixed income ETF. This indicator penalizes those ETFs that have moved too high and too fast in short-term trading while still allowing overall positive momentum to be the guiding principle of the model.





	Annualized Return	Annualized Volatility	Beta	Sharpe	Maximum Drawdown
Fixed Income	8.3%	8.2%	1.04	0.7	14.9%
Barclays Agg	3.6%	3.7%	1	0.29	11.0%

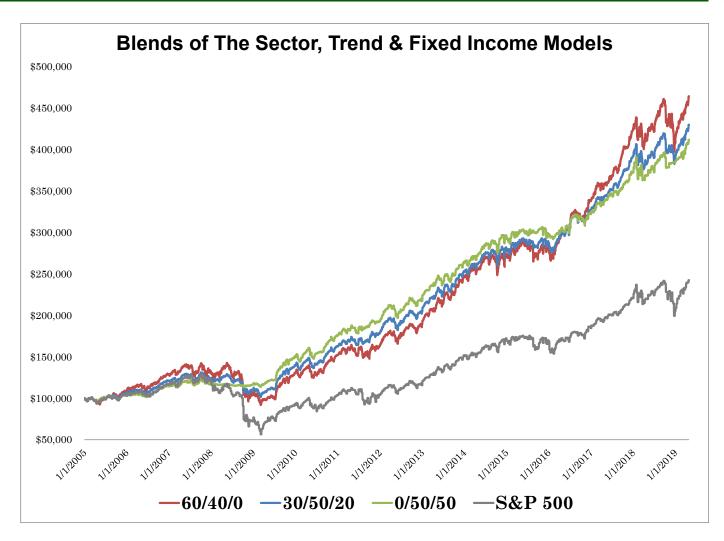
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The concept of diversification is not new to financial markets. While many market participants focus on the diversification of the underlying holdings. This procedure is can be vastly skewed during periods of high market turmoil, in which correlations across asset classes tend to historically rise. Thrasher Analytics believes in diversifying in strategy styles. By using multiple investment philosophies, specifically trend following, mean-reversion, and momentum, a blended model is created that has the ability to adapt to changing market environments and volatility. For example, when equity markets show a strong trend preference, the adaptive S&P 500 trend following component benefits but if there's a shift favoring a range-bound market the sector rotation strategy based on mean-reversion should provide favorable performance.





The above chart shows examples of blending the sector, trend, and fixed income models. Ranging from an all equity approach of 60% in sector rotation, 40% trend and 0% in fixed income; 30% in sector rotation, 50% in trend, and 20% in fixed income; 0% in sector rotation, 50% in trend, and 50% in fixed income.

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Trend (weekly)	Sector Rotation (monthly)	Fixed Income Momentum (quarterly)
Positive	XLK XLY XLC	MUB HYG

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