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Bollinger Bands, a popular tool among investors and traders, helps gauge the volatility of stocks and other 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 is a technical
analysis tool used 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 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
this tool, which uses a moving average and the statistical measure of standard deviation to assess the volatility and trends of stock prices. The tool has since become a staple in technical analysis. He is also the founder of Bollinger Capital Management, a money management company, and has been a prominent commentator and analysis on market
conditions. Investopedia / Joules Garcia The three lines that make up Bollinger Bands are based on a security's price moves. 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 periods used for both the SMA and standard deviation, and the number of standard deviation, and the number of standard deviation, and the number of periods used for both the SMA and standard deviation, and the number of standard deviation, and the number of standard deviation are not standard deviation.
and two standard deviations. The upper band is found by adding two standard deviations from 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 Trading View, 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 onto price charts. You can also usually customize the Bollinger Bands onto price charts. You can also usually customize the Bollinger Bands onto price charts.
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
analysis. The direction of the middle band can indicate a trend's strength: when the middle band is heading upward, this suggests an uptrend, and the converse when heading downward. In addition, the width of the bands reflects market volatility. Narrow bands indicate less volatility, which means a significant price move could be imminent. This is
known as a "squeeze." Conversely, wide bands indicate more volatility. Another way to use the tool is to figure out when an asset is overbought and oversold. As the price touches or falls outside the lower band, it could be overbought and oversold. As the price touches or falls outside the lower band, it could be overbought and oversold.
the asset may be oversold, indicating a possible buying opportunity. The bands can also help find price targets. For instance, 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. Traders may buy or sell based on the rebound from the upper or lower bands toward the middle band. Traders may buy or sell based on the rebound from the upper or lower bands toward the middle band.
indicate, and how traders often react. We then go through these moves in more detail so you understand the strategies better. Bollinger Band Action 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 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 bounces off the lower 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 upper band becomes a potential target if the reversal occurs Consider taking profits or setting a trailing
stop-loss Price rebounds from upper or lower bands toward the middle band Potential buying or selling opportunity, especially in ranging markets ("Bollinger Bounce") Enter long or short positions; set stop-loss orders Price move starting at the upper band and continuing outside it, with increased volume Signals a potential breakout Enter long
positions; set stop-loss orders below recent lows Decisive move below the lower band, with high volume Could mean a breakdown or the start of a new bearish trend Enter short positions; set stop-loss orders above recent highs Widening bands after a squeeze Could indicate an imminent breakout Prepare for entry, watch for confirmation signals
Widening bands Signals increase in volatility and the potential beginning of a strong price trend Adjust risk management; consider entry points; tighten
stop-loss orders Longer squeeze Could indicate a more potent breakout coming Prepare for a larger price move; increase position size Tightening bands Could mean there's no consensus in the market about the future price direction Adjust risk management; wait for clearer signals before entering positions Using two standard deviations in
constructing Bollinger Bands is based on the statistical properties of the normal distribution and the concept of volatility. In this context, standard deviation measures how far prices typically deviate from SMA, the middle band. By setting the upper and lower bands two standard deviations away from the SMA, Bollinger Bands create a range expected
to contain approximately 95% of the security's price movements over a given period. This assumption is based on the statistical rule that about 95% of the data set. Choosing two standard deviations provides a statistically significant measure of volatility while
remaining practical for market analysis. The bands can adapt to changes in volatility, making them suitable for various market conditions. When prices move outside the upper or lower bands, this suggests that the security is trading at a statistically high or low level relative to its recent price history. This indicates potentially overbought or oversold
conditions, respectively. However, prices can remain outside the bands for extended periods during strong trends. By examining the relationship between the price and the upper band, you can look for overbought conditions, check for potential price reversals or a slowdown in momentum, find out when volatility is expanding, set price targets based
on mean reversion strategies, and determine the strength of a trend. When the price touches or pushes through the upper band, this is often read as the security is overbought. This is because the asset is priced higher than its typical valuation range, indicating a potential reversal or slowdown in momentum. When the price reaches or goes above the
upper band, this indicates increased volatility. Since Bollinger Bands adjusts to volatility, a widening gap between the upper and lower bands means that the market is experiencing wider price fluctuations, which could be due to economic and market news, earnings reports, and other market events. For investors using mean reversion strategies, the
upper band can act as a price target in a ranging market. If the price oscillates between the upper and lower bands without a clear trend, hitting the upper band or below. In addition, when there's a strong uptrend, the price might repeatedly touch or
stay above the upper band for extended periods. This persistence above the upper band might indicate strong buyer enthusiasm and signal that the trend is likely to continue. However, traders and investors often look to confirm this with other indicators or techniques. The upper band can also be the site for a breakout. A price move that starts at the
upper band and continues to push outside of it can signal one, especially if there's been an increase in trading volume. This indicates that the asset is starting a new trend or accelerating an existing one. You could use this signal to trade in the direction of the breakout. The lower band of the Bollinger Bands helps identify oversold conditions. It is also
a reference line for those using mean reversion strategies or looking for potential reversals. If prices stay below this band, this could mean the estart of a new bearish trend, especially if there's a lot of trading volume. When the price of an asset touches or falls below the lower band, this could mean the asset is undervalued or that the selling pressure
has gone too far, potentially leading to a reversal or pause in the downward trend. Just as touching the upper band signals an increase in volatility, the price reaching the lower band indicates greater volatility, which
might mean a significant price move as the price consolidates. For investors employing mean reversion strategies or looking for bounce-back opportunities, the lower band, it might rebound toward the middle band or higher, especially in
a ranging market without a strong downtrend. That said, if the price stays below the lower band, this signals a strong downtrend. Continue. However, you should confirm this with other indicators to avoid false signals or traps. A decisive
move below the lower band can signify a breakdown or the start of a new bearish trend, especially if the volume is high and there are other bearish signals. Since further declines could occur, you can use this as a potential signal to sell or enter a short position. When the bands widen, this signals an increase in volatility because the standard deviation
of the price increases. Thus, the price moves are more significant than in the recent past. Economic announcements, geopolitical events, or sudden shifts in market sentiment can be behind these changes. Traders see increased volatility as an opportunity for substantial gains and a risk of greater losses. The widening of the bands
could signal the beginning of a substantial price trend. As volatility increases, the chance of a significant and sustained price move in one direction also increases. However, you should confirm this with other indicators or price patterns before proceeding. When the bands widen after a period of contraction during a "squeeze," many consider this are
sign that a breakout is about to occur. While the bands themselves do not indicate the direction of the breakout, investors can assess the potential direction by comparing the price's movement to the bands and other indicate the direction by comparing the price's movement to the bands and other indicates. The increased volatility signaled by widening Bollinger Bands might prompt investors to reassess their risk management
strategies. They might cut their positions or diversify their holdings to manage the higher risk associated with greater price fluctuations. A contraction of the bands suggests that the market in the short term. This reduced
volatility period can be seen as a time of consolidation. While tightening bands indicate less volatility, market analysts often consider this a precursor to major price moves or breakouts. Traders monitor squeezes closely since they suggest the market is building energy for a significant change. The longer the squeeze, the more potent the subsequent
breakout is expected to be. This is based on the principle that periods of low volatility are frequently followed by periods of high volatility. However, this doesn't mean you'll know where the breakout will head. During a tightening period, traders may adjust their risk management strategies, such as pulling in stop-loss orders to reflect lower volatility.
while preparing for a potential increase ahead. The tightening of Bollinger Bands could also mean there's no consensus among market participants about the future direction of the price oscillating within a tighter range until new information arrives or the market forces a breakout. The effectiveness of this tool
depends on the asset involved, the settings used, and other factors: Asset involved: Each security has different volatility might not have the expected behavior within the bands. Parameters: The default setting for Bollinger
Bands is a 20-period SMA with bands set at two standard deviations away. However, this may not be the best option for all trading scenarios or time frames. Adjusting the settings could improve their effective when used with
different tools and indicators. For instance, volume indicators and momentum oscillators like the relative strength index (RSI) or moving average convergence divergence (MACD) can give the needed context or help confirm signals from the Bollinger Bands. Outlier situations: The bands are based on a statistical measure of standard deviation, which
assumes that asset price returns follow a normal distribution. However, financial markets are known for having fat tails that sometimes lead to unexpected moves beyond the bands. There are several, including the Keltner channels, moving average envelopes, the Donchian channels, the average true range, and the standard deviation indicator. Each
tool offers a different view of the market's changes. First, Bollinger Bands are a lagging indicator, which means they respond to rather than predict price changes after they've already happened. In addition, they can generate false signals during highly volatile market periods when the bands expand. Third, the
standard settings of Bollinger Bands (20-day simple moving average and two standard deviations) might not be the best for all trading scenarios. Finally, Bollinger Bands are often more effective when used with other indicators, such as volume or momentum oscillators. Relying only on Bollinger Bands without further confirmation can lead to poor
trading decisions. You should consider using them with other technical analysis tools to confirm trends and signals. Employing momentum oscillators like the RSI or MACD can help identify whether the market is overbought or oversold as prices reach or break through the bands. In addition, volume indicators can tell you about the strength behind a
move, as significant price changes with a high volume could confirm signals from the Bollinger Bands. You can also adjust the settings of the moving average or the number of standard deviations, which might filter out less significant price moves. Bollinger Bands is a versatile technical analysis tool that
highlighting potential reversals, breakouts, and trend strengths, Bollinger Bands is usually more effective when used with other indicators. Being a volatility indicator, Bollinger Bands reflect the dynamic range of price movement. The greater the
distance between the lines, the higher the volatility. Bollinger Bands can be used as a supportive tool that helps to pinpoint the beginning setup. There is, however, one disadvantage to Bollinger Bands, and it is the amount of space they take
when applied to the price chart. As an indicator that is plotted directly on the price chart, it doesn't go well with other indicators that require a lot of space, e. g. Fractals, Alligator or Moving Averages. Turns out, there is one indicators that require a lot of space, e. g. Fractals, Alligator or Moving Averages. Turns out, there is one indicators that require a lot of space, e. g. Fractals, Alligator or Moving Averages.
Width on the IQ Option platform Bollinger Bands Width (BBW) is a technical analysis tool that is derived from Bollinger Bands. BB Width takes the information that regular Bollinger Bands Width (BBW) is a technical analysis tool that is derived from Bollinger Bands. And here is
how to make it a part of your trading system. Bollinger Band Width works as an oscillator. When the volatility is high, the distance between the bands decreases, the indicator will also go down. Volatility is not
the trend, and on its own high/low volatility doesn't provide buying/selling signals. However, it is an important metric that, along with the trend direction and trading volume, can help you determine optimal entry and exit points. BBW is the difference between the upper and the lower bands Periods of high volatility intermingle with periods of
relatively low volatility. The higher the volatility, the higher the potential upside and also the risk. You can, therefore, determine the riskiness of the deal you are about to enter by using this indicator. Keep this in mind so that you can adjust the risk-return ratio in accordance without a so that you can adjust the risk-return ratio in accordance without a so that you can adjust the risk-return ratio in accordance without a so that you can adjust the risk return ratio in accordance without a so that you can adjust the risk return ratio in accordance without a so that you can adjust the risk return ratio in accordance without a so that you can adjust the risk return ratio in accordance without a so that you can adjust the risk return ratio in accordance without a so that you can adjust the risk return ratio in accordance without a so that you can adjust the risk return ratio in accordance without a so that you can adjust the risk return ratio in accordance without a so that you can adjust the risk return ratio in accordance without a so that you can adjust the risk return ratio in accordance without a so that you can adjust the risk return ratio in accordance without a so that you can adjust the risk return ratio in accordance without a so that you can adjust the risk return ratio in accordance without a so that you can adjust the risk return ratio in accordance without a so that you can adjust the risk return ratio in accordance without a so that you can adjust the risk return ratio in accordance without a so that you can adjust the risk return ratio in accordance without a so that you can adjust the risk return ratio in accordance without a so that you can adjust the risk return ratio in accordance without a so that you can adjust the risk return ratio in accordance without a so that you can adjust the risk return ratio in accordance with a so that you can adjust the risk return ratio in accordance with a so that you can adjust the risk return ratio in accordance with a so that you can adjust the risk re
your trading style. Bollinger Bands Width is good at determining market volatility, and that's it. When it comes to trend direction and other metrics, it is worth using different indicators. Trend-following and volume indicators can become a good addition. Unlike regular Bollinger Bands Width comes as a single line (instead of three direction) and that's it.
separate lines). More than that, it is placed below the price chart in a separate window. It is, therefore, cannot be used as a dynamic support and resistance level, which is commonly the case for BB. One more limitation, that is not unique to Bollinger Bands Width, but is rather a common place for all technical analysis tools is its inability to provide an advantage of the case for BB.
accurate results 100% of the time. As any other indicators, BBW will from time to time send false signals. Setting up the indicators is easy: 1. Click on the 'Other' tab, 3. Find Bollinger Bands Width in the list of available indicators, 4. Click 'Apply' without changing the setting
The indicator is ready to use! Now, when you know how to set up and use Bollinger Bands Width in trading, you can proceed to the platform and give it a try. Find out yourself whether it suits your trading style! How can financial brands set themselves apart through visual storytelling? Our experts explain how.Learn MoreThe Motorsport Images
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Collections captures events from 1895 to today's most recent coverage. Discover The Collection Curated, compelling, and worth your time. Explore our latest gallery of Editors' Picks. Browse Picks. Browse Pi
forces, and earnings data to predict how an asset's price will move. Technical analysis on the other hand, uses charts and various technical indicators to forecast market conditions. One of the essential tools used for technical analysis in securities trading is Bollinger Bands ®. Its primary incentive is to help the trader establish a trend's direction
spot potential reversals, and monitor volatility. The following guide will examine the indicator, what it is and what it measures, how to understand Bollinger Bands on charts and interpret those findings, as well as the pros and cons of using this technical analysis tool. Best Crypto Exchange for Intermediate Traders and Investors Invest in
cryptocurrencies and 3,000+ other assets including stocks and precious metals. 0% commission on stocks - buy in bulk or just a fraction from as little as $10. Other fees apply. For more information, visit etoro.com/trading/fees. Copy top-performing traders in real time, automatically. eToro USA is registered with FINRA for securities trading. 30-
million Users worldwide eToro is a multi-asset investment platform. The value of your investment and you should not expect to be protected if something goes wrong. Take 2 mins to learn more. Bollinger
Bands is a popular technical analysis tool developed in the mid-1980s by American financial analyst and technical trader John Bollinger. Specifically, Bollinger Bands are a type of trading band or envelope. Trading bands and envelopes have the same objective: to supply proximate definitions of high and low that can be utilized to create rigorous
trading approaches, for example, in pattern recognition. The bands contain a volatility indicator that measures a security's relative high or low price compared to previous trades. Volatility indicator that measures and narrow when
there is a price decrease. Due to their dynamic nature, Bollinger Bands may be applied to various trading instruments, such as stocks, commodities, futures, and Forex. Bollinger Bands include three separate trendlines: the upper, middle, and lower band. The middle band is a moving average, and the trader chooses its parameters (most commonly
the 20-day simple moving average is used). The upper and lower bands are positioned above and below the moving average band. The trader can adjust the number of standard deviations determines the distance between the middle, upper and lower bands.
The bands' position provides information on the trend's strength and low price levels that may be anticipated shortly. As Bollinger Bands offer unique insights into price and volatility, traders can find several uses for them, including determining overbought and oversold levels, as a trend-following tool, monitoring for breakouts
and deciding entry and exit points for a trade. Bollinger Bands are a relatively simple trading tool and are incredibly popular with professional as well as at-home traders. However, using only the bands to trade is a risky strategy since the indicator focuses on price and volatility while ignoring various other relevant information. Bollinger bands:
upper, middle (20-period SMA) and lower band. Source: Fidelity.com History of Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinger Bands were developed in the mid-1980s by John Bollinge
rapid acceptance of Bollinger Bands was in part due to the airing they received on the Financial News Network, where John Bollinger served as the chief market analyst from 1983 through 1990. Bollinger served on the Financial News Network, where John Bollinger served as the chief market analyst from 1983 through 1990. Bollinger served as the chief market analyst from 1980 through 1990. Bollinger served as the chief market analyst from 1980 through 1990. Bollinger served as the chief market analyst from 1980 through 1990. Bollinger served as the chief market analyst from 1980 through 1990. Bollinger served as the chief market analyst from 1980 through 1990. Bollinger served as the chief market analyst from 1980 through 1990. Bollinger served as the chief market analyst from 1980 through 1990 through 19
called as Bollinger explained their use, and unprepared, at a loss for words, Bollinger burst out Bollinge
of All Time Bollinger Bands are composed of three lines: The first line is the middle Bollinger Band is a 20-day simple moving average (SMA) of the closing prices for 20 successive days and divide that value by 20; The following line is the upper Bollinger Band.
You calculate the upper Bollinger Band by taking the middle band and adding twice the daily standard deviation to that amount; The final line is the lower Bollinger Band by taking the middle band minus two times the daily standard deviation. The standard deviation measures how spread out numbers are from
an average value for a given data set. Standard deviation is the square root of variance. The variance and appears prominently in economics, statistics, finance, and accounting. The Bollinger
Bands formula is as follows: Middle Band + (2 x Standard Deviation of the price over the same period). Lower band: Middle Band - (2 x Standard Deviation of the price over the same period). This formula creates the three lines
that form the Bollinger Bands, with the upper and lower bands representing volatility levels above and below the moving average. Though Bollinger Bands are based on an asset's simple moving average, which uses past data points, so the bands will always react to
price moves rather than predict them. Simply, Bollinger Bands are reactive, not predictive, and are often referred to as a lagging indicator. Bollinger Bands can also be inclined to provide false signals. For example, a false breakout happens when an asset's price passes through the trade entry point. It signals a trade but then moves back in the other
direction, resulting in a losing trade. Traders should understand that standard settings will not suit all strategies when trading with Bollinger Bands. For example, long-term position traders may use a lower number of periods and a higher standard deviation. In contrast, day traders may use a lower number of periods and swing traders may prefer to use a more significant number of periods and a higher standard deviation. In contrast, day traders may use a lower number of periods and a higher standard deviation.
periods and lower standard deviation. For this reason, the Bollinger Bands indicator is best utilized in conjunction with other indicators and technical analysis tools as part of a comprehensive trading strategy. Best Crypto Exchange for Intermediate Traders and Investors Invest in cryptocurrencies and 3,000+ other assets including stocks and
 precious metals. 0% commission on stocks - buy in bulk or just a fraction from as little as $10. Other fees apply. For more information, visit etoro.com/trading/fees. Copy top-performing traders in real time, automatically. eToro USA is registered with FINRA for securities trading. 30+ million Users worldwide eToro is a multi-asset investment platform
 The value of your investments may go up or down. Your capital is at risk. Don't invest unless you're prepared to lose all the money you invest. This is a high-risk investment and you should not expect to be protected if something goes wrong. Take 2 mins to learn more. The following strategies are the primary uses of Bollinger Bands: A common
strategy utilizing Bollinger Bands is identifying overbought or oversold market conditions. For example, when the security's price continually touches the upper Bollinger Band, the market is perhaps oversold, triggering a buy
signal. Using the bands to indicate overbought/oversold conditions depends on the concept of mean reversion of the price. Mean reversion assumes that if the price varies considerably from the mean or average, it eventually reverts to its long-term average levels. Mean reversion trading attempts to capitalize on a security's extreme price changes,
assuming it will regress to its previous state. Mean reversion strategies can work well in range-bound markets, as prices can be seen noticeably bounce between the two bands. However, Bollinger Bands don't always give accurate buy and sell signals. For example, during a strong trend, the trader is at risk for placing trades on the wrong side of the
move since the indicator can suggest overbought or oversold signals too soon. To fix this, a trader can look at the overall direction of the price and then only take short positions when the upper band is tagged when the trend is down. If preferred, the lower band can still be used as
an exit, but a new long position is not opened because that would mean going against the trend. Identifying overbought and oversold markets. Source: economictimes.indiatimes.com Another popular strategy to use with Bollinger Bands is called a squeeze strategy. A squeeze occurs when volatility falls to low levels, and the price starts moving
sideways in a tight consolidation, narrowing the Bollinger Bands. A trader can visually identify a squeeze when the upper and lower bands get closer together, constricting the moving average. A squeeze when the upper and lower bands get closer together, constricting the moving average. A squeeze when the upper and lower bands get closer together, constricting the moving average.
Conversely, the further away the bands move from each other, the more likely the chance of a decline in volatility and the more significant the possibility of exiting a trade. If there is a positive divergence: when the indicators are heading upward while the price is heading down or stays neutral - it is a bullish sign. On the other hand, if there is a
negative divergence: when the indicators are falling while the price moves higher - it is a bearish sign. A breakout to the downside signals traders to open short positions or exit long positions. A stop-loss order is traditionally placed outside the
consolidation on the opposite side of the breakout. Importantly, however, these conditions should not be taken as trading signals. The bands give no signs of when the change may take place or in which direction the price might move. According to Bollinger, it is necessary to look to other indicators to determine breakout direction. He suggests using
the relative strength index (RSI) along with one or two volume-based indicators such as the intraday intensity index or the accumulation/distribution index. The squeeze and breakout to the upside. Source: Investopedia.com Bollinger Bands help determine how strongly a security is rising (uptrend) and when it's potentially losing strength or reversing
This data can then be used as guidance in making trading decisions. The following are the recommendations for the use of Bollinger Bands in an uptrend; it will reach the upper band regularly, indicating that the stock is plunging higher, and traders can take advantage of the opportunity to make a buy decision. If the
price fails to do that, it shows the uptrend may be losing momentum; Prices can drop for periods of time, even during an uptrend but stays above the moving average (middle) line and moves back to the upper band, that implies a lot of strength; The price shouldn't touch the lower
band when it's in a strong uptrend. If it does, that's a possible indication of a reversal or that the stock is losing strength. Most technical traders pursue to benefit from solid uptrends before a reversal occurs. If an asset fails to reach a new peak, traders tend to sell it to avoid incurring losses from a reversed trend. They track the behavior of an
uptrend, whether it shows strength or weakness, and use this as a sign of a likely trend reversal. Bollinger Bands also help determine how strongly a security is falling (downtrend) and when it's potentially strengthening or reversing (to the upside). This data can then be used as guidance in making trading decisions. For example, the following are the
recommendations for the use of Bollinger Bands in a downtrend: If the price is in a strong downtrend, it touches or moves along the lower the upper band regularly, indicating that the stock is plummeting, and traders can exploit the opportunity to sell. If the price fails to do that, it shows the downtrend may be losing momentum; Prices can rally for
periods of time, even during a downtrend. These are known as pullbacks. When there are price pullbacks (highs), and the price stays below the moving average (middle) line and then moves down to the lower band, that implies selling strength; The price shouldn't touch the upper band when it's in a strong downtrend. If it does, that's a possible
 indication that a trend is slowing or reversing. Many technical traders avoid trading during downtrends, except for looking for opportunities to months or even years. Traders should attempt to recognize any sign of downtrends sufficiently early to
protect their investments. If the lower bands show a steady downtrend, investors must be mindful to avoid entering into long trades that will prove unprofitable. Double tops and double bottoms are essential technical analysis patterns used by traders. A double top has an M shape and signals a bearish price movement. A double bottom has a W shape
and indicates a bullish reversal in trend. An M-top is a sell signal. It happens when price action spikes the upper line then recovers down, established, and this time it is below the upper band. The second high must not be higher than the first one, and the second high mustn't touch or spikes the upper line then recovers down, established, and this time it is below the upper band. The second high must not be higher than the first one, and the second high mustn't touch or spikes the upper band.
the upper band. Bearish reversal. Source: Stockcharts.com A W-bottom is a buy signal. It happens when price action spikes the lower line and then recovers, established, and the second low mustn't
touch or spike the lower band. This bullish trading setup is confirmed when the price action moves and closes above the middle line (SMA). Price will likely rise to a new high. Source: Stockcharts.com As with most other technical analysis tools, Bollinger Bands, too, come with its own set of unique advantages and disadvantages. Therefore, it's crucial
to understand where this momentum indicator excels and where it fails to get the most out of its use. Works well in non-trending market conditions; Excellent tool for measuring volatility, which can easily be seen as the Bollinger Bands narrow or widen; Helpful at identifying new trends and the end of trends, making them a genuinely multi-purpose
indicator;Useful at identifying overbought and oversold conditions;Useful at identifying significant movement on the market;Simple to apply and relatively straightforward;When automatically plotted by a trading platform, the bands are user-friendly and can add another dimension to chart analysis for traders. The bands will not be able to predict
price patterns as a lagging indicator. Rather it follows recent market movement suggesting that traders may not get signals until the price movement is already underway; Bad at identifying cycle turns, giving a lot of false signals until the price movement is already underway; Bad at identifying cycle turns, giving a lot of false signals; Keep in mind that John Bollinger himself strongly alluded to Bollinger Bands be used in conjunction with other forms of
technical analysis tools, as they don't contain all of the data necessary for proper analysis of price action. To sum up, Bollinger Bands are a valuable technical analysis tool. As a trend indicator, Bollinger bands are used to analysis tool. As a trend indicator, Bollinger bands are used to analysis of price action.
market. Bollinger Bands can also assist in predicting trend reversals. However, traders should remember that Bollinger Bands are based on historical information. The content on this site should not be considered investment advice. Investing
is speculative. When investing, your capital is at risk. Bollinger Bands, developed by John Bollinger in the mid-1980s, are a popular technical analysis tool used by traders to analyze the markets. Bollinger Bands consists of three bands: the middle line (simple moving average), the upper line, and the lower line. The middle band essentially serves as a
base for both the upper and lower. Bollinger Bands are a trend indicator that detect the volatility and dynamics of the price on the market. During periods of high volatility. The consensus is that when the price reaches the upper band, it is considered as
overbought, and when the price approaches the lower band, it is deemed to be oversold. As Bollinger Bands offer unique insights into price and volatility, traders can find several uses for them, including determining overbought and oversold levels, as a trend-following tool, monitoring for breakouts, and deciding entry and exit points for a trade. As a
lagging indicator, it will not be able to predict price movements. Therefore, traders may not get signals until the price movement is already underway. Moreover, Bollinger Bands cannot be used as a standalone trading method. They are merely one indicator designed to provide traders with data regarding price volatility. John Bollinger suggests using
them in conjunction with other non-correlated indicators that provide more direct market signals. Keltner Channels and Bollinger Bands are formed using an exponential moving average and the Average True Range to set the channel boundaries,
focusing on trend direction and overbought/oversold conditions with smoother band movement. Bollinger Bands, on the other hand, use a simple moving average and standard deviation to determine their boundaries, making them more sensitive to market volatility and useful in identifying volatility, trends, and potential market extremes. Donchian
channels and Bollinger bands are both technical analysis tools but differ in their construction and focus. Donchian channels are formed by taking the highest high and the lower bands set based
on standard deviation, focusing on volatility and potential overbought or oversold market conditions. The Double Bollinger Bands Strategy uses two sets of Bollinger Bands, one with a standard deviation of 1 and another with 2, to analyze market trends and potential trade points. This strategy helps traders identify strong trends, periods of
consolidation, and potential breakouts by observing price movements between these bands. It's effective in spotting overbought or oversold market conditions. The Bollinger Bands Day Trading Strategy involves using Bollinger Bands as a primary tool for short-term trading decisions within a single trading day. Traders observe how prices interact
with the bands to make buy or sell decisions. For example, a price touching the lower band may suggest a buy opportunity, assuming oversold conditions, while touching the upper band might indicate a sell signal, suggesting overbought conditions, while touching the upper band might indicate a sell signal, suggesting overbought conditions.
to different market volatility levels. The best settings for Bollinger Bands typically depend on the specific market and trading style, but a common starting point is a 20-period moving average with a 2 standard deviation for the upper and lower bands. This setup is versatile, providing a balance between sensitivity and reliability for many markets and
time frames. However, traders often adjust these parameters based on the volatility of the asset and their individual trading strategies. For scalping, a common Bollinger bands setting is a shorter period moving average, like 5 or 10 periods, with a 2 standard deviation for the upper and lower bands. This configuration provides a more responsive
indicator suited for the fast-paced nature of scalping, allowing traders to identify quick market movements and potential entry or exit points. However, these settings should be adjusted according to the specific market and the trader's personal strategy. The best indicator to use with Bollinger Bands is the Relative Strength Index (RSI). It helps
may indicate an oversold condition, suggesting a potential buy opportunity. Conversely, a price at the upper Bollinger Band with an RSI above 70 might signal an overbought condition, indicating a potential sell. This combined approach helps filter out false signals and enhances the reliability of trade setups. Tight Bollinger bands occur when the
upper and lower bands come close together, indicating low market volatility. Tris often precedes significant price movements, as markets tend to alternate between periods of low and high volatility. Traders watch for a breakout from tight Bollinger Bands as a potential signal for entering trades, with the direction of the breakout suggesting the trade
direction. A Bollinger Band squeeze is identified when the bands narrow significantly, indicating low volatility and a potential upcoming breakout. Best Crypto Exchange for Intermediate Traders and Investors Invest in cryptocurrencies and 3,000+ other assets including stocks and precious metals. 0% commission on stocks - buy in bulk or just a
fraction from as little as $10. Other fees apply. For more information, visit etoro.com/trading/fees. Copy top-performing traders in real time, automatically. eToro USA is registered with FINRA for securities trading. 30+ million Users worldwide eToro is a multi-asset investment platform. The value of your investments may go up or down. Your capital
 is at risk. Don't invest unless you're prepared to lose all the money you invest. This is a high-risk investment and you should not expect to be protected if something goes wrong. Take 2 mins to learn more. Bollinger Bands are a type of statistical chart that characterises the prices and volatility of a financial instrument over a period of time using
formula. Bollinger Bands formula was developed by technical traders in the 1980s. These charts are used by financial traders in the process of decision-making. Bollinger Bands are a type of price envelope which defines the upper and lower price range levels. An
important benefit of Bollinger bands is that they help determine whether prices are high or low on a relative basis. They help the investors by providing the necessary information on the probability of identifying if an asset is oversold or overbought. Bollinger Bands plot two bands around a moving average - an upper bollinger band and a lower
bollinger band. The bollinger bands calculation uses standard deviation to set the width of the bands. Wider bollinger band indicater higher volatility while closer bands indicate lower volatility. Bollinger band indicater higher volatility while closer bands indicate lower volatility.
overbought and ready for a pullback. When price touches the lower band, it may be oversold and ready for a bounce. See this video below for a detailed explanation on Bollinger Bands. Video on Bollinger Bands Trading Strategy Bollinger Bands are a type of price envelope is a technical tool that consists of two parallel lines, which are
usually plotted above and below a moving average or another reference line. The distance between the upper and lower lines is typically a fixed percentage or a specific number of points. Bollinger Bands are envelopes plotted at a standard deviation level above and below a simple moving average of the price. The distance of the bands is based on the
standard deviation, and they adjust to volatility swings in the underlying price. Bollinger Bands: Definition, How It Works, Calculation, Trading, and Benefits 54 Bollinger Bands display a graphical band and volatility in a two-dimensional chart. It is represented by three different lines which are drawn with one below and one above the security price
line. Its specific period moving average is denoted as the midline to form an envelope. These lines shown on the basis of the standard deviation for a particular security. This is denoted by the upper and lower lines or bands as the standard
deviation is a measure of volatility. The distance of the bands is based on the standard deviation, and they adjust to the volatility increases and decreases. The bands automatically widen when volatility increases and decreases. The bands is based on the standard deviation, and they adjust to the volatility increases and decreases. The bands is based on the standard deviation, and they adjust to the volatility increases and decreases. The bands is based on the standard deviation, and they adjust to the volatility increases and decreases.
allows them to be used on different securities with standard settings. The image uploaded below shows how Bollinger Band was developed by John Bollinger Band w
surround the price bars on a chart. Bollinger Bands are a tool used by traders and investors to understand market volatility before John Bollinger proposed his idea. Wilfrid Ledoux used the monthly highs and lows of the Dow Jones Industrial Average to predict long-term market movement in 1960.
The history of trading bands got lost in time after that until it was proposed later by Hurst. Many others tried to construct similar trade bands inspired by Hurst but achieved little success. Percentage bands became popular in the 70s. It was easy to use and was a simple moving average graph that showed the highs and lows, which were plotted
against a user-specified percentage. The modern Bollinger Bands are developed on the idea of Donchian Bands, which are price envelope bands showing the highest and lowest price differences for a particular number of days. Donchian Bands are, however, only taken into consideration for the recent highs and lowes, which gives Bollinger Bands a
clear advantage over them. It uses standard deviation, which makes it dynamic and adaptive to the market. John Bollinger founded Bollinger Capital Management, which is a firm specialising in providing technical analysis and investment advice to investors. The idea for Bollinger Bands was inspired by J. Welles Wilder Jr., who had introduced the
concept of using standard deviation to measure volatility. J. Welles Wilder Jr. worked on volatility indicators and the concepts of the Average True Range (ATR) and the Relative Strength Index (RSI), which became widely used technical indicators. Bollinger
further developed this concept into his own indicator by using the standard deviation as a measure of volatility. Bollinger Bands were first introduced to the public in the 1980s. They gained widespread recognition and popularity due to their ability to identify potential price breakouts and reversals. John Bollinger published his findings on Bollinger
Bands in his book titled "Bollinger on Bollinger Bands," which was released in 2001. The book acts as a guide for investors in order to understand and effectively utilise the Bollinger Bands in various market scenarios. John Bollinger Bands in various market scenarios.
and has significantly contributed to the understanding and application of technical analysis concepts. Bollinger Bands are an important component of technical analysis and a popular form of technical price indicator. Bollinger Bands are made up of an upper,
lower, and middle band which is a moving average. The upper and lower bands are set on either side of a Simple Moving Average (SMA). Each of the market, and they are capable of highlighting the areas of support and resistance. An area of resistance is
encountered when the price approaches the upper band, and an area of support is encountered when the price approaches the lower band. Bollinger Bands: Definition, How It Works, Calculation, Trading, and Benefits 55 Bollinger Bands also incorporate volatility. The general principle in technical analysis is that a trader can determine the price of
the stock, that is if it is relatively low or relatively low or relatively high by comparing a stock's position relative to the bands indicate less volatility. In the image uploaded below, you can observe how the price has reacted from the
bollinger bands components represented in the black box. The price reacts from the SMA in the middle and bounces from upper and lower bands are dynamic, which allows them to be used for different asset classes to understand price fluctuations and determine overall
trends. The overall trends can be determined through technical analysis of the price is constantly trading above the middle band. Bollinger Bands are considered a technical analysis tool that helps traders
evaluate price action and a stock's volatility. Bollinger Bands are one of many indicators that are simple to understand and easy to interpret. It acts as a comprehensive guide for investors and traders to use it profitably. Another important feature of Bollinger bands is
that they use standard deviation which is dynamic, and it also adjusts to market volatility. The band grows wider during volatile market periods and narrows during less volatile periods. Traders measure the width of the band in order to measure volatility. The current market price of stock also helps traders and investors in the decision-making
process. An overbought market is indicated when the current market price of a stock is close to its lower Bollinger band. The main objective of the Bollinger Bands indicator is to give the terms high and low a relative definition. Prices are
relatively high at the Upper Bollinger Band and relatively low at the Lower Bollinger Band. Bollinger Band and relatively high at the Upper Bollinger Band. The movement of the
price from one band to another signals a potential trend reversal in the market price of the stock. The Bollinger Band consists of 3 lines. They are the upper band, lower band and the middle band. Here is the formula for the 3 lines. They are the upper band, lower band and the middle band. Here is the formula for the 3 lines. They are the upper band, lower band and the middle band. Here is the formula for the 3 lines.
2) Lower Band = 20 day SMA - (20-day standard deviation of price x 2) Traders use the formula to calculate the three bands. The formula for Standard deviation winus the mean divided by sample size. The next step after calculating the Standard
deviation is calculating the upper and lower Bollinger upper and lower Bollinger upper and lower bands. The Bollinger upper and lower bands are calculated by multiplying SD by two and both adding the 20-day simple moving average with the 20-day standard deviation
multiplied by 2. Here is the formula for calculating the Bollinger Upper band: BOLU=MA(TP,n)+m*\sigma[TP,n] The Bollinger Lower Band is calculated by subtracting the Bollinger lower band: BOLD=MA(TP,n)-m*\sigma[TP,n] Where,
BLOU = Bollinger Upper Band BOLD = Bollinger Lower Band MA = Moving Average (typically 20) M = Number of SD (typically 20) M 
traders and investors to understand and learn them. Upper Bollinger Bands in technical analysis help traders with decision-making and they also act as a guide while investing in the stock market. Upper Bollinger Bands help traders with decision-making and they also act as a guide while investing in the stock market.
Traders consider this a signal to adjust their positions, as there could be a potential pullback. The purpose of Bollinger Bands indicate that the current market price of a stock is high, and traders usually buy when the price breaks above the upper
Bollinger Band. The upper Bollinger bands can also identify potential trend breakout is indicated when the price from one band to another band signals a potential trend reversal in the market price of the stock. In the image uploaded
below, the purple box represents potential trend reversal after touching the upper band indicating a trend continuation towards upside. Bollinger Bands: Definition, How It Works, Calculation, Trading, and Benefits 56 The
upper Bollinger bands are capable of highlighting areas resistance. An area of resistance is encountered when the price will reverse or break through resistance levels. Upper Bollinger Bands in technical analysis are used with other indicators in
order to confirm trading signals and take important decisions. Lower Bollinger Bands in technical analysis help traders with decision-making and they also act as a guide while investing in the stock market. Lower Bollinger Bands help traders with decision-making and they also act as a guide while investing in the stock market. Lower Bollinger Bands help traders with decision-making and they also act as a guide while investing in the stock market.
lower band. Traders consider this a signal to adjust their positions, as there could be a potential consolidation. There is a rapid decline in the market price of the stock, and traders usually start buying at this point. The purpose of Bollinger Bands
indicate that the current market price of a stock is low and traders usually buy and expect the price from one band to another
signals a potential trend reversal in the market price of the stock. Bollinger Bands: Definition, How It Works, Calculation, Trading, and Benefits 57 In the image uploaded above, the first few purple boxes represent how the lower bollinger bands a potential trend reversal in the market price of the stock bounced from that level. The arrow
represents the breakdown of the lower band indicating trend shiftment towards downside. The lower Bollinger bands are capable of highlighting areas of support. An area of support is encountered when the price will reverse or break through
support levels. The lower Bollinger Bands in technical analysis is used with other indicators in order to confirm trading signals and take important decisions. The signals provided by the lower Bollinger Bands in technical analysis tool for the purpose of trading stocks. The dynamic nature of the
Bollinger Bands are applied on the chart to procure additional confirmation about the trend of the stock or any security. Here are the different ways to use Bollinger Bands: Definition, How It Works, Calculation, Trading, and Benefits 58 Indicator of volatility: The bands comprise a volatility indicator that measures the
relative high or low of a security's price in relation to previous trades. Volatility is measured using the standard deviation, which changes with an increase or decrease in volatility. Standard deviation points are plotted against it to represent price fluctuations. The Bollinger band widens when there is a price increase and grows during volatile market
periods. The Bollinger band narrows when there is a price decrease and also gets narrower during less volatile periods. Traders measure the width of the band in order to measure volatility. Strike.money is one of a kind scanner that scans all the stocks based on the bollinger bands giving either the widening signal (indicating increasing volatility) and
narrowing signal (indicating decreasing volatility). In the image below, Strike.money has sorted and presented the list of stocks that are indicating Widening signal (upcoming volatility). In the image below, Strike.money has sorted and presented the list of stocks that are indicating Widening signal (upcoming volatility). In the image below, Strike.money has sorted and presented the list of stocks that are indicating Widening signal (upcoming volatility).
and Benefits 59 In the image below, these drop down menus provide the following scanners. Bollinger Bands: Definition, How It Works, Calculation, Trading, and Benefits 60 Overbought and oversold is a common strategy used by traders with Bollinger bands. This strategy is used to identify overbought and oversold is a
regions in the current market conditions. The current market price of a stock also helps the traders and investors in the decision-making process. An overbought market is indicated when the current market price of a stock is close to its
lower Bollinger band. The trader buys expecting the price to return back to the middle band in an oversold market, and the trader sells expecting the price to return back to the middle band in an oversold market. This strategy used
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by traders while trading with Bollinger Bands. A squeeze is formed when the price moves in consolidation. This means that the volatility of the stock has decreased. This is not always the case and the volatility of the stock will tend to

increase again after a certain period of time. The price makes a large move in either direction after the consolidation and is going to form an upward or downward trend. The trader can buy or sell accordingly when the price breaks the upper or lower

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