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THRASHER ANALYTICS MARKET DASHBOARD



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

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

Notable Breadth Data:		
SPX >50MA	50.89%	
SPX >200MA	56.83%	
Nasdaq >50MA	34.95%	
Nasdaq >200MA	72.82%	

	Index & Sector					
Adap	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					
	0/ 70 #11 1	5 1 364			
	% Bullish	5-day MA			
S&P 500	49%	59%			
Nasdaq 100	45%	56%			
Nikkei	66%	72%			
VIX	43%	37%			
10yr Treasury	73%	75%			
5yr Treasury	73%	74%			
CRB Index	55%	53%			
Gold	53%	58%			
U.S. Dollar	35%	34%			

*Green<25% Red>80%

source: trade-futures.com

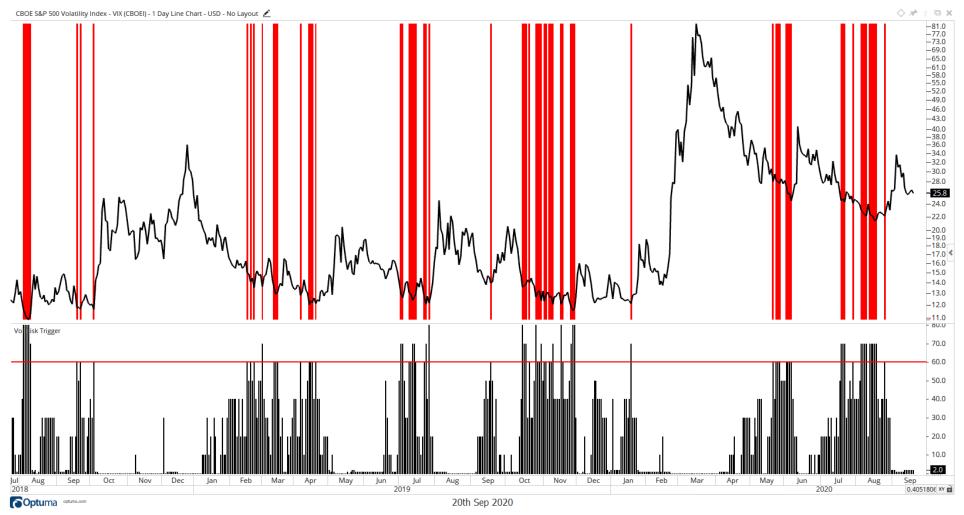
SECTOR DASHBOARD



Sector	> 50MA	> 200MA	1wk Perf 🕶	1mo Perf	3mo Perf	12mo Perf
SPDR Energy Select Sector Fund ETF	False	False	3.03%	-10.35%	-16.35%	-45.75%
SPDR Industrial Select Sector Fund ETF	True	True	1.51%	2.64%	12.4%	-0.43%
SPDR Materials Select Sector Fund ETF	True	True	1%	4.90%	16.63%	12.02%
SPDR Health Care Select Sector Fund ETF	False	True	0.91%	-1.73%	5.76%	15.42%
SPDR Real Estate Select Sector Fund ETF	False	False	0.14%	-1.49%	-0.31%	-9.69%
SPDR Financial Select Sector Fund ETF	True	False	-0.12%	0.33%	2.24%	-13.46%
SPDR Utilities Select Sector Fund ETF	False	False	-0.7%	-2.52%	-1.07%	-8.29%
SPDR Technology Select Sector Fund ETF	False	True	-1.06%	-2.88%	8.56%	37.5%
SPDR Consumer Staples Select Sector Fund ETF	True	True	-1.48%	-1.68%	6.27%	4.62%
SPDR Consumer Discretionary Select Sector Fund ETF	True	True	-1.49%	-1.67%	12.08%	17.44%
SPDR Communication Services Select Sector ETF	False	True	-1.74%	-2.81%	5.48%	14.97%

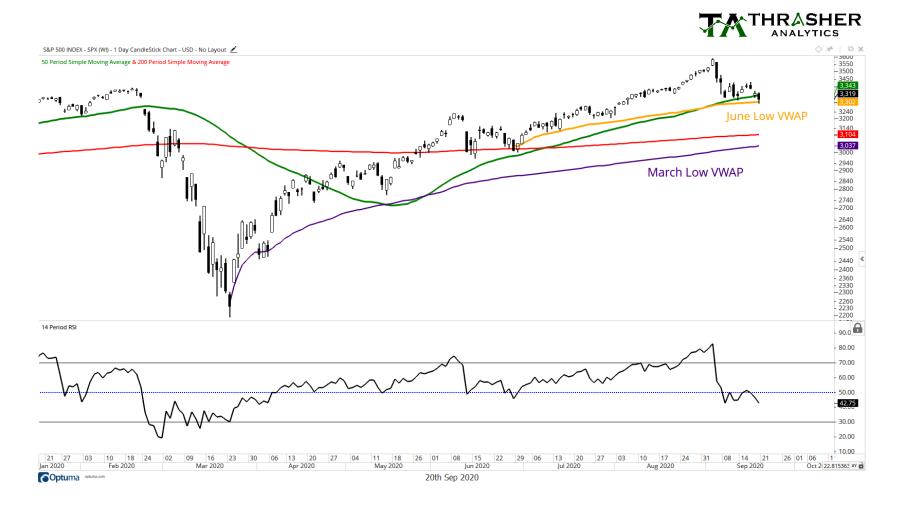






The VIX has consolidated briefly between 25 and 26.50 and we worked through Triple Witching option expiration last week. Many traders question why volatility hasn't confirmed the weakness in equities by making a higher high above 32. It's important to remember what VIX is a gauge of, 30-day volatility of the S&P 500, because volatility is already elevated, it's already showing an above-average expectation for increased price volatility within the equity index. Keep in mind, vol began moving higher well ahead of the weakness in stocks, so now we've started to see equities begin to 'respond' to the heightened expectation of wider daily swings in price. While VIX didn't see much action late last week, SKEW (measure of deep OTM options) did pop back near its highs, so the market is already expecting above-average swings which means in order to get significant upward moves in vol, then something more significant than a slow decline in equities will need to occur at this point.



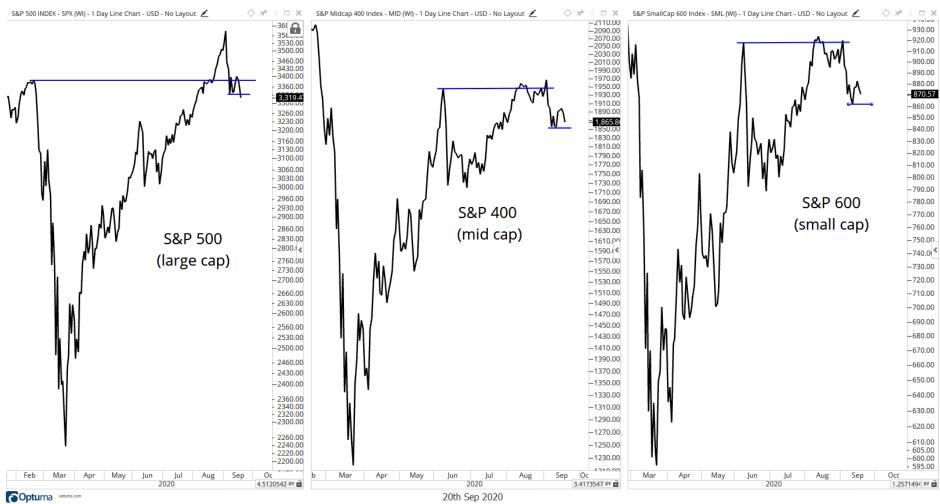


Stocks continued to weaken last week, closing out the week below the 50-day MA for the S&P 500. Friday's low gave a kiss to the VWAP off the June low, the last period of weakness. Below these levels we have the 200-day moving average which is possible we see a test of if selling expands beyond just the FAAMG names and into the rest of the index (more on this later).

The extremely sad news of RBG passing will bring up a new battle in D.C. as Dems and GOP fight over when they should replace the arguably massive shoes of the late justice Ginsburg. I'm sure the stimulus package will get tied to this topic. Earnings are light this week but the Fed speaking schedule is not with Powell alone in the spotlight three times this week. The first Presidential debate is next week so that's something to look forward to (kidding).



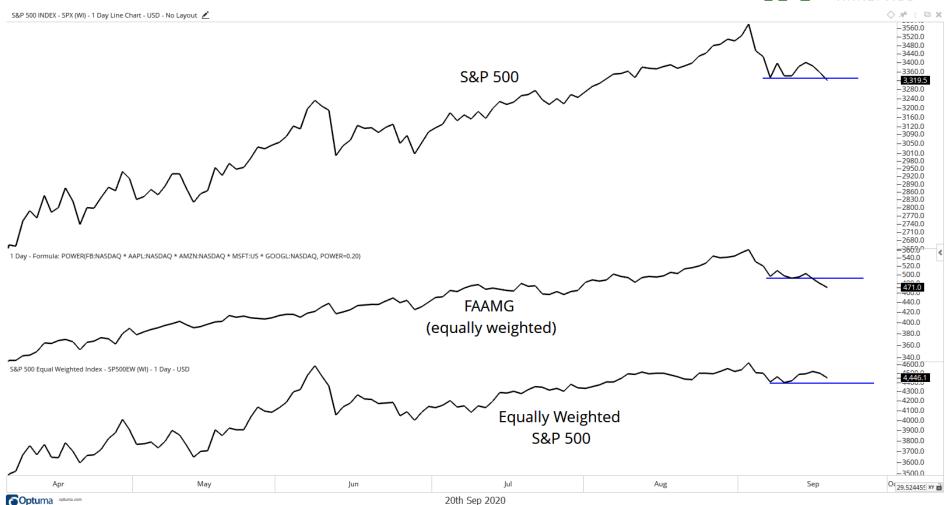




This chart continues to pop up with interesting observations. Mid and small caps lead in weakness ahead of the breakdown in large caps but now sellers have re-focused and are putting mega-caps in their sights. While the S&P 500 made a lower-low, the S&P 400 and S&P 600 did not. Just like the buying was focused on a select few names, the selling seems to be following the same script.



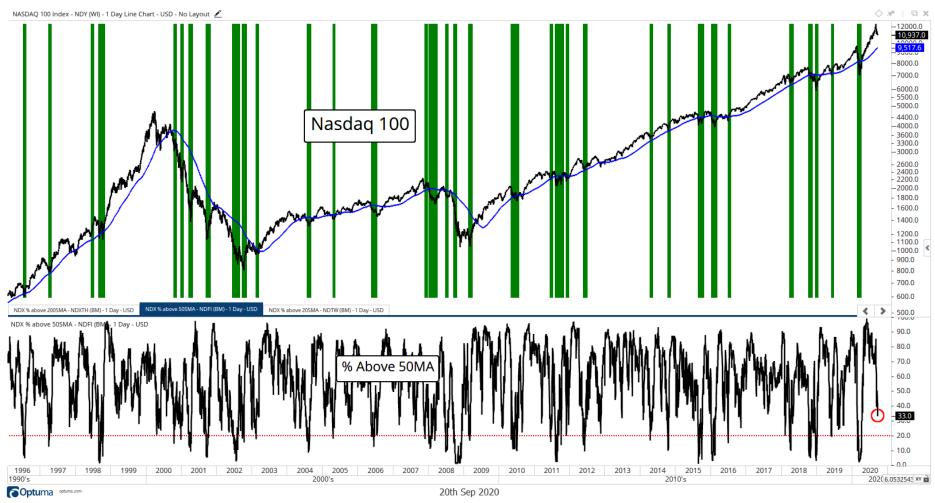




Another way we can look at the focused selling is the breakdown in the FAAMG Index (FB, AMZN, AAPL, MSFT, & GOOGL) compared to the equally weighted S&P 500. Both the cap-weighted SPX and FAAMG have made lower-lows but equal weight has not. This isn't a total surprise as the FAAMG stocks were some of the most extended to the upside and most ripe to return to earth. This could be a positive, if selling doesn't spread to the rest of the index then we could see enough bullish rotation to find new leaders but that's a tough order to fill considering the massive weight these handful of stocks make up the SPX by. We'll want to continue to watch if selling expands or stays within the FAAMG.

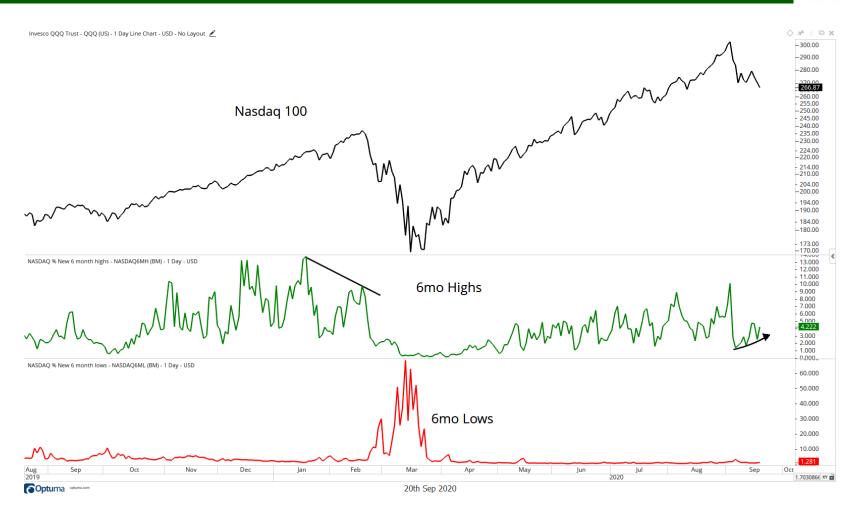






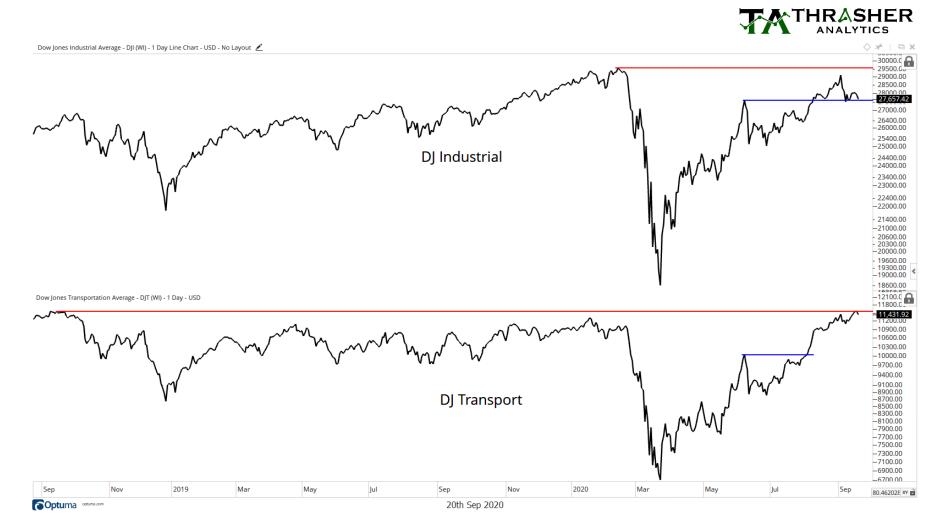
Right now 33% of the Nasdaq 100 is above its 50-day moving average. How low does this figure need to get to show real fear in the index based on the internals? Above I've drawn green lines when we break 20% and then the green line continues for a month. Getting to less than 20% of stocks above the 50-day MA has often been followed by the NDX testing/breaking the 200-day moving average. Will the 200-day break if we get to it? That's a topic for another day. Right now, I'm watching if we can hold above 20% in the internals, a move back to the 200-day would require an additional 15% decline. When the NDX has gotten 20+% above its 200-day MA, the only times it didn't eventually move back to test it was in 1998, 2003, and 2009. The last two were after major declines so maybe today's market resembles those periods but I wouldn't rule out a test of the 200-day MA if we do see the expansion in selling I discussed earlier.





Because the selling has been so focused on the mega caps, we actually saw an uptick in 6-month highs in the Nasdaq 100 last week as the index itself made a lower-low. This is partially a result of the lookback period, 6 months begins to roll off the March crash period. The internal strength trying to come through is encouraging even if it's just 4% of the index, it's more than what we saw earlier this month.

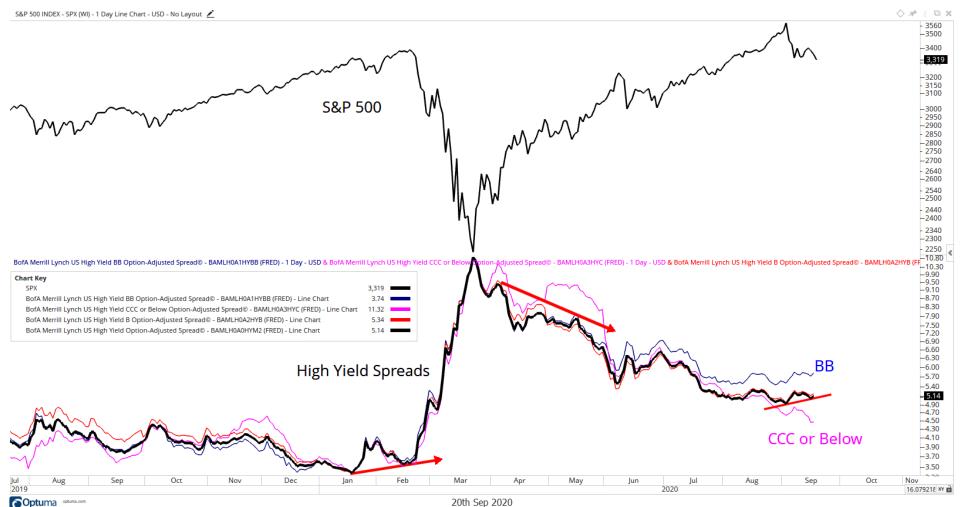




The Dow Jones Transportation Average was close to making a break above the 2018 high, but selling on Thursday and Friday stopped the accomplishment from occurring. Meanwhile, the Dow Jones Industrial Average has yet to recover its prior 2020 high and is getting close to joining the S&P 400 and S&P 600 in losing the June high, closing just above on Friday.







An interesting trend is developing in corporate bond spreads. As equities sold-off over the last three weeks, spreads began to rise with fixed income markets responding to the perceived increase risk in the market. The black line in the second panel is the HY Spread Index with the other colors representing the various rating spreads. The BB's began to show the largest increase while CCC or Below (the junkiest of the junk) saw its spread continue lower. Part of the reason for this is energy bonds make up a large share of the CCC or Below, so since energy stocks did *okay* last week, their spreads didn't widen.

The main takeaway here is the fixed income market is responding to the risks shown in equities.





Two ratios I often refer to when looking for insight into trend reversals in the 10-year Yield are copper vs. gold and small caps vs. utilities. These both have been great barometers for fixed income. When copper is outperforming gold and small caps are trouncing utilities, it's often followed by a rise in Treasury yield. The opposite is also true which we saw an example back in 2018.

These two ratios began rising earlier this year, which marked the end of the decline in yield, holding 50bps when many commentators began calling for a negative 10yr rate.

Once again, these ratios have strengthened and are starting to call for a higher 10yr yield. Utilities have looked awful lately and the strength in materials/industrials has helped buoy copper demand.



	S&P PRICE ON		
YEAR	SEPT19	SEPT 26	PCTCHG
1990	316.60	305.06	-3.64
1991	387.56	386.49	-0.28
1992	422.92	414.35	-2.03
1993	458.83	457.63	-0.26
1994	470.85	460.82	-2.13
1995	584.20	581.41	-0.48
1996	683.00	685.86	0.42
1997	950.51	945.22	-0.56
1998	1020.09	1044.75	2.42
1999	1335.42	1277.36	-4.35
2000	1459.90	1427.21	-2.24
2001	1016.10	1007.04	-0.89
2002	843.32	854.95	1.38
2003	1036.30	996.85	-3.81
2004	1128.55	1110.11	-1.63
2005	1231.02	1215.63	-1.25
2006	1318.31	1336.34	1.37
2007	1529.03	1525.42	-0.24
2008	1255.08	1213.27	-3.33
2009	1068.30	1044.38	-2.24
2010	1125.59	1148.67	2.05
2011	1204.09	1162.95	-3.42
2012	1461.05	1433.32	-1.90
2013	1722.34	1698.67	-1.37
2014	2010.40	1982.85	-1.37
2015	1958.03	1931.34	-1.36
2016	2139.12	2146.10	0.33
2017	2506.65	2496.84	-0.39
2018	2907.95	2905.97	-0.07
2019	3006.79	2977.62	-0.97
		#UP-DN =	6-24
		AVG%CHG=	-1.07
		MED & CHG=	-1.11

The table to the left comes from Wayne Whaley as shared by my friend Steve Deppe, CMT. It shows the bearish seasonality for the this week, which over the last thirty years has been positive just 6 times and produced an average return of -1.07%.

While we've already discussed the technical damage that's taken place in the mega caps and the broad indices, another week of selling may cause a shift in some short-term trends that brings in another tranche of sellers that have yet to hit the 'sell' button just yet and help move the indices back to the 200-day MA. We'll see if this seasonal pattern plays out once again this year.

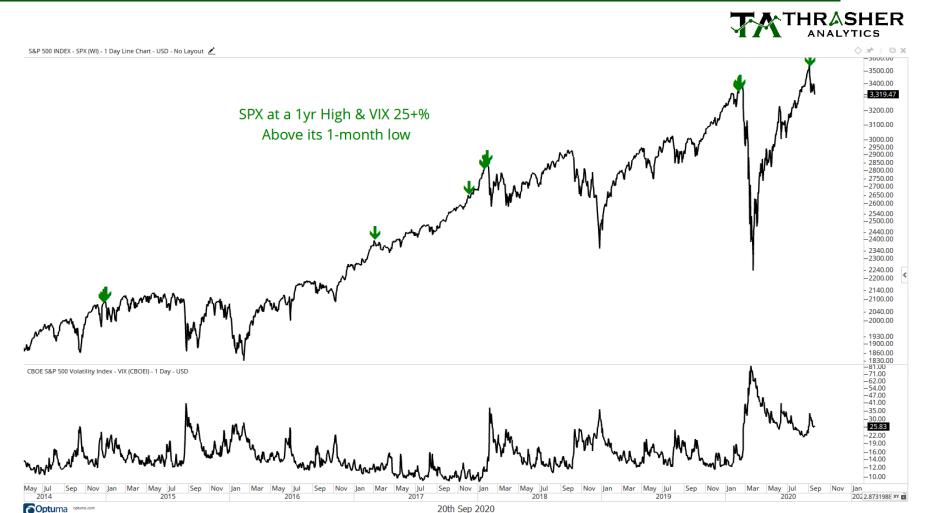






The ratio between Consumer Disc. and Consumer Staples has dipped a bit but still remains firmly above its June high and the major breakout above the 2018 high. A typically 'risk off' sign would for staples to outperform discretionary, causing the ratio to move lower. However, no serious technical damage has been caused just yet on this chart, a bullish sign thus far.

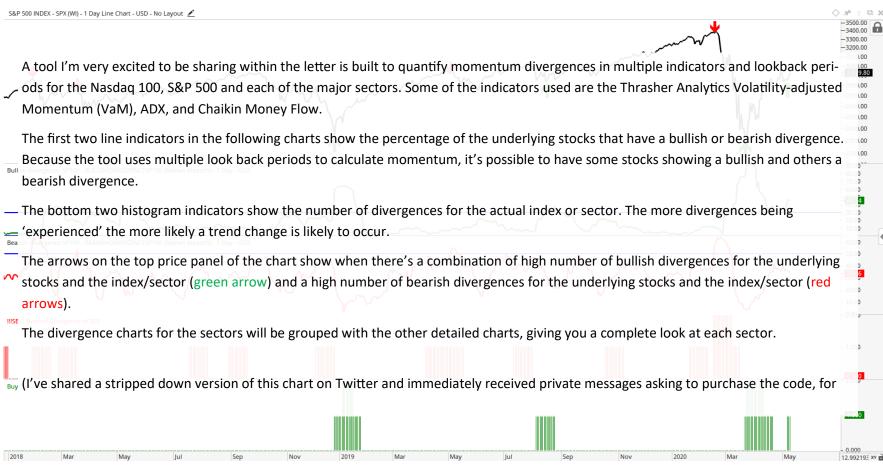




I've shown this chart and referenced to the underlying message several times in this letter. I want to show it again because I think it's an excellent reminder of the importance of analyzing volatility. Above shows when stocks are at a 1yr high but volatility is at least 25% off its 1-month low, i.e. both stocks and the VIX are rising. This has been an extremely difficult environment for equities to continue rising and once again we saw the peak marked by this flashing warning sign.







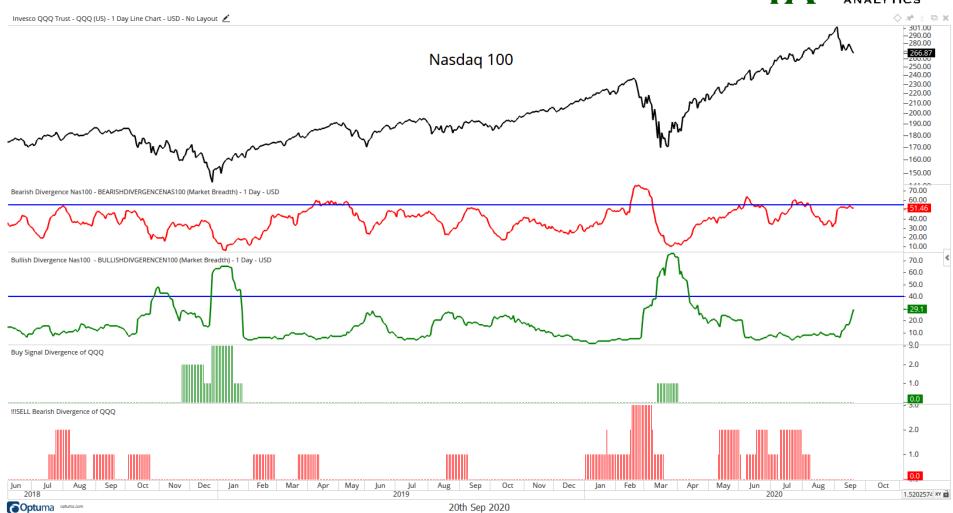
















One of the new sections of the report will include a more detailed look at the primary S&P sectors. This section will develop over time but initially will include two pages (three when the divergence data launches in the next report).

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.





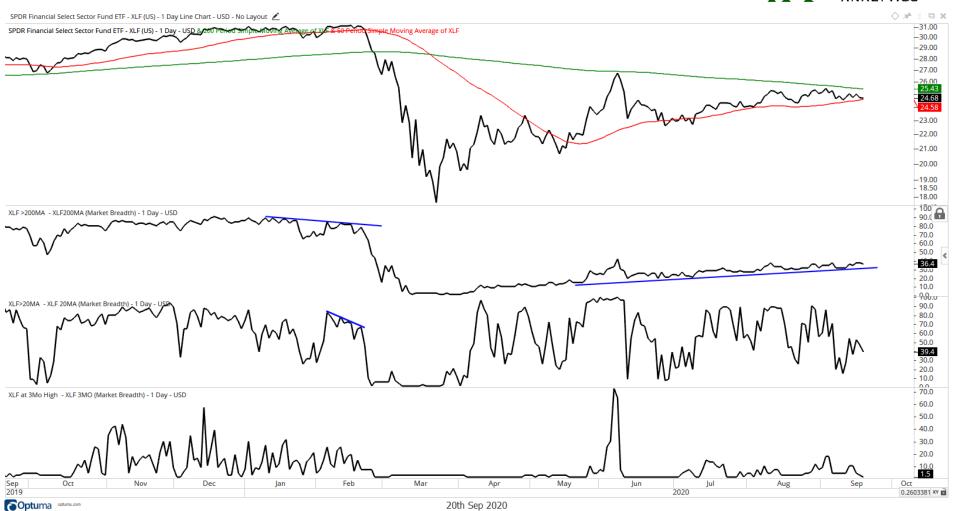


XLF still holding above its 50-day MA but unable to break the 200-day MA.

20th Sep 2020







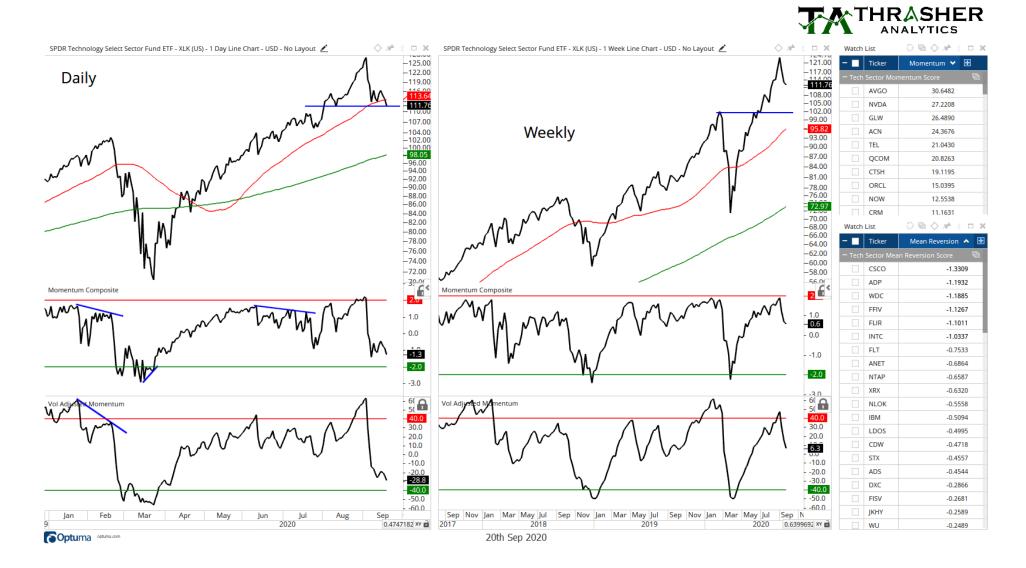
% above 200-day MA is still rising but short-term break has broken down.





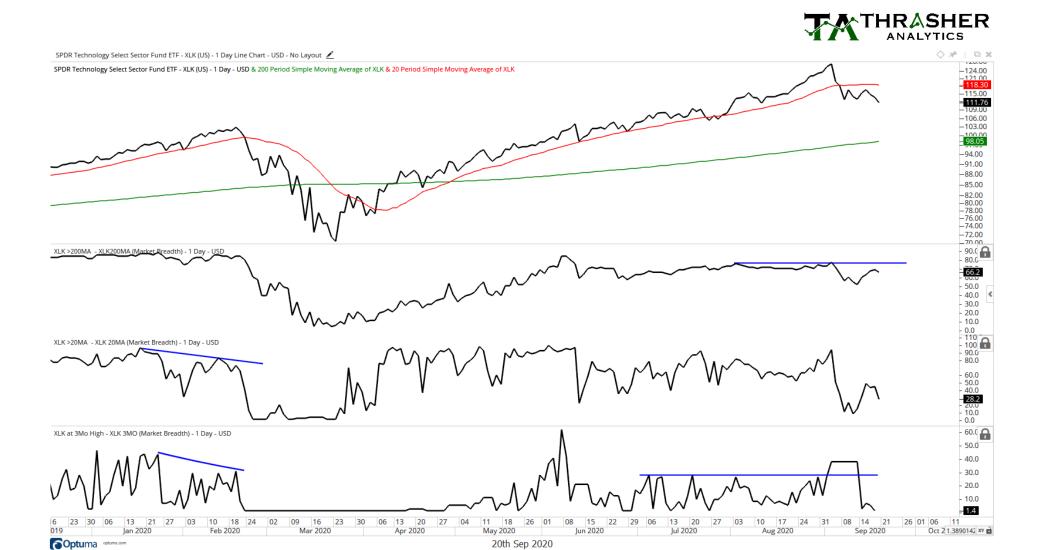






XLK is back testing its Aug. low and is below the 50-day MA after coming down from momentum being 'overbought' on both daily and weekly.

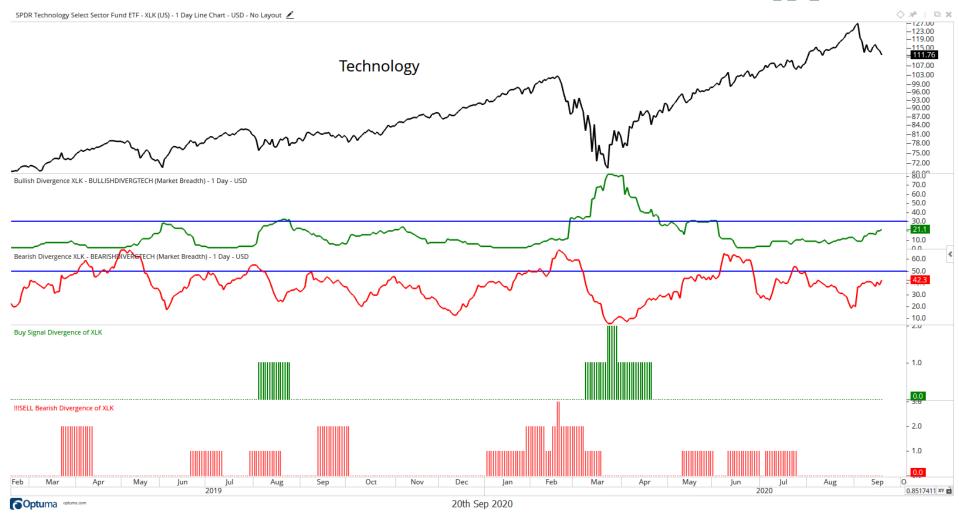




% above 200day MA holding up well.



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Momentum divergence with XLV on daily and weekly charts as price comes back to test the breakout level.

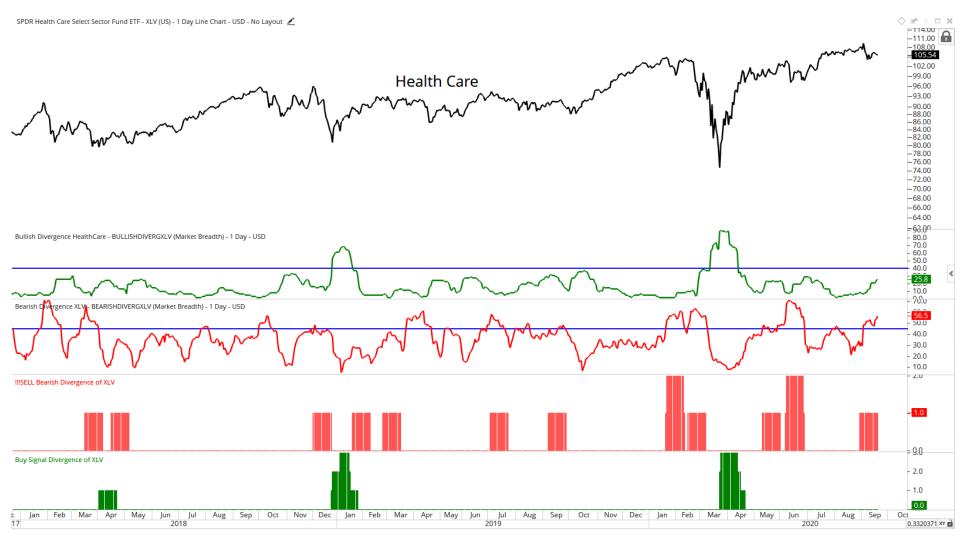






Breadth beginning to weak with a drop in %20MA and a possible breaking of the up trend in %200MA.





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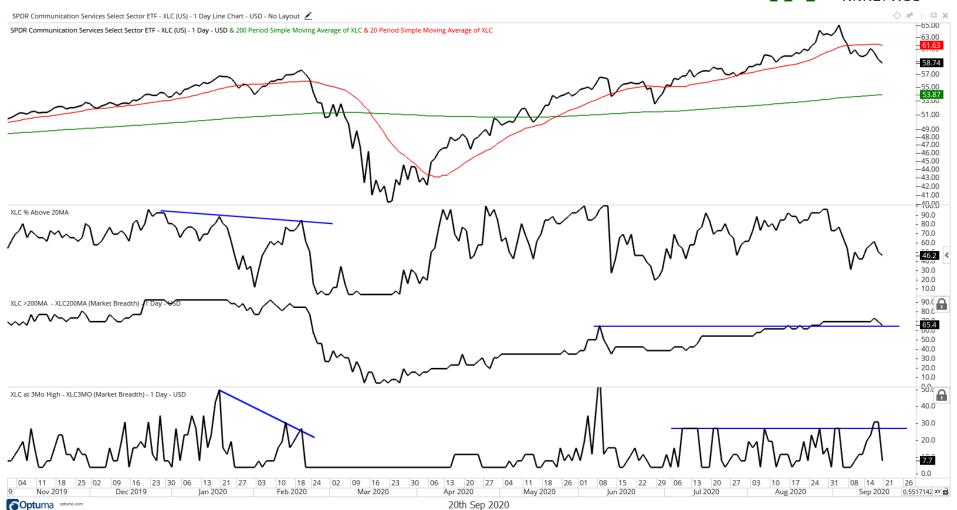




XLC under the 50-day MA and nearing the Feb. high after coming down from being 'overbought'.



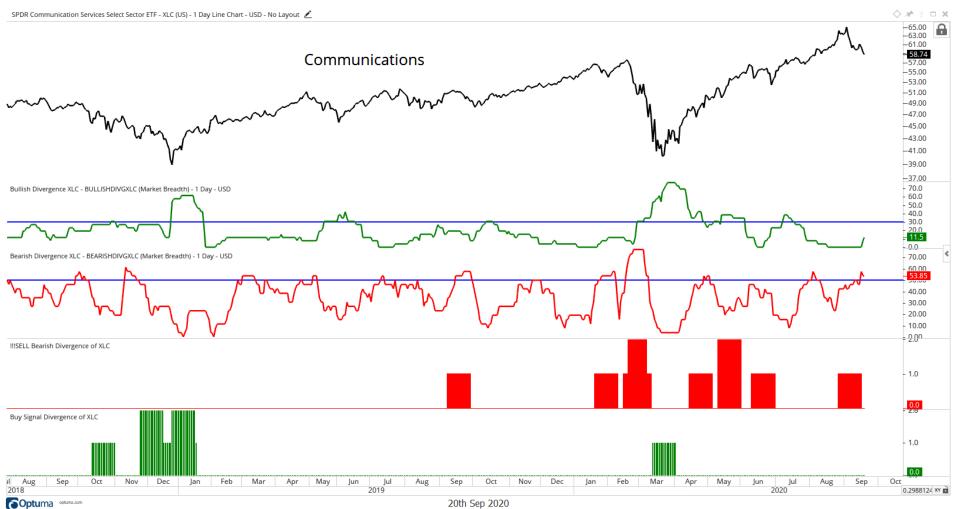




% above 200-day MA still strong but drop in %20MA.



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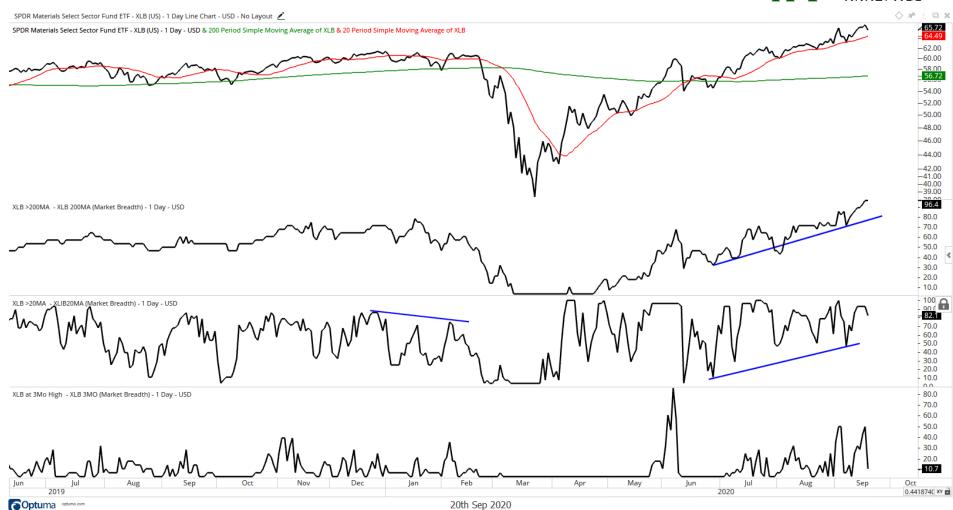




XLB holding its strong trend, making new weekly high. Momentum still diverging.



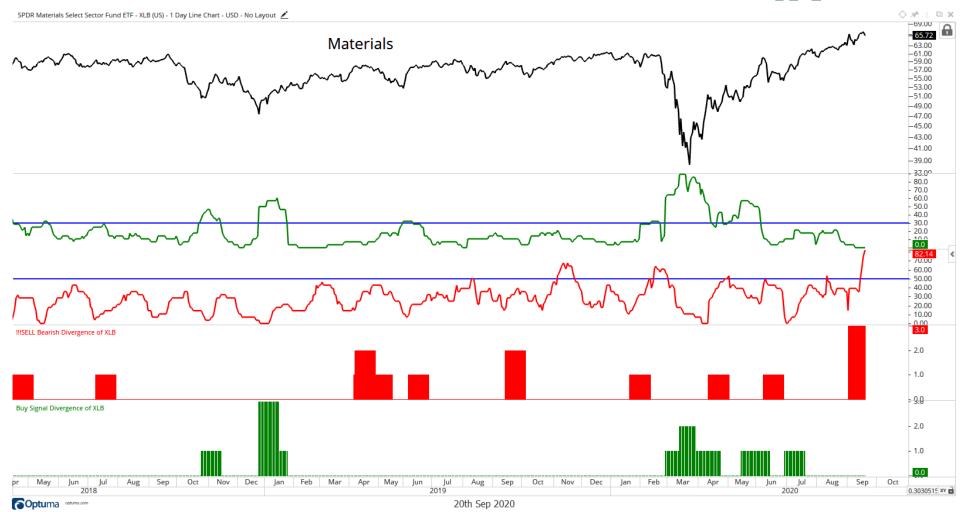




Breadth is positive for XLB.



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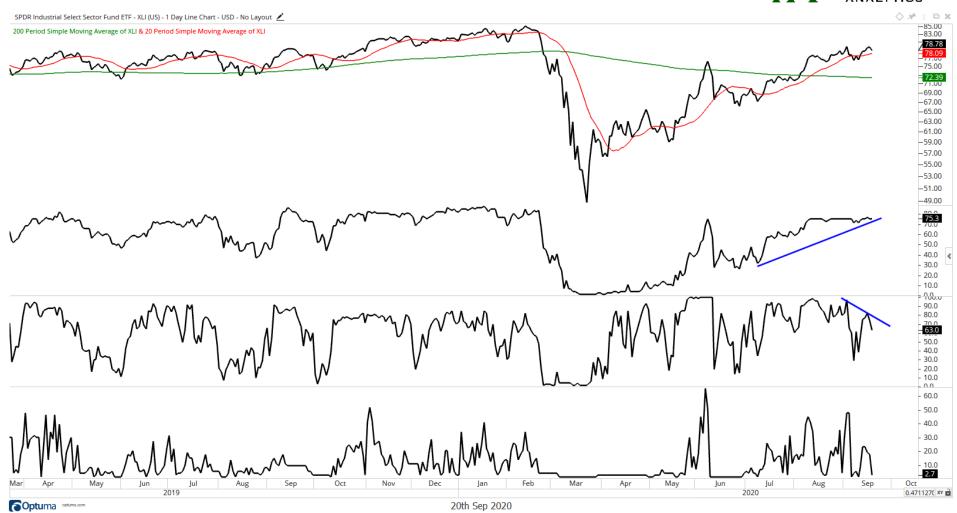




XLI holding breakout from June high. Momentum starting to weaken.







%20MA diverging but %200MA still holding strong.











XLP failed to hold breakout and is now testing the 50-day MA after VaM was overbought.



- 20.0

6.1

26 C 0.3912578 XY



Breadth breaking down.

28 04

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23 30 06 13 21 27 03

Jan 2020

10 18 24 Feb 2020

02 09

09 16 Mar 2020

23

13 20 Apr 2020

20th Sep 2020

27 04

11 18

May 2020

26 01 08

15 22 29 06

Jun 2020

13 20

Jul 2020

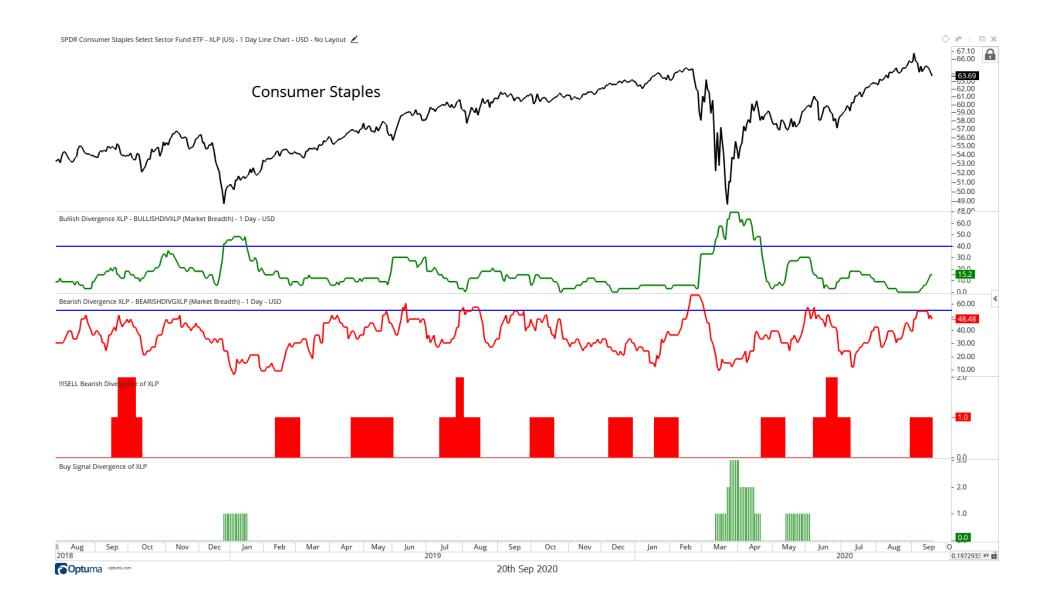
27 03

10 17 24 31

Aug 2020

30 06 13











XLY still above 50-day MA but close to testing.

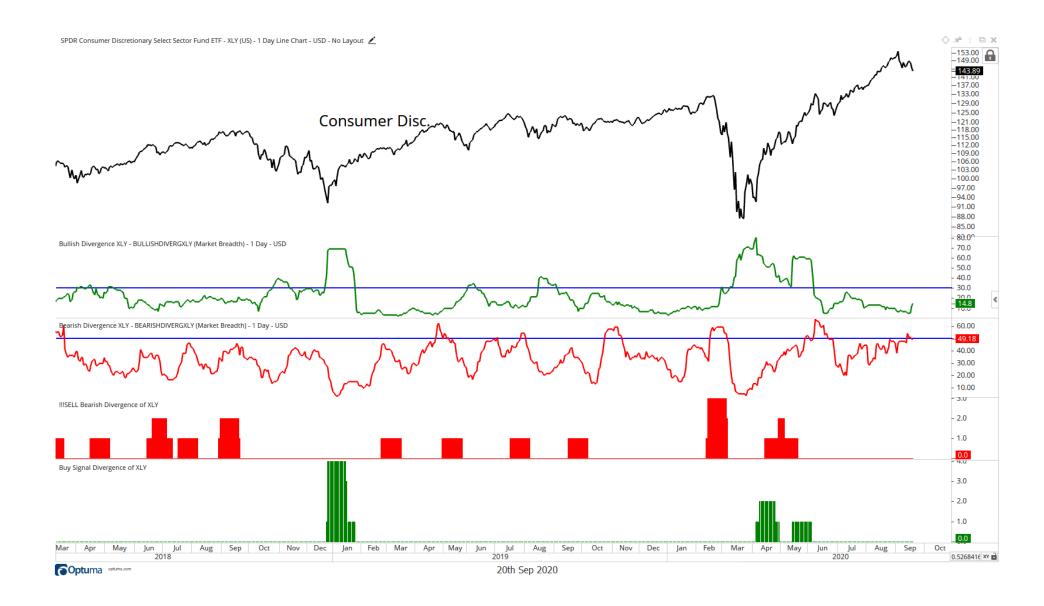






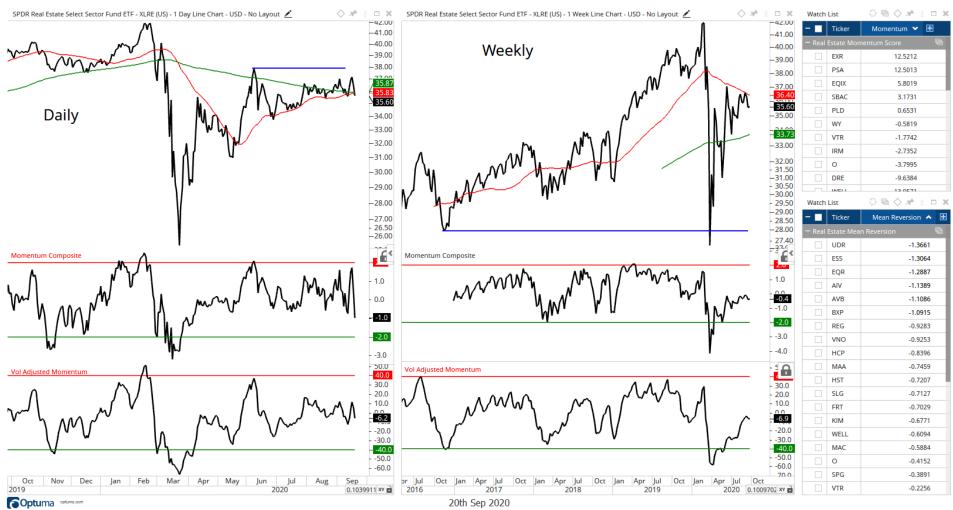
%20MA continuing to move lower but %200MA still strong.











XLRE holding above 50-day MA but unable to get back to June high.

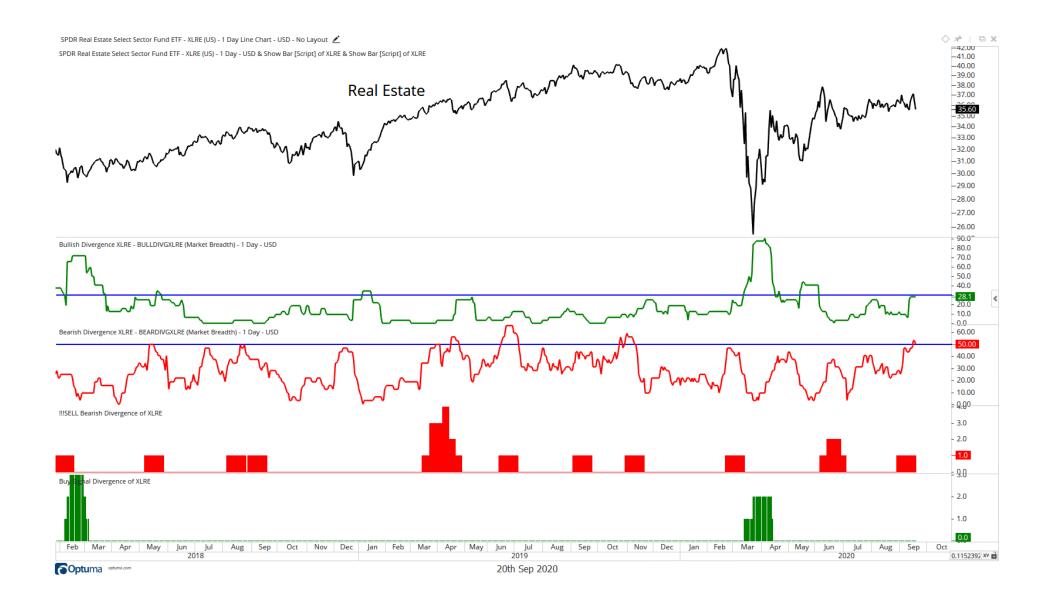






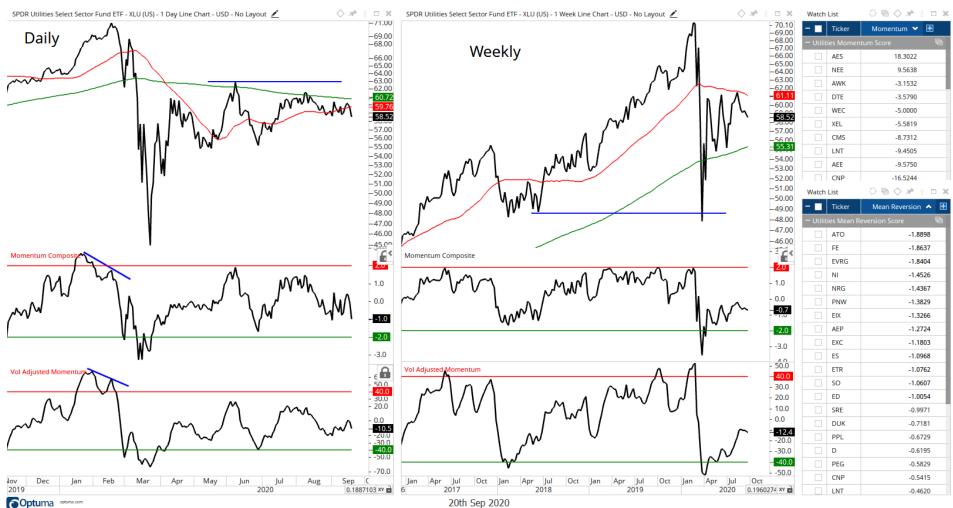
Breadth has flattened with price.











XLU continues to fail at the 200-day MA and is now also below the 50-day MA.



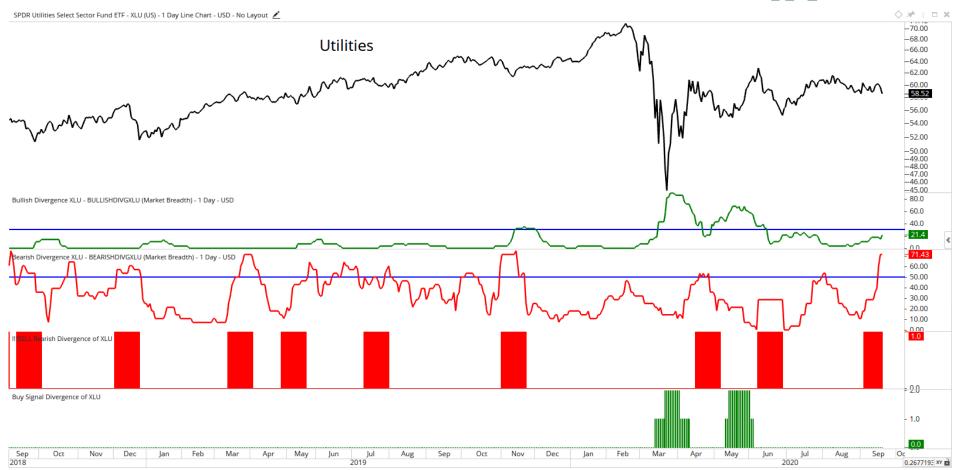




Breadth still waiting to expand with price.







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20th Sep 2020



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Market	% Bullish 🔨	5MA	History 🖽		Code	% Bullish 🔨	5MA	History [[]
Lumber DSI	13	19.6			Platinum DSI	67.00	76.20	and the second second
Orange Juice DSI	25	21			New Zealand Dollar DSI	68.00	67.00	
Natural Gas DSI	31.00	31.60			Swiss Franc DSI	69.00	71.00	
Coffee DSI	33.00	43.20			Palladium DSI	69.00	68.80	
US Dollar DSI	35.00	34.00			Euro DSI	72.00	71.80	
VIX DSI	43.00	36.60			EuroDollar DSI	73.00	72.20	
Nasdaq DSI	45.00	55.80	A		Cotton DSI	73.00	73.40	
SPX DSI	49.00	58.60			10Y DSI	73.00	74.80	
British Pound DSI	51.00	52.60			5YR DSI	73.00	73.80	Mary and the same
Heating Oil DSI	53.00	49.20			Australian Dollar DSI	75.00	74.20	
Gold DSI	53.00	57.80			Lean Hog DSI	76.00	75.00	
Silver DSI	55.00	61.60			Cattle DSI	76.00	73.00	
Crude Oil DSI	55.00	47.60			Cocoa DSI	77.00	73.40	
CRB Index DSI	55.00	53.00			Wheat DSI	78.00	66.20	
Sugar DSI	66.00	57.00			Corn DSI	79.00	73.40	
Nikkei DSI	66.00	72.40	A selection of the sele		Copper DSI	80	76.60	A CONTRACTOR OF THE STATE OF TH
Gasoline DSI	66.00	58.40	A CONTRACTOR OF THE CONTRACTOR		Mexican Peso DSI	84	85.6	

Sour

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



















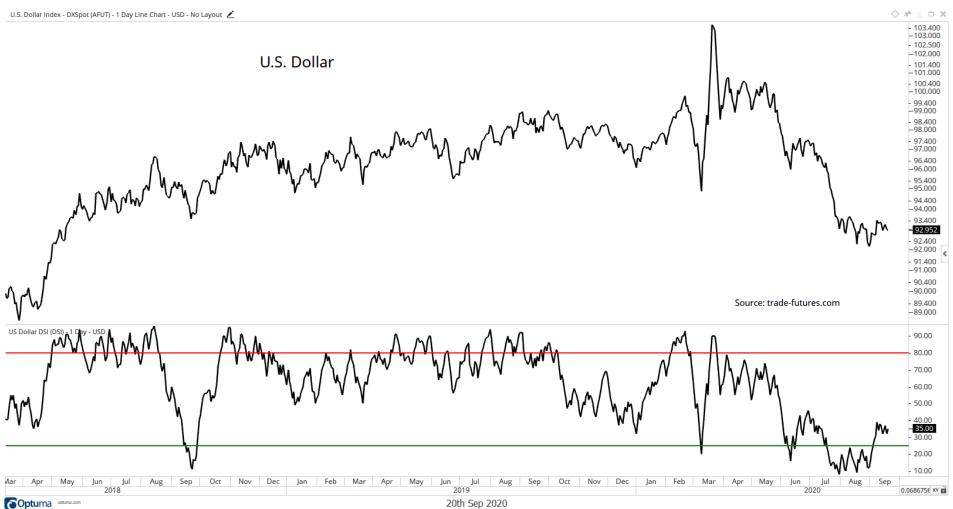
















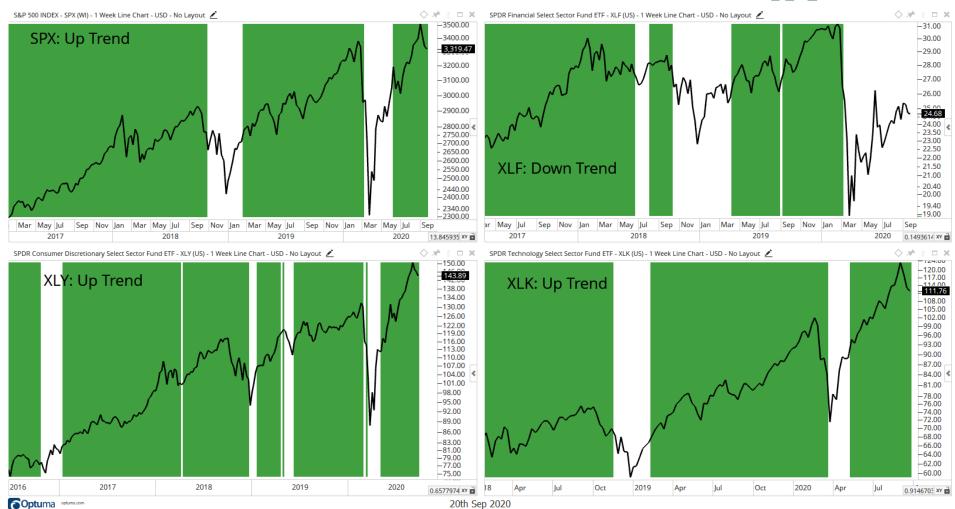




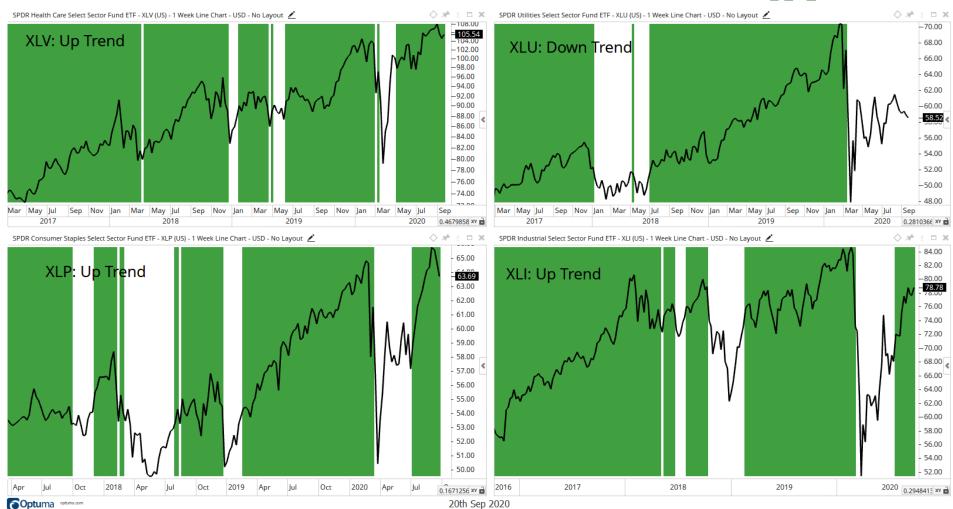
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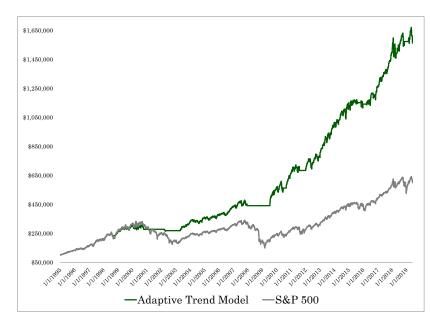


Trend-based analysis is a process built on the idea of enduring minor pullbacks in the anticipating of avoiding protracted drawdowns in financial markets. With a focus on stepping out of the market during large down trends, the Thrasher Analytics Adaptive Trend Model (TAATM) pursues to minimize the "whipsaws" 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.







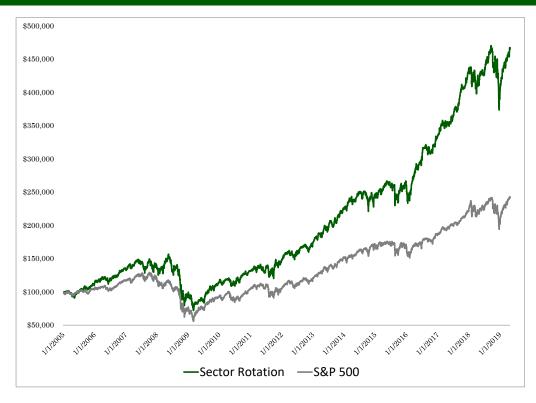
	Annualized Return	Annualized Volatility	Beta	Sharpe Ratio	Maximum Drawdown
Adaptive Trend	12.5%	10.3%	0.47	0.97	14.1%
S&P 500	8.9%	15.3%	1	0.42	56.6%

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.



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.





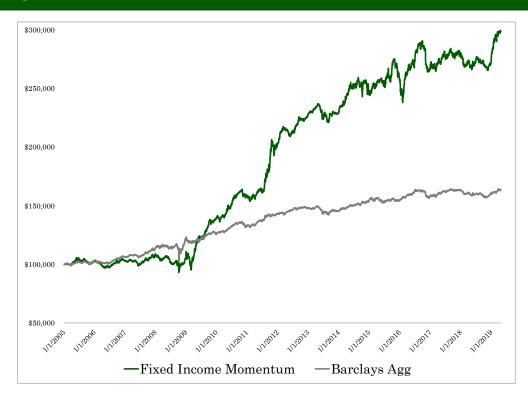
	Annualized Return	Annualized Volatility	Beta	Sharpe Ratio	Maximum Drawdown
Sector Rotation	12.7%	15.9%	0.96	0.64	53.9%
S&P 500	7.5%	14.8%	1	0.34	56.6%

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.



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.





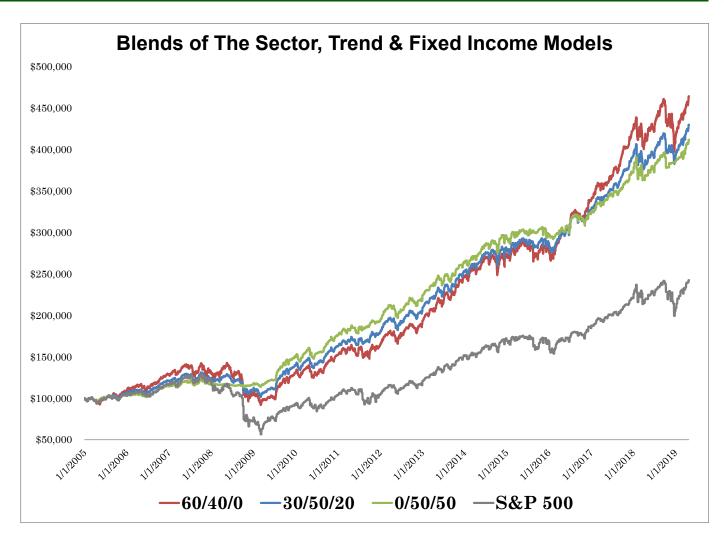
	Annualized Return	Annualized Volatility	Beta	Sharpe Ratio	Maximum Drawdown
Fixed Income Momentum	8.3%	8.2%	1.04	0.7	14.9%
Barclays Agg	3.6%	3.7%	1	0.29	11.0%

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.



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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