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ThrasherAnalytics.com

#### THRASHER ANALYTICS MARKET DASHBOARD



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

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

Notable Breadth Data:			
SPX >50MA	70.89%		
SPX >200MA	50.50%		
Nasdaq >50MA	72.82%		
Nasdaq >200MA	77.67%		

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	70%	79%			
Nasdaq 100	70%	80%			
Nikkei	68%	76%			
VIX	23%	17%			
10yr Treasury	72%	68%			
5yr Treasury	61%	58%			
CRB Index	71%	70%			
Gold	88%	86%			
U.S. Dollar	15%	16%			

\*Green<25% Red>80%

source: trade-futures.com

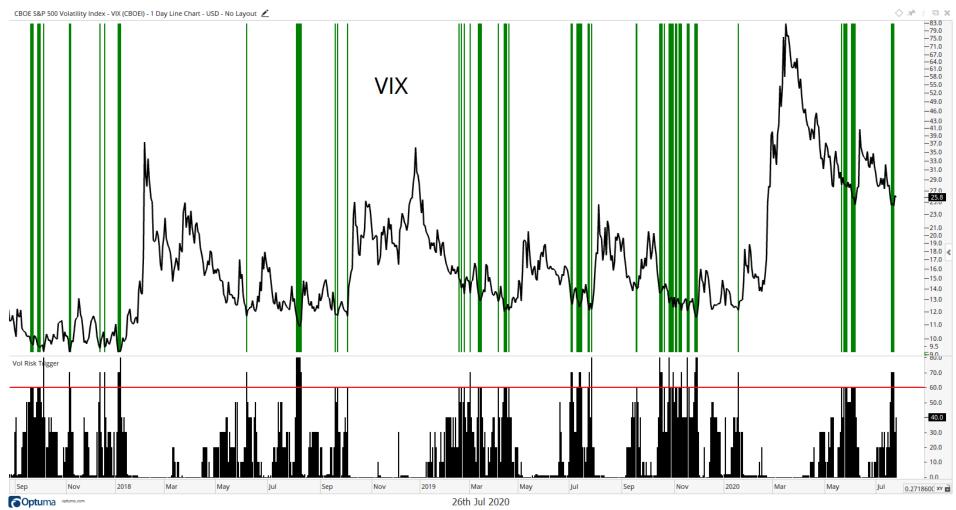
#### SECTOR DASHBOARD



Sector	> 50MA	> 200MA	1wk Perf ✔	1mo Perf	3mo Perf	12mo Perf
SPDR Energy Select Sector Fund ETF	False	False	2.23%	1.08%	8.35%	-40.92%
SPDR Financial Select Sector Fund ETF	True	False	1.34%	5.61%	11.64%	-15.08%
SPDR Consumer Discretionary Select Sector Fund ETF	True	True	1.27%	7.10%	20.75%	9.59%
SPDR Consumer Staples Select Sector Fund ETF	True	True	0.88%	7.29%	5.83%	4.21%
SPDR Materials Select Sector Fund ETF	True	True	0.51%	12.64%	23.29%	3.45%
SPDR Utilities Select Sector Fund ETF	True	False	0.12%	6.75%	3.36%	0.62%
SPDR Industrial Select Sector Fund ETF	True	False	-0.22%	7.79%	16.68%	-8.87%
SPDR Real Estate Select Sector Fund ETF	True	False	-0.63%	2.47%	5.2%	-6.17%
SPDR Health Care Select Sector Fund ETF	True	True	-0.75%	7.52%	4.8%	14%
SPDR Communication Services Select Sector ETF	True	True	-0.98%	4.03%	16.83%	12.78%
SPDR Technology Select Sector Fund ETF	True	True	-1.53%	2.86%	18.7%	27.13%







As noted in my special update last week, the VRT produced a signal as spot VIX rounded below 24 and made a run at the end of the week to 27 before finishing just under 26.







The S&P 500 price action is beginning to mimic last February: a gap down, consolidation, a move above the prior pre-gap high that creates a bearish momentum divergence and then a move back below the prior high. 3230 once again becomes a critical level for the equity index as a lack of recovering above it will begin to give more weight to the lower high in momentum and give the potential for a move back to the 200-day MA. In the divergence section of the letter you'll notice most sectors have above-average bearish divergences, there's a strong headwind against stocks right now. This doesn't mean they can't overcome it, but momentum is not on their side from an index or individual equity perspective coming into this week.

Plenty of catalysts come with this week of trading, including earnings from AAPL, AMZN, GOOGL, FB, GE, SBUX, SHOP, V, and EBAY (to name a few) as well as the first look at Q2 GDP numbers and an FOMC meeting. And we can't forget the much anticipated bill from Congress for a second round of stimulus, which Sec. Mnuchin over the weekend said will be introduced on Monday.







The ratio between Consumer Discretionary and Consumer Staples continues to trade around the prior 2018 level, finishing the week back below. I've mentioned before that Staples have become one of my preferred sectors, so I expect we see a failed breakout as these two consumer categories battle it out.



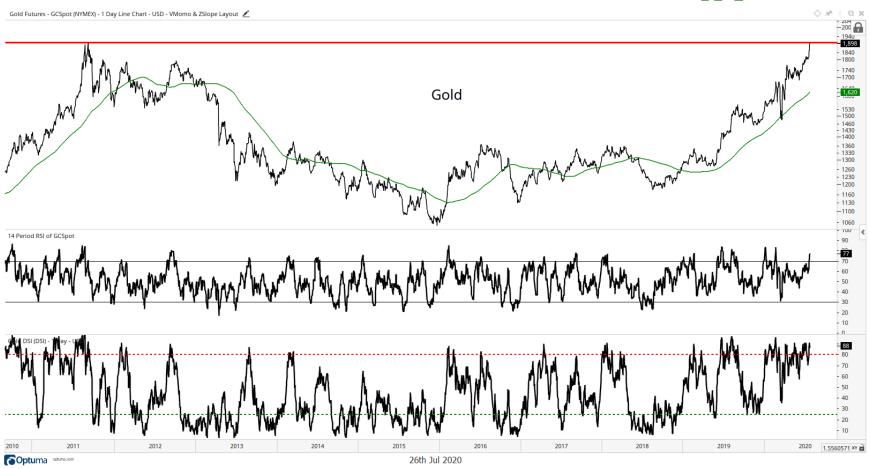




Still no resolution in crude oil as price remains below the important resistance/support level around \$42.

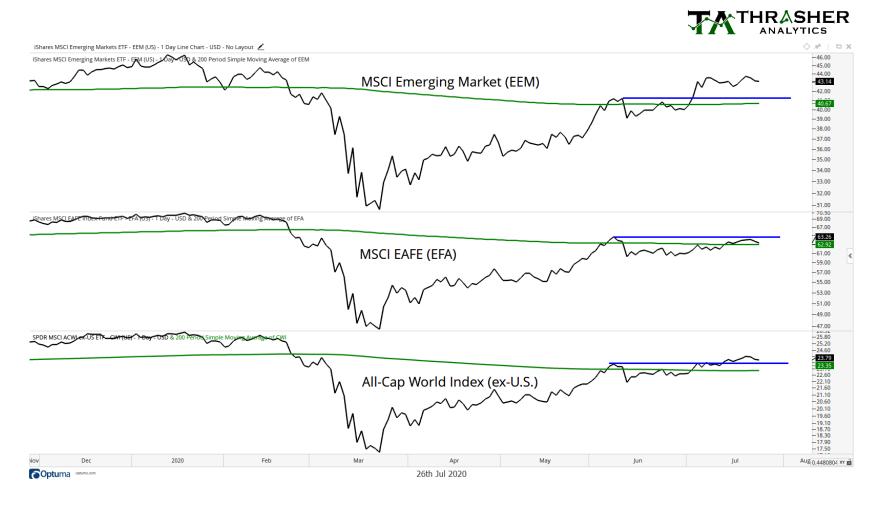






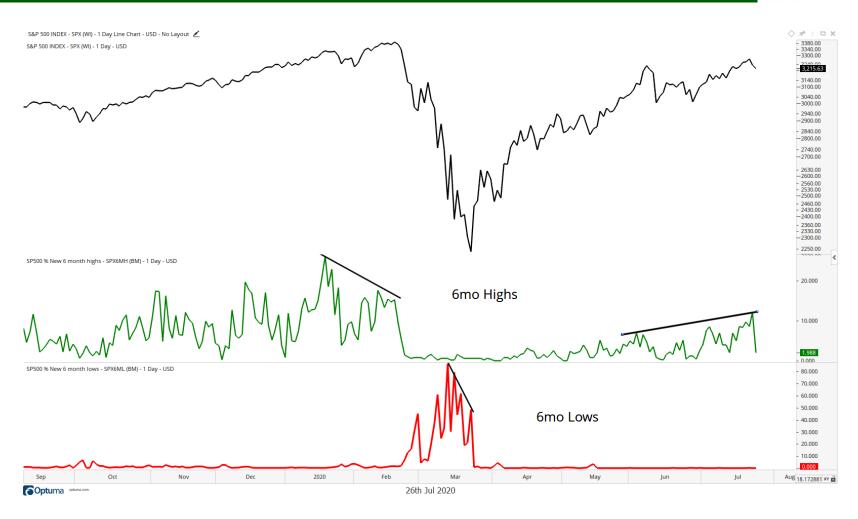
Gold has had a strong move in recent weeks, only to be overshadowed by the huge pop in silver prices late-last week. Gold now sits just under \$1900, which was the 2011 peak. Going into that '11 high, momentum and sentiment (bottom two panels of the above chart) had begun to diverge, making lower highs against the higher high in price. We don't have the same setup today, with both momentum and sentiment sitting at or near their highs. This suggests that while price was appearing exhausted at its last attempt at \$1900 but looks stronger today. The only caveat I'd give here is the U.S. dollar, which has been getting smashed lately and could be due for a bounce/relief rally that could put some pressure on gold but longer-term gold's trend still looks bullish.





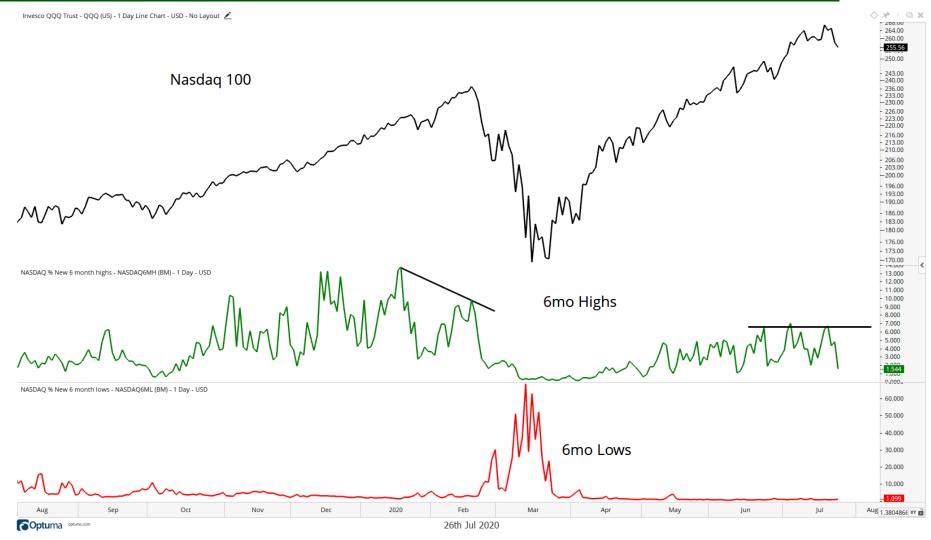
Emerging markets have benefited from the weakening dollar, rising solidly above the 200-day MA but has since consolidated while EAFE has also gotten above the long-term MA it's still trading under the prior June high. ACWI ex-U.S. is also above the 200-day and June high but like the others, has begun to flatten out. I'm watching these three charts for insight into int'l markets, a failure to hold the June levels for EEM and ACWI would be bearish.





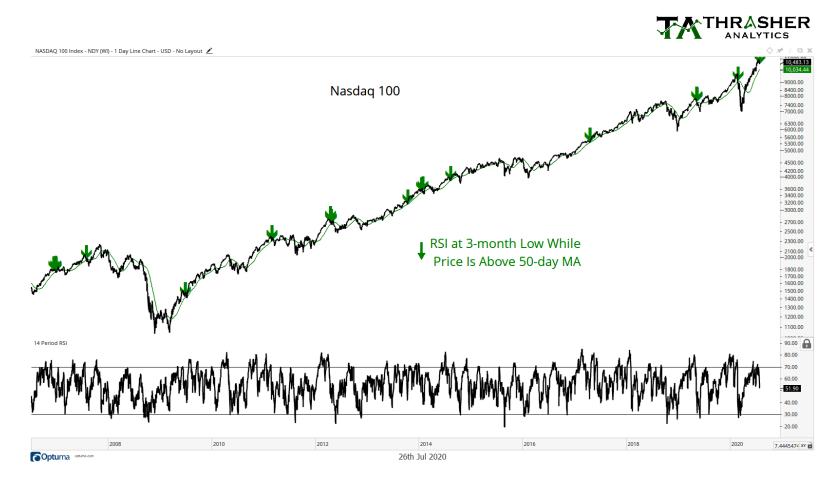
There's two ways to look at this chart, one is that the trend in new 6-month highs has been expanding and also that while the index is nearly back to the Feb. high, less than 10% of stocks are even at a 6-month high at this point. I view new high data as longer-term reads on breadth while % above moving averages as short-term and more tactical in nature. The fact that more stocks have been steadily rising to new 6-month highs is a positive sign. On the next page we'll look at this data for the Nasdaq 100 which gives a different conclusion.





While Nasdaq 100 has been the stronger index, it's had less participation in the up trend. We couldn't get above 7% of Nasdaq 100 stocks at a 6-month high all while the index was trucking higher. The idea that the focus of the strength in equities has been extremely narrow is unlikely new news, but this chart shows it graphically, just how few stocks have been rallying with the index outside of the FAAMG names.

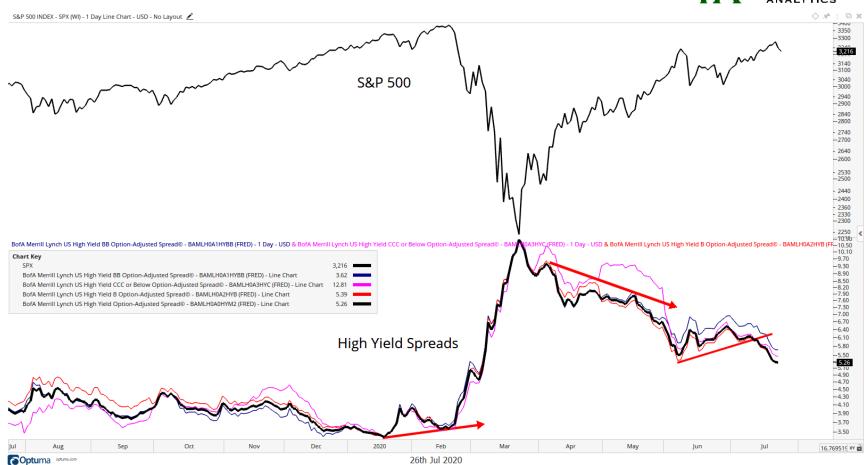




Last week's decline in equities, which shouldn't have been too much of a shock with the VRT signal and build up in bearish divergences I wrote in my last note, sent the 14-day RSI for the Nasdaq 100 to a 3-month low. It's interesting to see such large drop in momentum when price is just off its high. I ran a study and found the prior times that RSI fell t a 3-month low while price was above the 50-day moving average, plotted with green arrows above. My takeaway here is that price often continued to decline to at least the 50-day MA. Some instances saw short-lived weakness while others were setups for more protracted declines. But nearly all of them saw a test of the intermediate-term moving average which means we could see the Nasdaq back near 10,00.



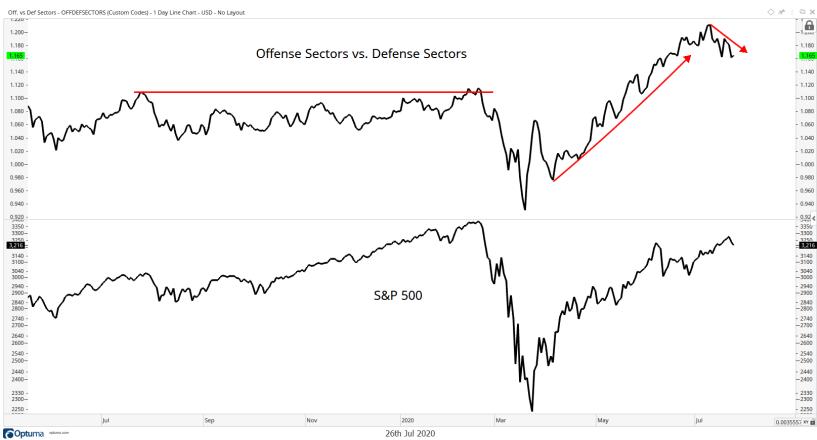




Earlier this month bond spreads had stopped declining and were making a slightly higher low off the initial June low. A wider (read: higher) spread is the fixed income market's way of showing concern, demanding a higher premium for HY debt. Thankfully, those spreads have continued to work their way lower now, falling below the June level.

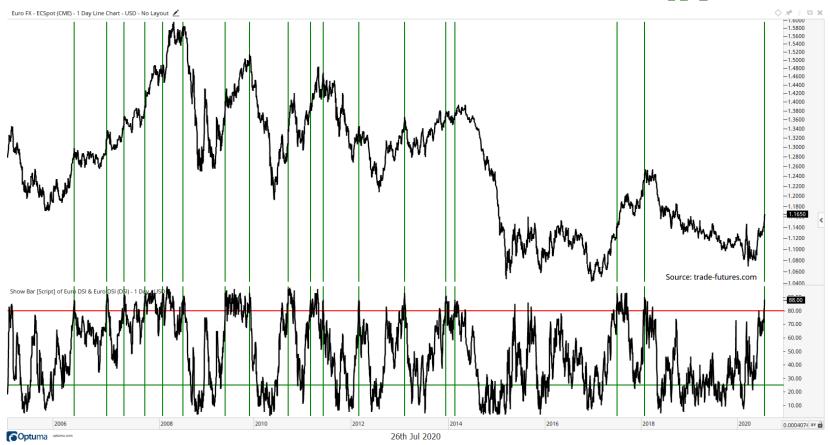






Offense sectors have begun to weaken relative to the defensive sectors. Tech has obviously been the main culprit here, with many names in this space seeing their shares put under pressure. From a sector standpoint, things appear to be cooling off a bit as the market shows a stronger preference for corners of the market with lower betas and lower perceived risk.

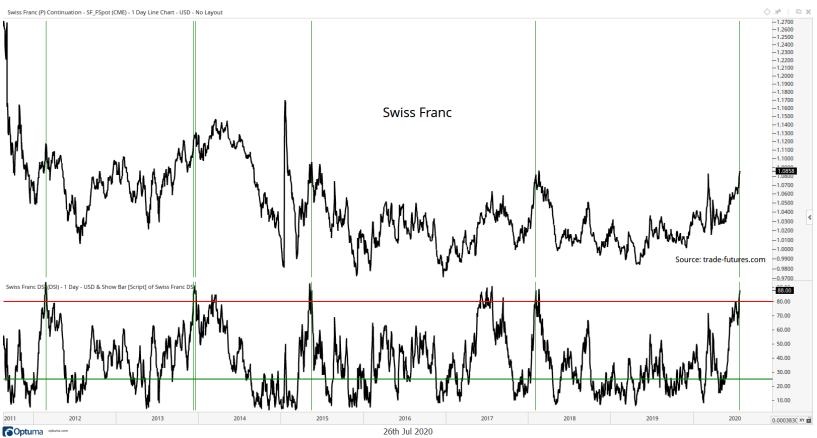




As the U.S. dollar has weakened, the euro has strengthened which has taken the % Bullish for the euro up to 88% as of Friday. This is the highest level for the euro sentiment since January of this year. The green lines on the cart above note when the Daily Sentiment Index (DSI) has crossed above 88% since 2006. As you can see, this has created a headwind for the euro in the past, with varying degrees of price response. The resulting price action can be put in roughly two buckets, the 2006-2007 period where elevated sentiment caused a short pause in the euro's up trend, or 2011-2014 when elevated sentiment caused a larger response in price as the euro weakened.

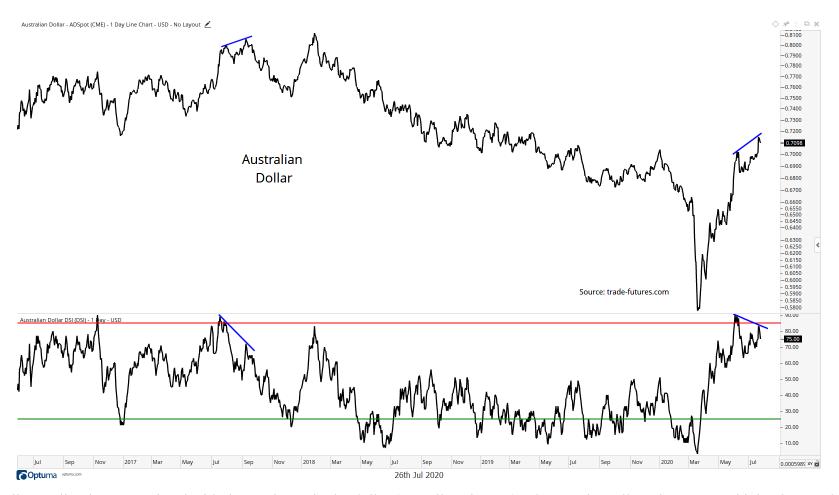






Like the euro, the Swiss Franc has been moving higher on the back of the weakness in the dollar. And also like the euro, it has a DSI Bullish reading of 88% which has been tough to improve upon and price to continue to rally after. This has occurred several times in the last ten years, each resulting in a weaker Franc. I'll be watching the strength (or lack there of) in both the euro and the franc going forward as key 'tells' for what the U.S. dollar may do next.

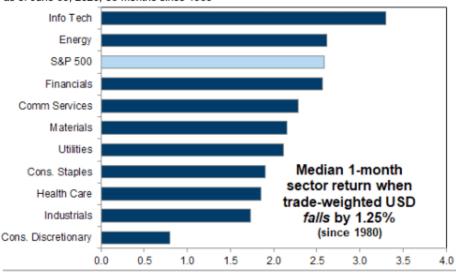




The Australian Dollar has appreciated with the weakness in the dollar (as well as the yen). The Aussie Dollar's latest move higher has not been confirmed by sentiment, which has made a clear lower-high under 85% bullish. This happened back in 2017 as well - a bearish divergence in sentiment as price made a new high which resulted in a weakness in the Aussie dollar and roughly marked a major top in the currency from down under.

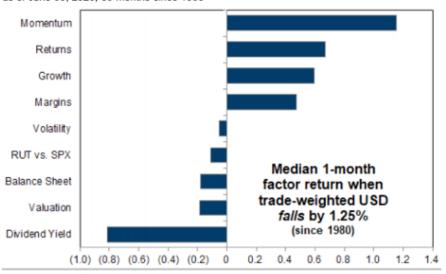


Exhibit 2: Sector performance during months of sharp dollar declines as of June 30, 2020; 53 months since 1980



Source: FRB, FactSet, Goldman Sachs Global Investment Research

Exhibit 3: Factor performance alongside sharp dollar downside as of June 30, 2020; 53 months since 1980

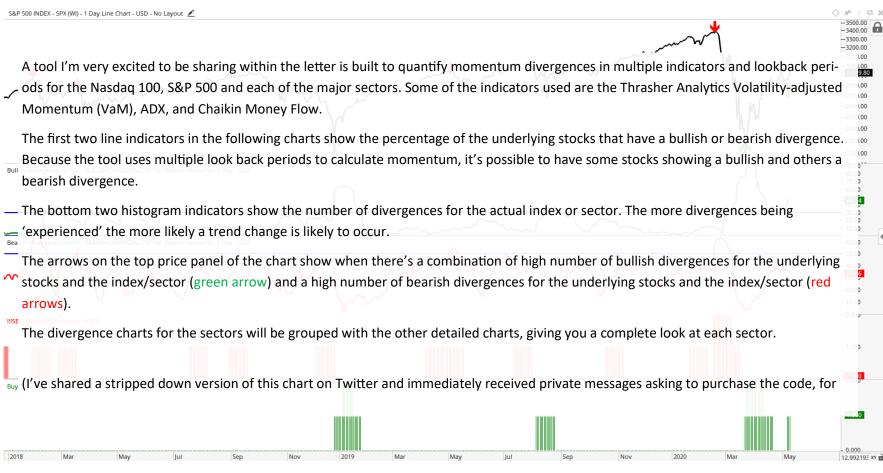


Source: FRB, Goldman Sachs Global Investment Research

The above table comes from Goldman Sachs and shows the performance of U.S. sectors and factors when the dollar weakens. The way I view this is in two ways: If we see the dollar begin to strength from here, this table suggests consumer disc. industrials, health care and staples should do well and dividend yield and valuation should outperform. However, if the dollar continues lower then tech and momentum appear to the be strongest benefactors.

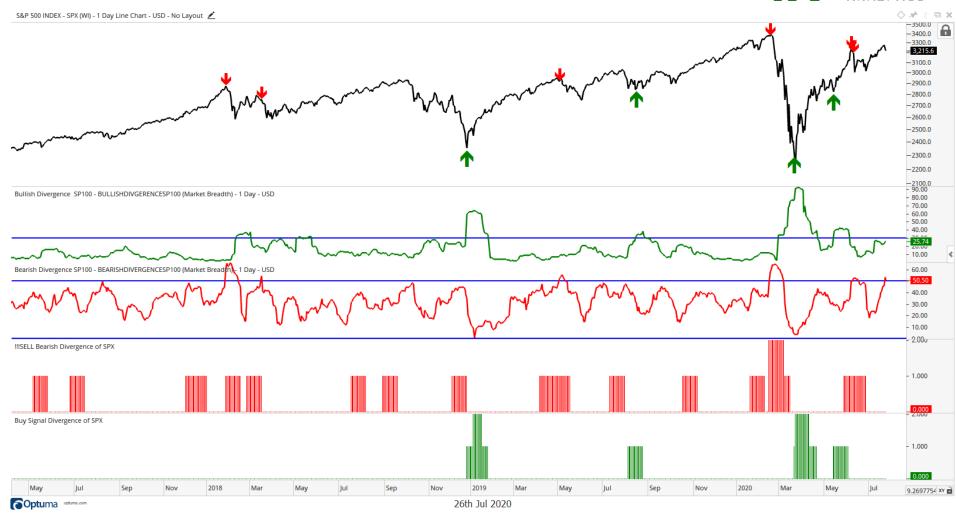












There's been a continued rise in bearish divergences for S&P stocks, now at 50%.







We are now at 69% of the Nasdaq with a bearish divergence and a build up of 3 divergences on the index itself. This mirrors what we saw earlier this year ahead of the March decline.





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.





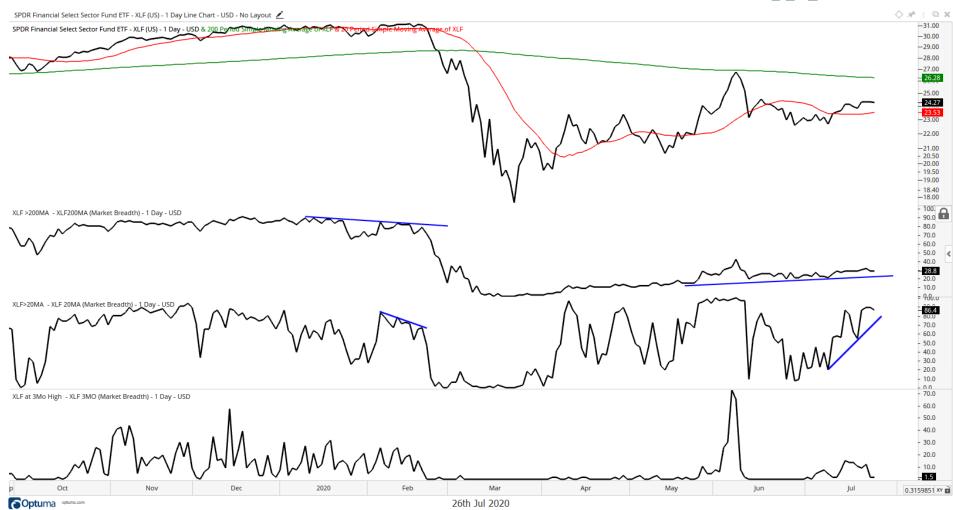




XLF chart still sits below the 200-day MA with whipsawing price action giving no clear indication of strength or weakness.



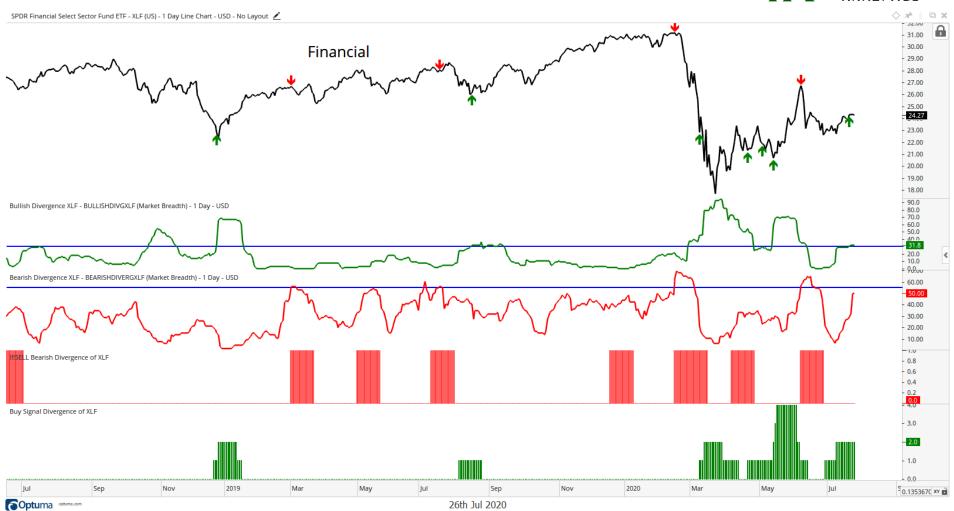




Breadth remains fairly supportive.



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XLK is above the prior 2020 high but has a bearish divergence in momentum and VaM on both the daily and weekly charts.







Declining % of tech stocks above the 200-day MA with a ceiling on the % making 3-month high just under 30%.

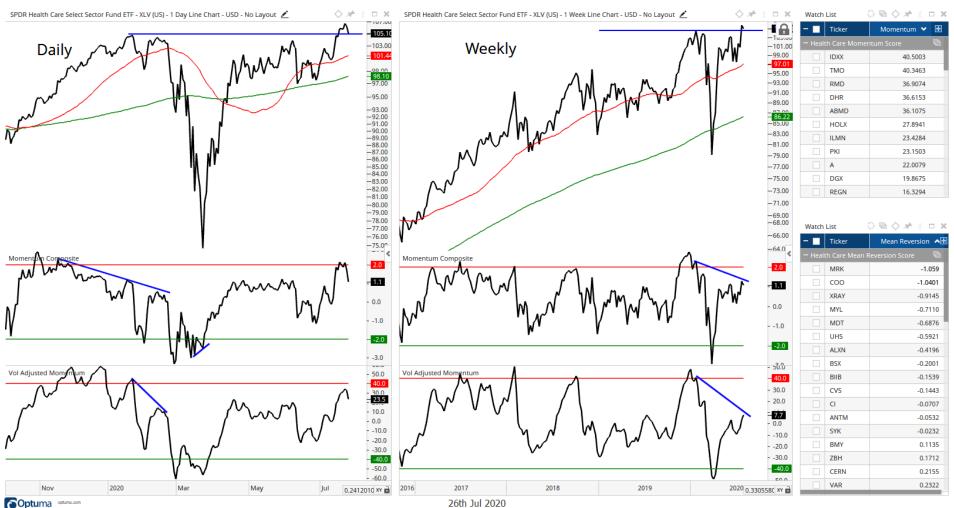


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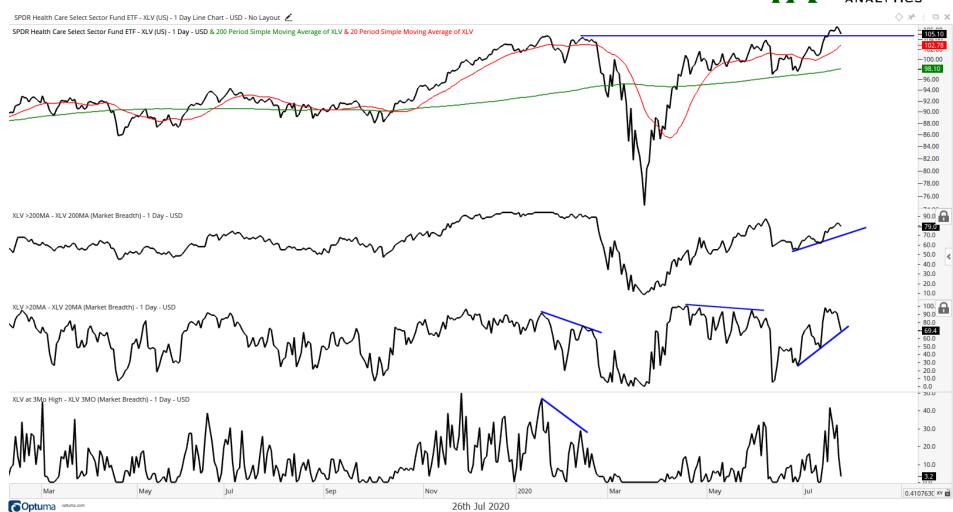




XLV broke above the prior 2020 high but looks to test that level after last week's drop as momentum comes off an 'overbought' level. Bearish divergences are shown in the weekly chart for both indicators.







Breadth remains supportive





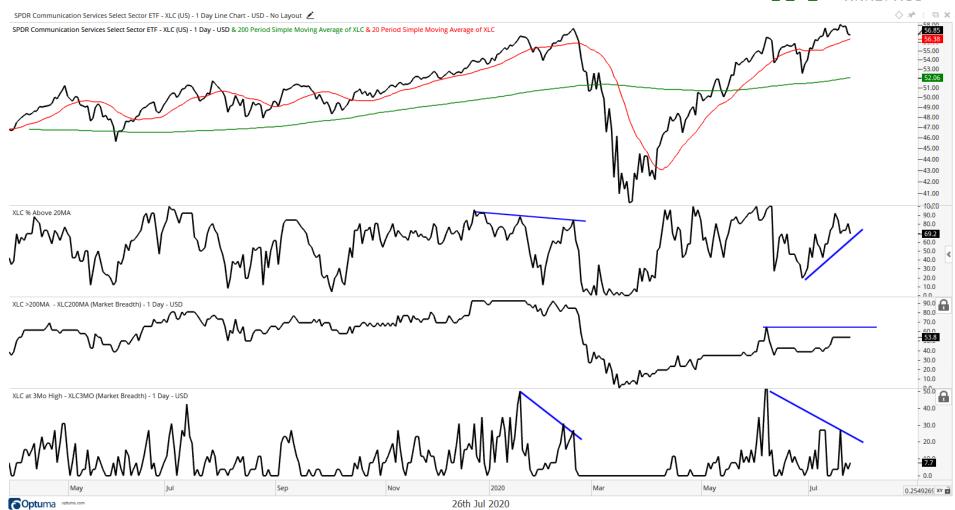






XLC failed to hold above its prior high with bearish divergences in momentum and VaM.





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

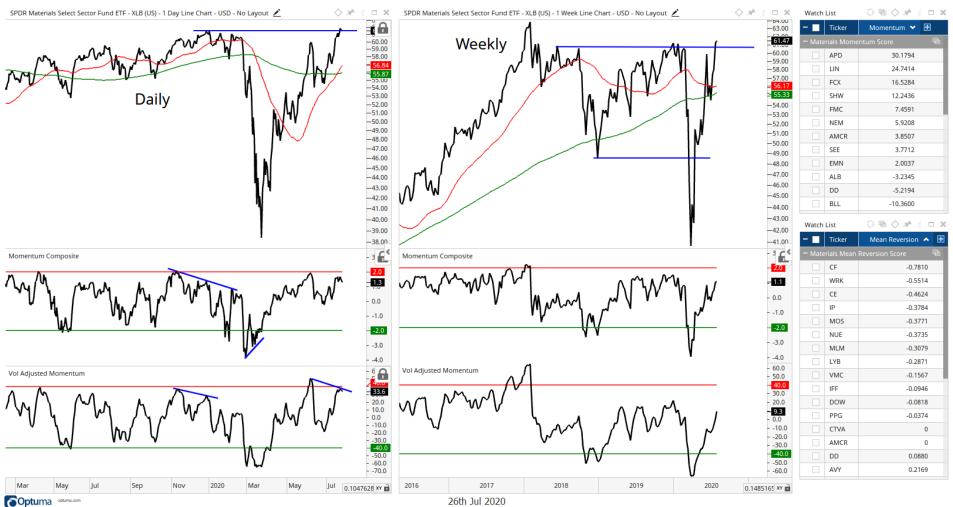


### THRASHER ANALYTICS





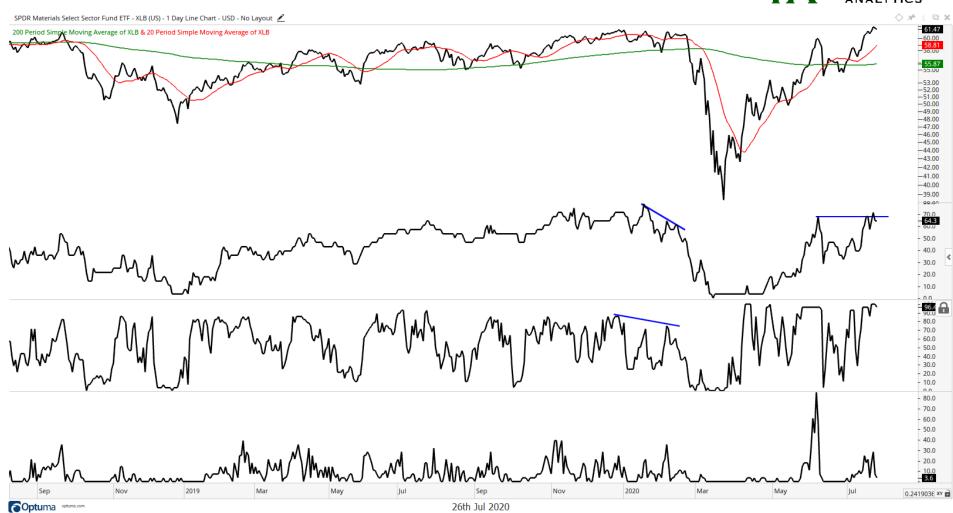




XLB is holding its latest breakout but has bearish divergences on the indicators.







Breadth is positive for XLB.



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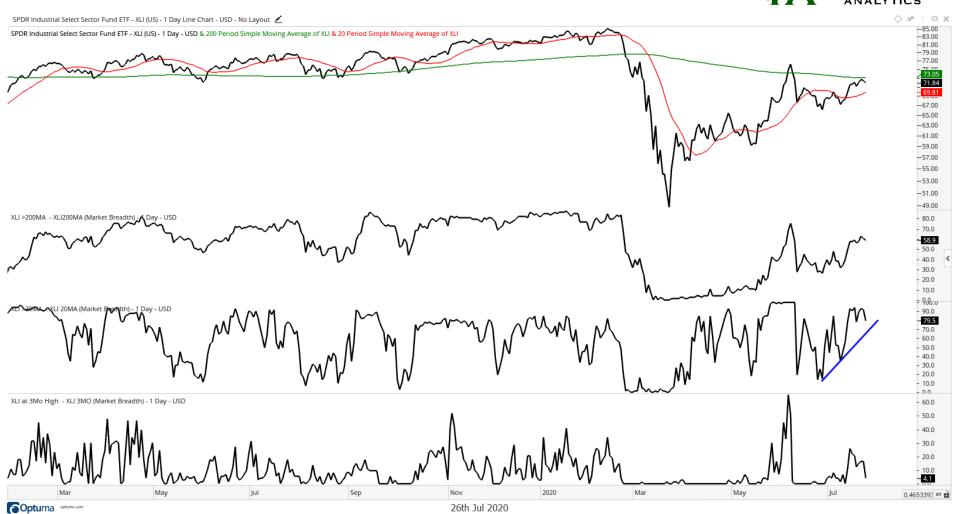




XLI is under its 200-day MA but holding the 50-day MA as support.

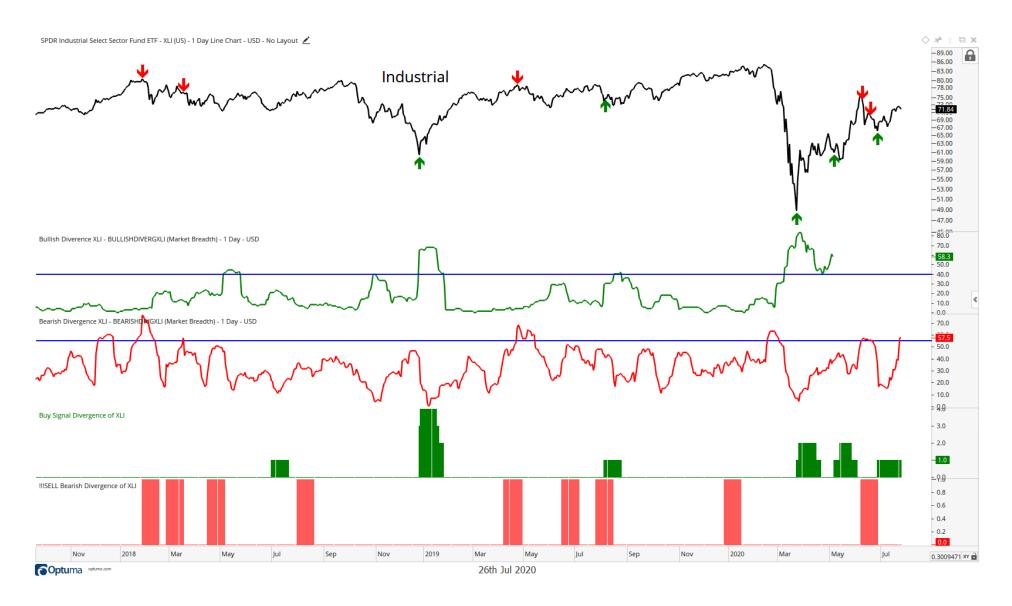






Breadth continues to track price trend.











XLP has broken above its consolidation level and above the 200-day MA. Momentum is stretched but no bearish divergence.

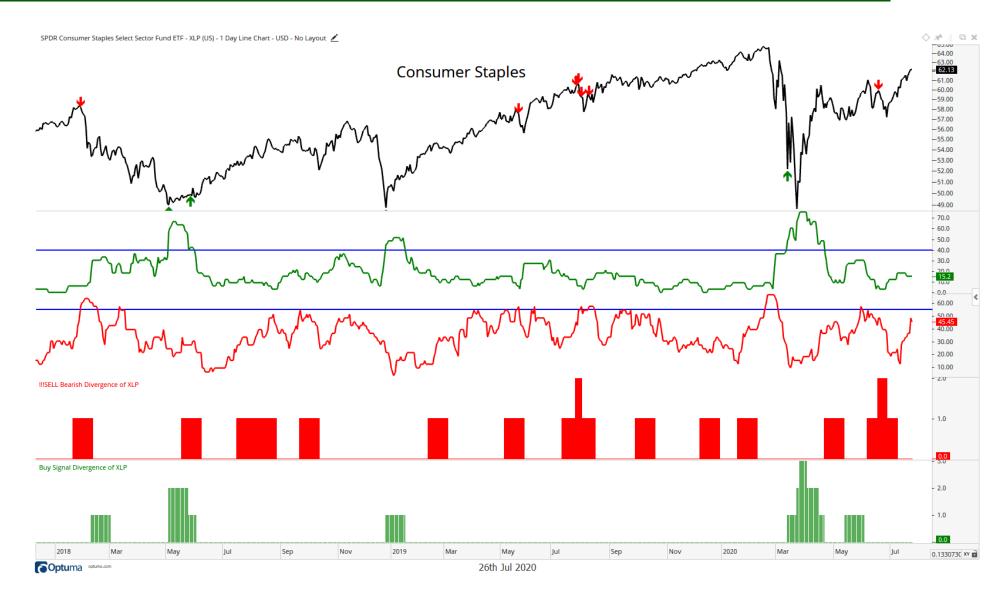






Breadth is supportive.









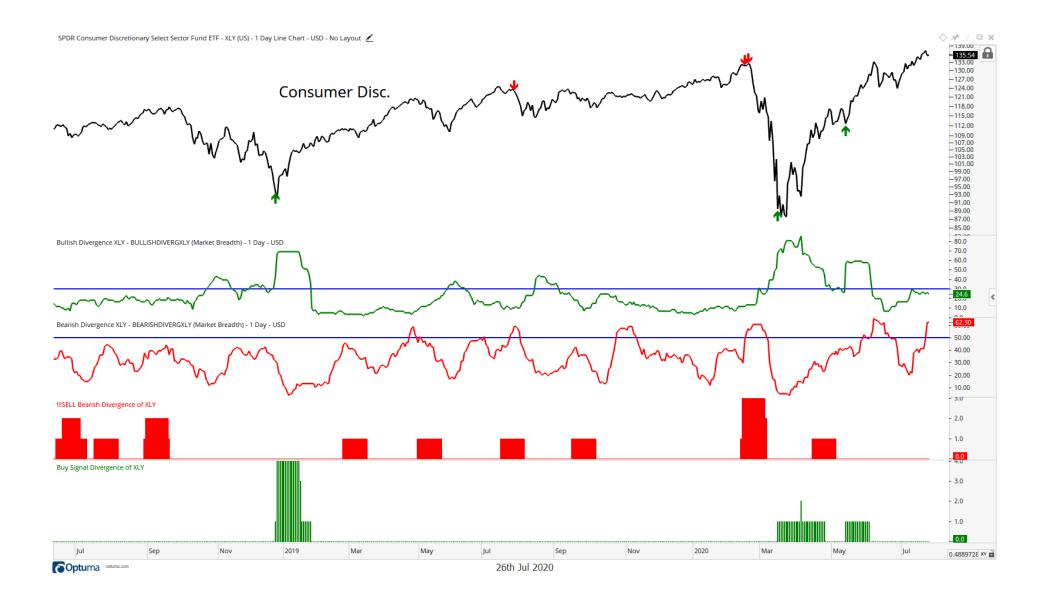


XLY holds above the prior high with bearish divergences on both daily indicators.



Breadth remains supportive however still under the prior high in %200MA.









XLRE remains below the 200-day MA







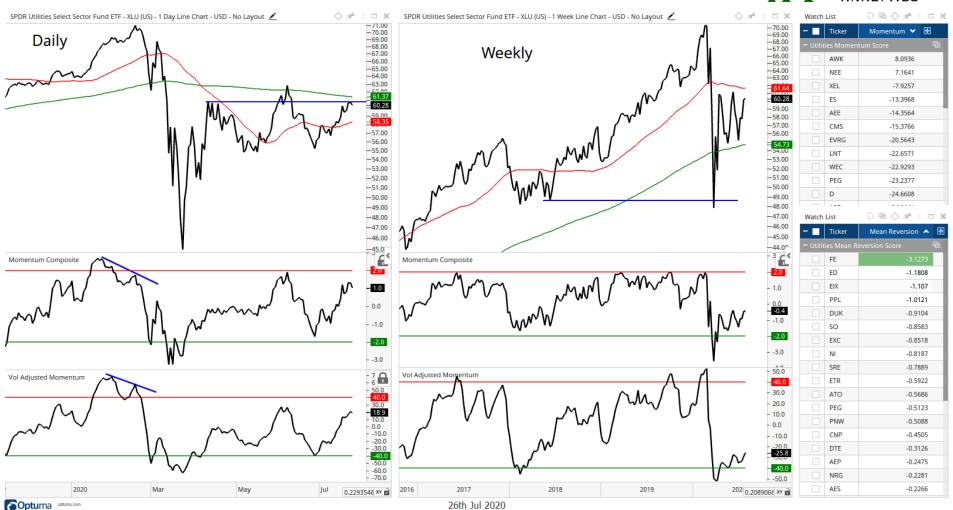
Breadth tracking price.











XLU failed to break above 200-day MA and has begun to consolidate.







Breadth still waiting to expand with price.







Market	% Bullish 🛕	5MA	History <b>⊞</b>	Code	% Bullish 🔨	5MA	History
US Dollar DSI	15	15.8		Copper DSI	69.00	76.60	
VIX DSI	23	16.6		SPX DSI	70.00	79.00	
Coffee DSI	32.00	25		Nasdaq DSI	70.00	79.80	
Natural Gas DSI	33.00	24.2	Many de Maria	British Pound DSI	70.00	68.00	
Corn DSI	33.00	29.60	V V	EuroDollar DSI	71.00	71.00	W
Cocoa DSI	34.00	30.60		CRB Index DSI	71.00	70.00	
Sugar DSI	40.00	44.00		Cattle DSI	72.00	73.60	
Lean Hog DSI	40.00	34.00		10Y DSI	72.00	68.00	Management of the second
Cotton DSI	52.00	63.60		Lumber DSI	73.00	68.20	
Orange Juice DSI	56.00	53.20		Australian Dollar DSI	75.00	78.80	
Heating Oil DSI	58.00	59.40		Platinum DSI	77.00	79.20	
Wheat DSI	61.00	56.40		New Zealand Dollar DSI	77.00	81	
5YR DSI	61.00	57.80	Marian and and account	Silver DSI	81	88.4	
Gasoline DSI	63.00	60.40		Swiss Franc DSI		79.60	
Crude Oil DSI	63.00	61.60		Gold DSI		86	
Nikkei DSI	68.00	75.80		Euro DSI		85.4	A. A
Mexican Peso DSI	68.00	67.80		Palladium DSI	89	85	

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







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26th Jul 2020











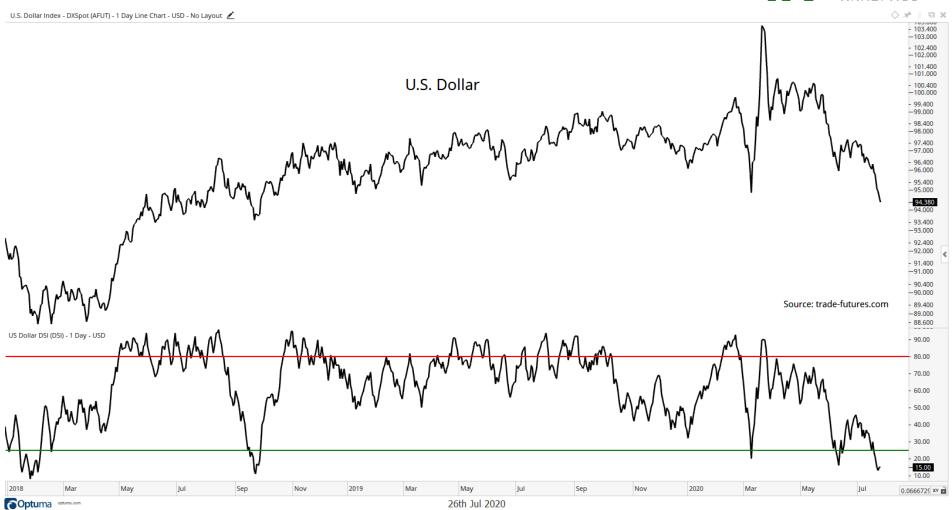
















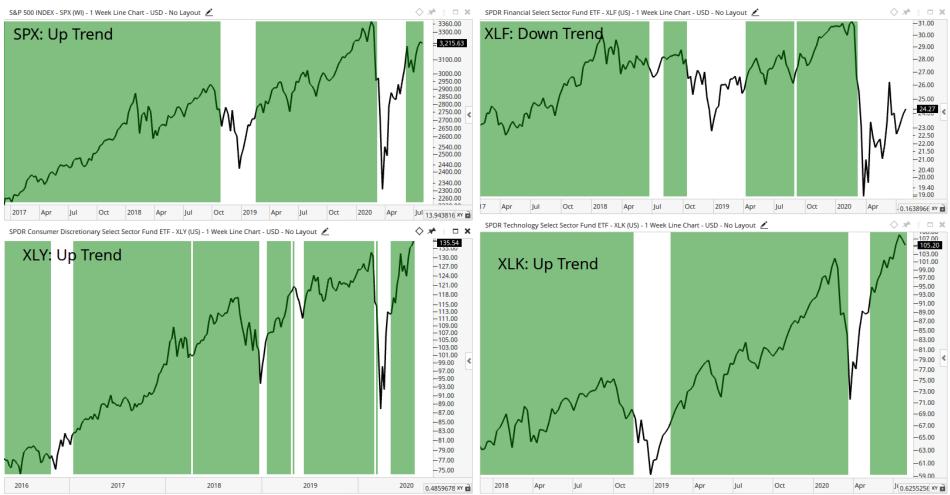




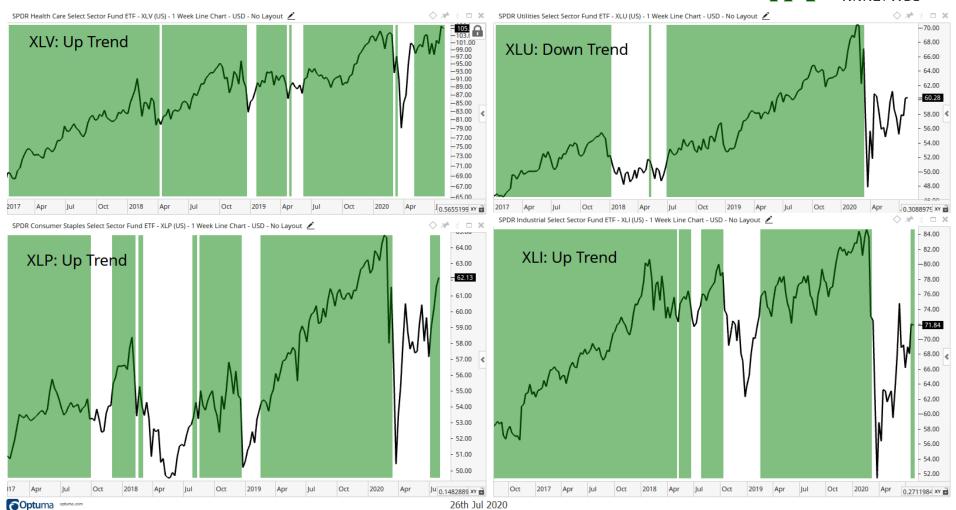


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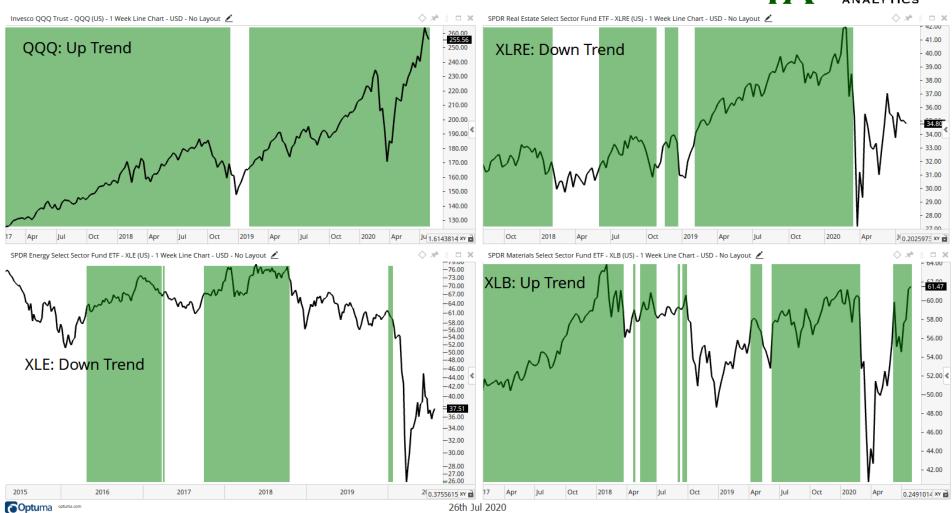
# THRASHER ANALYTICS



26th Jul 2020







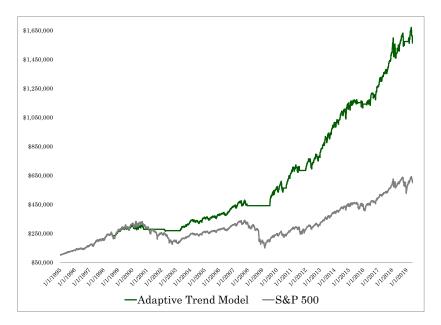


Trend-based analysis is a process built on the idea of enduring minor pullbacks in the anticipating of avoiding protracted drawdowns in financial markets. With a focus on stepping out of the market during large down trends, the Thrasher Analytics Adaptive Trend Model (TAATM) pursues to minimize the "whipsaws" 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 Ratio	Maximum Drawdown
Adaptive Trend	12.5%	10.3%	0.47	0.97	14.1%
S&P 500	8.9%	15.3%	1	0.42	56.6%

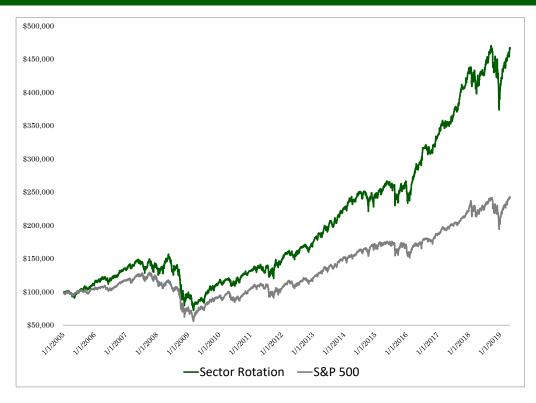
Provided charts, data, and descriptions are a result of a back test using historical market data. No representation is being made that the use of this strategy or any system or data will generate profits. The results do not represent actual results and actual results may significantly differ from the 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 Ratio	Maximum Drawdown
Sector Rotation	12.7%	15.9%	0.96	0.64	53.9%
S&P 500	7.5%	14.8%	1	0.34	56.6%

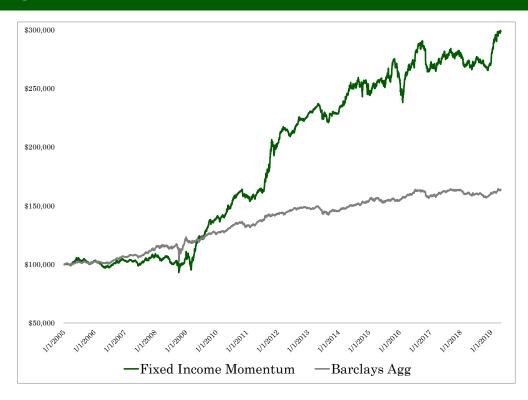
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Lf equities are the speedboats in the sea of financial markets then fixed income securities are the tanker ships. While stocks can move violently in both directions, Thrasher Analytics research has shown that fixed income markets historically show 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 Ratio	Maximum Drawdown
Fixed Income Momentum	8.3%	8.2%	1.04	0.7	14.9%
Barclays Agg	3.6%	3.7%	1	0.29	11.0%

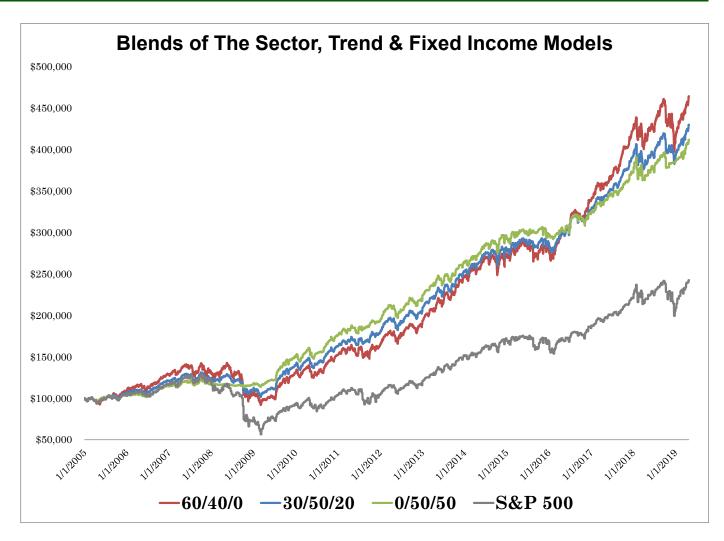
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The concept of diversification is not new to financial markets. While many market participants focus on the diversification of the underlying holdings. This procedure is can be vastly skewed during periods of high market turmoil, in which correlations 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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