Options involve risk and are not suitable for all investors. Please read <u>Characteristics and Risks of Standardized Options</u>
before deciding to invest.

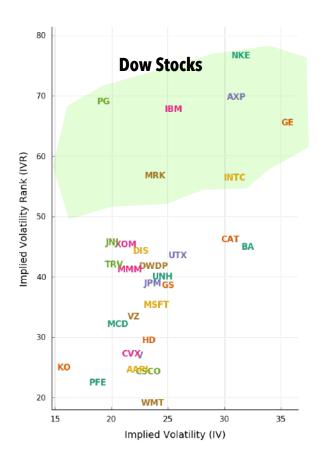
Action is Back in the Markets.

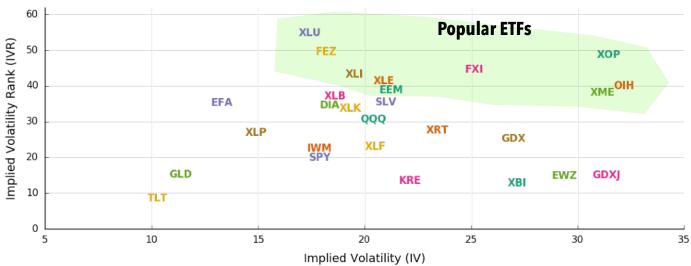
When implied volatility spiked in February – the prior probabilities suggested it would only last a few days. But it has been almost a **1.5 months** and the VIX is still over **15**. This is ideal for sellers of options since the return on the investment tends to be significantly higher than at lower implied volatility numbers.

ETFs With High Relative Volatility

Below we have a visual of implied volatility plotted against implied volatility rank. The higher up on the graphic, the higher the relative volatility; the further on the right, the greater the premium is priced. Everything else equal, we'd like to have ETFs that are in the top right of the graphic.

Michael Rechenthin, PhD Kai Zeng research@tastytrade.com







Market Statistics

1 Month Returns of Futures

/NQ	/NG	/RTY	/ZC	/ZW	/ES	/ZS
10.2%	9.4%	8.0%	7.0%	6.4%	5.5%	4.6%
/CL	/YM	/6J	/6B	/6A	/6E	/SI
3.0%	3.0%	1.5%	0.9%	0.6%	0.5%	0.2%
/GC	/UB	/ZB	/ZT	/ZF	/ZN	/6C
-0.0%	-0.1%	-0.2%	-0.4%	-0.4%	-0.4%	-1.8%

1 Month Returns of Dow Stocks

INTC	CSCO	AAPL	MSFT	GS	PFE
16.5%	13.1%	12.2%	8.8%	8.0%	6.1%
IBM	JPM	MMM	V	UTX	CVX
6.0%	5.7%	5.1%	5.1%	3.8%	3.3%
TRV	AXP	JNJ	CAT	NKE	DIS
3.1%	3.0%	3.0%	2.4%	2.1%	1.8%
KO	BA	DWDP	MRK	UNH	XOM
1.7%	0.4%	0.1%	-0.0%	-0.8%	-1.3%
PG	VZ	HD	GE	MCD	WMT
-1.6%	-1.8%	-2.2%	-2.3%	-2.5%	-11.0%

1 Month Returns of Popular ETFs

QQQ	XLK	XBI	IWM	KRE	EEM	EWZ	XLF	FXI
10.0%	9.9%	9.5%	8.0%	7.4%	6.3%	6.1%	5.8%	5.7%
XOP	SPY	XME	XLI	OIH	XLB	DIA	EFA	FEZ
5.5%	5.4%	5.2%	3.6%	3.5%	3.2%	2.8%	2.1%	1.9%
XLU	XRT	XLE	GDXJ	XLP	TLT	SLV	GLD	GDX
1.8%	1.6%	1.4%	0.9%	0.8%	0.4%	0.4%	0.3%	-0.9%

1 Month Returns of Utilities

NRG	SCG	PCG	AWK	FE	AES	NEE
22.1%	9.6%	8.3%	5.7%	5.0%	4.9%	4.1%
ETR	SRE	CNP	LNT	AEP	EXC	CMS
4.0%	3.6%	3.0%	2.8%	2.1%	2.0%	0.9%
DUK	NI	PNW	PEG	EIX	XEL	WEC
0.6%	0.6%	0.5%	0.4%	0.4%	0.2%	0.1%
DTE	ES	AEE	ED	SO	D	PPL
0.0%	-0.4%	-1.2%	-1.6%	-1.6%	-2.7%	-8.2%

1 Month Returns of tastytrade Watchlist

CMG	X	BIDU	HPQ	NFLX	TSLA	FCX	AAPL	AMZN	BABA	GOOG
22.6%	22.5%	15.6%	14.9%	14.0%	13.2%	11.2%	10.0%	9.8%	9.4%	8.7%
USO	UAL	FXI	EWZ	CAT	QQQ	GS	MSFT	ASHR	COST	PCLN
8.2%	8.0%	7.8%	7.7%	7.5%	7.3%	7.1%	7.1%	7.1%	6.5%	6.5%
EEM	ORCL	DIS	BA	CSX	XLF	XLI	FB	XOP	IBM	SPY
6.4%	6.3%	6.2%	5.7%	5.7%	5.3%	5.0%	4.8%	4.7%	4.7%	4.7%
RUT	IWM	DIA	XLV	C	TWTR	EBAY	UNG	XLB	XOM	SBUX
4.6%	4.6%	4.4%	4.3%	3.9%	3.9%	3.6%	3.3%	3.3%	3.2%	3.2%
XRT	OIH	XLU	GDXJ	HD	IYR	GILD	XLE	RIG	XHB	GDX
3.1%	2.7%	2.6%	2.5%	2.4%	2.2%	2.1%	2.1%	1.7%	1.4%	1.0%
GLD	SLV	TBT	FXE	TLT	GG	GM	P	VXX	UVXY	VIX
0.9%	0.7%	0.5%	0.2%	-0.2%	-0.4%	-1.1%	-3.2%	-19.2%	-36.2%	-38.3%



Upcoming Earnings

Upcoming Earnings

Symbol	Description	Expected Report Date	Time of Day	Weekly Options	In Dow?	In S&P 500?	In Russell 2000?	In tastytrade Watchlist?
DDD	3D Systems	Wed Mar-14	After Close	Yes	-	-	Yes	-
AVGO	Broadcom Limiteds	Thu Mar-15	After Close	Yes	-	Yes	-	-
ADBE	Adobe Systems	Thu Mar-15	After Close	Yes	-	Yes	-	-
TIF	Tiffany & Co.	Fri Mar-16	Before Open	Yes	-	Yes	-	-
ORCL	Oracle	Mon Mar-19	After Close	Yes	-	Yes	-	Yes
FDX	FedEx	Tue Mar-20	After Close	Yes	-	Yes	-	-
КВН	KB Home	Thu Mar-22	After Close	-	-	-	Yes	-
NKE	Nike	Thu Mar-22	After Close	Yes	Yes	Yes	-	-
MU	Micron Technology	Thu Mar-22	After Close	Yes	-	Yes	-	-

Historical Earnings Moves for Select Stocks

It is often nice to examine historical moves in stocks around earnings. At the very least, it provides some context.

		Н	istorical Pri	ce Move Fro	om Immed	iately Befor	e Earnings t	o that Frida	y's Expiratio	n	
	4th Q	3rd Q	2nd Q	1st Q	4th Q	3rd Q	2nd Q	1st Q	4th Q	3rd Q	2nd Q
	2017	2017	2017	2017	2016	2016	2016	2016	2015	2015	2015
ADBE	1%	-5%	3%	4%	-1%	7%	-8%	4%	3%	1%	0%
AVGO	-2%	-4%	8%	1%	5%	-2%	5%	6%	12%	10%	4%
DDD	-27%	-21%	2%	-14%	-5%	21%	-9%	0%	-2%	15%	-8%
FDX	3%	2%	3%	-2%	-3%	7%	-8%	13%	-1%	-6%	-3%
KBH	8%	9%	5%	2%	-2%	5%	2%	6%	-15%	0%	9%
MU	0%	15%	-5%	7%	13%	-1%	-9%	5%	-1%	8%	-18%
NKE	-2%	-3%	11%	-3%	0%	-5%	5%	-5%	-4%	9%	4%
ORCL	-4%	-8%	10%	6%	-4%	-5%	3%	7%	-7%	-5%	-7%
TIF	3%	-1%	-7%	3%	4%	7%	-2%	3%	4%	-2%	10%



Upcoming Dividends

Stocks and ETFs with an upcoming dividend.

In the money short call options are the only options at risk of additional early assignment due to the dividend. If the extrinsic value of the in the money short call is less than the dividend, the option is at (a greater than average) risk of being assigned.

Symbol	Description	Ex-Dividend Date	Dividend Per Share	In Dow?	In S&P 500?	In Russell 2000?	In tastytrade Watchlist?
GG	Goldcorp	Wed, Mar 14	0.02	-	-	-	Yes
М	Macy's Inc	Wed, Mar 14	0.377	-	Yes	-	-
DPZ	Domino's Pizza Inc	Wed, Mar 14	0.55	-	-	-	-
КО	Coca-Cola	Wed, Mar 14	0.39	Yes	Yes	-	-
MRK	Merck & (new)	Wed, Mar 14	0.48	Yes	Yes	-	-
GILD	Gilead Sciences	Thu, Mar 15	0.57	-	Yes	-	Yes
BBBY	Bed Bath & Beyond	Thu, Mar 15	0.15	-	Yes	-	-
BBY	Best Buy Co.	Wed, Mar 21	0.45	-	Yes	-	-
LVS	Las Vegas Sands Corp.	Wed, Mar 21	0.75	-	-	-	-

Note: SPY, DIA, MDY, XLB, XLI, XLK, XLV, XLP, XLY, XLE, XLF, XLU, XBI, XHB, XME, XOP, KRE, XRT, SDY all have dividends on Friday, March 16



Shows From the Research Team The Past Few Days:

Date	Segment	Title	Link
Mon, Mar 12	Market Measures	Diversification Options in High IV Rank	<u>LINK</u>
Mon, Mar 12	Best Practices	The Speed of Delta	<u>LINK</u>
Fri, Mar 09	Market Measures	Trade Defense: Exit or Do Nothing?	<u>LINK</u>
Fri, Mar 09	Resize & Analyze	Week of March 5th	<u>LINK</u>
Fri, Mar 09	Closing the Gap - Futures Edition	Soybeans & Corn: It's Planting Time	<u>LINK</u>
Thu, Mar 08	Market Measures	IV Rank and Stock Movement	<u>LINK</u>
Thu, Mar 08	Options Jive	Adjusting Probabilities by Rolling	<u>LINK</u>
Thu, Mar 08	Trades From the Research Team LIVE	Trades From the Research Team LIVE	<u>LINK</u>
Wed, Mar 07	Market Measures	Market Premium: Historical & Current	<u>LINK</u>
Wed, Mar 07	Options Jive	Is There a Trade? Week of March 5th	<u>LINK</u>
Wed, Mar 07	tasty BITES	How Can Iron Condors Make Money?	<u>LINK</u>
Tue, Mar 06	Market Measures	Managing Winners Varying Durations	<u>LINK</u>
Tue, Mar 06	Options Jive	Market Corrections	<u>LINK</u>
Tue, Mar 06	Best Practices	Delta Review	<u>LINK</u>
Mon, Mar 05	Market Measures	GDP Growth Compared to the Market	<u>LINK</u>
Mon, Mar 05	The Skinny on Options: Abstract Applications	The Central Limit Theorem	<u>LINK</u>
Mon, Mar 05	tasty Extras	A Special Announcement	<u>LINK</u>
Fri, Mar 02	Market Measures	Overstated Implied Volatility in Stocks	<u>LINK</u>
Fri, Mar 02	Closing the Gap - Futures Edition	Currencies & Commodities on the Move	<u>LINK</u>
Thu, Mar 01	tasty Extras	Using the tastyworks Web Platform	<u>LINK</u>
Thu, Mar 01	Market Measures	Is Delta Neutral Worth It?	<u>LINK</u>
Thu, Mar 01	Options Jive	A Tale of Two Volatilities	<u>LINK</u>
Thu, Mar 01	Trades From the Research Team LIVE	Trades From the Research Team LIVE	<u>LINK</u>
Wed, Feb 28	Market Measures	Short Calls: Fading the Highs	<u>LINK</u>
Wed, Feb 28	Options Jive	Is There a Trade? Week of Feb 25th	<u>LINK</u>
Wed, Feb 28	Options Jive	What's Tom Trading?	<u>LINK</u>
Tue, Feb 27	Market Measures	Managing Earlier - Volatility	<u>LINK</u>
Tue, Feb 27	The Skinny on Options: Abstract Applications	The Origin of Beta	<u>LINK</u>
Tue, Feb 27	tasty BITES	Target 45	<u>LINK</u>
Mon, Feb 26	Market Measures	Doubling Down on Jade Lizards	LINK
Mon, Feb 26	Options Jive	Understanding the Lizards	LINK
Mon, Feb 26	Best Practices	Skew and the Lizards	LINK

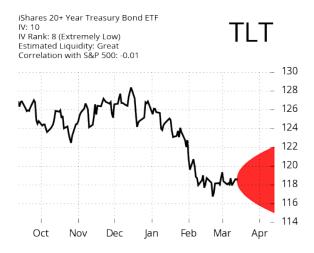


Current Market Outlook

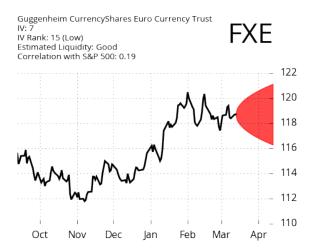


30-Day Expected Range Plots – The colored cone represents a 30-day expected theoretical price range that is calculated from the options' implied volatilities. In theory, we expect that prices will stay, with a 68% probability, within the boundary of the cone.

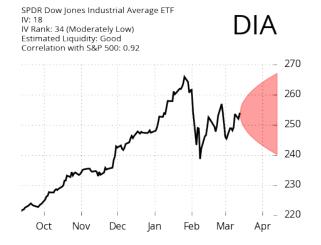










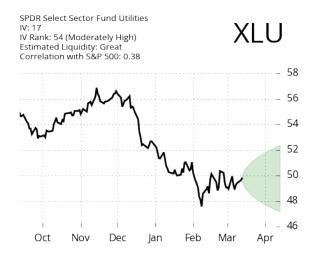


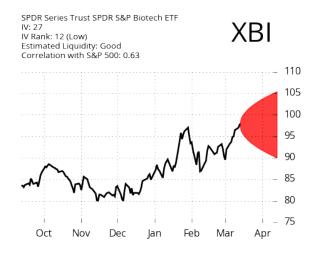


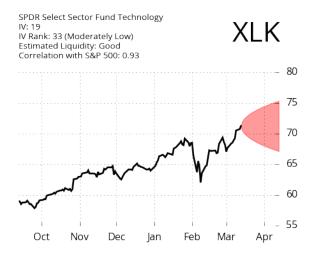
Current ETF Watchlist

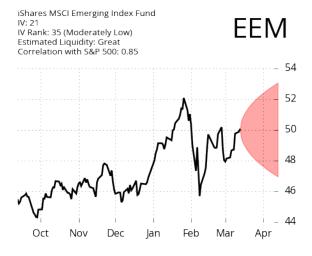


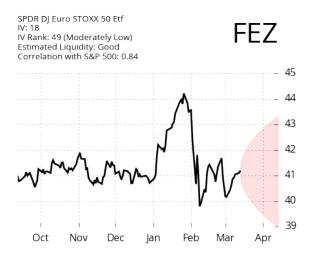
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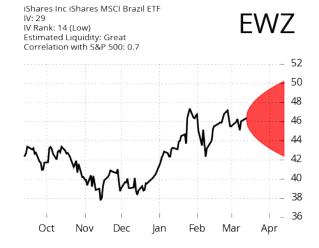










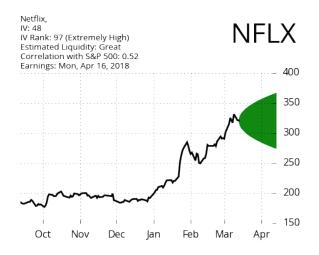


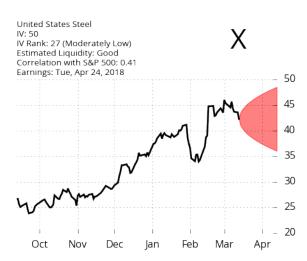


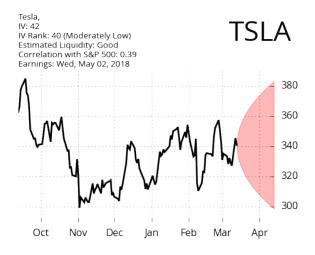
Current Stock Watchlist

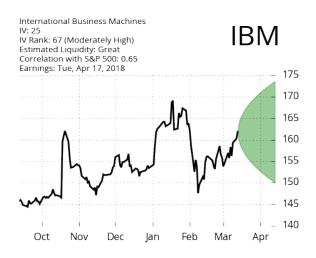
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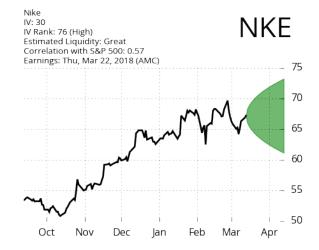












Reading this Report

Expected Range Cone. The colored cone represents a 30-day expected theoretical price range that is calculated from the options' implied volatilities. If the implied volatility is relatively high, then the market is expecting a larger price change in the underlying stock or ETF. From this we can derive the market's 1 standard deviation theoretical expectation of where prices might be in the future. In other words, the market is expecting, with a 68% theoretical probability, that prices will fall within the boundary of the cone at the end of 30 days.

Cone Color. The color of the cone is significant. The darker the color, the more "extreme" the implied volatility (IV) which is represented by implied volatility rank (IV Rank). This information can help you decide on a trading strategy.

IV Rank near 100% IV Rank near 0%

Glossary

IV. Implied Volatility is the estimated volatility of a security's price derived from its option price; the higher the IV, the more expensive the option and therefore the larger the expected price move. IV is an annualized number of volatility, e.g. a IV of 27 means the option's market is pricing in an annualized price range, either plus or minus, of 27%.

IV Rank. IV by itself doesn't tell us if if the volatility is high or low - but IV Rank does. An IV Rank of 70 means that the IV is 70% between its low and high IV over the past year. The higher the IV Rank, the higher the security's IV is compared to its past year. We provide six levels to make evaluating easier:

• Extremely High: IV Rank between 90 and 100

• High: IV Rank between 75 and 90

Moderately High: IV Rank between 50 and 75
 Moderately Low: IV Rank between 25 and 50

• Low: IV Rank between 10 and 25

• Extremely Low: IV Rank between 0 and 10

Option Liquidity. At tastytrade we have our own theoretical measure of option liquidity, Poor, Moderate, Good, or Great. It examines the options' bid/ask spread, open interest, and the number of strikes with non-zero bids.

Correlation with S&P 500. Correlation is a statistical measure of how strong a relationship two securities have with one another. A correlation of -1 means the stocks are perfectly negatively correlated (they move in opposite directions), while a correlation of +1 means the stocks are perfectly positively correlated (they move in the same direction). A correlation of 0 means there exist little relationship.

Earnings. The earnings date of the security. In practice we tend to see stocks have a larger amount of implied volatility (IV) nearer to earnings as the market is pricing in the fear of the upcoming earnings announcement. In parenthesis, is BTO or AMC; "Before the Open" or "After Market Closes", respectively. Upcoming earnings dates do sometimes change.

Disclosures

Options involve risk and are not suitable for all investors. Please read Characteristics and Risks of Standardized Options before deciding to invest in options: https://www.theocc.com/components/docs/riskstoc.pdf

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