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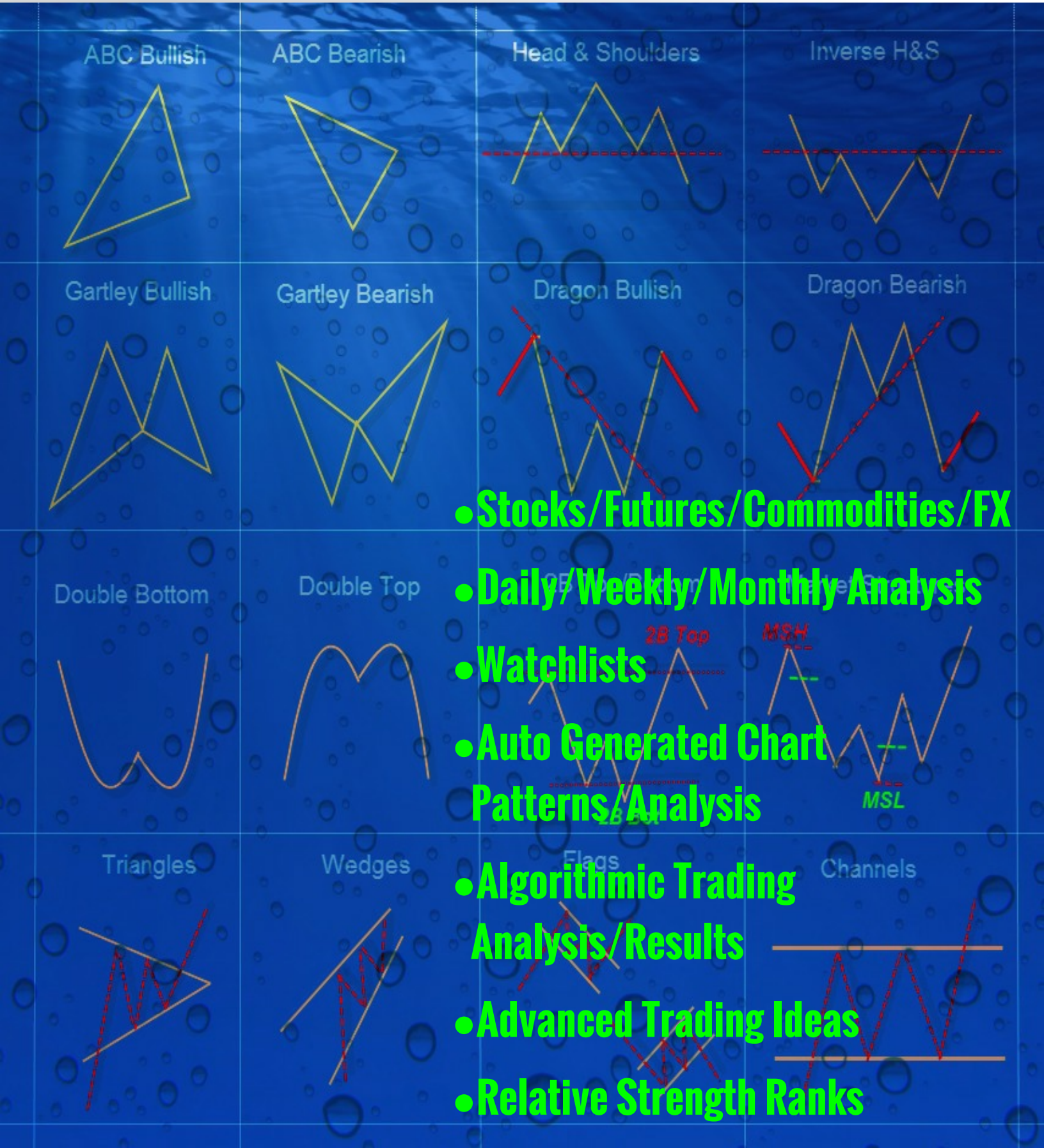
Sep. 18, 2017

Chart Patterns & Algo. Trader

A Weekly Magazine



- Stocks/Futures/Commodities/FX
- Daily/Weekly/Monthly Analysis
- Watchlists
- Auto Generated Chart Patterns/Analysis
- Algorithmic Trading Analysis/Results
- Advanced Trading Ideas
- Relative Strength Ranks

Chart Patterns & Algorithmic Trader 2017 ALL RIGHTS RESERVED

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ALGORITHMIC TRADER

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Algorithmic Trades

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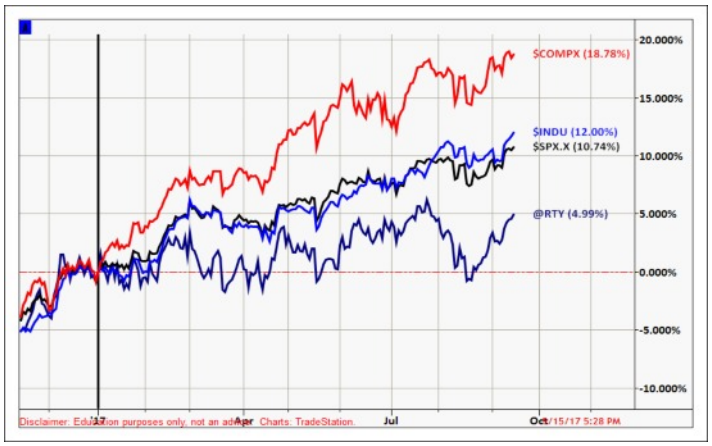

	Symbol	Last	Net Chg	suri.Chg%			
				1D%	W%	M%	YTD%
1	$COMPX	6,448.47	19.38	0.30	1.39	1.82	18.85
2	$SPX.X	2,500.23	4.61	0.18	1.58	1.45	11.04
3	$INDU	22,268.34	64.86	0.29	2.16	1.22	12.05
4	$TRAN	9,546.25	36.48	0.38	1.73	1.87	5.12
5	@RTY	1,433.80	7.20	0.41	2.14	3.73	5.44
6	@GC(D)	1,323.5	-5.8	(0.44)	(2.05)	3.4	13.43
7	@QM(D)	49.850	-0.050	(0.10)	5.00	6.233	(12.58)
8	@SI(D)	17.630	-0.159	(0.90)	(2.72)	4.928	8.45
9	@US(D)	154 31/3	0	0.00	(1.47)	1 5/32	5.80
10	@TY(D)	126'09.0	-0'04.0	(0.10)	(0.96)	0'10.0	2.67
11							

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Patterns Gallery

Updated: 09/18/17

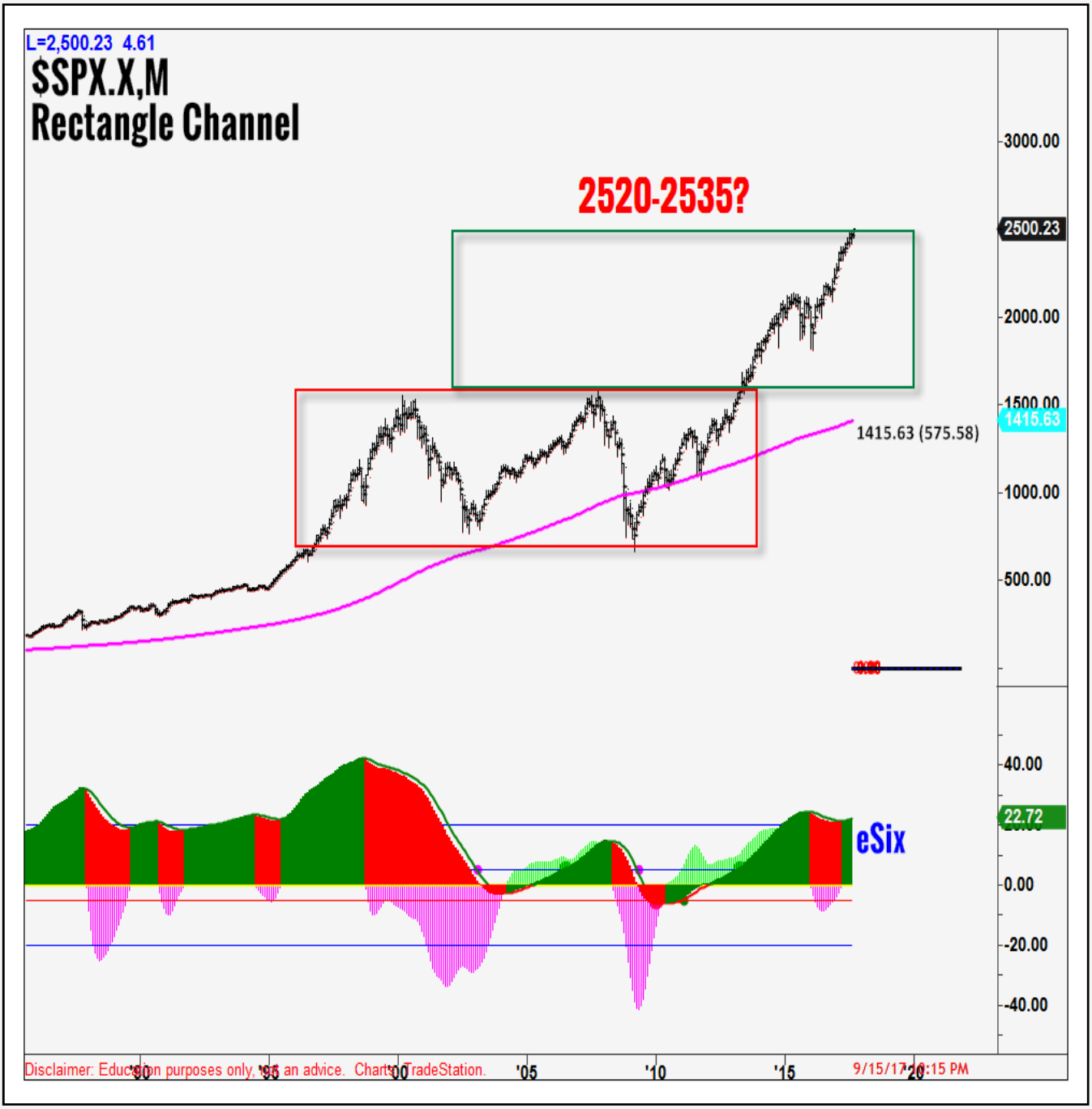
Pattern Name	Symbols
ABC Bullish	AMCX,INTC,GLD,PFE,BABA,BZUN
ABC Bearish	WDC,DIS,KLAC,LC,UAL,SHW
AB=CD	KLAC,AMGN
Gartleys (all X5)	TRAN,IYT,SBUX,GWPH,NKE,PG
Head and Shoulders	CBS,PZZA
Inv. Head and Shoulders	TGT,TSCO,CTSH,SFUN,CL,AUDNZD,QM,BMY
Cup and Handles	MU,JPM,SWKS,UPS,AMGN,XLV,AMTD
Parabolic Arcs	BWLD,EFX,ULTA,CMG
Channels	INFY,MRK,TLT,INTC
Triangles	PFE,AMAT,ADSK,PG,TSLA,BIDU,GRMN
Double Top and Bottom	GOLD,CREE,CRUS,ESRX,NTAP
Dragons	CVX,SBUX,JACK,STX,ETFC,C,ESRX,MNST

Disclaimer: Education purposes only. Not an advice. Charts: TradeStation

Chart Patterns

Stocks/Options

SPX Rectangle Channel



SPX (Monthly) is trading in Rectangle channel since 2000 to 2015. Rectangle channel breakout is above 1500 level with a target zone: 2520-2535.

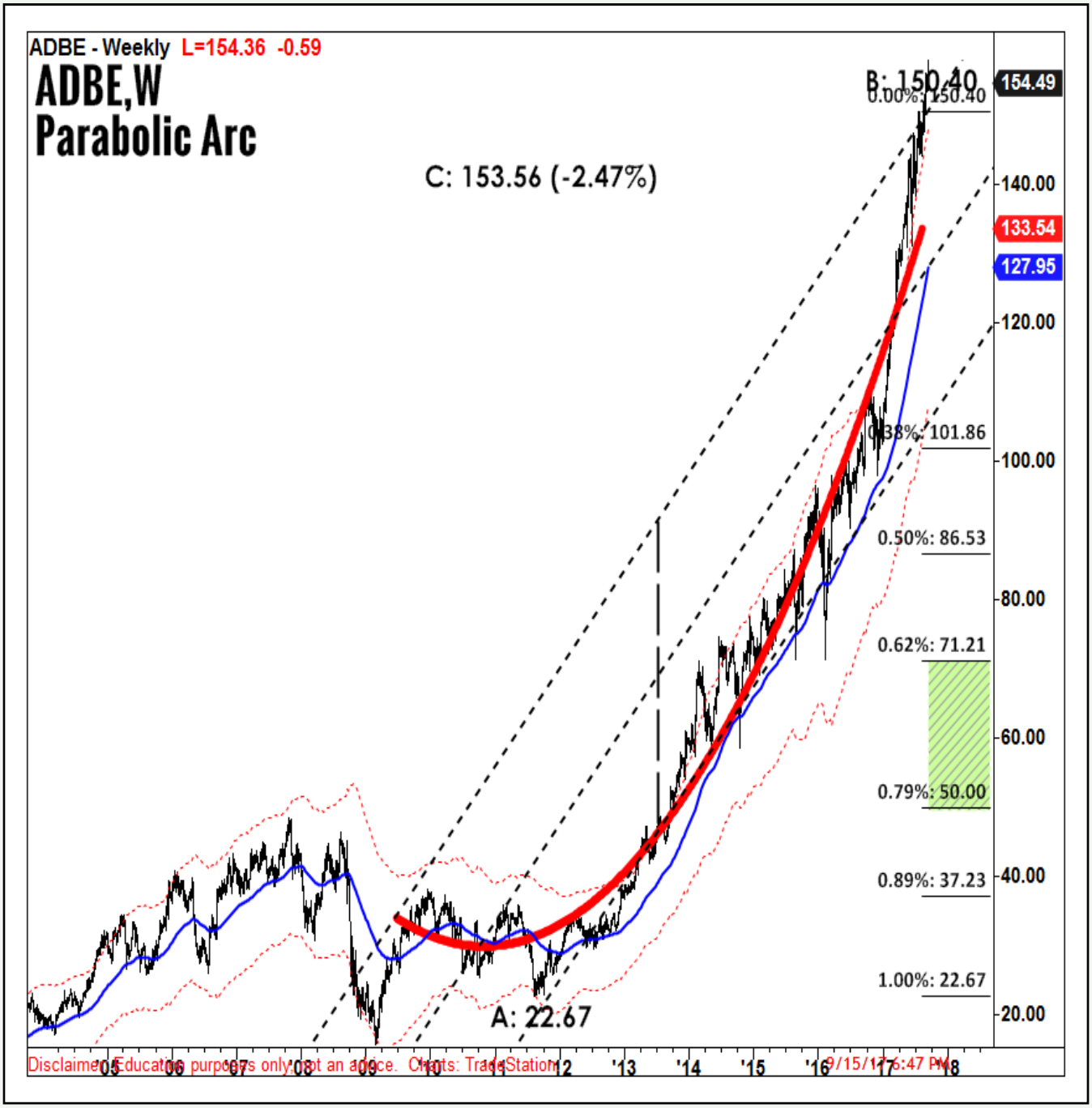
Nasdaq (COMPX) ABC Bullish Pattern

COMPX (Nasdaq Composite Index), Monthly pattern.

AAPL Divergence

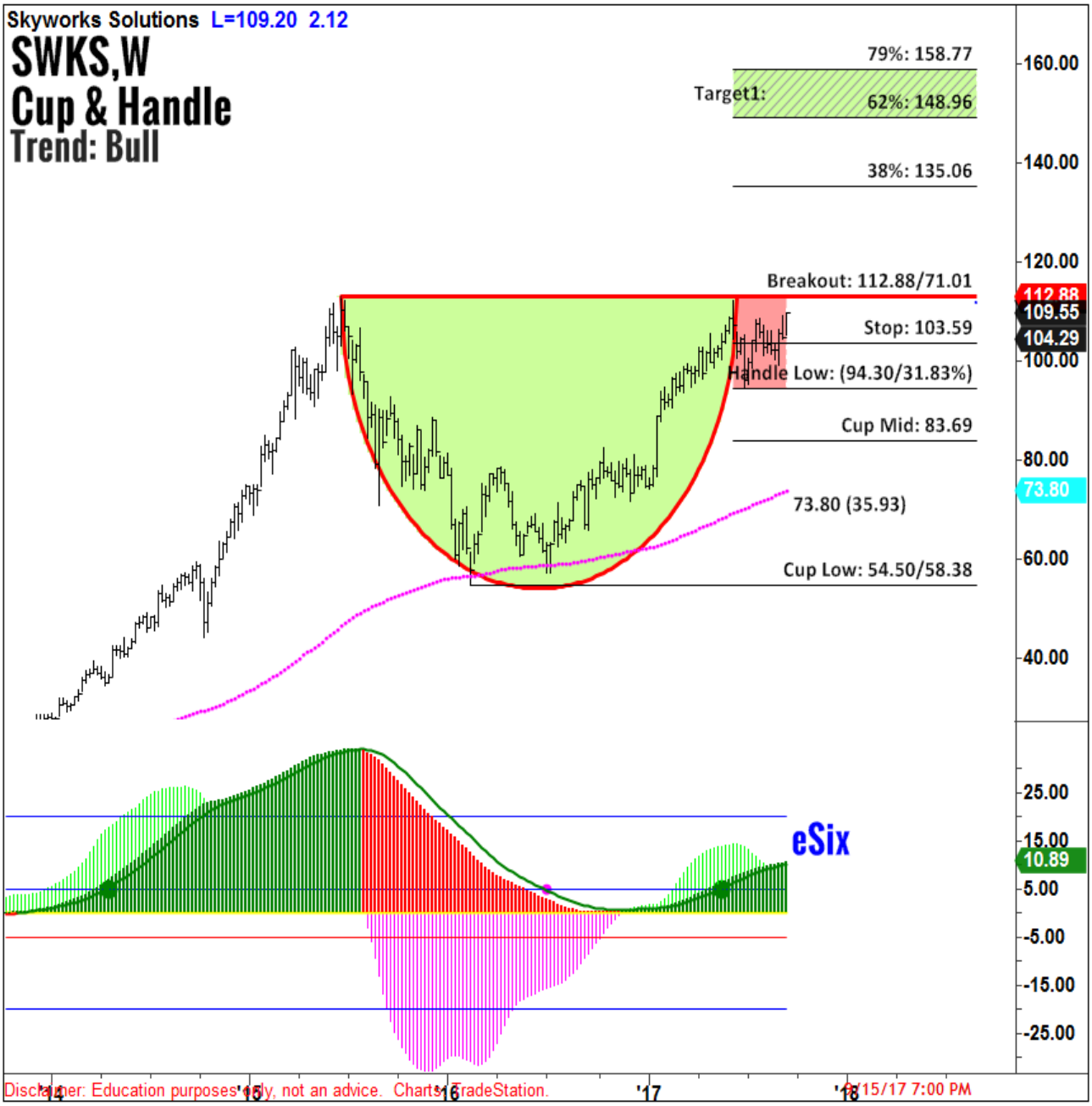
AAPL (Daily) price is showing a Negative Divergence with Momentum/Volatility indicator eSIX.

ADBE Parabolic Arc Pattern



ADBE (W) (Earnings: 9/19 is trading in Parabolic Arc pattern. Pattern currently has not fully completed.

SWKS Cup & Handle Pattern

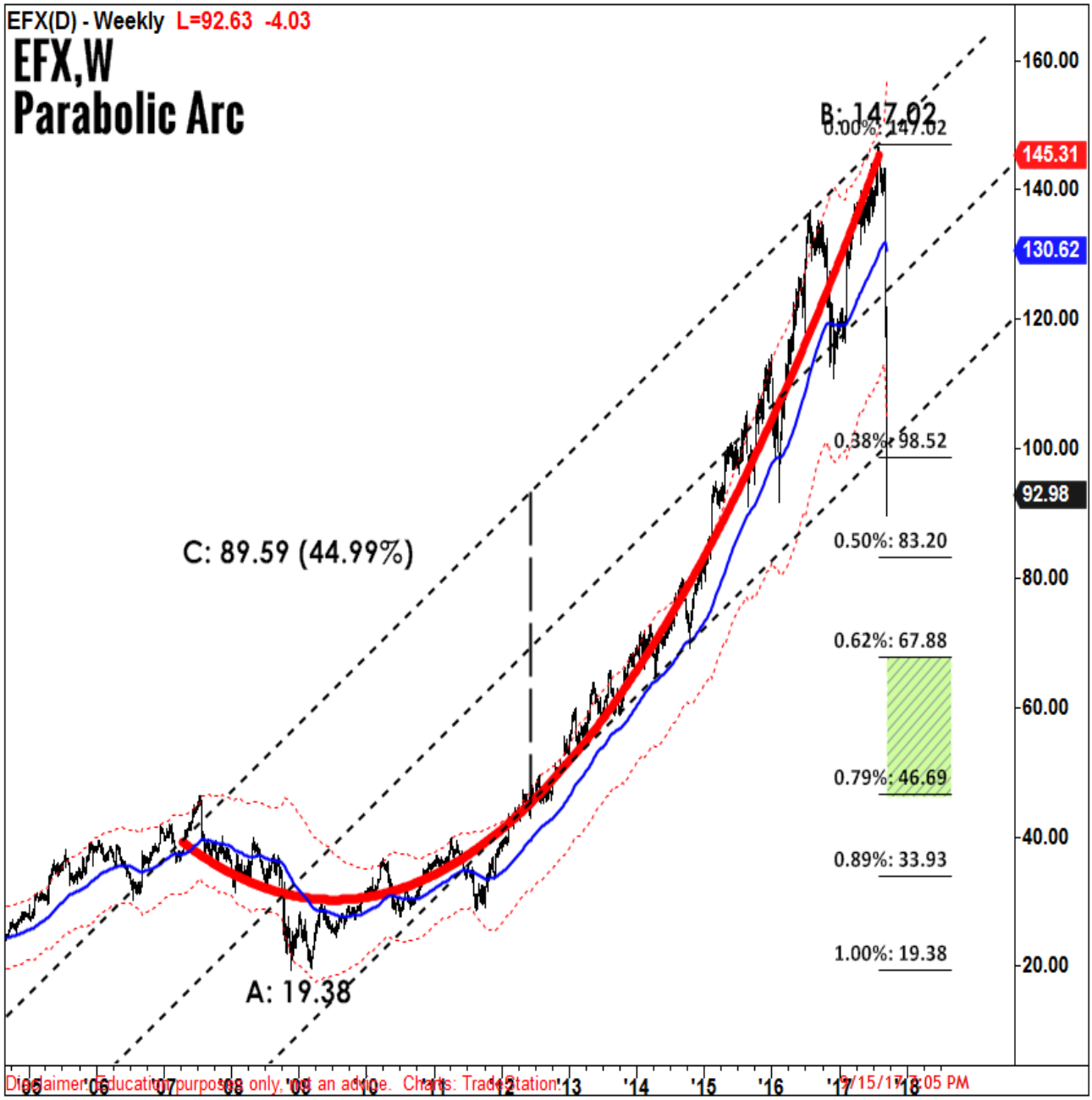


SWKS (W), Earnings: 10/19, is trading in Cup & Handle Pattern. Entry above breakout level: 112.88, Handle Low: 94.30, 31.83% below breakout level. T1: 135, 149.0 to 158.8 levels.

CBS Head and Shoulders Pattern

$CBS (D) HS Pattern. Short entry below 61.95, Stop above 65.35 (-3.40), Target1 Zone: 56.9 to 55.5, Target2 Zone: 51.6 to 48.7

EFX Parabolic Arc Pattern



EFX (W) is trading Parabolic Arc pattern. Parabolic Arcs are long-term patterns. Most parabolic arc patterns retrace 50 to 62% of its prior rise. EFX short entry was below $125. First target is at 83 and $46 to 67.

TSCO Inv. HS Pattern

$TSCO (D) Inv. HS Pattern (F). Long entry above 58.35, Stop below 55.10 (3.25), Target1 Zone: 63.6 to 65.0, Target2 Zone: 69.1 to 72.1

BABA ABC Bullish Pattern

$BABA (D) ABC Bullish Pattern Long Entry above 88.34, Stop below 86.00 (-2.34), Target1 Zone: 108.6 to 114.8, Target2 Zone: 132.5 to 145.3. BABA is currently trading in Target3 zone: 169 to 181.

AMCX ABC Bullish Pattern

$AMCX (D), Earnings: 11/2/17, ABC Bullish Pattern Long Entry above 57.54, Stop below 56.08 (-1.46), Target1 Zone: 65.1 to 67.6, Target2 Zone: 74.6 to 79.7

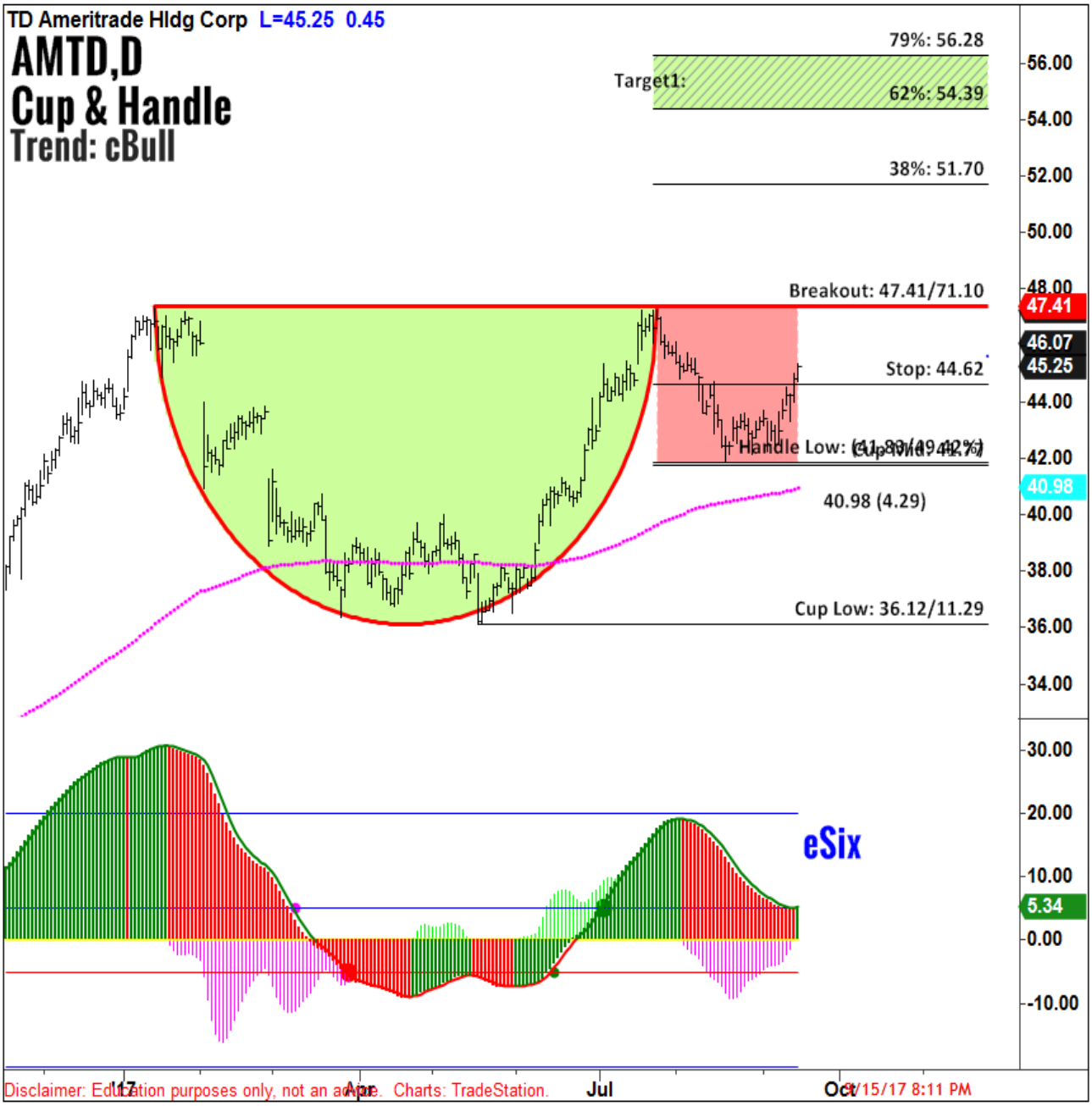
AMAT Asc. Triangle Pattern

AMAT (D) is trading in Ascending Triangle pattern. Top trendline is $47.86. Breakout level (above upper trendline) $47.86 . Targets: $51-54. Stop: $45.

AMGN ABC Bullish Pattern

$AMGN (D) ABC Bullish Pattern Long Entry above 169.86, Stop below 166.51 (-3.35), Target1 Zone: 185.3 to 190.4, Target2 Zone: 205.2 to 215.8

AMTD Cup & Handle Pattern

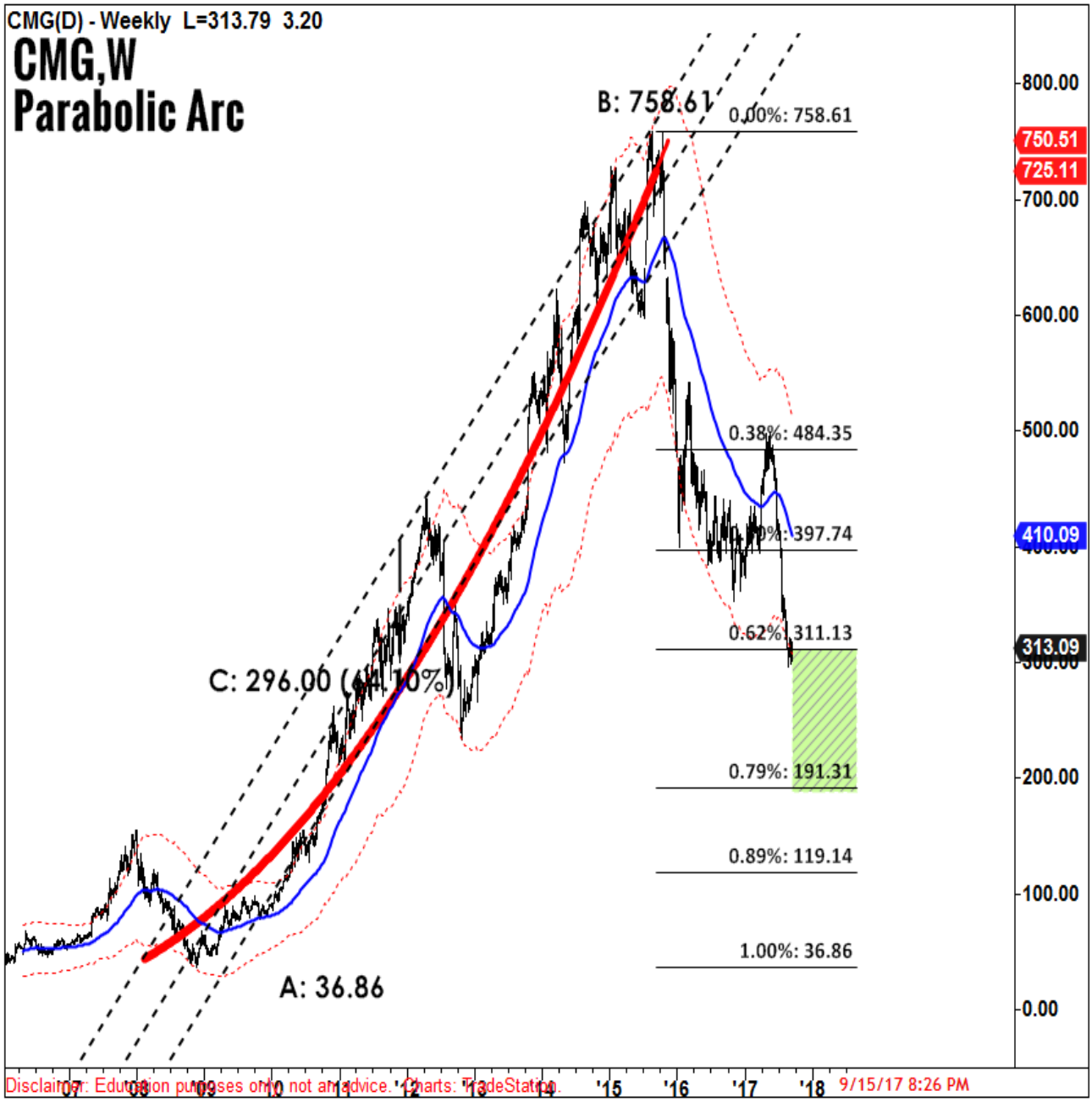


AMTD is trading in Cup & Handle Pattern. Entry above breakout level: 47.41, Handle Low: 41.83, 49.42% below breakout level. T1: 54.4 to 56.3, T2: 61.7 to 65.7

BIIB Inv. HS Pattern

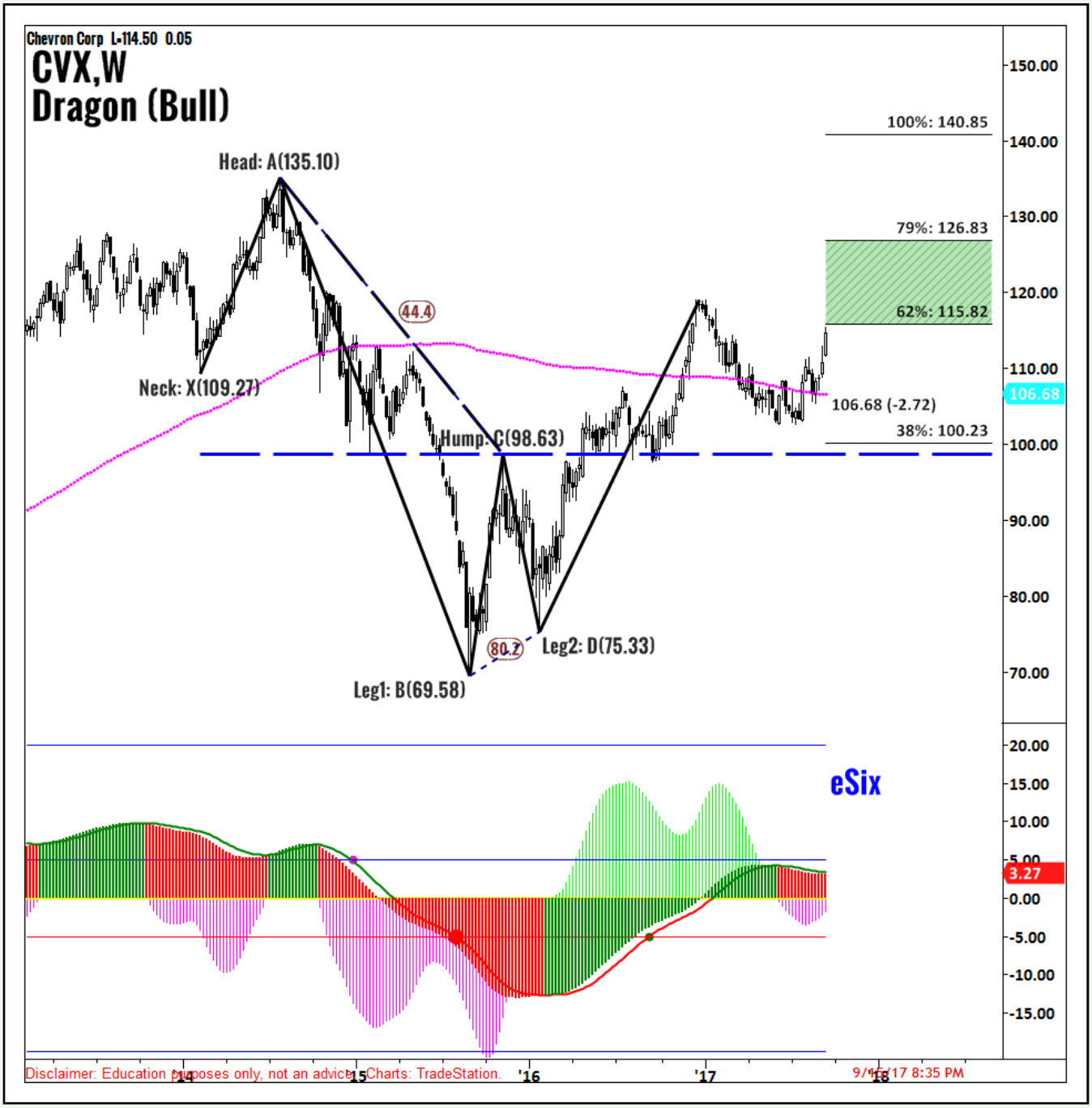
$BIIB (D) Inv. HS Pattern (F). Long entry above 291.90, Stop below 286.25 (5.65), Target1 Zone: 321.3 to 329.3, Target2 Zone: 352.4 to 369.0

CMG Parabolic Arc Pattern



CMG (W) is trading in Parabolic Arc pattern. Parabolic Arc patterns are long term patterns. CMG short entry was below $650. First Target: $397, Second Target zone: $191-311.

CVX Dragon Pattern



CVX (W) is trading in Bullish Dragon pattern. In January 2017, CVX reached its first target zone T1: 115-126.

DATA ABC Bullish pattern

$DATA (W) ABC Bullish Pattern Long Entry above 44.23, Stop below 41.40 (-2.83), Target1 Zone: 57.4 to 61.8, Target2 Zone: 74.3 to 83.4

GLD in ABC Bullish Pattern

$GLD (W) ABC Bullish Pattern Long Entry above 111.91, Stop below 106.99 (-4.92), Target1 Zone: 126.1 to 131.3, Target2 Zone: 146.3 to 157.1

GPRO ABC Bullish Pattern

$GPRO (D) ABC Bullish Pattern Long Entry above 9.13, Stop below 8.66 (-0.47), Target1 Zone: 10.7 to 11.2, Target2 Zone: 12.8 to 14.0

MCHP ABC Bullish Pattern

$MCHP (D) ABC Bullish Pattern Long Entry above 78.28, Stop below 75.79 (-2.49), Target1 Zone: 85.7 to 88.4, Target2 Zone: 96.2 to 101.9

MO Dragon Bear Pattern

MO (W) in Bearish Dragon pattern. MO Short entry was below $69.5. Targets $65-68, $62.

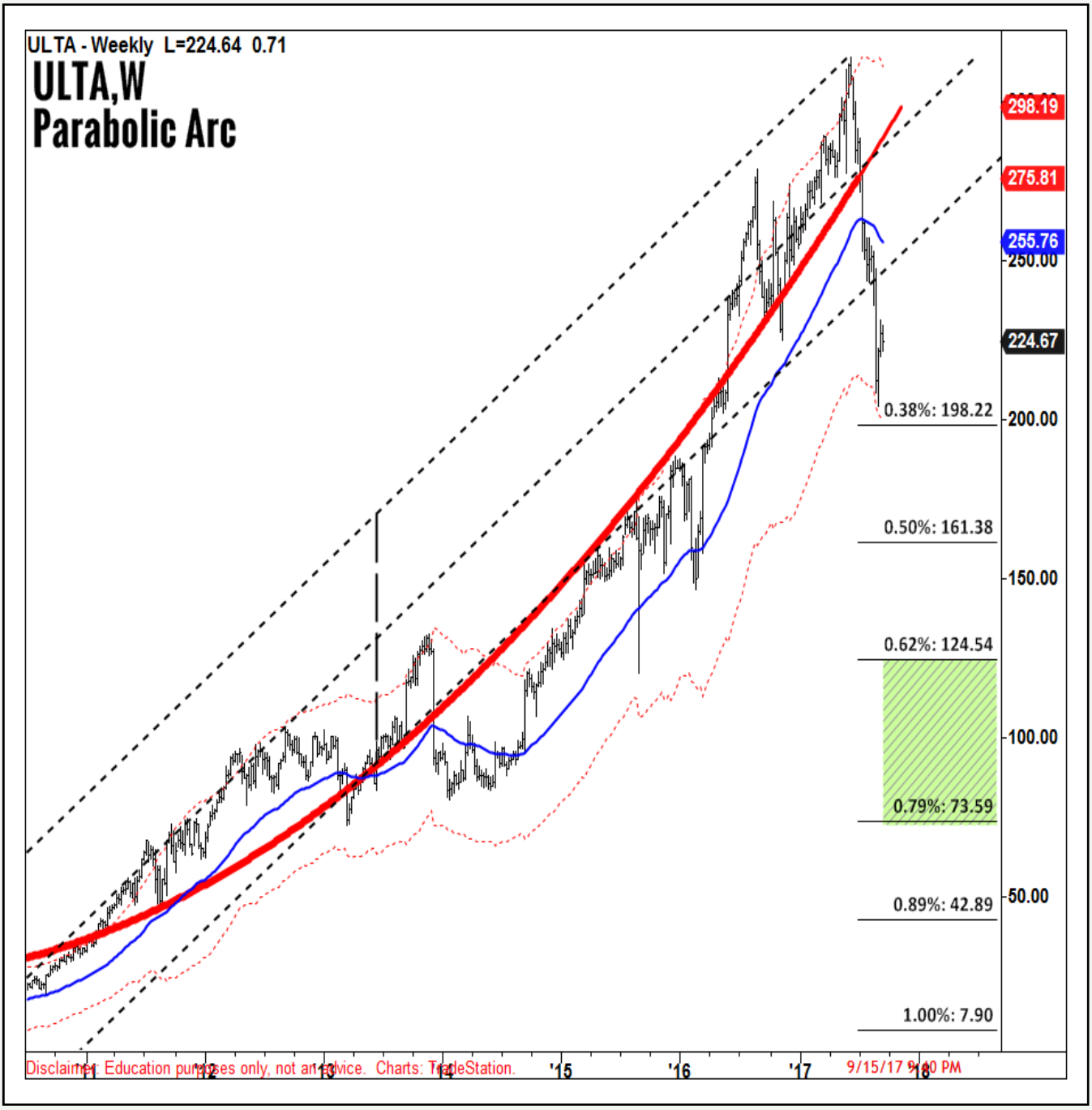
TGT Inv. HS Pattern

$TGT (D) Inv. HS Pattern. Long entry above 58.47, Stop below 56.19 (2.28), Target1 Zone: 64.6 to 66.3, Target2 Zone: 71.1 to 74.5

QRVO ABC Bullish Pattern

$QRVO (D) ABC Bullish Pattern Long Entry above 64.81, Stop below 62.67 (-2.14), Target1 Zone: 79.5 to 84.1, Target2 Zone: 97.3 to 106.9

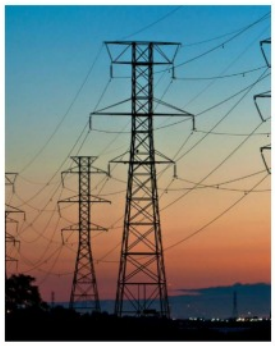
ULTA Parabolic Arc Pattern

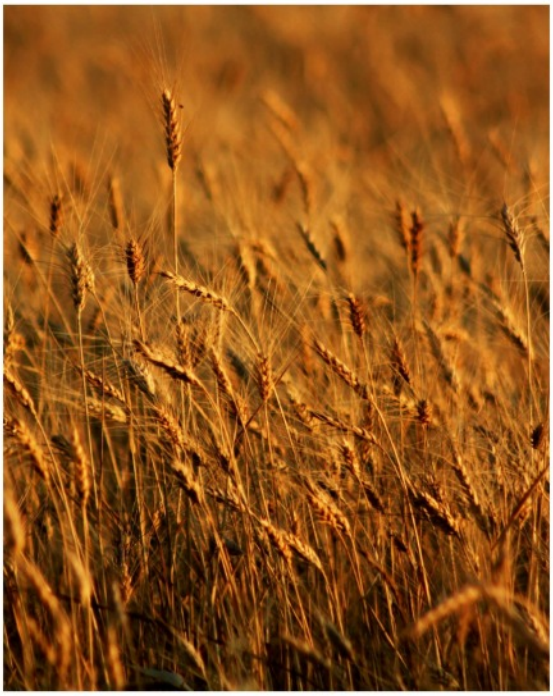


ULTA (W) is trading in Parabolic Arc pattern. Parabolic Arc patterns are long term patterns and retrace at 50-62% of its prior rise. ULTA Short entry below $265. ULTA targets: $198, $161, $73-124

Chart Patterns

Futures & Commodities





Soybeans Double Bottom Pattern

Soybeans (D) Double Bottom Pattern Long Entry above 939.5, Stop below 920.8 (-18.8), Target1 Zone: 1008 to 1031, Target2 Zone: 1099 to 1149

Crude Oil ABC Bullish Pattern

$@QM (D) ABC Bullish Pattern Long Entry above 47.500, Stop below 45.575 (-1.925), Target1 Zone: 50.67 to 52.05, Target2 Zone: 56.01 to 58.88

Coffee in ABC Bullish Pattern

$@KC (D) ABC Bullish Pattern Long Entry above 131.11, Stop below 126.70 (-4.41), Target1 Zone: 144.2 to 149.0, Target2 Zone: 162.6 to 172.5

Gold in ABC Bullish Pattern

$@GC (W) ABC Bullish Pattern Long Entry above 1203.3, Stop below 1139.6 (-63.7), Target1 Zone: 1342 to 1397, Target2 Zone: 1556 to 1670

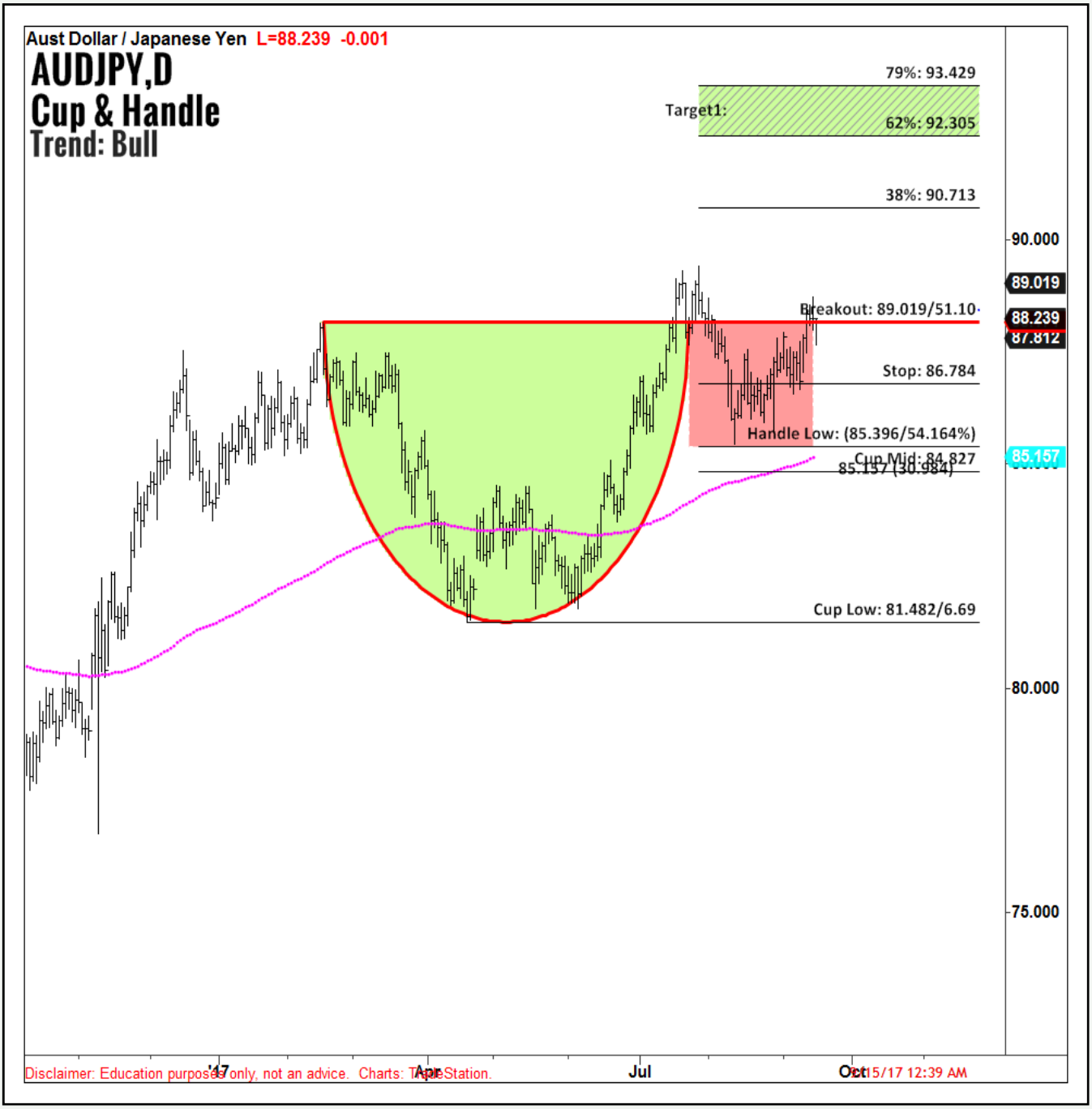
Silver Inv. Head and Shoulders Pattern

$@SI (D) Inv. HS Pattern (F). Long entry above 17.003, Stop below 16.593 (0.410), Target1 Zone: 18.10 to 18.39, Target2 Zone: 19.25 to 19.87

Chart Patterns

FX

AUDJPY Cup & Handle Pattern



AUDJPY is trading in Cup & Handle Pattern. Entry above breakout level: 89.019, Handle Low: 85.396, 54.16% below breakout level. T1: 92.30 to 93.43 T2: 96.67 to 99.01

AUDUSD ABC Bullish Pattern

$AUDUSD (D) ABC Bullish Pattern Long Entry above 0.74241, Stop below 0.73286 (-0.00955), Target1 Zone: 0.7693 to 0.7792, Target2 Zone: 0.8077 to 0.8284

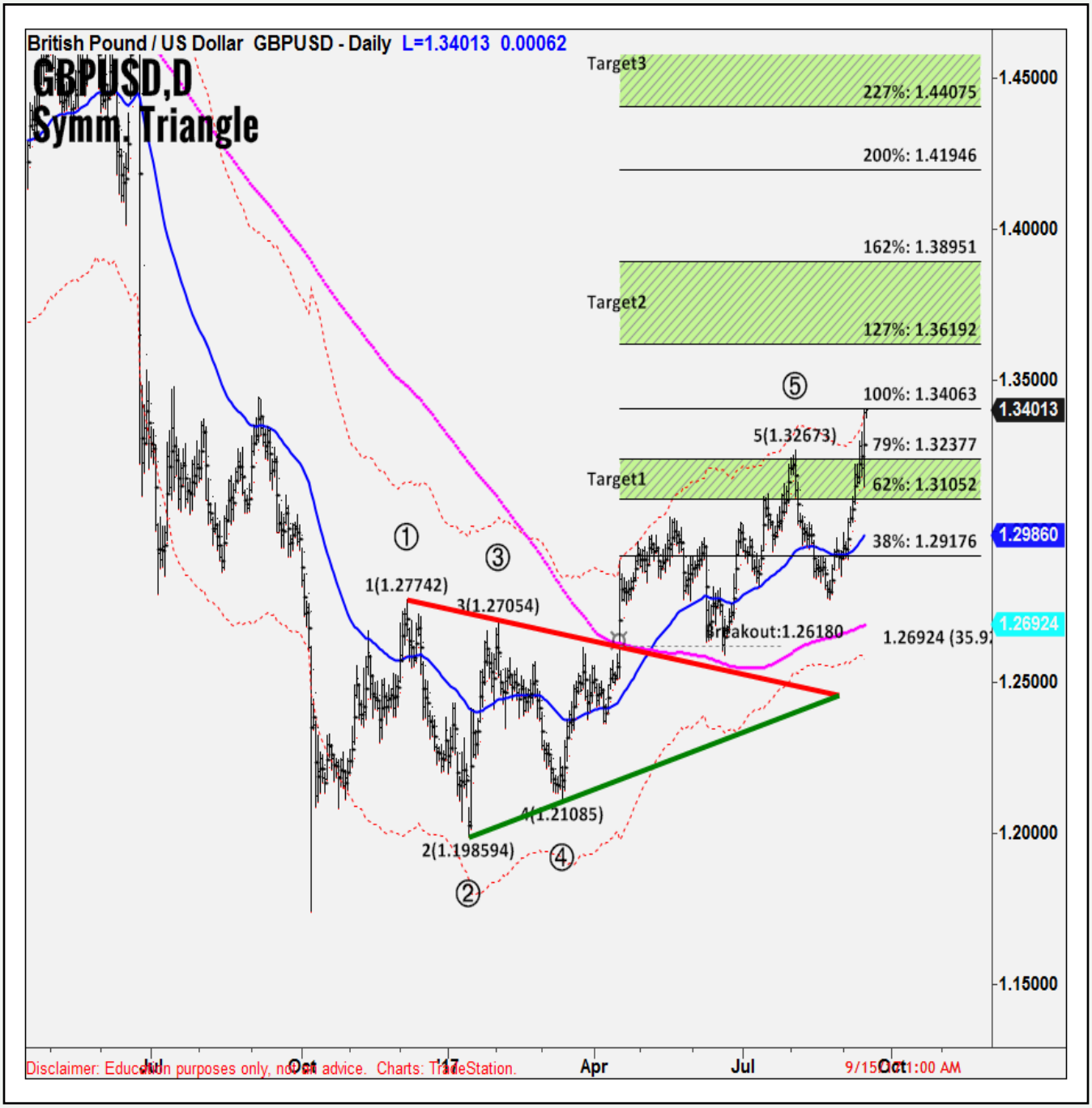
EURNZD ABC Bullish Pattern

EURNZD (D) HS Pattern. Short entry below 1.52340, Stop above 1.55656 (-0.03316), Target1 Zone: 1.4615 to 1.4447, Target2 Zone: 1.3962 to 1.3612

GBPNZD ABC Bullish Pattern

$GBPNZD (D) Inv. HS Pattern (F). Long entry above 1.79203, Stop below 1.77206 (0.01997), Target1 Zone: 1.8244 to 1.8332, Target2 Zone: 1.8585 to 1.8768

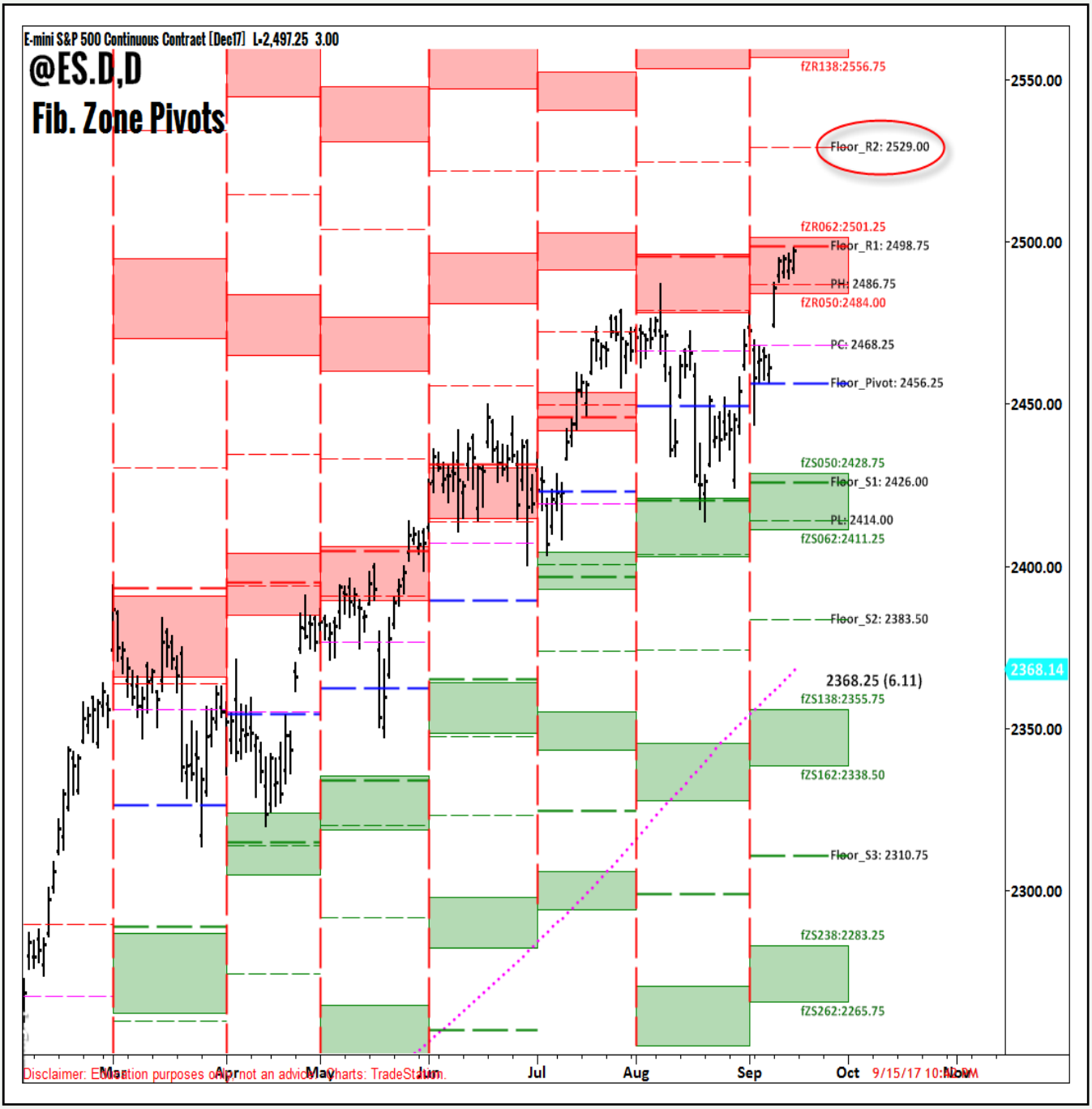
GBPUSD Symm. Triangle Pattern



GBPUSD trading in Symm. Triangle pattern. Breakout above 1.26180, T1: 1.3105-1.3237, T2: 1.3619-1.3895

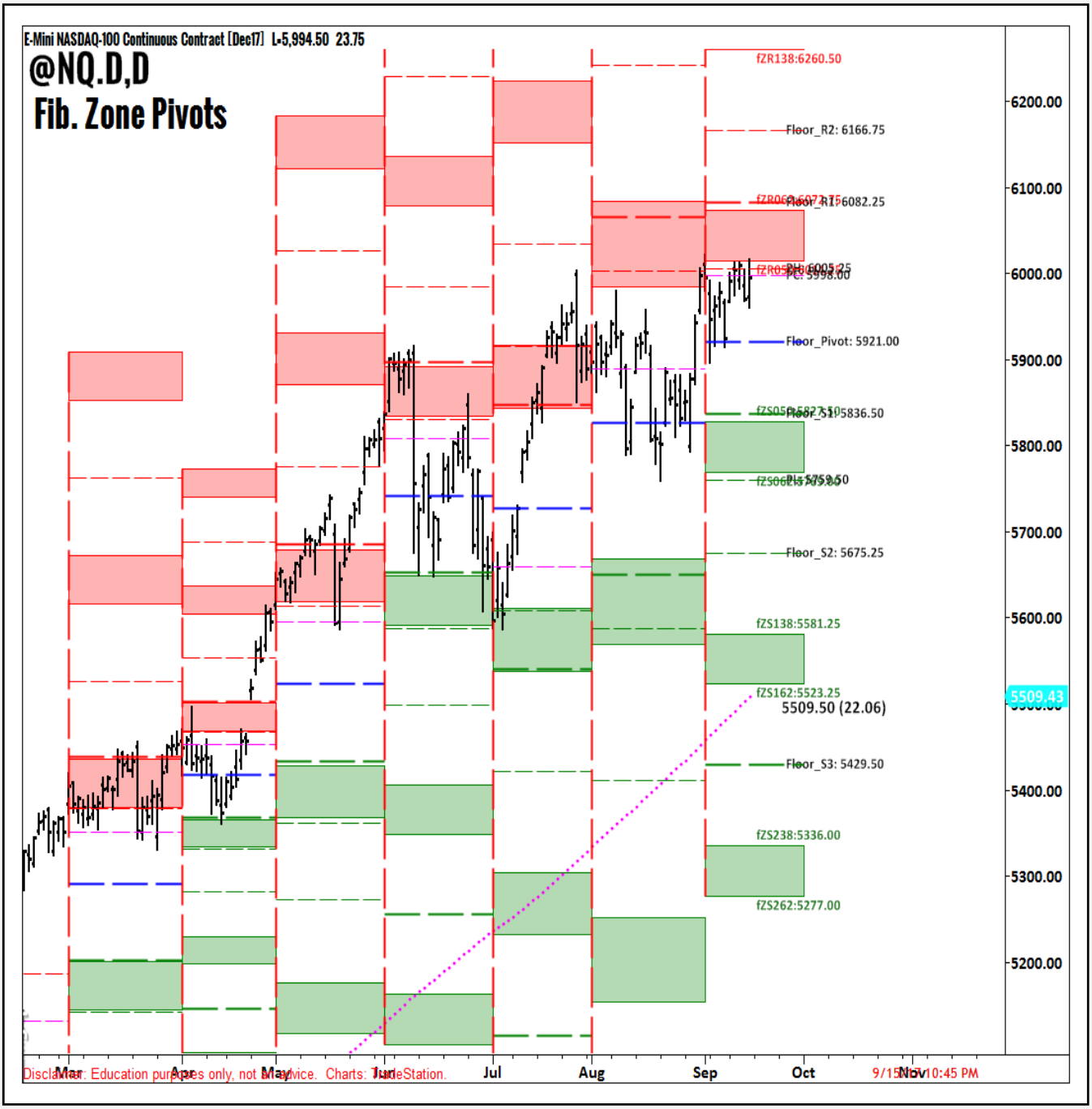
Key Support/Resistance, Pivots

ES Fib. Zone Pivots



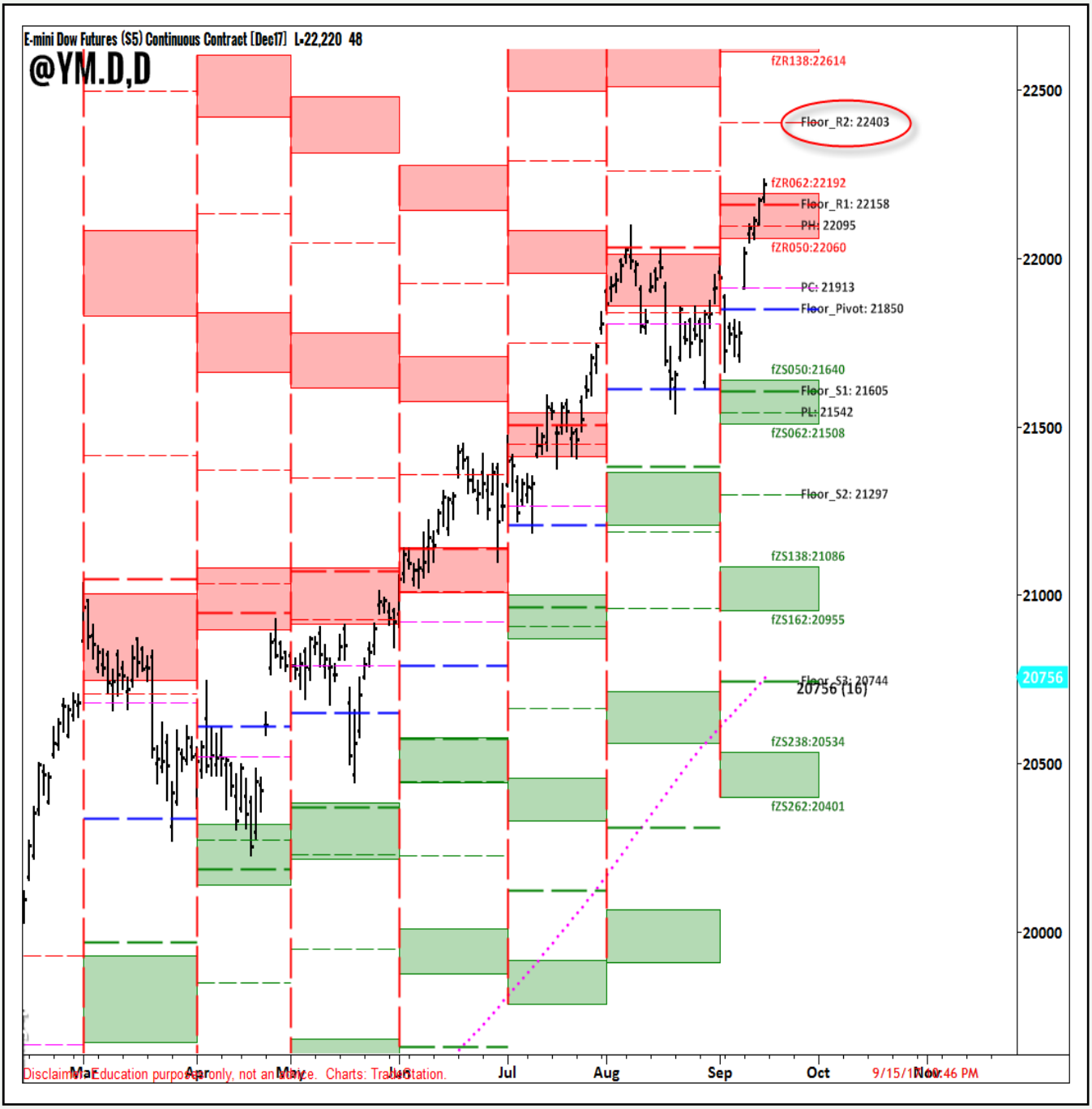
@ES Fib. Zone Pivots

NQ Fib. Zone Pivots



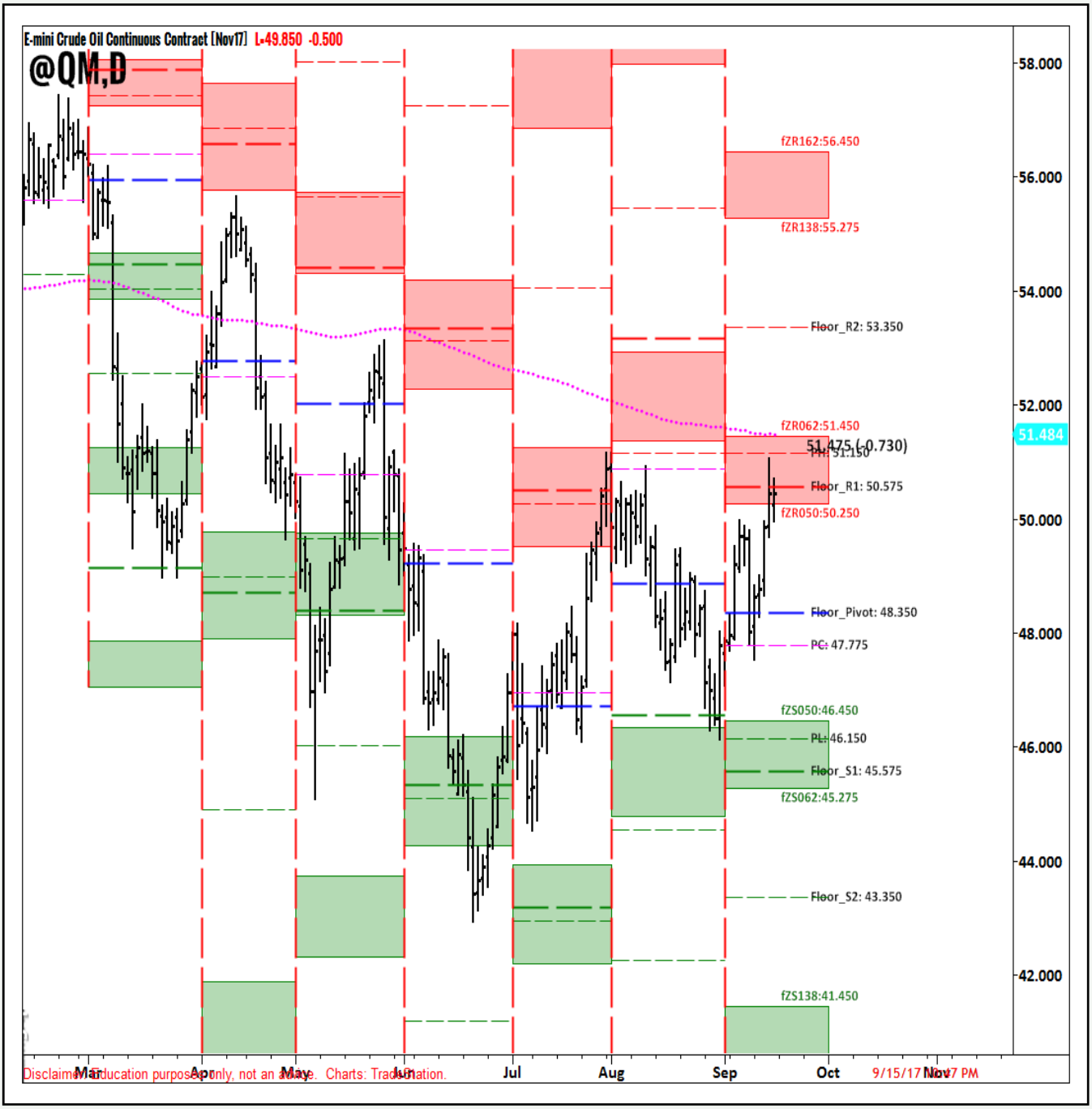
NQ Fib. Zone Pivots

YM Fib. Zone Pivots



YM Fib. Zone Pivots

QM Fib. Zone Pivots



QM Fib. Zone Pivots

@GC Fib. Zone Pivots

@GC Fib. Zone Pivots

GAP Charts

Shows filled and unfilled gap levels

@ES Gap Chart

@ES Gap chart with filled and unfilled Gaps with at least 1 ATR Gap.

@NQ Gap Chart

@NQ Gap chart with filled and unfilled Gaps with at least 1 ATR Gap.

@YM Gap Chart

@YM Gap chart with filled and unfilled Gaps with at least 1 ATR Gap.

Earnings

Earnings companies in the next few weeks.

September Earnings Calendar

Sept 2017

Horz.

1 Fri	4 Mon	5 Tue	6 Wed	7 Thu	8 Fri	11 Mon	12 Tue	13 Wed	14 Thu	15 Fri	18 Mon	19 Tue	20 Wed	21 Thu	22 Fri	25 Mon	26 Tue	27 Wed	28 Thu	29 Fri
									ORCL			ADBE AZO CPRT FDX YGE				RHT	DRI LEN MU NKE	JBL PIR	BBRY	SLV

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October Earnings Calendar

Oct 2017 | Horz.

2 Mon	3 Tue	4 Wed	5 Thu	6 Fri	9 Mon	10 Tue	11 Wed	12 Thu	13 Fri	16 Mon	17 Tue	18 Wed	19 Thu	20 Fri	23 Mon	24 Tue	25 Wed	26 Thu	27 Fri	30 Mon	31 Tue
	PAYX	MON	COST				FAST	DAL	C	BLK	AMTD	ASML	ABT	CL	GOOG	AKAM	ALGT	AFL	AAL	ICPT	AAPL
		PEP						TSM	INFY	NFLX	BAC	AXP	ATHN	GE	HDB	AMD	BA	ALXN	ABBV	P	CME
									JPM		CSX	MS	BX	HON	ITW	AMGN	BWLD	AMZN	CVX	SIMO	CMI
									WFC		GS	OCOM	CHKP	RF	JJSF	AZN	DHI	BIDU	IRM	SOHU	DVN
											HOG	SRPT	DOV	SLB	SONC	BIIB	F	BMY	MRK		ECL
											IBM	TZA	EBAY		WBMD	CAT	FB	BUD	VRTS		FARO
											JNJ		ETFC			CMG	FFIV	CELG	WY		FEYE
											LMT		ISRG			CVLT	FLIR	CERN	XOM		FISV
											SCHW		MANH			ESRX	GD	CHTR			IDXX
											UAL		MSFT			FCX	GILD	CRAY			ILMN
											UNH		MXIM			GM	GLW	CY			INCY
													PM			JBLU	IMAX	DECK			MOS
													SAP			JNPR	KO	EA			OKE
													SHW			LLY	LPSN	EXPE			PFE
													SWKS			MCD	LRCX	FLEX			PZZA
													SYNT			MMM	LVS	FSLR			RCL
													V			NEM	MLNX	IBN			S
													WBA			PCAR	NDAO	INTC			SPG
													WIT			PHM	NOC	IP			SPWR
																SFLY	NTGR	JCI			UA
																STX	ORLY	KKR			ULTI
																T	STRA	KLAC			WAGE
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																WYNN	VAR	LUV			
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																		MO			
																		MSTR			
																		MT			

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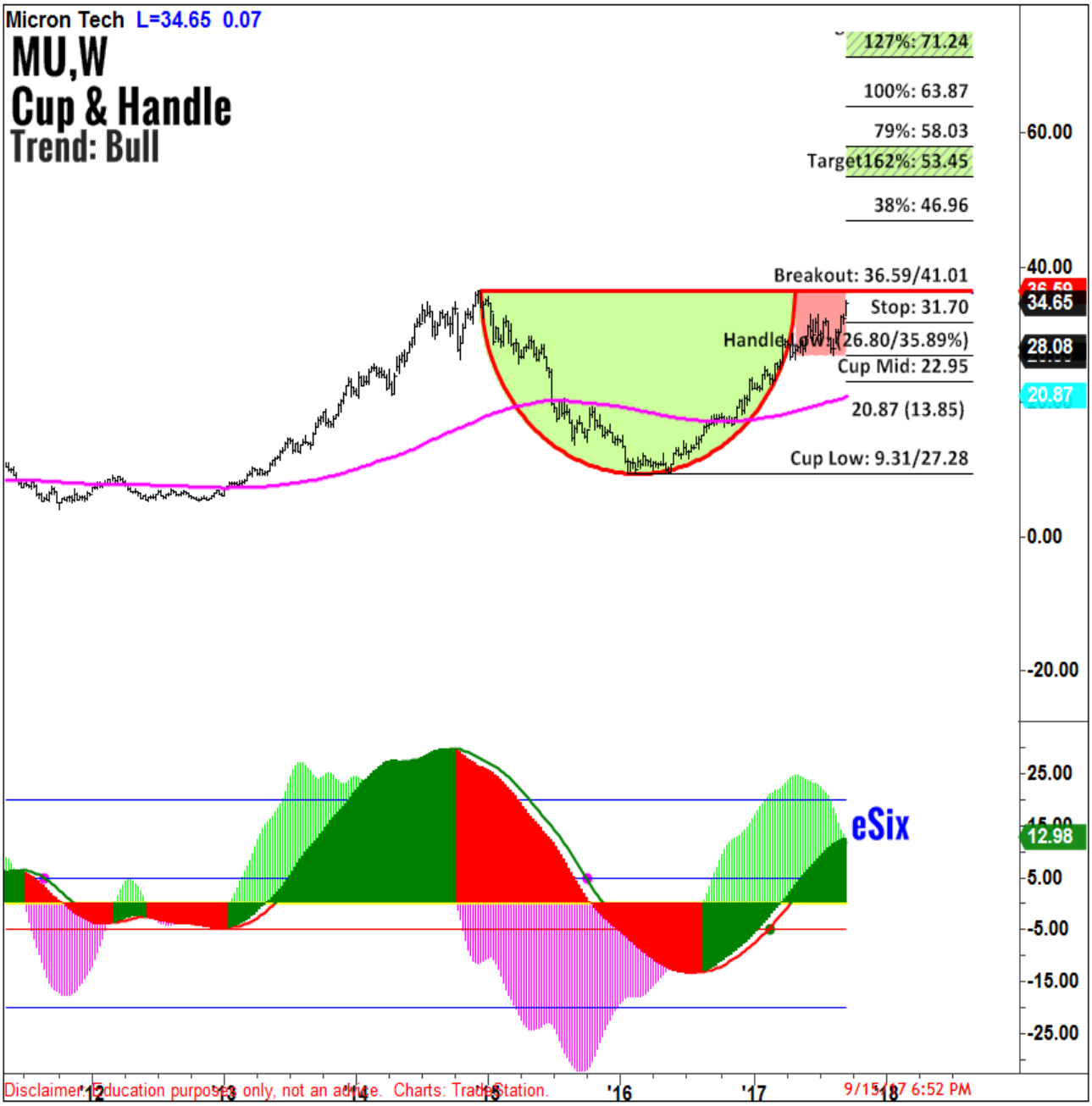
RHT ABC Bullish Pattern

$RHT (W) ABC Bullish Pattern Long Entry above 75.07, Stop below 68.53 (-6.54), Target1 Zone: 82.3 to 86.0, Target2 Zone: 96.8 to 104.5

INTC ABC Bullish Pattern

$INTC (D) ABC Bullish Pattern Long Entry above 34.81, Stop below 34.37 (-0.44), Target1 Zone: 36.5 to 37.1, Target2 Zone: 38.8 to 40.0

MU Cup & Handle Pattern

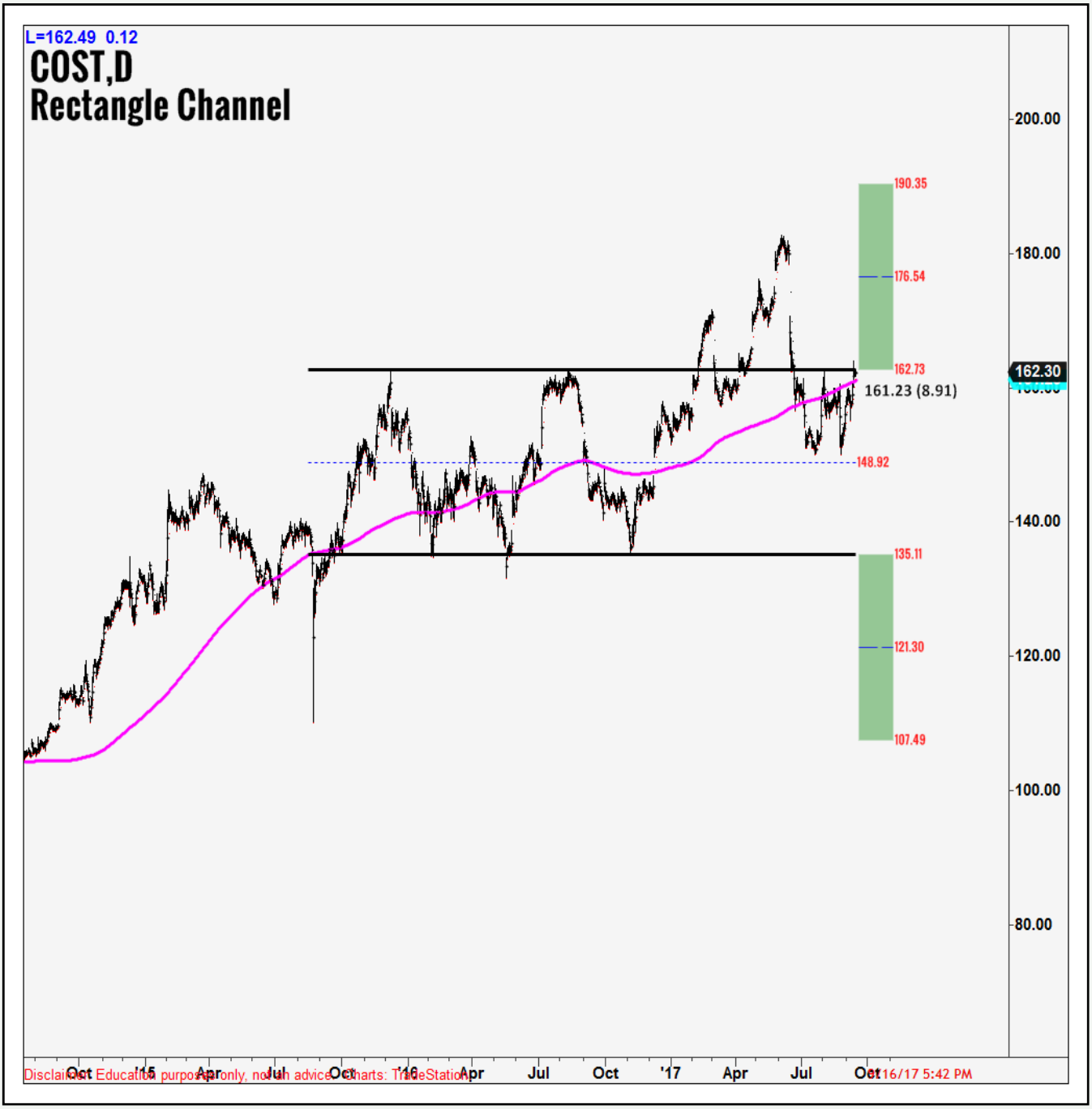


MU is trading in Cup & Handle Pattern. Entry above breakout level: 36.59, Handle Low: 26.80, 35.89% below breakout level. T1: 53.4 to 58.0, T2: 71.2 to 80.8

NKE Rectangle Channel

NKE (Earnings: 9/26) is trading in a long rectangle channel pattern. Rectangle range is $50 to $58. Watch the upper and lower trendlines for potential breakouts.

COST Rectangle Channel



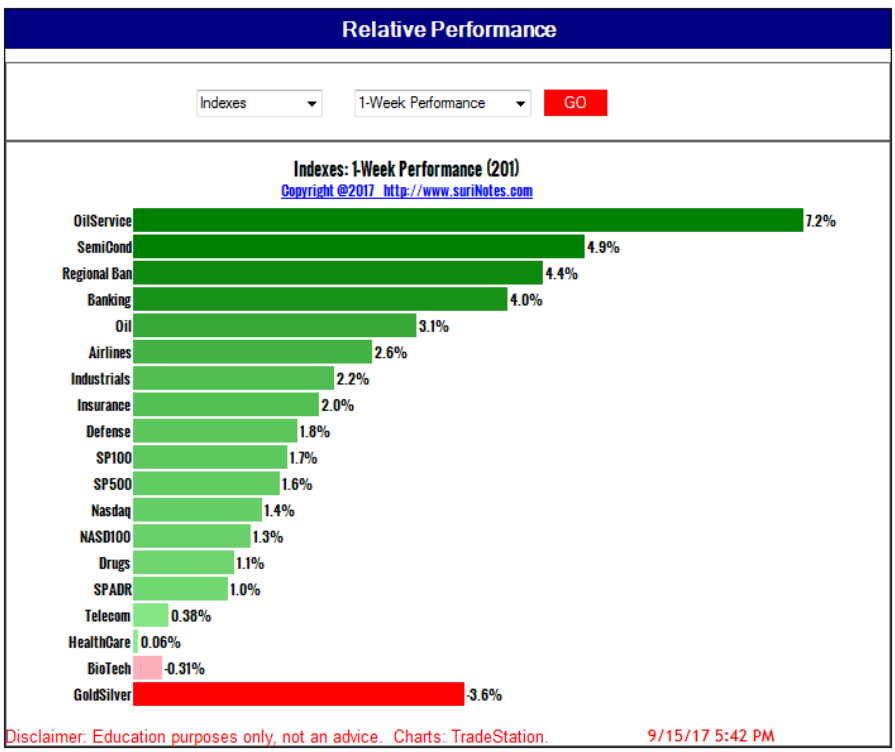
COST (Earnings: 10/5) is trading in Rectangle channel. Channel upper and lower ranges are $135 to 162.

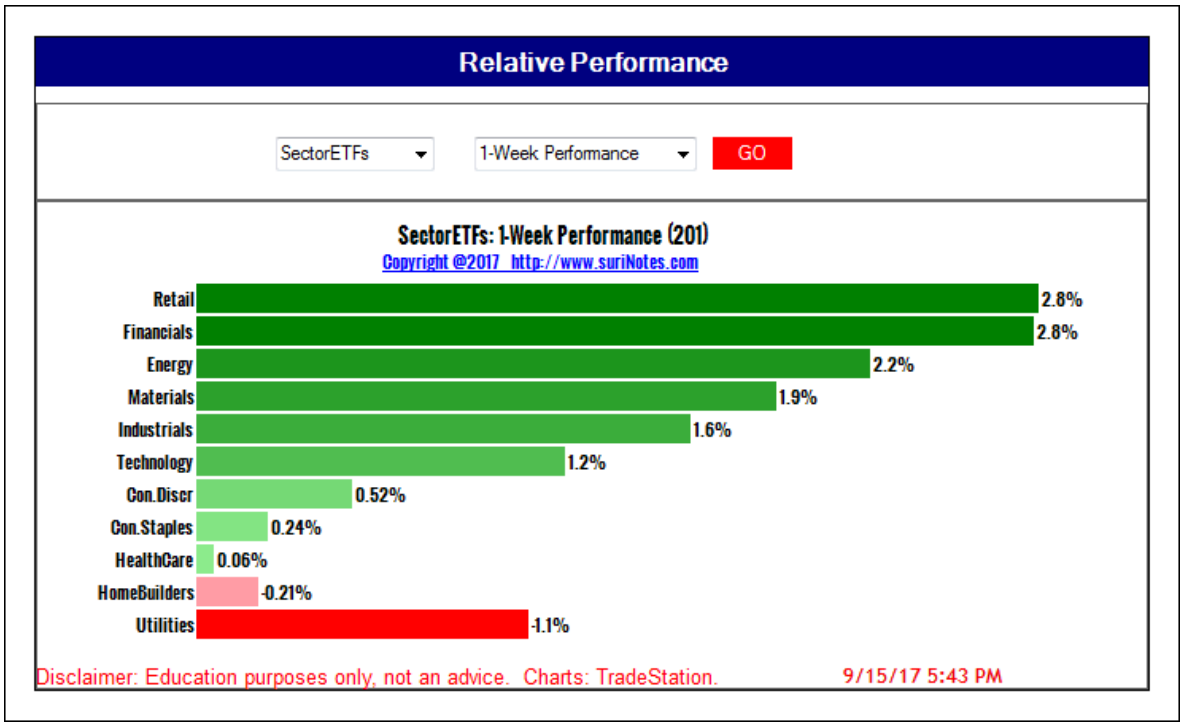
Weekly Relative Performances

Sector & Indexes Relative Performances

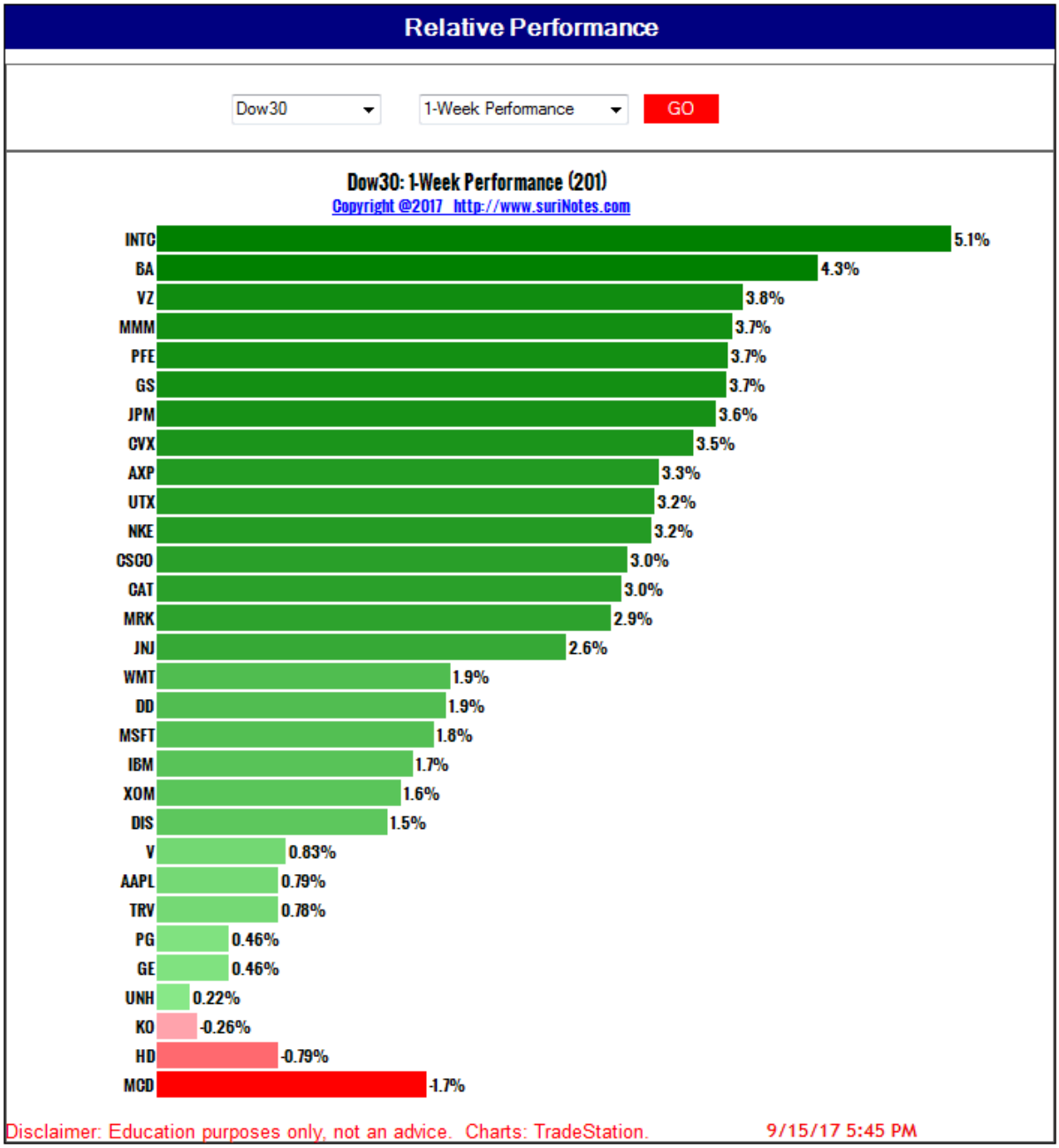
Winners: Oil Services, SemiConductors, Retail

Losers: BioTech, Gold Silver, Utilities

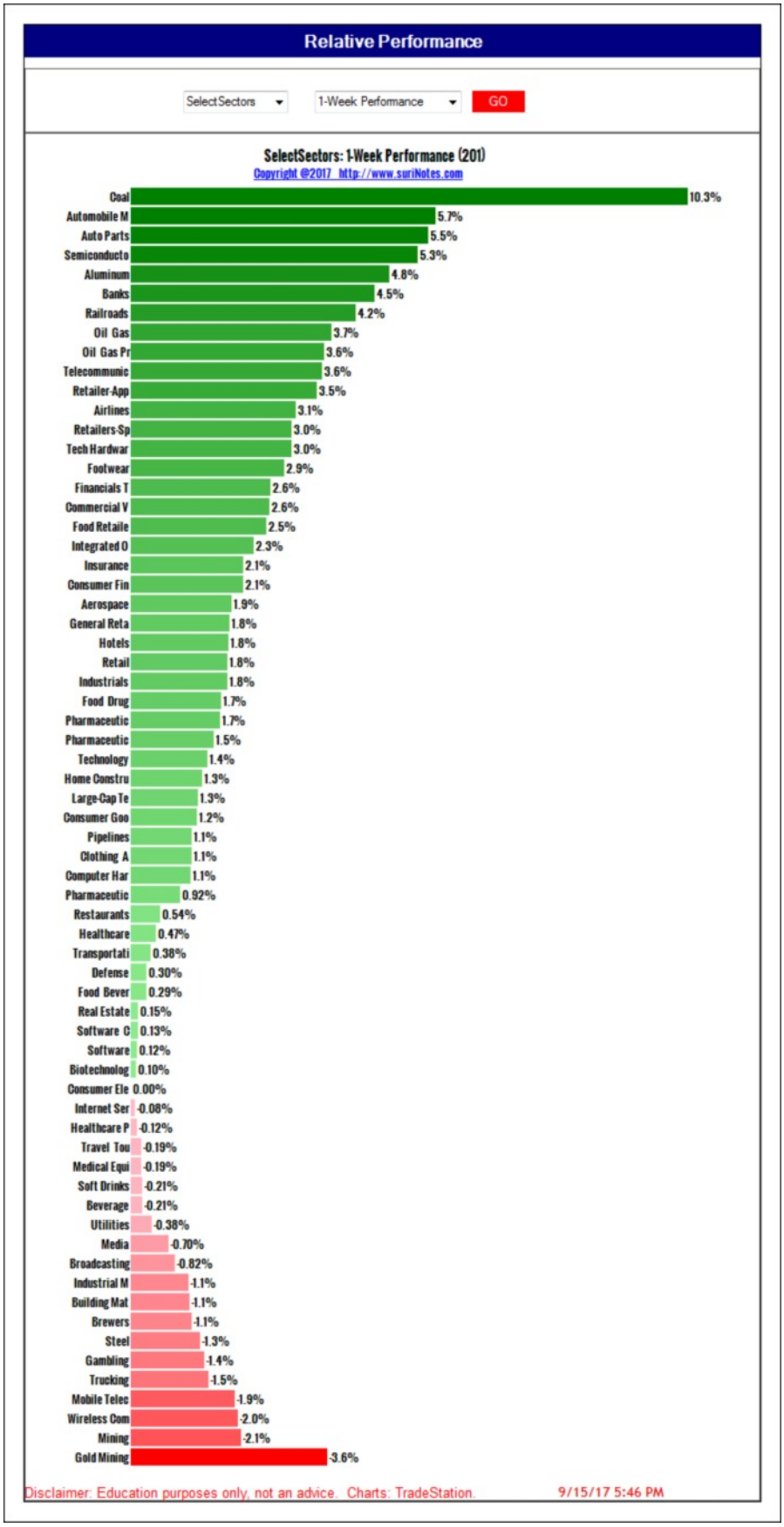




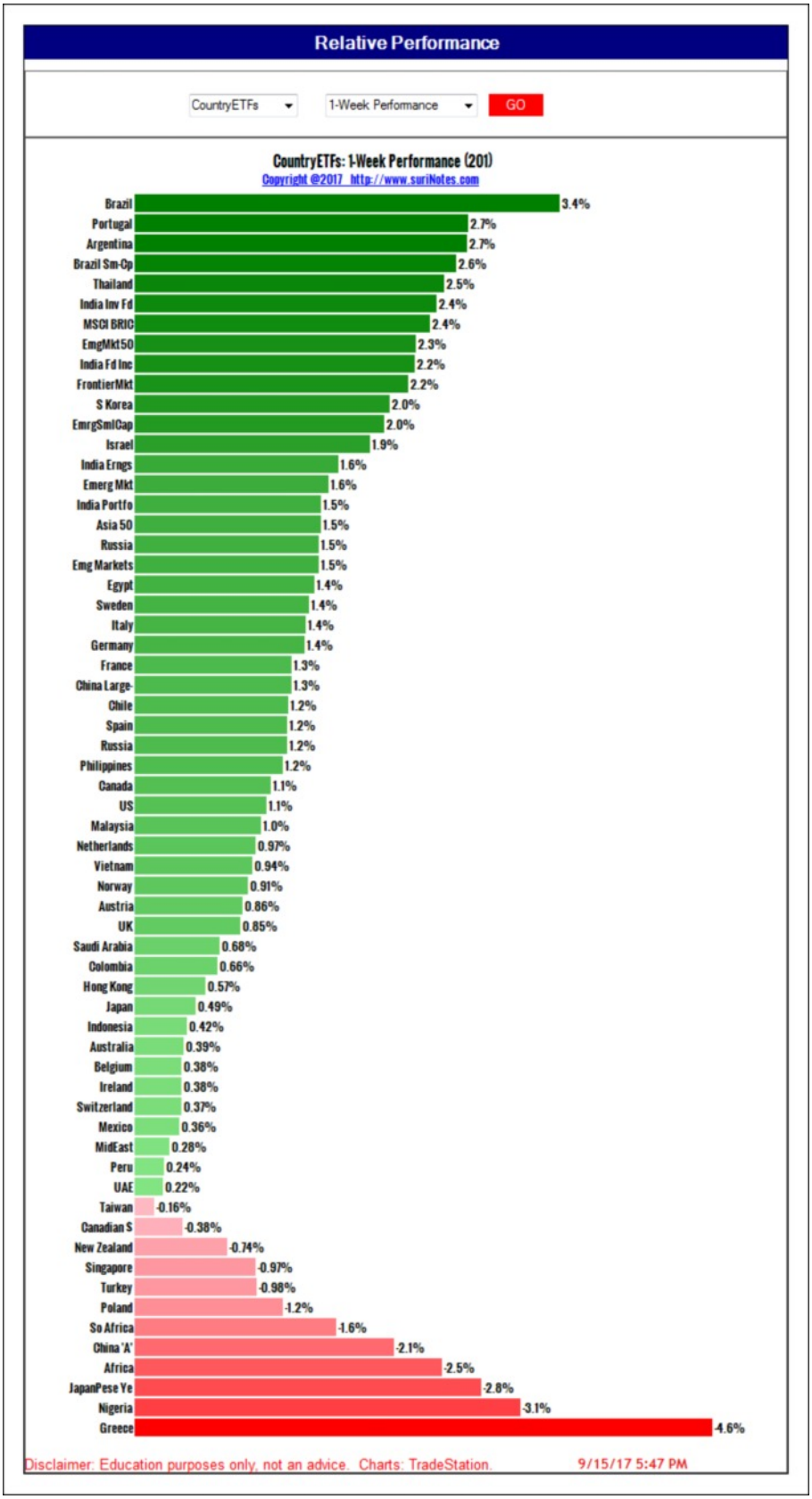
Dow 30 Weekly Relative Performance



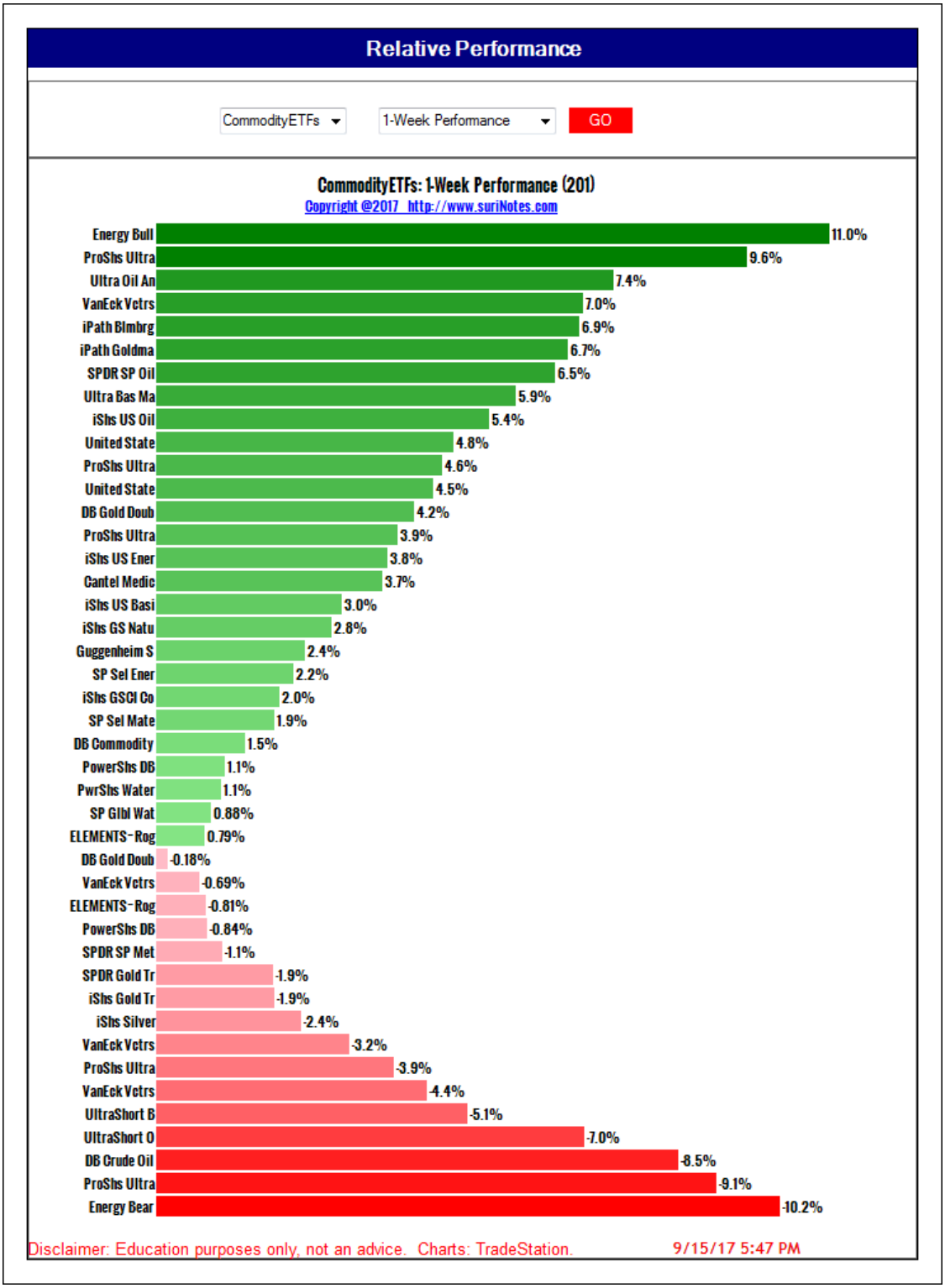
Select Sectors Weekly Performance



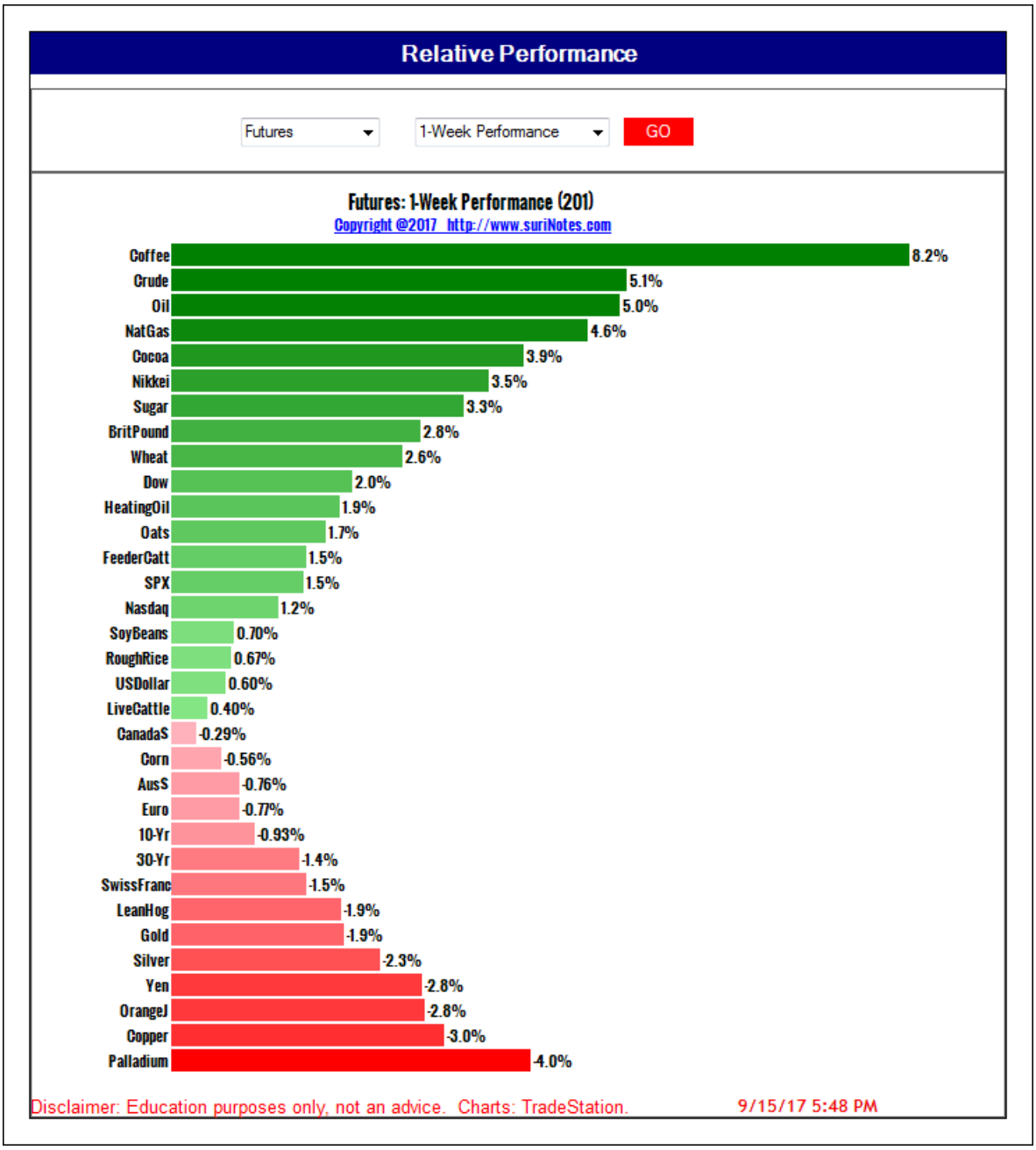
Country ETFs Weekly Performance



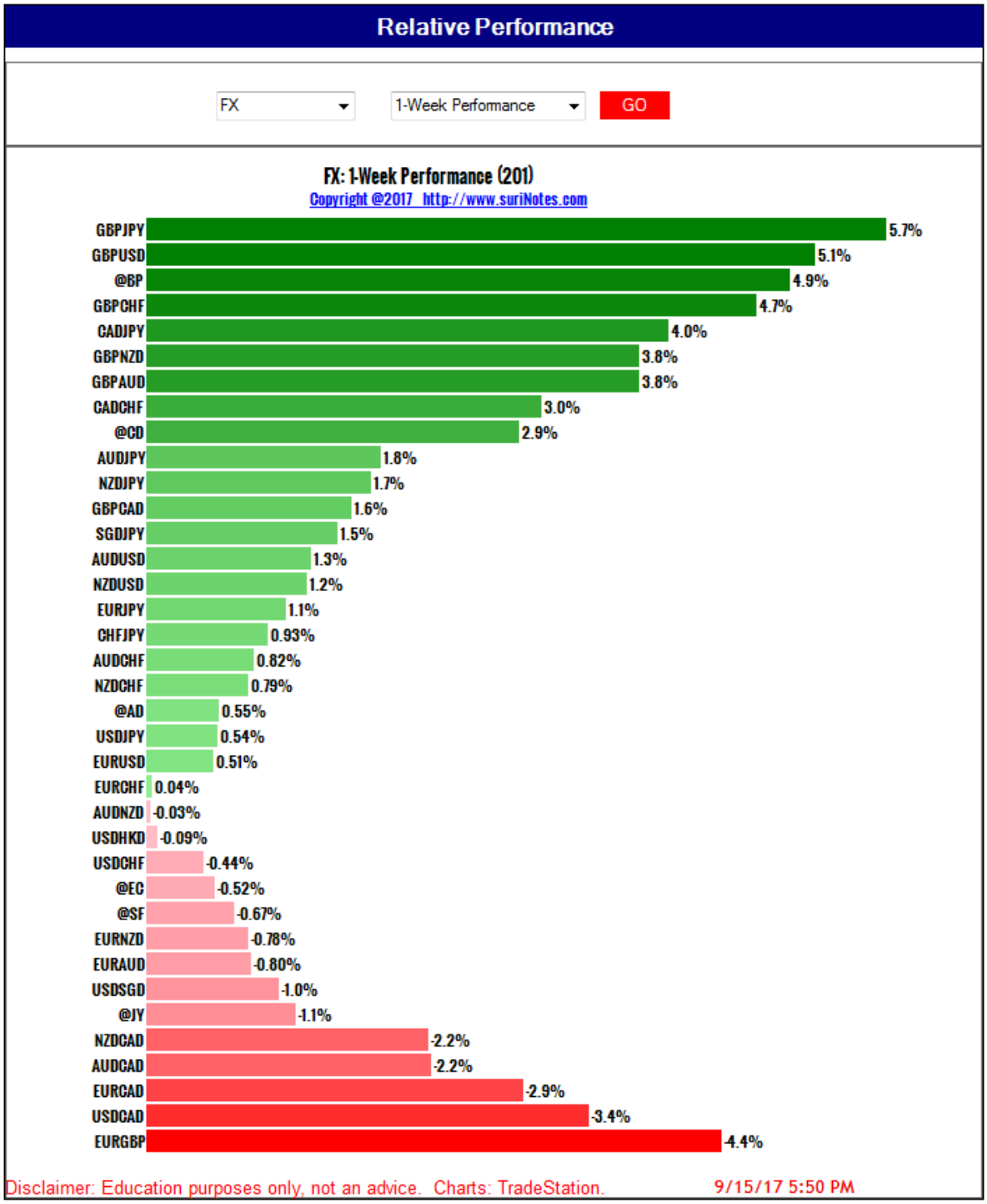
Commodity ETFs Weekly Performance



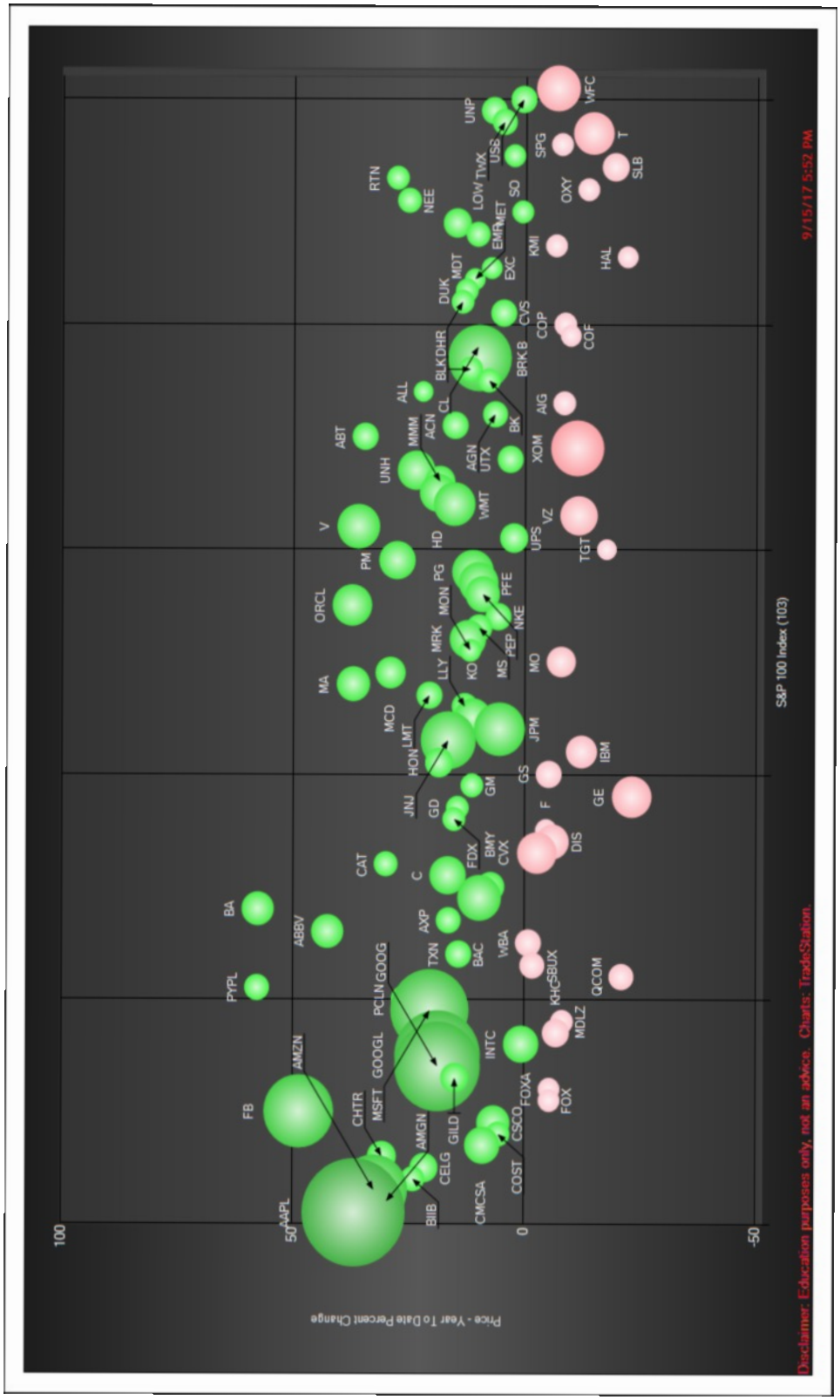
Futures ETF Weekly Performance



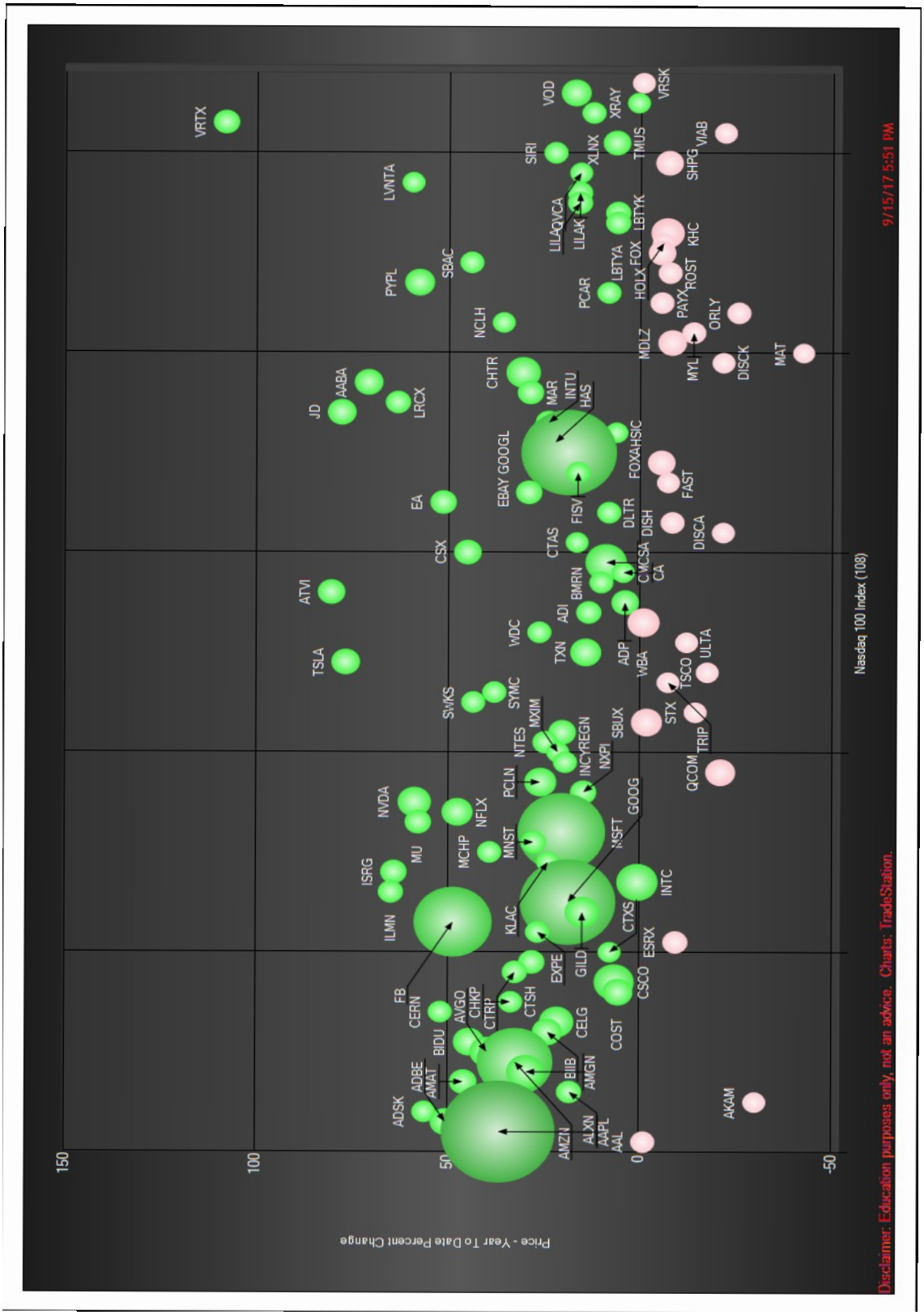
FX Weekly Performance



S&P 100 YTD Performances



NASD 100 YTD Performances



Watch Lists

Momentum

Relative Strength

Bullish/Bearish Lists

NH/NL

Oversold/Overbought

Key Retracements

Relative Strength Ranks (200)

	S...	PlotS... Sym	Last	suri.RS.RSR YTD	1M	3M	1YR		S...	PlotS... Sym	Last	suri.RS.RSR YTD	1M	3M	1YR		S...	PlotS... Sym	Last	suri.RS.RSR YTD	1M	3M	1YR		S...	PlotS... Sym	Last	suri.RS.RSR YTD	1M	3M	1YR		S...	PlotS... Sym	Last	suri.RS.RSR YTD	1M	3M	1YR
1		OLED	132.05	100	96	80	100	41		BBRY	9.28	80	69	10	72	81		XLV	82.59	60	65	58	48	121		MS	46.60	40	30	52	89	161		CREE	24.59	19	56	39	29
2		SINA	116.30	100	98	99	95	42		IFN	28.20	80	53	49	42	82		COH	41.34	59	43	11	51	122		GRMN	52.48	39	45	42	40	162		TRIP	43.92	19	83	87	5
3		ALNY	76.05	99	7	32	29	43		V	105.70	79	48	75	73	83		GOOG	920.29	59	26	25	57	123		PFE	35.38	39	75	64	30	163		F	11.61	18	79	49	20
4		NVDA	180.37	99	82	90	100	44		WBMD	66.48	79	29	83	70	84		ICE	65.38	58	22	37	53	124		COST	162.11	38	56	22	43	164		MO	62.38	18	8	5	26
5		MELI	282.71	98	97	65	95	45		GPRO	11.51	78	95	100	9	85		INCY	119.15	58	5	34	90	125		CSCO	32.44	38	36	44	31	165		CBS	58.23	17	1	18	43
6		TSLA	379.81	98	67	43	98	46		MCD	156.95	78	25	47	80	86		BUD	120.86	57	54	58	22	126		CAVM	66.55	37	86	34	55	166		LULU	60.60	17	43	84	16
7		DATA	75.67	97	77	91	82	47		AMZN	987.05	77	31	31	72	87		JNJ	134.21	57	33	31	46	127		CTXS	76.22	37	42	21	48	167		CYBR	41.68	16	52	8	10
8		WYNN	143.20	97	68	60	75	48		CTRP	52.42	77	41	28	58	88		AXP	86.62	56	30	62	82	128		IP	56.23	36	70	29	54	168		ESRX	62.65	16	40	29	12
9		ILMN	210.72	96	87	92	59	49		CAT	121.30	76	78	79	90	89		NXPI	112.84	56	28	48	76	129		XLF	24.80	36	16	41	71	169		AMBA	46.43	15	3	20	4
10		ISRG	1,038.20	96	70	82	92	50		JBL	30.72	75	60	68	83	90		NTAP	41.00	55	13	68	55	130		BMY	62.52	35	82	86	44	170		VZ	47.85	15	16	44	17
11		BA	249.02	95	63	96	98	51		TSM	37.65	75	55	53	73	91		TXN	84.84	55	57	60	63	131		JPM	91.60	35	18	59	83	171		IBM	144.80	14	44	17	18
12		SOHU	55.81	95	45	93	66	52		SPLK	67.22	74	94	89	45	92		CME	131.29	54	64	51	59	132		KORS	43.75	34	44	98	20	172		ULTA	224.64	14	6	3	21
13		MU	34.60	94	95	87	99	53		WDC	88.55	74	72	38	96	93		FDX	214.83	54	49	41	80	133		NKE	53.85	34	4	56	23	173		OIL	5.26	13	73	73	23
14		WDAY	105.04	94	52	62	56	54		CTSH	71.82	73	29	67	77	94		LOGM	111.20	53	8	43	62	134		AMTD	45.25	33	61	74	81	174		XLE	65.82	13	58	28	21
15		FSLR	50.45	93	49	99	87	55		SAP	109.71	73	58	50	65	95		REGN	433.45	53	4	18	37	135		UPS	117.90	33	53	61	40	175		STX	33.57	12	62	5	16
16		RHT	107.30	93	80	92	88	56		EQIX	455.31	72	40	61	67	96		C	69.13	52	41	69	89	136		CRUS	57.85	32	59	15	33	176		UTHR	120.79	12	5	16	25
17		ADSK	114.13	92	62	71	96	57		PM	115.90	72	20	19	53	97		YELP	43.57	52	67	100	49	137		INTC	36.98	32	50	54	28	177		CMG	313.99	11	11	2	8
18		SODA	58.59	92	33	77	99	58		EXPE	142.13	71	9	23	70	98		GLD	125.37	51	60	55	27	138		FCX	13.90	31	23	91	85	178		TSCO	63.15	11	98	82	15
19		ADBE	154.49	91	48	77	93	59		ORCL	48.70	71	27	70	58	99		NOC	267.03	51	14	47	68	139		ULTI	187.38	31	12	9	14	179		TGT	59.87	10	90	84	12
20		AMAT	47.20	91	81	72	94	60		FXI	44.35	70	71	76	54	100		GD	197.99	50	23	24	74	140		RL	90.87	30	79	95	14	180		UAL	59.90	10	2	4	51
21		FB	171.54	90	31	83	79	61		PCLN	1,843.20	70	20	42	69	101		XHB	38.77	50	39	33	44	141		XONE	9.98	30	100	4	7	181		FFIV	116.22	9	14	12	24
22		SWKS	109.55	90	57	65	86	62		AMGN	187.47	69	89	86	38	102		PANW	143.21	49	88	71	22	142		DDD	13.71	29	90	1	11	182		WAGE	58.00	9	27	6	19
23		CERN	71.48	89	92	70	47	63		NTES	271.30	69	13	13	47	103		XLU	54.75	49	32	36	41	143		WBA	82.50	29	42	54	28	183		QCOM	52.19	8	10	14	10
24		NFLX	182.47	89	85	90	97	64		KLAC	98.64	68	86	35	85	104		DIA	222.59	48	35	52	62	144		INFY	14.67	28	6	30	15	184		URBN	22.76	8	100	95	3
25		AVGO	250.55	88	18	57	87	65		SHW	340.98	68	47	23	64	105		MON	118.27	48	35	32	46	145		SBUX	54.67	28	51	13	27	185		GE	23.96	7	7	7	9
26		FEYE	17.33	88	99	85	63	66		FAS	51.66	67	22	64	97	106		GILD	82.36	47	92	97	32	146		SFLY	48.31	27	66	30	19	186		SHLD	7.65	7	2	85	3
27		IIF	35.88	87	61	55	67	67		MNST	56.18	67	63	75	50	107		MLNX	46.85	47	75	67	52	147		TARO	106.17	27	76	20	13	187		FAZ	15.77	6	24	12	2
28		MCHP	89.62	87	77	73	91	68		IBB	331.82	66	80	80	49	108		DECK	63.80	46	21	16	36	148		JWN	46.75	26	66	26	13	188		RDY	33.78	6	89	6	6
29		ABBV	87.02	86	99	93	84	69		QQQ	146.10	66	38	56	65	109		OSIS	84.27	46	55	78	78	149		CRAY	19.55	25	17	63	11	189		BWLD	107.13	5	12	3	5
30		VMW	110.25	86	94	94	92	70		MXIM	47.00	65	59	39	60	110		PG	93.46	45	38	50	34	150		TJX	73.74	25	69	40	24	190		X	25.12	5	73	94	94
31		BIDU	235.00	85	65	98	68	71		XLK	58.74	65	37	59	64	111		XLI	69.39	45	39	36	61	151		DAL	48.28	24	10	15	74	191		AKAM	47.34	4	46	21	17
32		SYMC	33.24	85	96	89	78	72		ALXN	146.69	64	87	97	45	112		GM	38.88	44	88	81	66	152		FARO	36.35	24	84	37	42	192		IMAX	22.05	4	97	9	7
33		AAPL	160.08	84	19	78	84	73		MSFT	75.31	64	51	66	75	113		SPY	249.32	44	36	45	52	153		CVX	114.86	23	71	57	50	193		APA	42.55	3	47	8	6
34		JAZZ	151.48	84	54	35	56	74		CELG	142.45	63	83	88	77	114		KO	46.31	43	28	40	39	154		JNPR	27.80	23	34	22	60	194		MSTR	126.81	3	15	2	8
35		IDXX	158.97	83	50	27	88	75		HON	138.95	63	37	46	61	115		LLY	82.44	43	34	33	33	155		GWPH	108.23	22	72	74	30	195		JCP	4.21	2	93	7	2
36		VRSN	104.39	83	74	79	81	76		LMT	302.30	62	17	66	69	116		BIIB	321.26	42	91	96	35	156		UBNT	54.95	22	1	81	31	196		M	22.62	2	91	27	4
37		MA	141.84	82	81	88	86	77		YUM	75.81	62	15	48	57	117		MRK	66.15	42	74	53	35	157		GS	225.19	21	19	38	79	197		FOSL	8.70	1	84	19	1
38		SSYS	24.13	82	85	14	39	78		ATHN	128.94	61	3	11	34	118		PEP	114.77	41	9	25	38	158		WHR	171.86	21	21	10	32	198		TEVA	18.12	1	32	1	1
39		CHKP	113.00	81	68	45	91	79		LVS	63.25	61	46	24	37	119		TWTR	18.00	41	93	69	25	159		DIS	98.65	20	11	17	36	199		AAL	46.00				
40		CEM	94.66	81	64	73	71	80		WMT	78.15	60	24	63	41	120		BAC	24.39	40	25	51	93	160		XRT	41.17	20	78	46	18	200		9/15/17 5:53 PM					

Disclaimer: Educational purposes only. Not an advice. Omitts: Tech Stocks.

Relative Strength Ranks (Alpha)

	S...	PlotS... Sym	Last	suri.RS.RSR YTD	1M	3M	1YR		S...	PlotS... Sym	Last	suri.RS.RSR YTD	1M	3M	1YR		S...	PlotS... Sym	Last	suri.RS.RSR YTD	1M	3M	1YR		S...	PlotS... Sym	Last	suri.RS.RSR YTD	1M	3M	1YR		S...	PlotS... Sym	Last	suri.RS.RSR YTD	1M	3M	1YR
1		AAL	46.00					41		CSCO	32.44	38	36	44	31	81		ICE	65.38	58	22	37	53	121		MXIM	47.00	65	59	39	60	161		TGT	59.95	10	90	84	12
2		AAPL	160.03	84	19	78	84	42		CTRP	52.42	77	41	28	58	82		IDXX	158.97	83	50	27	88	122		NFLX	182.55	89	85	90	97	162		TJX	73.73	25	69	40	24
3		ABBV	87.02	86	99	93	84	43		CTSH	71.82	73	29	67	77	83		IFN	28.20	80	53	49	42	123		NKE	53.85	34	4	56	23	163		TRIP	43.92	19	83	87	5
4		ADBE	153.81	91	48	77	93	44		CTXS	76.22	37	42	21	48	84		IIF	35.88	87	61	55	67	124		NOC	267.03	51	14	47	68	164		TSCO	63.15	11	98	82	15
5		ADSK	114.13	92	62	71	96	45		CVX	114.86	23	71	57	50	85		ILMN	210.72	96	87	92	59	125		NTAP	41.00	55	13	68	55	165		TSLA	380.07	98	67	43	98
6		AKAM	47.34	4	46	21	17	46		CYBR	41.68	16	52	8	10	86		IMAX	22.05	4	97	9	7	126		NTES	271.30	69	13	13	47	166		TSM	37.65	75	55	53	73
7		ALNY	76.05	99	7	32	29	47		DAL	48.24	24	10	15	74	87		INCY	119.15	58	5	34	90	127		NVDA	180.37	99	82	90	100	167		TWTR	18.00	41	93	69	25
8		ALXN	146.69	64	87	97	45	48		DATA	75.67	97	77	91	82	88		INFY	14.67	28	6	30	15	128		NXPI	112.84	56	28	48	76	168		TXN	84.84	55	57	60	63
9		AMAT	47.20	91	81	72	94	49		DDD	13.71	29	90	1	11	89		INTC	36.98	32	50	54	28	129		OIL	5.26	13	73	73	23	169		UAL	59.79	10	2	4	51
10		AMBA	46.43	15	3	20	4	50		DECK	63.80	46	21	16	36	90		IP	56.23	36	70	29	54	130		OLED	132.05	100	96	80	100	170		UBNT	54.95	22	1	81	31
11		AMGN	187.47	69	89	86	38	51		DIA	222.59	48	35	52	62	91		ISRG	1,038.20	96	70	82	92	131		ORCL	48.72	71	27	70	58	171		ULTA	224.64	14	6	3	21
12		AMTD	45.25	33	61	74	81	52		DIS	98.51	20	11	17	36	92		JAZZ	151.48	84	54	35	56	132		OSIS	84.27	46	55	78	78	172		ULTI	187.38	31	12	9	14
13		AMZN	987.05	77	31	31	72	53		EQIX	455.31	72	40	61	67	93		JBL	30.72	75	60	68	83	133		PANW	143.21	49	88	71	22	173		UPS	117.90	33	53	61	40
14		APA	42.55	3	47	8	6	54		ESRX	62.65	16	40	29	12	94		JCP	4.21	2	93	7	2	134		PCLN	1,843.20	70	20	42	69	174		URBN	22.76	8	100	95	3
15		ATHN	128.94	61	3	11	34	55		EXPE	142.13	71	9	23	70	95		JNJ	134.21	57	33	31	46	135		PEP	114.77	41	9	25	38	175		UTHR	120.79	12	5	16	25
16		AVGO	250.55	88	18	57	87	56		F	11.61	18	79	49	20	96		JNPR	27.80	23	34	22	60	136		PFE	35.38	39	75	64	30	176		V	105.70	79	48	75	73
17		AXP	86.62	56	30	62	82	57		FARO	36.35	24	84	37	42	97		JPM	91.60	35	18	59	83	137		PG	93.46	45	38	50	34	177		VMW	110.25	86	94	94	92
18		BA	249.02	95	63	96	98	58		FAS	51.66	67	22	64	97	98		JWN	46.85	26	66	26	13	138		PM	115.90	72	20	19	53	178		VRSN	104.39	83	74	79	81
19		BAC	24.39	40	25	51	93	59		FAZ	15.77	6	24	12	2	99		KLAC	98.64	68	86	35	85	139		QCOM	52.19	8	10	14	10	179		VZ	47.85	15	16	44	17
20		BBRY	9.28	80	69	10	72	60		FB	171.54	90	31	83	79	100		KO	46.31	43	28	40	39	140		QQQ	146.10	66	38	56	65	180		WAGE	58.00	9	27	6	19
21		BIDU	235.00	85	65	98	68	61		FCX	13.90	31	23	91	85	101		KORS	43.75	34	44	98	20	141		RDY	33.78	6	89	6	6	181		WBA	82.50	29	42	54	28
22		BIIB	321.26	42	91	96	35	62		FDX	214.83	54	49	41	80	102		LLY	82.44	43	34	33	33	142		REGN	433.45	53	4	18	37	182		WBMD	66.48	79	29	83	70
23		BMY	62.52	35	82	86	44	63		FEYE	17.33	88	99	85	63	103		LMT	302.30	62	17	66	69	143		RHT	107.30	93	80	92	88	183		WDAY	105.04	94	52	62	56
24		BUD	120.86	57	54	58	22	64		FFIV	116.22	9	14	12	24	104		LOGM	111.20	53	8	43	62	144		RL	90.87	30	79	95	14	184		WDC	88.55	74	72	38	96
25		BWLD	107.13	5	12	3	5	65		FOSL	8.70	1	84	19	1	105		LULU	60.60	17	43	84	16	145		SAP	109.71	73	58	50	65	185		WHR	171.86	21	21	10	32
26		C	69.13	52	41	69	89	66		FSLR	50.45	93	49	99	87	106		LVS	63.24	61	46	24	37	146		SBUX	54.35	28	51	13	27	186		WMT	80.37	60	24	63	41
27		CAT	121.30	76	78	79	90	67		FXI	44.35	70	71	76	54	107		M	22.63	2	91	27	4	147		SFLY	48.31	27	66	30	19	187		WYNN	143.20	97	68	60	75
28		CAVM	66.55	37	86	34	55	68		GD	197.99	50	23	24	74	108		MA	141.84	82	81	88	86	148		SHLD	7.65	7	2	85	3	188		X	25.12	5	73	94	94
29		CBS	58.23	17	1	18	43	69		GE	23.96	7	7	7	9	109		MCD	156.90	78	25	47	80	149		SHW	340.98	68	47	23	64	189		XHB	38.77	50	39	33	44
30		CELG	142.45	63	83	88	77	70		GILD	82.26	47	92	97	32	110		MCHP	89.62	87	77	73	91	150		SINA	116.30	100	98	99	95	190		XLE	65.82	13	58	28	21
31		CERN	71.48	89	92	70	47	71		GLD	125.37	51	60	55	27	111		MELI	282.71	98	97	65	95	151		SODA	58.59	92	33	77	99	191		XLF	24.80	36	16	41	71
32		CHKP	113.00	81	68	45	91	72		GM	38.88	44	88	81	66	112		MLNX	46.85	47	75	67	52	152		SOHU	55.81	95	45	93	66	192		XLI	69.39	45	39	36	61
33		CME	131.29	54	64	51	59	73		GOOG	920.29	59	26	25	57	113		MNST	56.18	67	63	75	50	153		SPLK	67.22	74	94	89	45	193		XLK	58.74	65	37	59	64
34		CMG	313.05	11	11	2	8	74		GPRO	11.51	78	95	100	9	114		MO	62.38	18	8	5	26	154		SPY	249.32	44	36	45	52	194		XLU	54.75	49	32	36	41
35		COH	41.34	59	43	11	51	75		GRMN	52.48	39	45	42	40	115		MON	118.27	48	35	32	46	155		SSYS	24.13	82	85	14	39	195		XLV	82.59	60	65	58	48
36		COST	162.11	38	56	22	43	76		GS	225.19	21	19	38	79	116		MRK	66.15	42	74	53	35	156		STX	33.57	12	62	5	16	196		XONE	9.98	30	100	4	7
37		CRAY	19.55	25	17	63	11	77		GWPH	108.23	22	72	74	30	117		MS	46.60	40	30	52	89	157		SWKS	109.55	90	57	65	86	197		XRT	41.17	20	78	46	18
38		CREE	24.59	19	56	39	29	78		HON	138.95	63	37	46	61	118		MSFT	75.31	64	51	66	75	158		SYMC	33.24	85	96	89	78	198		YELP	43.56	52	67	100	49
39		CRM	94.66	81	64	72	71	79		IBB	331.82	66	80	80	49	119		MSTR	126.81	3	15	2	8	159		TARO	106.17	27	76	20	13	199		YUM	75.24	62	15	48	57
40		CRUS	57.85	32	59	15	33	80		IBM	144.80	11	44	17	18	120		MU	34.63	94	95	87	99	160		TEVA	18.12	1	32	1	1	200		9/15/17 5:54 PM					

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Bullish/Bearish List

	S...	PlotSym... Sym	Last	suri.Bull... Direc.		S...	PlotSym... Sym	Last	suri.Bull... Direc.
1		CBS	58.23	BEAR	38		JAZZ	151.48	BULL
2		COH	41.34	BEAR	39		JNJ	134.21	BULL
3		DIS	98.52	BEAR	40		KORS	43.75	BULL
4		INFY	14.67	BEAR	41		LLY	82.44	BULL
5		MO	62.38	BEAR	42		LVS	63.24	BULL
6		NKE	53.85	BEAR	43		MA	141.84	BULL
7		NTES	271.30	BEAR	44		MCHP	89.62	BULL
8		UAL	59.79	BEAR	45		MELI	282.71	BULL
9		ULTI	187.38	BEAR	46		MSFT	75.31	BULL
10		UTHR	120.79	BEAR	47		MU	34.63	BULL
11		X	25.12	BEAR	48		NFLX	182.55	BULL
12		ALXN	146.69	BULL	49		NVDA	180.37	BULL
13		AMAT	47.20	BULL	50		OLED	132.05	BULL
14		AMGN	187.47	BULL	51		PANW	143.21	BULL
15		AMTD	45.25	BULL	52		PFE	35.38	BULL
16		AXP	86.62	BULL	53		PG	93.46	BULL
17		BA	249.02	BULL	54		QQQ	146.04	BULL
18		BIIB	321.26	BULL	55		RL	90.87	BULL
19		BMY	62.52	BULL	56		SAP	109.71	BULL
20		BUD	120.86	BULL	57		SINA	116.30	BULL
21		C	69.13	BULL	58		SOHU	55.81	BULL
22		CAT	121.30	BULL	59		SPLK	67.22	BULL
23		CELG	142.45	BULL	60		SPY	249.32	BULL
24		CERN	71.48	BULL	61		SSYS	24.13	BULL
25		CHKP	113.00	BULL	62		SWKS	109.55	BULL
26		CME	131.29	BULL	63		SYMC	33.24	BULL
27		CSCO	32.44	BULL	64		TGT	59.95	BULL
28		CVX	114.86	BULL	65		TSLA	380.07	BULL
29		DATA	75.67	BULL	66		TWTR	18.00	BULL
30		DIA	222.59	BULL	67		UPS	117.90	BULL
31		FDX	214.83	BULL	68		V	105.70	BULL
32		GM	38.89	BULL	69		VMW	110.25	BULL
33		GPRO	11.51	BULL	70		VRSN	104.39	BULL
34		IBB	331.82	BULL	71		WMT	80.37	BULL
35		IIF	35.88	BULL	72		WYNN	143.20	BULL
36		ILMN	210.72	BULL	73		XHB	38.77	BULL
37		INTC	36.98	BULL	74		XLV	82.59	BULL

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52 Week Highs and Lows

	S..	PlotSymbol Sym	Last	52 Wk High	52 Wk L...		S..	PlotSymbol Sym	Last	52 Wk High	52 Wk L...		S..	PlotSymbol Sym	Last	52 Wk High	52 Wk L...		S..	PlotSymbol Sym	Last	52 Wk High	52 Wk ...
1		AAL	46.00	54.48	33.90	42		DATA	75.67	76.27	41.41	83		KLAC	98.64	109.59	68.43	124		SBUX	54.80	64.87	50.84
2		AAPL	160.05	164.94	104.08	43		DDD	13.71	23.70	12.02	84		KO	46.31	46.98	39.88	125		SHW	340.98	362.57	239.48
3		ADBE	153.81	157.89	98.00	44		DECK	63.80	72.72	44.00	85		KORS	43.75	52.67	32.38	126		SINA	116.30	118.85	55.79
4		ADSK	114.13	119.73	66.36	45		DIA	222.59	222.43	178.64	86		LLY	82.44	86.72	64.18	127		SODA	58.59	63.25	23.77
5		AKAM	47.34	71.64	44.65	46		DIS	98.52	116.10	90.32	87		LMT	302.30	308.48	228.50	128		SOHU	55.81	58.98	32.60
6		ALNY	76.05	89.45	31.38	47		ESRX	62.65	77.50	57.80	88		LOGM	111.20	123.95	85.22	129		SPLK	67.22	69.23	50.64
7		ALXN	146.69	149.34	96.18	48		EXPE	142.13	161.00	105.62	89		LULU	60.60	72.70	47.26	130		SPY	249.32	250.32	208.38
8		AMAT	47.20	47.86	27.56	49		F	11.61	13.27	10.47	90		LVS	63.24	66.22	51.35	131		SSYS	24.13	30.88	16.37
9		AMBA	46.43	74.95	40.06	50		FAS	51.66	54.24	27.42	91		M	22.63	45.41	19.32	132		STX	33.57	50.96	30.60
10		AMD	12.53	15.65	5.97	51		FAZ	15.77	33.49	15.29	92		MA	141.84	143.52	98.59	133		SWKS	109.55	112.11	71.65
11		AMGN	187.47	191.10	133.64	52		FB	171.54	175.49	113.55	93		MCD	156.90	161.72	110.33	134		SYMC	33.24	34.17	22.76
12		AMTD	45.25	47.41	31.95	53		FCX	13.90	17.06	9.24	94		MCHP	89.62	89.73	57.52	135		TARO	106.17	124.52	92.28
13		AMZN	986.70	1,083.31	710.10	54		FDX	214.83	219.99	158.20	95		MELI	282.71	297.95	148.98	136		TGT	59.95	79.33	48.56
14		AVGO	250.55	259.36	160.62	55		FFIV	116.22	149.50	114.45	96		MNST	56.18	57.25	40.64	137		TJX	73.73	80.92	66.65
15		AXP	86.62	87.78	59.50	56		FOSL	8.70	36.87	6.80	97		MO	62.38	77.79	60.01	138		TRIP	43.92	66.13	35.34
16		BA	249.02	246.49	126.34	57		FSLR	50.45	50.21	25.56	98		MON	118.27	118.97	97.35	139		TSCO	63.15	78.25	49.87
17		BAC	24.39	25.80	14.81	58		FXI	44.35	44.57	33.91	99		MRK	66.15	66.80	58.29	140		TSLA	380.07	386.99	178.19
18		BIDU	235.19	239.00	159.54	59		GD	197.99	205.90	148.76	100		MS	46.60	48.90	30.62	141		TWTR	18.00	25.25	14.12
19		BIIB	321.26	330.00	244.28	60		GE	23.96	32.38	23.58	101		MSFT	75.31	75.49	56.31	142		TXN	84.84	84.65	66.80
20		BMY	62.52	63.47	46.01	61		GILD	82.26	86.27	63.76	102		MSTR	126.81	207.28	123.36	143		UAL	59.79	83.04	49.28
21		BUD	120.86	136.08	98.28	62		GLD	125.37	128.32	107.00	103		MU	34.65	34.85	16.17	144		ULTA	224.64	314.86	204.01
22		BWLD	107.13	175.10	95.00	63		GM	38.89	39.18	30.21	104		MXIM	47.00	49.70	37.25	145		ULTI	187.38	233.42	180.29
23		C	69.13	69.86	45.16	64		GOOG	920.29	988.25	123.45	105		NFLX	182.55	191.50	93.26	146		UPS	117.90	120.44	102.12
24		CAT	121.30	121.39	80.33	65		GPRO	11.51	17.68	7.14	106		NKE	53.85	60.53	49.01	147		UTHR	120.79	169.89	110.90
25		CBS	58.23	70.10	48.88	66		GRMN	52.48	55.74	46.80	107		NOC	267.03	274.61	210.60	148		V	105.70	106.83	75.17
26		CELG	142.45	142.64	96.93	67		GS	225.19	255.15	157.77	108		NTAP	41.00	45.24	30.36	149		VMW	110.25	111.61	72.05
27		CERN	71.48	72.27	47.01	68		GWPH	108.23	137.88	92.65	109		NTES	271.30	337.55	211.11	150		VRSN	104.39	105.00	74.46
28		CHKP	113.00	116.63	74.34	69		IBB	331.82	336.72	246.71	110		NVDA	180.37	174.56	62.12	151		VZ	47.85	54.83	42.80
29		CME	131.29	132.17	98.95	70		IBM	144.80	182.79	139.13	111		OLED	132.05	134.89	47.88	152		WDAY	105.04	111.45	65.79
30		CMG	313.05	499.00	296.00	71		ICE	65.38	67.48	52.27	112		ORCL	48.72	53.14	37.62	153		WDC	88.55	95.77	52.10
31		COH	41.34	48.85	34.07	72		IFN	28.20	28.81	20.39	113		PANW	143.21	165.69	107.31	154		WMT	80.37	81.99	65.28
32		COST	162.11	182.71	135.11	73		IIF	35.88	36.00	23.30	114		PCLN	1,843.20	2,067.99	,422.19	155		WYNN	143.20	147.50	82.51
33		CREE	24.59	31.64	20.50	74		ILMN	210.72	214.34	119.37	115		PEP	114.77	119.39	98.50	156		X	25.12	41.83	15.72
34		CRM	94.66	98.22	66.43	75		IMAX	22.05	35.30	17.58	116		PFE	35.38	35.84	29.83	157		XHB	38.77	39.50	30.92
35		CSCO	32.44	34.60	29.12	76		INFY	14.67	16.71	13.42	117		PG	93.46	94.19	81.18	158		XLE	65.82	78.45	61.80
36		CTRP	52.42	60.65	39.71	77		INTC	36.98	38.45	33.23	118		QCOM	52.19	71.62	48.92	159		XLF	24.80	25.59	18.94
37		CTSH	71.82	73.00	45.44	78		IWM	142.61	144.25	114.88	119		QQQ	146.04	146.59	67.33	160		XLI	69.39	69.57	56.27
38		CTXS	76.22	87.99	64.79	79		JAZZ	151.48	163.75	95.80	120		RDY	33.78	50.10	29.83	161		XLK	58.74	59.10	45.80
39		CVX	114.86	119.00	97.53	80		JNJ	134.21	137.08	109.32	121		RHT	107.00	108.13	68.54	162		XLU	54.75	55.90	45.33
40		CYBR	41.68	56.25	39.34	81		JNPR	27.80	30.96	22.40	122		RL	90.87	114.00	66.06	163		XLV	82.59	83.41	65.96
41		DAL	48.24	55.75	36.59	82		JPM	91.60	95.22	65.11	123		SAP	109.71	110.32	80.93	164		XONE	9.98	16.15	6.72

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D%, W%, M%, YTD%

	ml	PlotSy... Sym	Last	suri.Chg% 1D%	W%	M%	YTD%		ml	PlotSy... Sym	Last	suri.Chg% 1D%	W%	M%	YTD%		ml	PlotSy... Sym	Last	suri.Chg% 1D%	W%	M%	YTD%		ml	PlotSy... Sym	Last	suri.Chg% 1D%	W%	M%	YTD%
1		GPRO	11.51	2.52	12.28	16.60	30.61	42		XRT	41.17	0.32	2.79	6.76	-7.10	83		XLI	69.39	-0.04	1.64	1.42	10.48	124		NKE	53.85	0.26	3.20	-8.01	3.62
2		SYMC	33.24	0.87	5.09	17.00	38.85	43		GRMN	52.48	0.32	0.42	2.10	8.14	84		CAT	121.30	0.73	3.01	6.79	29.12	125		AXP	86.62	0.92	3.25	0.23	15.89
3		FAZ	15.77	-1.08	(7.02)	-0.57	-25.33	44		CELG	142.45	1.01	1.10	8.12	21.92	85		M	22.63	2.57	5.91	11.29	-37.50	126		AKAM	47.34	1.56	2.91	2.16	-29.63
4		TRIP	43.92	2.19	(2.51)	8.04	-6.03	45		WYNN	143.20	-0.61	(0.84)	5.01	64.24	86		TARO	106.17	0.52	1.16	6.17	0.79	127		CREE	24.59	1.38	3.10	3.41	-7.66
5		BMY	62.52	-0.34	(0.22)	7.97	6.29	46		MRK	66.15	0.06	2.94	5.86	11.85	87		MU	34.65	0.20	6.78	16.75	57.00	128		MXIM	47.00	0.43	2.46	3.68	21.45
6		XONE	9.98	-0.10	17.83	30.80	5.50	47		WMT	80.37	0.87	1.90	-0.48	16.09	88		SPY	249.32	-0.36	1.06	1.09	10.73	129		FFIV	116.22	-0.25	0.92	-1.64	-19.93
7		SINA	116.30	-0.94	4.65	20.24	106.19	48		ADSK	114.13	-1.17	(0.27)	3.94	52.97	89		NOC	267.03	0.50	(0.16)	-1.52	14.07	130		CSCO	32.44	0.77	3.05	1.09	6.82
8		LLY	82.44	-0.76	(0.58)	0.89	11.50	49		STX	33.57	2.68	4.88	3.93	-12.77	90		IBB	331.82	-0.07	(0.68)	7.28	24.11	131		IMAX	22.05	4.76	15.75	18.87	-30.33
9		TWTR	18.00	-1.11	3.21	12.92	10.42	50		UPS	117.90	0.44	2.48	3.26	2.06	91		COST	162.11	-0.04	3.17	3.45	5.63	132		SBUX	54.80	0.26	2.21	2.86	-2.22
10		MELI	282.71	-1.84	8.74	19.76	77.91	51		OLED	132.05	0.08	3.45	18.17	130.05	92		VRSN	104.39	0.96	1.05	5.90	36.48	133		XLF	24.80	-0.12	2.78	-1.28	4.91
11		JAZZ	151.48	0.50	(0.53)	3.31	37.71	52		SOHU	55.81	0.54	2.93	2.09	61.35	93		FB	171.54	0.40	0.40	0.37	47.93	134		BWLD	107.13	2.64	8.87	-2.39	-31.22
12		MA	141.84	0.08	3.18	7.60	35.60	53		V	105.70	-0.74	0.83	2.60	33.70	94		BA	249.02	1.51	4.28	4.11	59.31	135		AAPL	160.05	1.00	0.79	-1.06	38.07
13		AMBA	46.43	2.09	6.88	-9.72	-14.79	54		CRM	94.66	-0.71	(1.87)	4.33	36.57	95		PCLN	843.20	-0.11	0.25	-0.95	24.80	136		TSLA	380.07	0.57	10.60	4.82	76.66
14		SAP	109.71	0.49	1.33	3.64	27.23	55		MNST	56.18	-0.71	(0.25)	4.02	25.82	96		PEP	114.77	0.57	(0.17)	-3.46	9.44	137		AVGO	250.55	1.44	2.64	-1.24	40.53
15		GWPH	108.23	1.01	0.60	5.64	-3.49	56		PFE	35.38	-1.05	3.70	5.93	8.13	97		DIA	222.59	0.06	1.93	1.04	11.83	138		C	69.13	-0.29	4.34	1.57	13.78
16		BUD	120.86	-0.73	(0.52)	3.27	15.35	57		LVS	63.24	-1.33	0.21	2.25	17.96	98		WDAY	105.04	-0.49	(2.65)	3.08	57.36	139		JPM	91.60	0.71	3.62	-1.20	4.90
17		ULTA	224.64	0.33	(1.02)	-5.47	-12.31	58		CTSH	71.82	0.11	1.01	0.21	26.78	99		SWKS	109.55	2.25	4.69	3.54	45.64	140		COH	41.34	-0.56	2.40	1.87	18.83
18		ORCL	48.72	-8.31	(5.51)	-0.18	26.76	59		ICE	65.38	-1.22	0.06	-0.73	14.90	100		IWM	142.61	0.41	2.29	3.65	4.34	141		SODA	58.59	-0.31	0.58	0.84	48.30
19		TGT	59.95	0.82	4.70	10.32	-17.48	60		PG	93.46	-0.30	0.46	1.16	11.19	101		GM	38.89	0.23	5.08	9.40	11.15	142		WDC	88.55	3.08	1.75	5.61	28.38
20		CVX	114.86	0.16	3.48	5.58	-3.17	61		KLAC	98.64	1.20	4.55	8.37	24.91	102		AMTD	45.25	0.99	5.33	3.83	2.56	143		AAL	46.00	-0.41	5.50	-5.19	-2.71
21		CTRP	52.42	-1.09	1.67	1.65	28.18	62		INTC	36.98	1.41	5.14	2.78	1.07	103		FXI	44.35	0.74	1.26	5.37	26.32	144		VZ	47.85	1.42	3.80	-1.28	-11.30
22		YELP	43.56	1.51	(0.41)	4.84	13.17	63		SHW	340.98	-1.63	(1.04)	2.53	25.95	104		GD	197.99	0.32	0.20	-0.61	13.69	145		RDY	33.78	-3.67	1.26	9.78	-25.25
23		BIIB	321.26	-0.75	(1.55)	11.58	12.40	64		DATA	75.67	-0.28	2.98	6.71	80.12	105		IBM	144.80	-0.50	1.66	1.94	-13.28	146		JNPR	27.80	0.86	4.43	0.98	-2.39
24		RL	90.87	0.06	0.09	6.96	-0.44	65		LMT	302.30	0.32	(0.20)	-1.27	20.34	106		GOOG	920.29	-0.52	(0.67)	-0.21	18.01	147		GS	225.19	-0.72	3.69	-1.04	-7.20
25		XLV	82.59	-0.69	0.06	4.37	18.78	66		ADBE	153.81	-0.30	(0.55)	2.75	49.37	107		QQQ	146.03	0.34	1.28	1.41	22.42	148		NVDA	180.37	5.95	10.03	7.86	72.52
26		GILD	82.26	0.08	(3.22)	12.64	13.85	67		MON	118.27	0.57	0.72	1.07	12.17	108		AMZN	986.70	-0.55	2.16	0.41	30.20	149		CTXS	76.22	-0.54	1.44	1.69	6.05
27		CHKP	113.00	0.21	0.33	4.86	33.36	68		CYBR	41.68	0.58	0.39	3.24	-9.35	109		XLK	58.74	0.05	1.22	1.10	20.69	150		DIS	98.52	0.63	1.49	-2.95	-6.44
28		CERN	71.48	-0.64	3.07	12.67	49.85	69		F	11.61	0.52	2.29	7.20	-4.75	110		VMW	110.25	-0.45	3.91	15.70	40.75	151		ULTI	187.38	-1.26	(1.85)	-2.87	2.53
29		GLD	125.37	-0.50	(1.91)	3.76	14.51	70		MSFT	75.31	0.72	1.80	2.85	19.94	111		TXN	84.84	1.83	4.25	3.53	15.38	152		EXPE	142.13	-0.88	0.51	-3.35	24.63
30		CME	131.29	-0.63	2.54	4.26	13.03	71		IIF	35.88	0.06	2.43	3.91	40.54	112		MCHP	89.62	0.42	3.52	6.32	38.92	153		QCOM	52.19	1.36	5.14	-3.12	-20.76
31		TSCO	63.15	1.04	4.73	20.10	-17.87	72		TJX	73.73	0.72	1.86	5.10	-2.41	113		DECK	63.80	2.10	(1.27)	-0.87	13.34	154		MS	46.60	0.39	5.89	0.37	8.15
32		XLE	65.82	-1.08	2.24	3.67	-13.49	73		JNJ	134.21	0.20	2.65	0.80	16.13	114		BIDU	235.19	-0.90	2.61	4.38	41.27	155		BAC	24.39	0.57	6.51	-0.37	7.88
33		XHB	38.77	-0.31	(0.21)	1.44	14.13	74		SSYS	24.13	1.33	5.99	8.28	42.54	115		KORS	43.75	1.11	6.57	2.02	5.00	156		GE	23.91	-1.38	0.46	-4.81	-24.44
34		ILMN	210.72	-0.15	0.50	8.66	63.13	75		NTAP	41.00	0.93	6.21	-2.24	15.77	116		AMAT	47.20	0.19	6.29	7.43	45.67	157		FAS	51.66	0.66	6.96	-0.69	23.00
35		ESRX	62.65	0.49	(0.40)	1.49	-9.74	76		MCD	156.90	-0.05	(1.75)	-0.44	28.77	117		PANW	143.21	0.66	(0.40)	9.15	13.98	158		FCX	13.90	0.14	(2.53)	-0.64	2.89
36		NTES	271.30	0.95	(0.72)	-1.81	23.56	77		X	25.12	-2.07	(6.94)	5.82	-25.64	118		FSLR	50.45	4.00	7.55	2.77	54.71	159		LOGM	111.20	-0.31	1.09	-4.26	14.52
37		KO	46.31	0.15	(0.26)	-0.02	11.28	78		DAL	48.24	-0.04	1.69	-3.35	-2.27	119		IFN	28.20	0.35	2.25	3.26	31.78	160		FOSL	8.70	2.76	8.75	8.21	-66.63
38		AMGN	187.47	-1.05	3.78	10.25	26.79	79		MSTR	126.81	-2.59	(1.12)	-1.46	-36.13	120		ALXN	146.69	1.42	3.90	8.49	19.08	161		CMG	313.05	0.80	4.35	-3.00	-17.41
39		LULU	60.60	-0.86	(2.79)	1.85	-8.10	80		DDD	13.71	0.15	7.03	10.92	0.59	121		MO	62.38	0.18	0.26	-4.46	-7.90	162		UAL	59.79	-2.42	2.43	-10.69	-19.21
40		XLU	54.75	-0.62	(1.10)	0.74	12.89	81		RHT	107.00	-0.41	0.17	7.31	53.02	122		INFY	14.67	0.68	0.83	-5.42	-0.88	163		AMD	12.53	2.08	2.20	-3.84	9.63
41		NFLX	182.55	-0.15	3.36	8.22	45.93	82		SPLK	67.22	-1.09	0.06	15.38	29.69	123		FDX	214.83	0.14	2.07	2.76	15.15	164		CBS	58.23	0.14	(2.00)	-12.70	-10.98

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Algorithmic Trading

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Current Algorithms

Trading ABC Patterns

by Suri Duddella

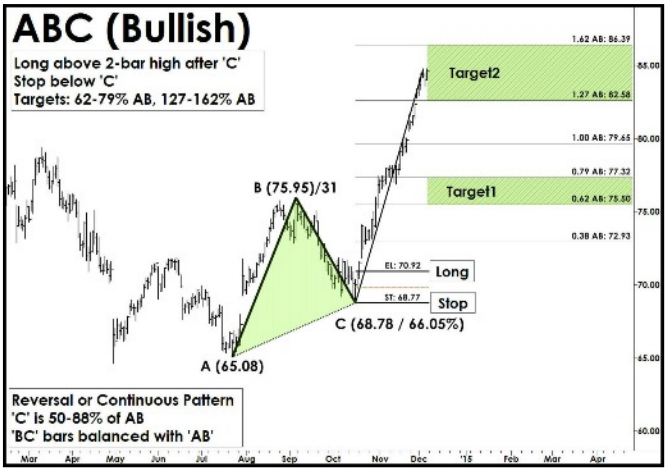
Markets demonstrate repetitive patterns where prices oscillate between one set of price ratios to another making price projections possible. Market trends can be defined by geometric relationships as they exhibit harmonic relationships between the price and time swings. Many investors/traders use “cycles” and “harmonic” relationships to project future swing price/times. These harmonic price movements produce symmetric rallies and declines to give traders an advantage to determine the key turning points. “Symmetry” is visible in all markets and in all time-frames.

The ABC Chart pattern and its related AB=CD Chart Pattern are prime examples of "Symmetry" in the markets. These "Harmonic" patterns help traders to identify buying and selling opportunities in all markets and in all time-frames. The ABC and AB=CD patterns are first described by H.M. Gartley in his book "Profits in the Stock Market." (1935). The main advantages of trading harmonic patterns are that they allow traders to determine risk vs. reward ratios beforehand as they forecast key market turning points and profit targets for traders. In this article, I will describe how to trade 'ABC' chart patterns. The ABC pattern (can be a continuous or reversal pattern) and it is shaped like a lightning bolt.

Identification

The key point in identifying an ABC and AB=CD patterns is to correctly detect the A, B, and C key inflection (Pivot) points in a chart while they are forming. These inflection points are determined from key swing highs and lows of various levels, and for its correction waves to determine distinct "swings." The potential C point is usually forecasted by the fib. retracements (0.38 to 0.618) of AB Swing. Once A, B, and C points (and AB, BC legs) are identified, a projection algorithm is applied to compute the Potential Completion Zone (PCZ). This PCZ area is where ABC pattern is expected to complete and may signal continuation of its trend in the first trend direction (AB). Following the completion of BC leg, the projections of AB and BC legs (using fib. ratios) are plotted (from C) to generate targets. The ABC pattern is traded in the trend direction of AB from C to D.

The following charts show both ABC Bullish and ABC Bearish formations with its trade information in TradeStation software.



Conditions:

The swing legs (AB and BC) in ABC pattern are generally in symmetrical proportions both in price and time with consistent slopes. The tradable CD leg has a harmonic relation with symmetry for AB and BC swings. The ABC bullish structures are formed after a prolong prior down trend or consolidation trends,

Conditions

The swing legs (AB and BC) in ABC pattern are generally in symmetrical proportions both in price and time with consistent slopes. The tradable CD leg has a harmonic relation with symmetry for AB and BC swings. The ABC bullish structures are formed after a prolong prior down trend or consolidation trends, whereas bearish ABC patterns are formed after a prior uptrend.

Pattern Detection

A Pattern Completion Zone (PCZ) is computed using AB swing and Fibonacci ratios (50-88.6% of AB). This PCZ area is where 'C' pivot is formed at the end of BC swing and to signal completion of ABC pattern.

Trade Entry:

After ABC pattern is completed, it is advisable to wait for the pattern to confirm a reversal signal using any momentum based indicator or price confirmation mechanisms. I use various confirmation and trade entry methods, but one of the methods is price crossing 2-bar high after 'C' in ABC Bullish pattern or a 2-bar low after 'C' in ABC bearish pattern.

Stop:

A Stop is placed few ticks below C (in Bullish) or few ticks above C (in Bearish) levels.

Targets:

The ABC Pattern targets are computed using the AB and BC swings. The height pattern (AB) is used to project target levels from C-level using fib. ratios. The first target zone is (62-79% AB) from 'C' and second target zone is (127-162% AB). A secondary target level is set at 100% AB Level at 152.21.

Key Ideas to Remember:

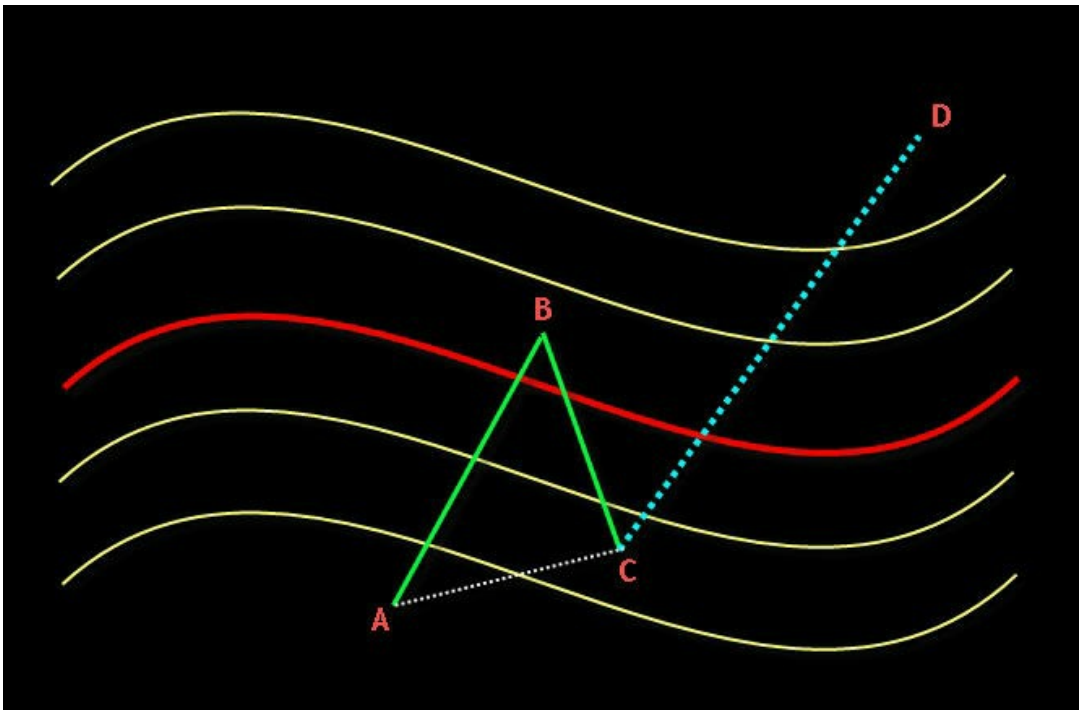
The Fibonacci relationships help and give ideas an approximate area (PCZ) where the pattern may complete. Precise ratio levels for reversals or targets in patterns are very rare and a tolerance ratio of +/- 2% is added for the fib. ratios. Pattern confluences with other patterns, support/resistance areas, MAs and other market context elements must be used to identify and validate the pattern structure.

Example:

- The following chart shows the auto-generated ABC bullish pattern formation in current 20 Year Treasury Bond ETF TLT (weekly) chart from 2012 to 2016. Here are some of the key points and how it is traded.

- TLT was in downtrend from 2012 to late 2013.
- From the beginning of 2014 to beginning of 2015, TLT reversed its prior trend and formed AB Leg (A at 101.17 and B at 138.50).
- During 2015, TLT started to decline to 63.4% of AB leg and formed BC leg.
- After completion of 'BC' leg (7/24/2015), a reversal above 2-Bar high signals a long entry at EL: 119.19.
- A Stop is placed below 'C' at 114.88 (-4.32).
- The first Target Zone is set at 137.95-144.22 and second target zone is set at 162.29-175.35
- In July 2016, TLT reached its first target zone (137-144). Bearish pattern.

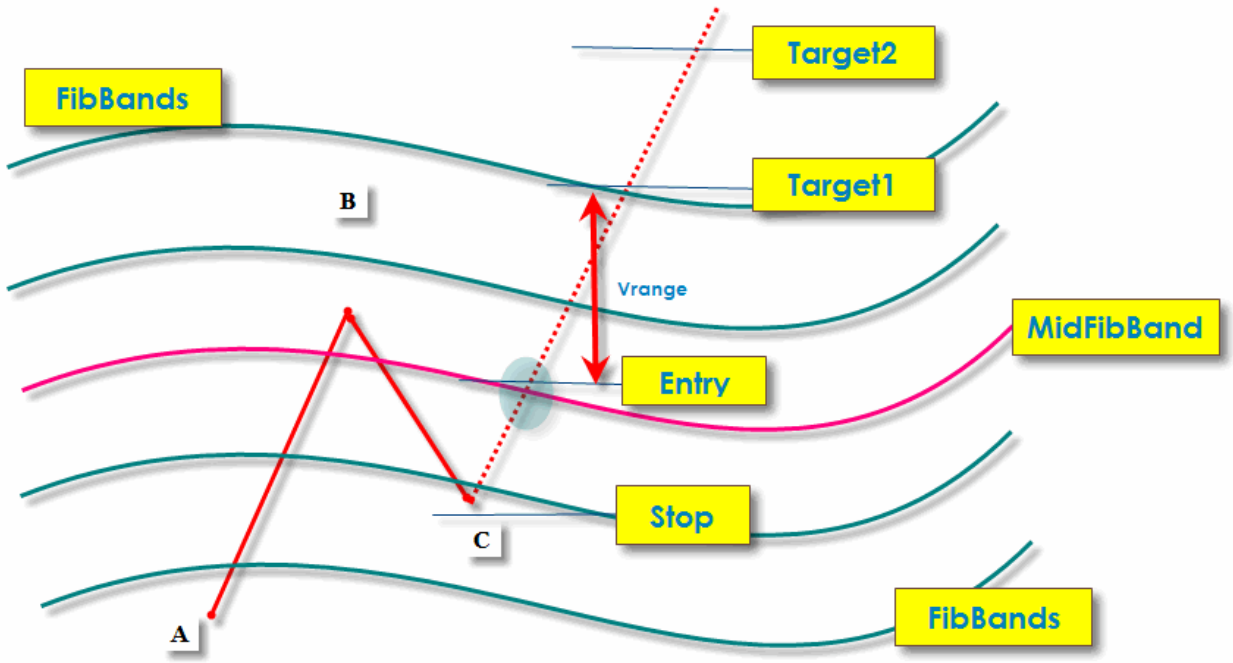
Perfect ABC Patterns



Perfect ABC Setups

One of my favorite patterns is called trading 'Perfect ABC pattern'. ABCs occur in all time-frames and all-instruments.

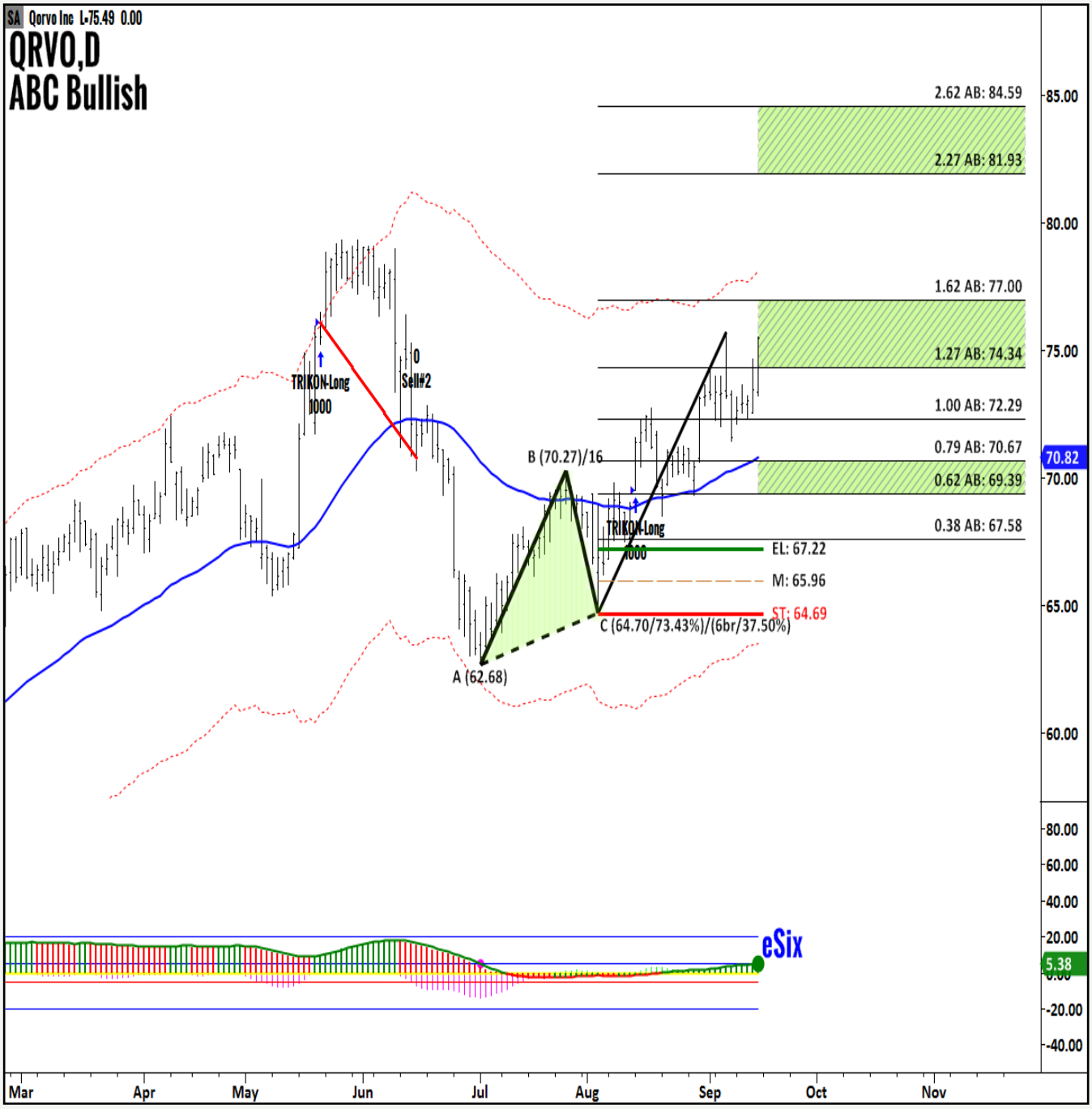
A Perfect ABC setup is explained here. Using Fib. Grid structure on trading charts along with ABC and other pattern detection methods. A Perfect ABC (Bullish) occurs when price is in sell off mode and makes 'A' pivot below the lower Fib. Band, 'B' above or near the Mid-Fib.Band, and 'C' below the Mid-Fib Band with at least 50% retracement. When this perfect 'ABC ' is detected, I will start watching the price-action from 'C' levels to show the reversal. I also plot Entry and Stop levels from 'C'. When price closes above the 'EntryLevel' (or Mid-Fib Band, in case very close), that is my long entry in to my trade. I place stops below the 'C' level to protect my trade. Once I entered Long trade, my typical targets are near 100 to 127% of AB levels. Depending on the size of ABC, multiple targets are used to exit the trade.



SPLK Perfect ABC Pattern

SPLK (Daily) is in Perfect ABC Pattern. A long trade was entered above $60 with target zones: $61.80-63, $67-69.

QRVO Perfect ABC Bullish Pattern



QRVO (Daily) is in Perfect ABC Bullish Pattern.

TSCO Perfect ABC Pattern

TSCO Perfect ABC Bullish pattern. TSCO also has a tradable Inverse Head & Shoulders pattern (see in Chart Patterns - Stocks).

Typical Intraday @ES.D Trade

A typical Intraday Perfect ABC trade is presented here. BC retracement is 56%. Entry level is 2422.25 with a Stop at 2419.75. First Target is 62-79% (2428-2330.75), Second Target zone is (2437-2442).

AMZN ABC & Perfect ABC Trades

GS (Weekly) ABC/Perfect ABC Trades

TradeStation Strategy Performance Report - GS Weekly (5/7/1999-9/22/2017)

Account (USD) | ALL Data

TradeStation Performance Summary Collapse

All Trades

Total Net Profit	$112,190.00	Profit Factor	2.34
Gross Profit	$195,940.00	Gross Loss	($83,750.00)
Roll Over Credit	$0.00		
Open Position Profit/Loss	$0.00		
Select Total Net Profit	$112,190.00	Select Profit Factor	2.34
Select Gross Profit	$195,940.00	Select Gross Loss	($83,750.00)
Adjusted Total Net Profit	($1,992.96)	Adjusted Profit Factor	0.98
Adjusted Gross Profit	$115,947.83	Adjusted Gross Loss	($117,940.79)
Total Number of Trades	12	Percent Profitable	50.00%
Winning Trades	6	Losing Trades	6
Even Trades	0		
Avg. Trade Net Profit	$9,349.17	Ratio Avg. Win:Avg. Loss	2.34
Avg. Winning Trade	$32,656.67	Avg. Losing Trade	($13,958.33)
Largest Winning Trade	$49,530.00	Largest Losing Trade	($23,530.00)
Largest Winner as % of Gross Profit	25.28%	Largest Loser as % of Gross Loss	28.10%
Net Profit as % of Largest Loss	476.80%		
Slct. Net Profit as % of Largest Loss	476.80%	Adj. Net Profit as % of Largest Loss	-8.47%
Max. Consecutive Winning Trades	3	Max. Consecutive Losing Trades	4
Avg. Bars in Winning Trades	30.17	Avg. Bars in Losing Trades	15.00
Avg. Bars in Total Trades	22.58		

Performance Summary | Trade Analysis | Trades List | Periodical Returns | Performance Graphs | Trade Graphs | Settings

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Plato Algo. Trade P/L

[redacted]

2	Symbol	Price	Trade Signal	Trading Days	Entry	Curr. STOP	P/L Pts	P/L %
3	AAPL	149.04	07/29/2016	248	104.65	139.38	44.39	42.42
4	ADBE	146.16	01/06/2017	134	108.53	129.65	37.63	34.67
5	ADSK	108.74	12/09/2016	151	83.18	92.73	25.56	30.73
6	AMGN	177.13	06/23/2017	13	175.55	160.87	1.58	0.9
7	AMZN	1001.81	01/13/2017	129	821.75	908.15	180.06	21.91
8	AVGO	250.29	04/21/2017	56	219.22	220.38	31.07	14.17
9	AXP	85.28	06/09/2017	22	80.83	77.83	4.45	5.51
10	BA	208.51	10/21/2016	186	137.05	180.67	71.46	52.14
11	BABA	151.83	01/27/2017	117	104.67	118.81	47.16	45.06
12	BIDU	188.55	05/12/2017	43	188.08	175.59	0.47	0.25
13	C	66.72	08/05/2016	241	45.83	60.15	20.89	45.58
14	CELG	134.57	06/23/2017	12	135.28	119.7	-0.71	-0.52
15	DIA	216.26	09/23/2016	206	184.36	206.73	31.9	17.3
16	EBAY	37.08	01/27/2017	119	32.95	33.06	4.13	12.53
17	FB	159.97	01/13/2017	128	129.37	142.27	30.6	23.65
18	FDX	219.06	06/02/2017	29	204.99	195.18	14.07	6.86
19	GILD	70.57	06/23/2017	11	71.54	66.8	-0.97	-1.36
20	GOOG	955.99	01/06/2017	134	808	874.94	147.99	18.32
21	HD	152.88	07/08/2016	263	134.46	147.67	18.42	13.7
22	JPM	92.25	06/30/2017	7	92.75	84.9	-0.5	-0.54
23	MA	127.01	08/05/2016	242	97.04	115.4	29.97	30.88
24	MS	45.2	06/30/2017	7	45.71	42.17	-0.51	-1.12
25	MSFT	72.78	07/22/2016	253	56.94	66.41	15.84	27.82
26	MRK	63.06	06/02/2017	28	65.68	62.62	-2.62	-3.99
27	NFLX	161.12	12/02/2016	158	121.08	144.3	40.04	33.07
28	NKE	58	06/30/2017	9	59.81	53.21	-1.81	-3.03
29	ORCL	50.56	12/09/2016	154	40.87	44.42	9.69	23.71
30	QQQ	142.12	01/06/2017	131	122.35	133.02	19.77	16.16
31	SBUX	58.76	03/31/2017	73	58.76	58.05	0	0
32	SPY	245.56	11/11/2016	172	218.41	235.87	27.15	12.43
33	TSLA	327.78	12/23/2016	143	213.55	294.42	114.23	53.49
34	UPS	112.41	06/16/2017	16	111.18	106.69	1.23	1.11
35	V	96.93	01/06/2017	133	82.59	90.21	14.34	17.36
36	VRSN	96.92	10/28/2016	184	87.08	88.15	9.84	11.3
37	WMT	76.34	02/24/2017	99	72.9	73.15	3.44	4.72
38	WYNN	130.42	01/27/2017	119	104.15	117.2	26.27	25.22
39	XLK	56.86	11/25/2016	164	48.17	53.33	8.69	18.04
40	CAT	108.77	04/28/2017	51	106.08	98.58	2.69	2.54

Symbols Universe

Symbols Universe

	S..	PlotSymbol		S..	PlotSymbol		S..	PlotSymbol		S..	PlotSymbol		S..	PlotSymbol
1	Equities/ETFs		44		CTSH	87		IMAX	130		OIL	173		ULTA
2		AAL	45		CTXS	88		INCY	131		OLED	174		ULTI
3		AAPL	46		CVX	89		INFY	132		ORCL	175		UPS
4		ABBV	47		CYBR	90		INTC	133		OSIS	176		URBN
5		ADBE	48		DAL	91		IP	134		PANW	177		UTHR
6		ADSK	49		DATA	92		ISRG	135		PCLN	178		V
7		AKAM	50		DDD	93		JAZZ	136		PEP	179		VMW
8		ALNY	51		DECK	94		JBL	137		PFE	180		VRSN
9		ALXN	52		DIA	95		JCP	138		PG	181		VZ
10		AMAT	53		DIS	96		JNJ	139		PM	182		WAGE
11		AMBA	54		EQIX	97		JNPR	140		QCOM	183		WBA
12		AMGN	55		ESRX	98		JPM	141		QQQ	184		WBMD
13		AMTD	56		EXPE	99		JWN	142		QRVO	185		WDAY
14		AMZN	57		F	100		KLAC	143		RDY	186		WDC
15		APA	58		FARO	101		KO	144		REGN	187		WHR
16		ATHN	59		FAS	102		KORS	145		RHT	188		WMT
17		AVGO	60		FAZ	103		LLY	146		RL	189		WYNN
18		AXP	61		FB	104		LMT	147		SAP	190		X
19		BA	62		FCX	105		LOGM	148		SBUX	191		XHB
20		BAC	63		FDX	106		LULU	149		SFLY	192		XLE
21		BBRY	64		FEYE	107		LVS	150		SHLD	193		XLF
22		BIDU	65		FFIV	108		M	151		SHW	194		XLI
23		BIIB	66		FOSL	109		MA	152		SINA	195		XLK
24		BMY	67		FSLR	110		MCD	153		SODA	196		XLU
25		BUD	68		FXI	111		MCHP	154		SOHU	197		XLV
26		BWLD	69		GD	112		MELI	155		SPLK	198		XONE
27		C	70		GE	113		MLNX	156		SPY	199		XRT
28		CAT	71		GILD	114		MNST	157		SSYS	200		YELP
29		CAVM	72		GLD	115		MO	158		STX	201		YUM
30		CBS	73		GM	116		MON	159		SWKS	202	Eminis	
31		CELG	74		GOOG	117		MRK	160		SYMC	203		@ES
32		CERN	75		GPRO	118		MS	161		TARO	204		@GC
33		CHKP	76		GRMN	119		MSFT	162		TEVA	205		@NQ
34		CME	77		GS	120		MSTR	163		TGT	206		@QM
35		CMG	78		GWPH	121		MU	164		TJX	207		@RTY
36		COH	79		HON	122		MXIM	165		TRIP	208		@TF
37		COST	80		IBB	123		NFLX	166		TSCO	209	FX	
38		CRAY	81		IBM	124		NKE	167		TSLA	210		EURUSD
39		CREE	82		ICE	125		NOC	168		TSM	211		GBPUSD
40		CRM	83		IDXX	126		NTAP	169		TWTR	212		NZDUSD
41		CRUS	84		IFN	127		NTES	170		TXN	213		USDCHF
42		CSCO	85		IIF	128		NVDA	171		UAL	214		USDJPY
43		CTRP	86		ILMN	129		NXPI	172		UBNT	215		

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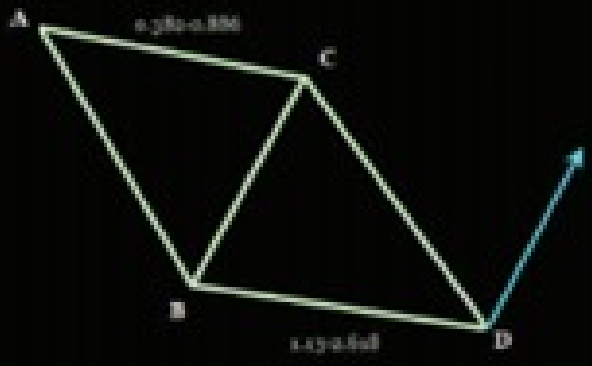
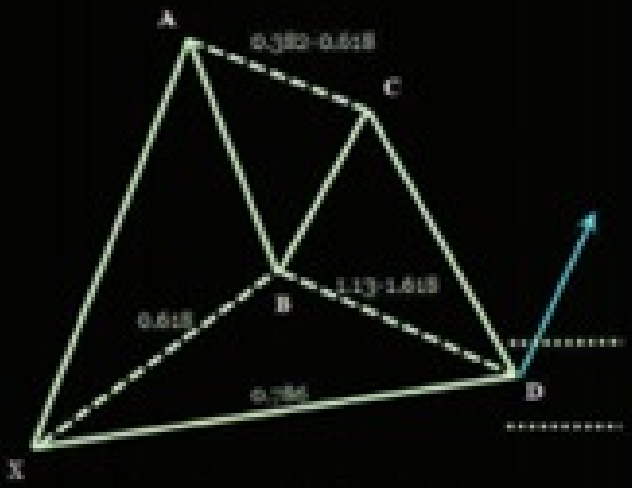
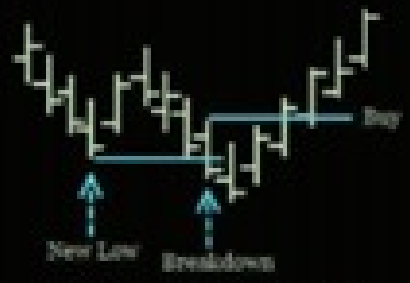
Books/Websites/Software



ABCD (Bullish)



Gartley (Bullish)



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