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Bollinger Bands, a popular tool among investors and traders, helps gauge the volatility of individual securities to determine if they are over- or undervalued. Developed in the 1980s by financial analyst John Bollinger, the bands appear on stock charts as three lines that move with the price. The center line is the stock price's 20-day simple moving average (SMA). The upper and lower bands are set at a certain number of standard deviations, usually two, above and below the middle line. The bands widen when a stock's price becomes more volatile and contract when it is more stable. Many traders see stocks as overbought as their price nears the upper band and oversold as they approach the lower band, signaling an opportune time to trade. While valuable, Bollinger Bands are a secondary indicator that is best used to confirm other analysis methods. Below, we guide you through how to interpret Bollinger Bands, when the tool is best used, and what other indicators are best matched with it. Bollinger Bands is a technical analysis tool to determine where prices are high and low relative to each other. These bands are composed of three lines: a simple moving average (the middle band) and an upper and lower band. The upper and lower bands are typically two standard deviations above or below a 20-period simple moving average (SMA). The bands widen and narrow as the volatility of the underlying asset changes. Image by Sabrina Jiang © Investopedia 2021 John Bollinger, CFA, CMT, has been a major influence in technical analysis and is best known for developing Bollinger Bands in the 1980s. Bollinger combined his background in mathematics and engineering with financial market analysis to create a volatility indicator that could be used to identify potential price reversals and trends. Bollinger Bands are based on the security's price movements. The center line is the intermediate-term trend and is typically a 20-day SMA of the closing prices. The upper and lower bands are plotted a distance from the SMA set by a certain number of standard deviations, usually two, above and below the center line. To calculate the bands, you first determine the number of periods used for both the SMA and standard deviation, and the number of standard deviations for the upper and lower bands should be from the center line. While the settings can be adjusted based on your strategy, most times, you would use a 20-day SMA and two standard deviations. The upper band is found by adding two standard deviations to the center SMA line, while the lower band is calculated by subtracting two standard deviations from the center line. The bands automatically widen when price volatility increases and narrow when volatility goes down. You don't need to break out your calculator and graph paper. Many popular trading platforms, like TradingView, include this technical indicator as a standard feature. Thus, you can easily overlay Bollinger Bands onto price charts. You can also usually customize the Bollinger Bands' settings (increasing or lowering the periods and standard deviations) to fit your needs. Given that the bands are plotted two standard deviations away from the SMA, they can indicate when prices are statistically high or low. Many traders consider the area near the upper band to be overbought territory—the price is poised to fall—and a potential resistance level where sellers may step in. Conversely, the area near the lower band is often seen as oversold—the price is poised to go up—and a potential support level where buyers could enter the market. Option traders and investors use Bollinger Bands to assess market volatility and identify potential entry and exit points. The tool is premised on the idea that prices tend to remain within the bands' upper and lower limits. One use is for trend identification. When the price moves from one band to the other, it indicates a change in volatility. Bollinger Bands can also be used to identify potential price reversals. When the price touches or moves outside the upper band, it could be overbought, suggesting a potential selling or short opportunity. Similarly, if the price touches or falls outside the lower band, the asset may be oversold, indicating a possible buying opportunity. The bands can also help find price targets. For instance, after a price "bounces" off the lower band, the upper band becomes a potential exit point if the price trend reverses. Likewise, after a price move that touches the upper bands, the lower band becomes a possible target if a reversal occurs. Another strategy is called the "Bollinger Bounce." This is based on the idea that prices tend to return to the middle band. Traders may buy or sell based on the rebound from the upper or lower bands toward the middle band, especially in a ranging market. Below is a table of different ways the Bollinger Bands can move, what they indicate, and how traders often use them. We then go through these moves in more detail so you understand the strategies better. Bollinger Bands Cheat Sheet Bollinger Band Action What This Indicates Potential Reaction Upward middle band Indicates an uptrend Buy or hold long positions Downward middle band Suggests a downtrend Sell or hold short positions Narrow bands (squeeze) Less volatility; potential for significant price move Prepare for a breakout; consider entry points Price touching or moving outside the upper band Potentially overbought (poised to fall in price) Consider selling, shorting, or tightening stop-loss orders Price touching or falling outside the lower band Potentially oversold (poised to go up) Buying or tightening stop-loss orders Price touches the upper band The upper band becomes a potential exit point if the trend reverses Consider taking profits or setting up a trailing stop-loss Price touches the lower band The lower band becomes a potential target if the reversal occurs Consider taking profits or setting a trailing stop-loss Price moves from one band to the other Indicates a change in volatility and potential price movement Consider adjusting stop-loss orders and entry points Bollinger Bands can also be used to identify potential price reversals. 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