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HEDGEYE TV The Macro Show

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1) SPY

The SPY signaled immediate-term TRADE #oversold (i.e. low-end of our @Hedgeye Risk Range) on political/tourist headlines earlier this week; yesterday's bounce came on #decelerating volume, but implied volatility (vs. 30-day realized) on SPY just went from a -37% DISCOUNT (pre SPY correction) to a +2%PREMIUM this morning.

2 OIL

No #bounce here with WTI flat this morning and, most importantly, still below @Hedgeye TREND resistance of \$58.44 as the U.S. Dollar continues to crush anyone who is unaware of what USD does during Global #Quad4 in Q3; Oil Volatility (OVX) would need to break-down below 32-33 to get me long Oil (waiting & watching).

3 GOLD

Textbook immediate-term TRADE #overbought signal earlier this week (alongside a Treasuries #overbought signal when SPY signaled immediate-term #oversold) with a @Hedgeye Risk Range of \$1489-1541; use these Macro Tourist headlines as your backboard to fade both FOMO and freak-outs.

MACRO GRIND

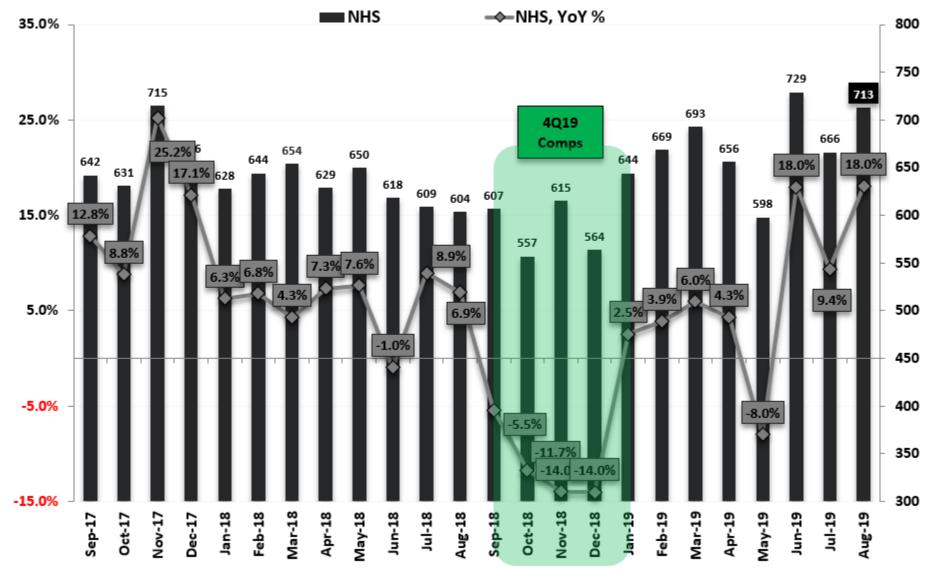
New Home Sales

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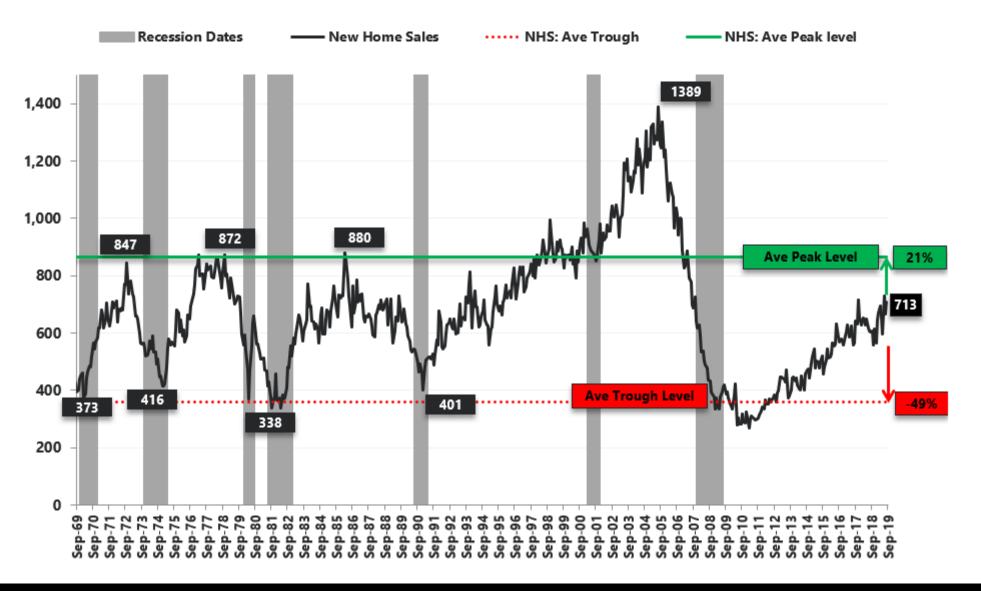
September 26, 2019





New Home Sales

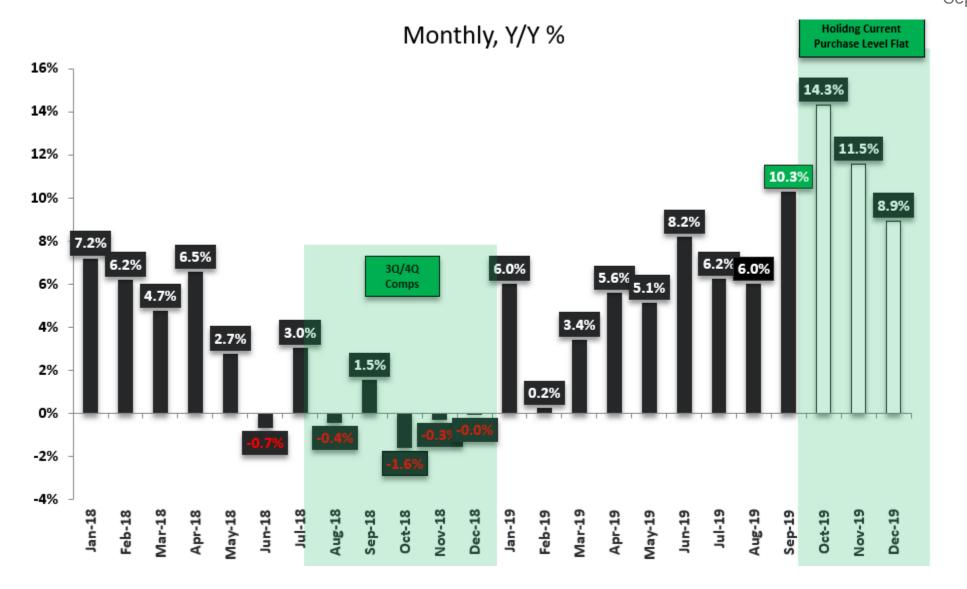
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MBA Mortgage Purchase Applications



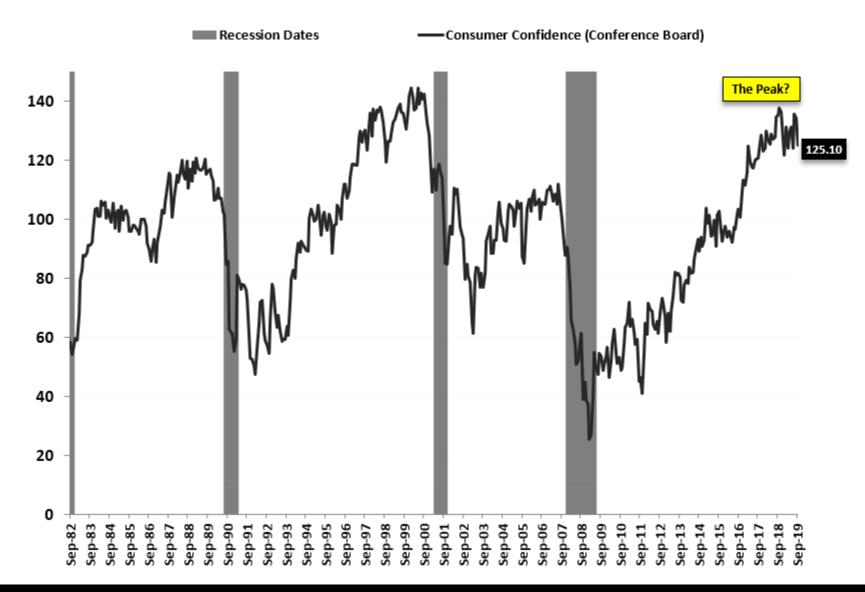
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Consumer Confidence: Conference Board



U.S. CONSUMER & BUSINESS CONFIDENCE



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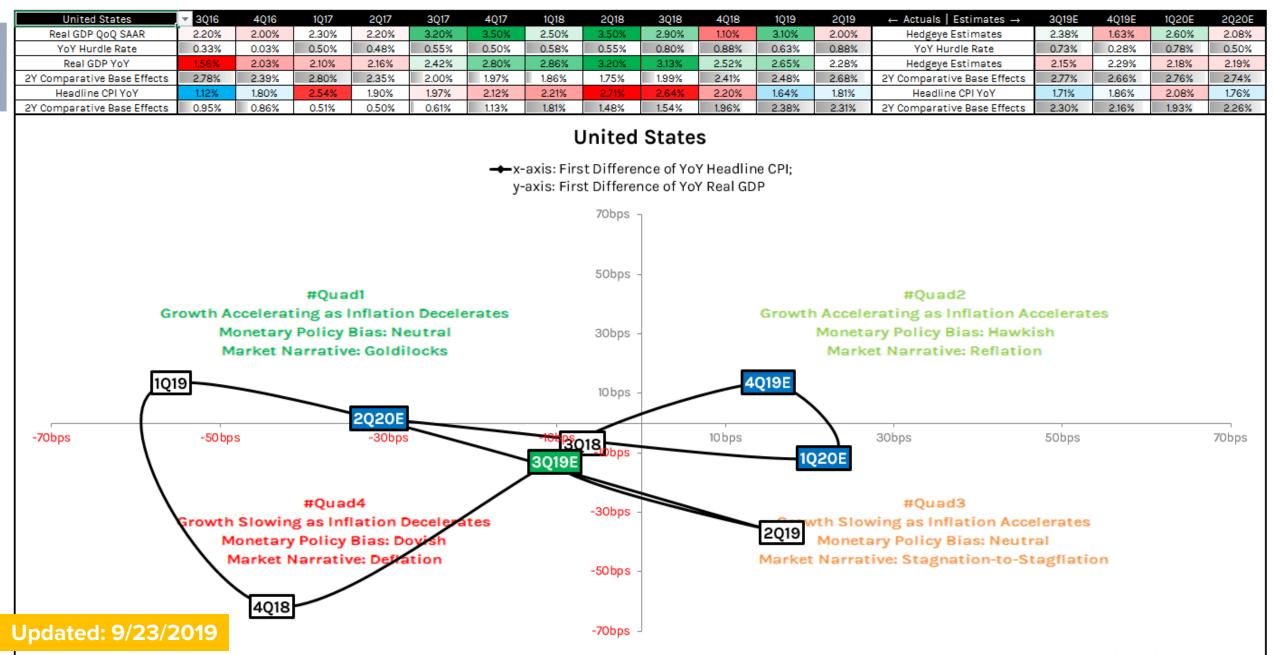
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	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	M/M Chg	3M Ave.	6M Ave.	12M Ave
									•					•				
CONFERENCE BOARD CONSUMER CONFIDENCE	134.7	135.3	137.9	136.4	126.6	121.7	131.4	124.2	129.2	131.3	124.3	135.8	134.2	125.1	-9.10	131.7	130.0	129.8
Expectations	109.3	112.5	115.1	112.3	97.7	89.4	103.8	98.3	102.7	105.0	97.6	112.4	106.4	95.8	-10.60	104.9	103.3	103.0
Present Situation	172.8	169.4	171.9	172.7	169.9	170.2	172.8	163.0	169.0	170.7	164.3	170.9	176.0	169.0	-7.00	172.0	170.0	170.0
Business Conditions = Good	40.5	39.9	41.0	42.0	37.5	36.4	40.6	34.7	37.6	38.4	37.5	39.9	40.9	37.3	-3.60	39.4	38.6	38.7
Business Conditions = Bad	9.3	9.6	9.4	10.7	11.6	10.8	11.1	12.4	11.3	11.7	10.6	11.2	9.9	12.7	2.80	11.3	11.2	11.1
Jobs Plentiful (Present Conditions)	42.3	44.1	45.4	46.8	45.5	46.7	45.7	42.5	46.5	45.3	44.0	45.6	50.3	44.8	-5.50	46.9	46.1	45.8
Jobs Not-So-Plentiful (Present Conditions)	45.6	41.8	41.2	40.6	42.3	40.7	42.6	43.7	40.2	42.9	40.2	41.9	37.7	43.6	5.90	41.1	41.1	41.5
Jobs Harder to Get (Present Conditions)	12.1	14.1	13.4	12.6	12.2	12.6	11.7	13.8	13.3	11.8	15.8	12.5	12.0	11.6	-0.40	12.0	12.8	12.8
Fewer Jobs (6 Mo. Expectations)	13.2	11.4	10.6	11.2	14.6	16.2	12.3	14.3	13.2	13.0	13.9	11.1	13.7	15.7	2.00	13.5	13.4	13.3
More Jobs (6 Mo. Expectations)	21.5	22.1	22.3	22.7	16.6	15.3	19.0	16.8	16.7	18.4	17.5	19.9	19.9	17.5	-2.40	19.1	18.3	18.6
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UNIV. OF MICHIGAN CONSUMER CONFIDENCE	96.2	100.1	98.6	97.5	98.3	91.2	93.8	98.4	97.2	100.0	98.2	98.4	89.8	92.0	2.20	93.4	95.9	96.1
Current Conditions	110.3	115.2	113.1	112.3	116.1	108.8	108.5	113.3	112.3	110.0	111.9	110.7	105.3	106.9	1.60	107.6	109.5	110.8
Expectations	87.1	90.5	89.3	88.1	87.0	79.9	84.4	88.8	87.4	93.5	89.3	90.5	79.9	82.4	2.50	84.3	87.2	86 .7
Inflation Rate - 1Y Ahead	3.0	2.7	2.9	2.8	2.7	2.7	2.6	2.5	2.5	2.9	2.7	2.6	2.7	2.8	0.10	2.7	2.7	2.7
Inflation Rate - 5Y Ahead	2.6	2.5	2.4	2.6	2.5	2.6	2.3	2.5	2.3	2.6	2.3	2.5	2.6	2.3	-0.30	2.5	2.4	2.5
BLOOMBERG CONSUMER COMFORT	58.8	60.0	60.2	60.9	59.5	57.9	59.7	60.7	60.3	60.2	62.3	64.2	62.3	63.1	0.80	63.2	62.1	60.9
National Economy	61.9	64.0	65.1	66.7	62.3	60.7	60.7	62.8	63.8	63.1	65.1	68.1	63.4	64.3	0.86	65.3	64.6	63.8
Personal Finance	64.3	63.7	63.9	66.5	64.2	62.2	65.2	66.1	65.3	65.5	68.1	68.6	67.5	69.4	1.89	68.5	67.4	66.0
Buying Climate	50.1	52.3	51.7	49.7	52.1	50.7	53.2	53.0	52.0	52.0	53.6	55.9	55.9	55.6	-0.33	55.8	54.2	52.9
Expectations	57.0	57.5	58.5	56.0	50.0	44.5	54.5	47.5	50.0	52.5	50.5	55.0	48.5	49.5	1.00	51.0	51.0	51.4
Age: 18-34 YOA	58.0	55.2	56.5	61.5	57.0	55.8	60.1	60.3	56.5	58.6	60.9	64.2	64.1	63.3	-0.78	63.9	61.3	59.9
Age: 35-44 YOA	59.7	62.8	63.3	63.7	58.9	63.8	59.3	65.7	65.0	59.3	63.3	66.0	64.5	70.1	5.63	66.9	64.7	63.6
Age: 45-54 YOA	59.3	63.9	56.7	55.6	63.1	58.8	57.8	55.9	62.4	65.4	62.1	66.6	55.9	55.4	-0.52	59.3	61.3	59.6
Age: 55-54 YOA	57.6	60.2	60.9	60.4	54.2	55.8	61.8	61.4	58.4	57.4	61.2	60.7	61.7	61.5	-0.21	61.3	60.1	59.6
Age: 65+ YOA	59.4	60.9	63.6	62.2	64.1	57.2	58.7	59.9	61.8	59.8	63.9	63.9	63.5	63.5	-0.01	63.6	62.7	61.8
Income: 15-25K	33.1	35.4	47.2	48.4	39.0	41.9	41.9	41.2	43.5	48.2	54.6	52.4	45.8	45.8	0.01	48.0	48.4	45.8
Income: 25-40K	46.5	46.1	50.8	53.5	51.9	53.7	57.8	51.8	53.0	57.1	57.8	56.2	59.5	59.3	-0.27	58.3	57.1	55.2
Income: 40-50K	54.6	51.1	57.3	66.8	63.9	55.4	55.4	55.3	58.3	55.6	64.8	70.0	59.4	60.4	1.02	63.2	61.4	60.2
Income: 50-75K	69.8	68.5	65.2	67.0	70.1	60.0	62.6	66.6	72.7	72.6	62.1	70.9	70.0	68.4	-1.60	69.8	69.5	67.3
Income: 75-100K	75.9	77.2	71.0	66.9	70.4	71.0	73.1	75.1	71.5	76.6	75.1	71.2	72.5	72.2	-0.37	72.0	73.2	72.2
Income: 100K+	80.6	80.0	82.4	82.6	77.6	76.6	73.7	79.5	81.4	78.3	82.6	83.4	81.2	80.9	-0.30	81.8	81.3	80.0
NFIB SMALL BUSINESS OPTIMISM	108.8	107.9	107.4	104.8	104.4	101.2	101.7	101.8	103.5	105.0	103.3	104.7	103.1		-1.60	103.9	103.9	103.7
Hiring Plans	26.0	23.0	22.0	22.0	23.0	101.2	16.0	101.8	20.0	21.0	20.0	21.0	20.0		-1.00	20.5	20.4	20.1
Outlook for General Business Conditions	34.0	33.0	33.0	22.0	16.0	6.0	11.0	18.0	13.0	16.0	16.0	20.0	12.0		-1.00	16.0	15.4	16.0
Sales Expectations	26.0	29.0	28.0	22.0	23.0	16.0	16.0	19.0	20.0	23.0	17.0	20.0	12.0		-5.00	19.5	19.4	20.5
Openings Hard to Fill	38.0	38.0	38.0	34.0	39.0	35.0	37.0	39.0	38.0	38.0	36.0	39.0	35.0		-5.00	37.0	37.2	37.1
Compensation	32.0	37.0	34.0	34.0	35.0	36.0	31.0	33.0	34.0	34.0	28.0	32.0	29.0		-3.00	30.5	31.4	32.7
Compensation Plans	21.0	24.0	23.0	25.0	24.0	20.0	18.0	20.0	20.0	24.0	28.0	17.0	19.0		2.00	18.0	20.2	21.0
Higher Prices	17.0	15.0	16.0	16.0	17.0	15.0	13.0	12.0	13.0	10.0	17.0	16.0	19.0		-5.00	13.5	13.4	14.2
Capital Expenditure Plans	33.0	30.0	30.0	29.0	25.0	26.0	27.0	27.0	27.0	30.0	26.0	28.0	28.0		0.00	28.0	27.8	27.5
Credit Conditions - Availability of Loans	(5.0)	(3.0)	(4.0)	(5.0)	(5.0)	(4.0)	(6.0)	(6.0)	(4.0)	(4.0)	(2.0)	(3.0)	(1.0)		2.00	-2.0	-2.8	-4.0
Expected Credit Conditions	(6.0)	(5.0)	(5.0)	(5.0)	(6.0)	(5.0)	(5.0)	(7.0)	(4.0)	(5.0)	(3.0)	(4.0)	(2.0)		2.00	-3.0	-3.6	-4.6
	(0.0)	(0.0)	(0.07	(0.0)	(0.0)	(0.0)	(0.0)	11.01	(4.0)	(0.0)	(0.0)	(4.9)	(2.0)		2100	v		

Source: Bloomberg, NFIB, Conference Board, HRM

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DATA SOURCE: Bloomberg, BEA, Conference Board



Data Source: Bloomberg. Green box = Hedgeye Predictive Tracking Algorithm nowcast. Blue boxes = Hedgeye β-Adjusted Comparative Base Effect Model estimates.

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DATA SOURCE: BLOOMBERG



#QUAD1

- Goldilocks. Maximum gross
 exposure, wide net exposure.
- Asset Class Overweight(s):
 Equities and Credit
- Asset Class Underweight(s):
 Fixed Income and USD
- Equity Sector Overweight(s): Tech, Consumer Discretionary, Industrials, and Materials
- Equity Sector Underweight(s): Utilities, Consumer Staples, Energy, and Health Care
- Equity Style Factor
 Overweight(s): High Beta,
 Momentum, Quality, and Growth
- Equity Style Factor Underweight(s):

Preferreds, Low Beta/Minimum Vol., Value, and High Dividend Yield

- Fixed Income Overweight(s): Convertibles, High Yield Credit, High Yield Munis, and Investment Grade Credit
- Fixed Income Underweight(s): TIPS, Short Duration Treasuries, MBS, and Long Duration Treasuries

#QUAD2

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- Reflation. Maximum gross exposure.
- Asset Class Overweight(s): Equities, Credit, and Commodities
- Asset Class Underweight(s): Fixed Income and USD
- **Equity Sector Overweight(s):** Tech, Consumer Discretionary, Industrials, and Energy
- **Equity Sector Underweights(s):** Telecom, Utilities, Consumer Staples, and REITS
 - Equity Style Factor Overweight(s): Momentum, Growth, High Beta, and Small Caps
- Equity Style Factor Underweight(s): Low Beta/Minimum Vol., Preferreds, High Dividend Yield, and Value
- Fixed Income Overweight(s): Convertibles, Leveraged Loans, TIPS, and High Yield Credit
- Fixed Income Underweight(s): Long Duration Treasuries, Munis, Investment Grade Credit, and Short Duration Treasuries

#QUAD3

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- Stagnation-to-stagflation. Middling gross exposure, tight net exposure.
- Asset Class Overweight(s): Fixed Income and Commodities
- Asset Class Underweight(s): Equities and Credit
- Equity Sector Overweight(s):
 Utilities, Tech, Energy, and REITS
- Equity Sector Underweight(s):
 Financials, Materials, Telecom,
 and Consumer Staples
- Equity Style Factor
 Overweight(s): Size, Momentum, Quality, and Growth
- Equity Style Factor Underweight(s): Preferreds, High Dividend Yield, Value, and Small Caps
 - Fixed Income Overweight(s): Long Duration Treasuries, Taxable Munis, TIPS, and Investment Grade Credit
 - Fixed Income Underweight(s): Convertibles, Leveraged Loans, Short Duration Treasuries, and High Yield Credit

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#QUAD4

- Deflation. Minimum gross exposure, net short exposure.
- Asset Class Overweight(s):
 Fixed Income and USD

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- Asset Class Underweight(s): Equities, Credit, and Commodities
- **Equity Sector Overweight(s):** Health Care, Consumer Staples, REITS, and Utilities
- Equity Sector Underweight(s): Tech, Energy, Industrials, and Financials
- Equity Style Factor Overweight(s): Preferreds, Low Beta/Minimum Vol., and Quality
- Equity Style Factor Underweight(s): Momentum, High Beta, and Growth
- Fixed Income Overweight(s): Long Duration Treasuries, Taxable Munis, and MBS
- Fixed Income Underweight(s): Convertibles, TIPS, Leveraged Loans, and High Yield Credit

Sector Performance

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			<u>1-Day %</u>	<u>MTD %</u>	QTD %	<u>YTD %</u>
SECTOR	<u>Ticker</u>	Price Price	Chg	Chg	<u>Chg</u>	Chg
Consumer Discretionary	XLY	\$120.61	0.91%	0.86%	1.18%	21.82%
Financial Select Sector	XLF	\$28.09	0.83%	4.35%	1.78%	17.93%
Health Care Select Sector	XLV	\$90.23	-0.49%	-0.41%	-2.60%	4.30%
Technology Select Sector	XLK	\$80.68	1.19%	1.45%	3.38%	30.17%
Consumer Staples Select Sector	XLP	\$60.85	0.07%	0.21%	4.79%	19.83%
Industrial Select Sector	XLI	\$77.72	0.65%	2.59%	0.39%	20.66%
Materials Select Sector	XLB	\$58.00	0.52%	2.31%	-0.85%	14.81%
The Energy Select Sector	XLE	\$60.43	0.17%	5.13%	-5.15%	5.37%
Utilities Select Sector	XLU	\$64.59	-0.06%	3.21%	8.32%	22.05%
Real Estate Select Sector	XLRE	\$39.17	-0.10%	-0.10%	6.53%	26.35%
Communications Services Sector	XLC	\$50.32	1.15%	1.59%	2.23%	21.90%
S&P 500	SPX	2,984.87	0.62%	2.00%	1.47%	19.07%

Sector Relative Performance

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			<u>1-Day %</u>	<u>MTD %</u>	<u>QTD %</u>	<u>YTD %</u>
	<u>Ticker</u>	Price	Chg	Chg	Chg	Chg
Consumer Discretionary	XLY	\$120.61	0.30%	-1.13%	-0.28%	2.75%
Financial Select Sector	XLF	\$28.09	0.21%	2.35%	0.31%	-1.14%
Health Care Select Sector	XLV	\$90.23	-1.10%	-2.40%	-4.07%	-14.77%
Technology Select Sector	XLK	\$80.68	0.58%	-0.55%	1.92%	11.10%
Consumer Staples Select Sector	XLP	\$60.85	-0.55%	-1.78%	3.32%	0.76%
Industrial Select Sector	XLI	\$77.72	0.03%	0.59%	-1.08%	1.60%
Materials Select Sector	XLB	\$58.00	-0.10%	0.31%	-2.32%	-4.26%
The Energy Select Sector	XLE	\$60.43	-0.45%	3.14%	-6.61%	-13.70%
Utilities Select Sector	XLU	\$64.59	-0.68%	1.22%	6.85%	2.98%
Real Estate Select Sector	XLRE	\$39.17	-0.72%	-2.10%	5.06%	7.29%
Communications Services Sector	XLC	\$50.32	0.53%	-0.40%	0.77%	2.83%



Market Share Volume & Total Value Traded

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INDEX/SECURITY		VOLUME:	(9/25) vs.	
	Prior Day	1M Ave	<u>3M ave</u>	1Y Ave
Total Market Volume*	-15%	-6%	0%	-14%
Total Exchange Volume**	-14%	-5%	-3%	-9%

*Total Market Volume = Total US exchange volume plus OTC and OTCBB trading volume for all security types. Calculated by Bloomberg.

**Tape A+B+C volume = total US exchange volume

*** Total Traded Value for Russell 3000 (total mkt proxy)

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Style Factor Performance

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		1D	1W	1M	3M	6M	YTD
	FACTOR	% Chg					
Debt	High Debt/EV	0.5%	-0.6%	7.9%	2.0%	4.2%	17.4%
	Low Debt/EV	0.7%	-1.1%	4.5%	-0.2%	3.5%	19.1%
SI	High Short Interest	0.7%	-1.3%	7.7%	-0.8%	-1.2%	10.8%
~	Low Short Interest	0.6%	-0.5%	4.6%	2.5%	9.7%	23.2%
BETA	High Beta	1.1%	-1.7%	9.9%	-1.0%	-0.8%	11.8%
	Low Beta	0.0%	0.3%	3.2%	5.5%	11.0%	23.8%
VIELD	High Yield	0.6%	-0.7%	8.0%	0.7%	-0.1%	9.7%
, XIE	Low Yield	0.4%	-1.2%	4.7%	0.2%	5.3%	23.1%
MKT	MCAP Bottom 25%	0.8%	-1.4%	9.1%	-2.1%	-2.9%	8.0%
29	MCAP Top 25%	0.4%	-0.8%	4.4%	3.5%	8.5%	21.4%
Sales	Top 25% Sales Growth	0.6%	-0.9%	4.3%	1.2%	5.6%	23.3%
Sa	Bottom 25% Sales Growth	0.8%	-0.9%	8.2%	1.8%	2.4%	12.2%
EPS	Top 25% EPS Growth	0.6%	-1.3%	5.8%	1.2%	5.7%	22.9%
	Bottom 25% EPS Growth	0.5%	-0.9%	7.1%	1.8%	2.6%	11.6%

*Mean Performance of Top Quartile vs. Bottom Quartile, S&P500 Companies

Rates & Spreads



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		1D	5D	1M	3M	vs. 52-V	Vk, Bps	vs.	vs.
	Price	Bps Chg	Bps Chg	Bps Chg	Bps Chg	High	Low	3Y Ave	5Y Ave
3M T-Bill	1.87%	-2.1	-3.6	-9	-26	-61	3	32	89
3M LIBOR	2.11%	0.0	-4.6	0	-22	-71	1	24	81
2Y T-Note	1.66%	5.4	-5.8	14	-9	-131	24	-25	24
5Y T-Note	1.59%	8.0	-5.2	19	-19	-151	28	-61	-30
10Y T-Note	1.71%	9.2	-4.7	20	-31	-155	28	-78	-58
30Y T-Note	2.16%	8.3	-4.1	15	-38	-130	26	-75	-68
2Y-10Y Spread, Bps	4.79	2.8	0.2	5.2	-23	-24	5	-53	-83
IG SPREAD (AAABBB)	1.47%	0.0	2.0	1	-1	-42	9	-2	-15
HIGH YIELD	5.66%	7.0	9.0	-13	-22	-246	11	-46	-85
5Y BREAKEVEN	1.43%	2.3	-1.9	7.0	-14.3	-64.9	13.8	-38.6	-21.9



Key \$USD Correlations

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						52	-Wk Rollin	ng 30D Corre	elation
METRIC	15D	30D	90D	120D	180D	High	Low	% Time Pos	% Time Neg
SPX	-0.06	0.40	0.08	0.09	0.58	0.77	-0.69	51%	49%
BRENT Oil	0.11	0.20	-0.01	-0.04	0.16	0.71	-0.79	52%	48%
CRB Index	0.20	-0.46	-0.69	-0.04	-0.56	0.71	-0.73	33%	67%
GOLD	0.12	0.03	0.52	0.39	0.52	0.54	-0.91	26%	74%

*Days = Trading Days

CFTC Non-Commercial Net Long Positioning

	ON-COMMERCIAL NE						3	3Y Max Min		ore
	METRIC	Latest	W/W Chg	3M Ave	6M Ave	IY Ave			1Y	3Y
	SPX (Index + E-mini)	4,672	(13,069)	46,837	45,889	68,654	249,638	(128,189)	-0.66X	-1.063
ES	VIX	(93,429)	(26,787)	(102,215)	(116,804)	(73,201)	92,913	(180,359)	-0.31X	-0.213
E	Russell 2000 (mini)	(48,824)	8,654	(68,121)	(40,761)	(47,788)	119,390	(121,951)	-0.03X	-0.893
EQUITIES	Dow Jones (mini)	39,912	2,293	38,838	29,518	27,332	95,976	(282)	1.03X	-0.173
Ē	Nasdaq (mini)	28,308	2,732	26,277	15,913	7,527	163,838	(24,815)	1.21X	-0.193
	Nikkei Index	(10,342)	(3,748)	(6,873)	(10,341)	(9,941)	14,214	(16,298)	-0.11X	-1.232
	10Y UST	(310,314)	34,379	(355,828)	(303,691)	(320,300)	372,991	(758,490)	0.06X	-0.523
\$	2Y UST	(143,196)	30,447	(265,369)	(182,447)	(238,326)	86,881	(421,551)	0.92X	-0.022
RATES	5Y UST	(93,952)	5,664	(77,182)	(87,269)	(249,197)	6,400	(866,140)	0.62X	1.012
3	UST Bonds	(49,407)	10,080	(35,229)	(35,996)	(48,995)	122,839	(142,810)	-0.01X	-0.90
H	30D Fed Funds	115,872	132,542	(54,259)	(107,951)	(93,686)	219,071	(286,025)	3.06X	1.67
	Eurodollar	1,362,992	(129,561)	996,681	560,650	(504,555)	1,492,553	(3,110,209)	1.53X	2.593
	SUSD	32,036	304	28,573	27,943	31,903	56,635	(10,666)	0.03X	0.46.
0	JPY	31,213	4,146	6,065	(31,717)	(55,325)	69,211	(140,151)	1.99X	1.84
H	EUR	(58,798)	5,172	(48,943)	(74,227)	(59,411)	147,318	(143,673)	0.02X	-0.76
2	GBP	(89,840)	(2,171)	(82,539)	(49,010)	(47,782)	49,216	(113,271)	-1.51X	-1.352
CURRENCIES	AUD	(53,375)	5,078	(57,561)	(57,341)	(5 <mark>3,</mark> 955)	77,969	(74,181)	0.05X	-1.052
R	CAD	11,140	6,174	9,424	(17,318)	(22,872)	78,001	(99,736)	1.30X	0.52
B	MXN	96,799	3,880	114,103	127,279	86,583	156,013	(89,524)	0.21X	0.76
-	NZD	(29,797)	900	(20,507)	(14,535)	(14,035)	35,981	(35,412)	-1.29X	-1.533
	CHF	(2,605)	2,771	(10,792)	(22,240)	(20,804)	8,389	(47,216)	1.92X	1.322
	CRUDE OIL	449,964	38,103	427,106	467,093	442,880	784,290	314,891	0.10X	-0.54
	GOLD	247,728	(42,981)	247,758	148,276	76,810	290,709	(103,009)	1.50X	1.58
	COPPER	(40,309)	18,627	(40,308)	(23,971)	(11,090)	67,602	(60,135)	-1.28X	-2.01
	Natural Gas	(146,835)	22,399	(178,099)	(121,044)	(64,546)	57,455	(216,003)	-1.10X	-1.48
-	RBOB Gasoline	50,972	3,303	70,722	79,817	84,316	114,862	29,519	-2.48X	-1.44
-	ULSD Heating Oil	(814)	4,295	(4,190)	(10,379)	(773)	67,696	(25,442)	-0.00.	-0.98
	Silver	67,299	(3,764)	47,659	24,457	20,336	107,003	(30,158)	1.55X	0.95
H d	Platinum	36,975	1,500	18,651	20,687	16,479	45,610	(11,540)	1.98X	1.28
COMMODITIES	Aluminum	163,475	(2,043)	159,128	161,735	157,727	168,292	122,356	0.55X	1.31
Q	Nickel	42,230	(365)	42,658	44,005	37,006	47,708	13,508	0.60X	1.21
MO	Corn	(71,960)	(37,119)	158,332	18,280	33,569	372,754	(270,560)	-0.67X	-0.76
2	Soybeans	(58,980)	(21,371)	(27,522)	(57,910)	(40,573)	210,365	(148,817)	-0.45X	-0.90
8	Wheat	3,541	8,787	23,229	(8,125)	(12,386)	63,219	(143,292)	0.52X	0.81
U	Live Cattle	20,158	(10,042)	49,724	95,188	103,933	183,134	19,421	-1.97X	-1.87
	Lean Hogs	48,968	(8,699)	66,684	74,584	49,867	97,769	(11,151)	-0.03X	0.21
-	Sugar	(183,701)	(27,110)	(89,926)	(80,341)	(42,962)	351,383	(183,701)	-2.27X	-1.59
-	Cotton	(23,546)	5,529	(30,219)	(9,987)	10,549	132,318	(37,827)	-1.00X	-1.84
	Coffee	(39,767)	1,864	(22,169)	(39,909)	(46,902)	67,942	(106,651)	0.31X	-0.32
	Cocoa	(21,644)	(205)	23,979	13,073	6,027	61,244	(43,846)	-1.18X	-0.95
	Orange Juice	(5,349)	677	(6,772)	(6,775)	(6,678)	9,066	(9,416)	0.70X	-0.82



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Volatility

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TIME WINDOW SETTING:		TOTAL RETURN	IVOL PREMIUM	DISCOUNT					REALIZED VOL	ATILITY TR	ENDS	IMPLIED VOLA	ATILITY TREM	IDS
VOLATILITY_30D		PERFORMANCE	IVOL PREM %						RVOL		PERCENTILE	IVOL		PERCENTILE
PUT_IMP_VOL_30D	TICKER	YTD %	IVOL / RVOL	Yesterday	1W Ago	1M Ago	TTM Z-Score	3Yr Z-Score	CURRENT	MM %	10YR	CURRENT	MM %	10YR
US EQUITIES			CURRENT											
Technology Sector SPDR ETF	XLK US EQUITY	31.46%	1%	-1 %	-24 %	-4%	0.0	-0.3	19.1	-27%	79 %	19.4	-23 %	76%
Vanguard Real Estate REIT ETF	VNQ US EQUITY	27.58 %	14%	4%	-14%	9 %	0.8	0.7	11.6	-20 %	26%	13.2	-16 %	35%
Utilities Sector SPDR ETF	XLU US EQUITY	24.89 %	8%	165 %	1%	6%	0.1	0.0	11.0	-8 %	29 %	11.9	-7 %	26%
Power Shares QQQ Trust ETF	QQQ US EQUITY	23.97 %	3%	0%	-23 %	-9 %	0.1	-0.3	17.6	-26 %	68%	18.1	-16 %	68%
Consumer Discretionary Sector SPDR ETF	XLY US EQUITY	23.06%	-10%	-19 %	-27%	0%	-0.4	-0.8	16.7	-22 %	67 %	15.1	-29 %	51 %
Communication Services SPDR ETF	XLC US EQUITY	22.69 %	7 %	-2 %	-14%	-5%	0.0		16.5	-30 %	29 %	17.7	-21%	34%
Industrials Sector SPDR ETF	XLI US EQUITY	22.54%	4%	-5%	-22%	-4%	0.1	-0.2	16.1	-26 %	59 %	16.7	-20 %	58 %
Consumer Staples Sector SPDR ETF	XLP US EQUITY	22.12%	-9 %	177%	-11%	29 %	-0.5	-0.6	12.2	-29 %	65%	11.1	- 50 %	43%
SPDR S&P 500 ETF Trust	SPY US EQUITY	20.75%	2%	- 7 %	- 37 %	-6 %	0.0	-0.3	13.7	- 32 %	63%	14.0	- 26 %	55%
Financials Sector SPDR ETF	XLF US EQUITY	19.74%	5%	- 9 %	-23 %	-8 %	0.0	-0.1	16.4	- 32 %	52 %	17.3	- 22 %	50 %
Materials Sector SPDR ETF	XLB US EQUITY	16.58%	13%	-1%	-23 %	108%	0.3	0.2	15.3	- 25 %	40%	17.3	- 59 %	49 %
I-Shares Russell 2000 ETF	IWM US EQUITY	16.21 %	-8 %	-10%	-22%	2%	-0.4	-0.7	20.0	- 12 %	72%	18.4	- 20 %	55%
Energy Sector SPDR ETF	XLE US EQUITY	8.14 %	-5%	-13 %	- 24 %	4%	-0.4	-0.5	21.5	- 12 %	63%	20.3	-21%	54 %
Health Care Sector SPDR ETF	XLV US EQUITY	5.57 %	13%	12 %	-24%	-3%	0.5	0.1	12.6	-28%	43%	14.3	- 16 %	53 %
INTERNATIONAL EQUITIES														
Euro Stoxx 50 Index	SX5E INDEX	20.91 %	30 %	20 %	-6 %	-5 %	1.3	0.4	11.4	-40 %	16%	14.8	-18 %	29 %
I-Shares MSCI Japan ETF	EWJ US EQUITY	13.87%	32 %	2%	-14 %	-3 %	2.1	0.8	9.1	-40%	8%	12.0	-18 %	17%
I-Shares MSCI Emerging Markets ETF	EEM US EQUITY	6.23%	34%	7%	-4%	13 %	1.8	1.6	12.4	-38 %	10%	16.6	-26 %	25%
I-Shares China Large-Cap ETF	FXI US EQUITY	3.85%	23 %	-1%	-4%	9 %	1.4	1.0	15.3	-29 %	9 %	18.8	-20%	19 %
CURRENCIES														
PowerShares US Dollar Index ETF	UUP US EQUITY	6.01%	7%	33%	29 %	63 %	-0.3	-0.3	5.3	10%	19 %	5.7	-28 %	6%
Currency Shares Japanese Yen ETF	FXY US EQUITY	1.31%	-1%	2 %	-16 %	3%	-0.5	-0.5	6.4	-25 %	21%	6.3	-28 %	8%
Currency Shares British Pound ETF	FXB US EQUITY	-3.13%	26 %	32%	3%	32%	0.6	1.0	9.5	16 %	73%	11.9	11%	89%
Currency Shares Euro Trust ETF	FXE US EQUITY	- 5.01 %	6%	7%	9 %	20%	0.0	0.1	5.3	-1%	8%	5.6	-12 %	6%
COMMODITIES														
United States Oil Fund ETF	USO US EQUITY	22.15%	-24 %	-26 %	-22 %	-7 %	-1.5	-1.5	46.5	31%	93%	35.2	6%	72 %
SPDR Gold Shares ETF	GLD US EQUITY	16.97%	-10%	5%	-8%	6%	-0.7	-1.0	15.5	-4%	62%	14.0	-19 %	38%
PowerShares DB Agriculture Fund ETF	DBA US EQUITY	- 7.26 %	19 %	19 %	-9 %	-11%	-0.5	-0.5	11.8	-12 %	48%	14.0	17 %	42 %
United States Natural Gas Fund ETF	UNG US EQUITY	- 12.79 %	32%	36%	53 %	20%	1.1	1.1	30.1	- 2 %	31%	39.7	9 %	56%
FIXED INCOME														
I-Shares 20+ Year Treasury Bond ETF	TLT US EQUITY	18.36%	-20 %	- 21 %	-22 %	5%	-1.3	-1.6	17.7	18%	88%	14.1	-11%	66%
I-Shares IBOXX IG Corporate Bond ETF	LOD US EQUITY	15.03%	-5%	-6%	-1%	34%	-0.7	-1.0	7.2	51%	88%	6.9	7%	81%
I-Shares J.P. Morgan USD EM Bond ETF	EMB US EQUITY	12.40%	1%	-4%	-4%	12%	-0.2	-0.6	7.3	15%	78%	7.3	4%	54%
I-Shares IBOXX HY Corporate Bond ETF	HYG US EQUITY	11.41%	19%	-1%	-9 %	11%	0.2	0.1	4.2	-33%	22%	4.9	-28%	20%
I-Shares 7-10 Year Treasury Bond ETF	IEF US EQUITY	9.11%	-5%	0%	11%	14%	-0.4	-0.5	7.1	15%	80%	6.7	-4%	65%
Data Source: CBOE, CME, Bloomberg														

Global Data

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Date Time	Country/Region	С	Event	Period	Surv(M)	Actual	Prior	Revised	Ticker
09/25/19 08:00	Brazil	ΒZ	PPI Manufacturing YoY	Aug		0.15%	0.36%		BPPICY Index
09/25/19 17:00	South Korea	SK	Consumer Confidence	Sep		96.9	92.5		KOCCCSI Index
09/26/19 02:00	Japan	JN	Machine Tool Orders YoY	Aug F		-37.00%	-33.00%		JNMTOY Index
09/26/19 02:00	Germany	GE	GfK Consumer Confidence	Oct	9.6	9.9	9.7		ECO1GFKC Index
09/26/19 04:30	Hong Kong	ΗK	Exports YoY	Aug	-7.40%	-6.30%	-5.70%		HKETEXPC Index
09/26/19 04:30	Hong Kong	ΗK	Imports YoY	Aug	-11.00%	-11.10%	-8.70%		HKETIMPC Index



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Hong Kong Exports

