

Fractal Volatility Index for BRZE : 0.395. Market Wide FVI:0.478

(0 - 0.33: Stable, 0.33 - 0.66: Moderate Volatility, 0.66 - 1: High Volatility)

Red: High Risk FVI zone,Orange: Medium Risk FVI zone, Green: Low Risk FVI zone



Verv Stock Analysis Report: Braze Inc BRZE FVI 0.395

Analysis Period: 2021-10-02 to 2026-10-02

The Fractal Volatility Index (FVI) is scaled between 0 and 1 reflecting the stock's overall volatility. A higher score indicates greater unpredictability and market instability.

Unlike traditional volatility indicators like VIX or Beta, FVI does not track short-term fluctuations—it detects hidden instability before it manifests in price swings.

FVI is a composite score that incorporates Lyapunov Exponent, Hurst Exponent, and Detrended Fluctuation Analysis (DFA).

Breakout Probability

Breakout Probability Score (BPS): -0.862

Breakout Probability Score (BPS) quantifies price momentum likelihood: BPS > 1.5 suggests high breakout potential, while BPS < 0.5 indicates consolidation.

(BPS > 1.5 High breakout potential - Strong momentum, watch for confirmation.)

(BPS 0.5 - 1.5 Moderate breakout likelihood - Possible move, monitor closely.)

(BPS < 0.5 Low breakout probability - Likely consolidation or range-bound.)

Request ID: FVI

Account ID: WeeklyReport

Fractal & Statistical Analysis

FVI Score: 0.395 (Fractal Volatility Index FVI)

DFA Result: 0.5029 (Detrended Fluctuation Analysis)

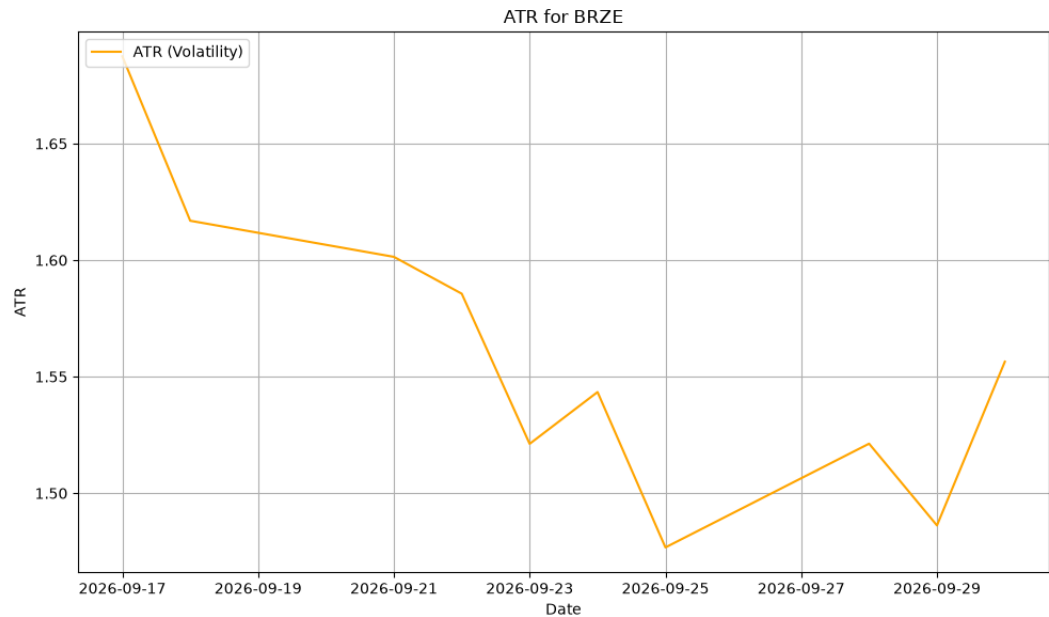
Lyapunov Exponent: 0.0144 (Measures chaos and predictability)

Hurst Exponent: 0.5073 (Indicates trending or mean-reverting behavior)

Breakout & Recent Price Change Analysis

Breakout Statement: No strong breakout signal detected: The latest closing price of 25.10 is within the Bollinger Bands range (19.91 - 32.38).
Latest ATR: 1.5564

Average True Range (ATR)



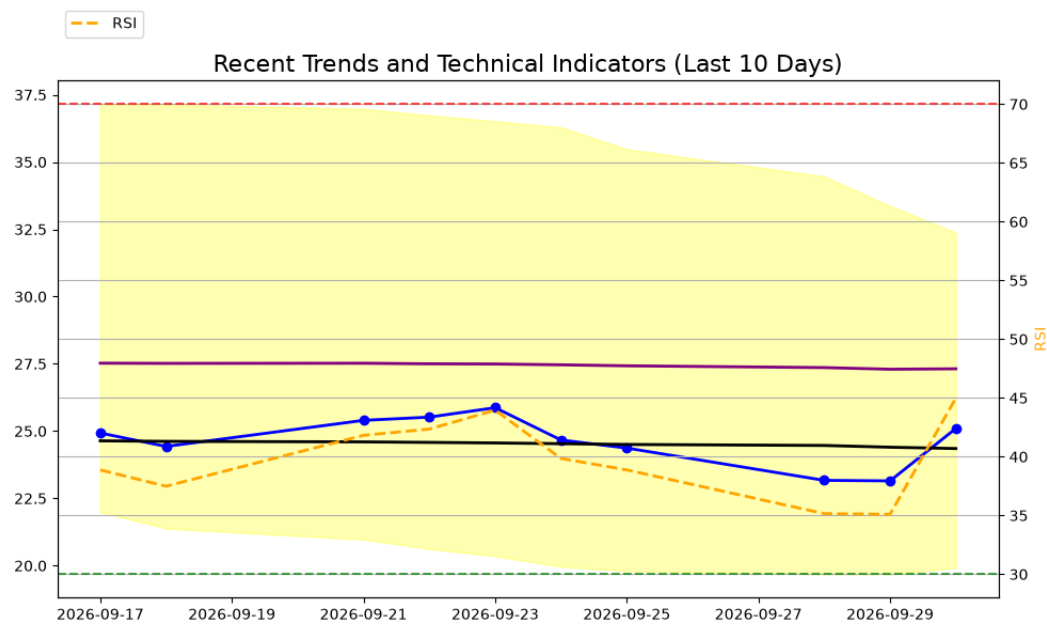
The ATR measures the recent price volatility of a stock, calculating the average range between its high and low prices over a given period (usually 14 days). A higher ATR indicates greater market volatility, and a lower ATR indicates less volatility.

Low ATR (below 2): Stable stock, Moderate ATR (2-5): Mild volatility, High ATR (above 5): Highly volatile stock

Technical Indicators

Technical indicators are based on historical price and volume data used in technical analysis to forecast financial market direction. They help identify trends, momentum, volatility, and potential entry and exit points in the market.

Technical Indicators



Left y axis - Stock Price. Right y axis - RSI range values (30 - 70)

Close Price(blue line with circles) - Key indicator of the stock's price action and is often used to identify trends or patterns. A rising close price generally indicates an upward trend, while a falling close price shows a downward trend.

SMA_50 and SMA_200 - (purple line SMA_50, black line SMA_200) Simple Moving Averages (SMA) calculated over 50 and 200 periods. Helps identify the direction of stock price trend.

Bollinger Bands - (shaded in yellow): Bollinger Bands consists of upper, middle and lower prices. The middle line is the moving average. Price reaching the upper band can indicate an overbought condition, suggesting the stock might be due for a pullback. Price touching the lower band could indicate an oversold condition, suggesting a potential buying opportunity. When the price moves outside the bands, it may indicate extreme conditions.

Relative Strength Index RSI - (orange dotted line): The RSI is a momentum oscillator that measures the speed and change of price movements. An RSI above 70 suggests the stock is overbought and might be due for a pullback. An RSI below 30 suggests the stock is oversold and might be due for a rebound. An RSI in between indicates a more neutral market condition.

AI Executive Assessment

1. Volatility Structure

The Fractal Volatility Index (FVI) for BRZE is 0.395, which is lower than the market-wide FVI of 0.478. This suggests that BRZE's price movement is somewhat less structurally unstable than the market average. The Lyapunov Exponent is 0.0144, indicating a certain degree of sensitivity and divergence within the system. However, without a supplied threshold or market-wide equivalent, it's difficult to interpret this value. The Hurst Exponent of 0.507 is slightly above 0.5, which may suggest a weak persistence in the price series. The DFA value of 0.502 also suggests a scale-dependent correlation structure, but it does not independently predict a breakout, volatility surge, or price direction.

2. Breakout Evidence

The Breakout Probability Score (BPS) for BRZE is -0.8618, and there is no strong breakout signal detected as the latest closing price is within the Bollinger Bands range. Therefore, the evidence for a potential breakout is not strong at this time.

3. Participation and Technical Context

The volume change for BRZE is 58.67%, indicating a significant increase in trading activity. The latest Average True Range (ATR) is 1.556, but without historical or price-normalised comparison, it's hard to classify this value.

4. Macro and Sector Context

Comparing the FVI values for Gold, FX, and TWI, Gold has the highest structural instability, followed by TWI and FX. However, it's crucial not to assign specific geopolitical, policy, or investor-behaviour causes without supplied evidence. The Greenhouse Gas (GHG) sector variability score for the Technology sector is low (0.048), and the company's GHG sector sensitivity score is 0.04825, suggesting low emissions-related variability for Braze Inc.

5. Risk Interpretation

The supplied evidence suggests moderate uncertainty for BRZE, with a lower-than-average FVI and no strong breakout signals. The increased volume and the Hurst Exponent slightly above 0.5 may indicate a weak persistence in price series, but these signals are not strong enough to suggest a specific structural risk.

6. Monitoring Implications

The volume change, FVI, and the Hurst Exponent for BRZE merit continued observation. These indicators may provide valuable insights into the stock's future volatility structure and potential breakout evidence.

FINAL TAKEAWAY

BRZE exhibits moderate uncertainty with less structural instability than the market average and no strong breakout signals. The significant increase in volume, along with the slightly above-average Hurst

Exponent, are key indicators to monitor for potential changes in the stock's volatility structure.

Stock Information

Market Capitalization: 2850969000, Industry: SOFTWARE - APPLICATION, Latest Volume: 2884994, Description: Braze Inc, Sector: TECHNOLOGY, Price to Book: 4.83, Forward PE: 39.84, Enterprise to Ebitda: -18.23, Enterprise to Revenue: 3.099, Profit Margins: -0.136

The trading volume has changed by 58.67% over the past week, indicating potential shifts in market sentiment. Please factor this into the volatility and risk analysis.

Beta measures stock volatility relative to the overall market: 0.88

Beta of 0.88 suggests low volatility compared to the market.

Stock Investment Character Report

Analysis based on supplied stock characteristics and market context.

Investment Character: Narrative-Dependent

Resilience: 45%

Momentum: 10%

Structural Stress: 50%

Narrative Dependence: 65%

Confidence: 58%

Calculated Metrics:

- Price-Volume Divergence: 0.000

- Volatility Dissonance Index: 0.518

Evidence:

- Structural volatility is moderate and below the market-wide FVI, market sensitivity is below 1, and recent absolute trading-range volatility is low (ATR < 2).

Indicators: FVI=0.395, Market-wide FVI=0.478, Beta=0.88, Latest ATR=1.5564350554070752

Supports: Resilience

- Breakout propensity is strongly negative and price remains within Bollinger Bands, indicating no confirmed breakout momentum.

Indicators: Breakout Probability Score=-0.8618212618746774, Breakout statement=No strong breakout signal detected: The latest closing price of 25.10 is within the Bollinger Bands range (19.91 - 32.38).

Supports: Momentum

- The company is unprofitable on a trailing basis with negative EBITDA; valuation includes a positive forward P/E despite no confirmed forward EPS figure supplied.

Indicators: Profit margin=-0.136, EV/EBITDA=-18.23, Trailing P/E=0, Trailing EPS=0, Forward P/E=39.84, EV/Revenue=3.099, Forward EPS=0

Supports: Narrative Dependence

- Long-memory and scaling indicators are near neutral, providing no strong evidence of persistent trend.

Indicators: Hurst Exponent=0.5073365245194077, DFA Result=0.5028614754588775, Lyapunov Exponent=0.014443185638433106

Supports: Uncertainty

Assessment:

BRZE shows calm market behavior (sub 1 beta and low ATR) with moderate structural volatility below the market-wide level, but it lacks breakout confirmation. Operating metrics indicate losses (negative margin and EV/EBITDA) while valuation embeds expectations (forward P/E) without confirmed forward EPS, pointing to reliance on a forward-looking narrative. Overall, the balance of unprofitable operations and expectation-laden valuation, alongside absent momentum, best fits a narrative-dependent profile.

Limitations:

- No data on revenue growth, cash flow, or margin trends, limiting assessment of operational trajectory.

- Price history context beyond Bollinger band inclusion is not provided, constraining momentum characterization.

- Forward EPS detail is missing, so valuation-versus-earnings alignment cannot be fully established.

- No macroeconomic inputs supplied to contextualize sector demand or funding conditions.

Medium-Term Fit:

May align with a thesis focused on application software platforms transitioning from losses toward operating leverage, where moderate market sensitivity and acceptable revenue multiples are prioritized while monitoring progress toward profitability.

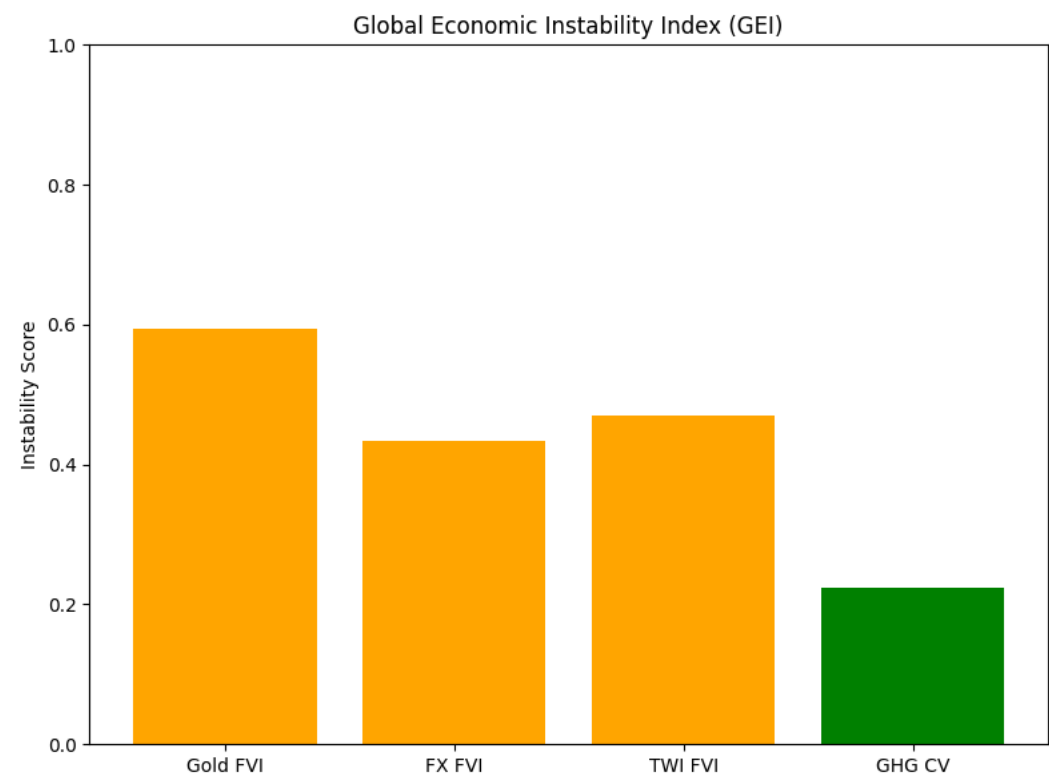
Fractal Volatility Indices

Global Geopolitical Fractal Volatility (Gold, Forex, TWI (Tariffs) and GHG Emissions)

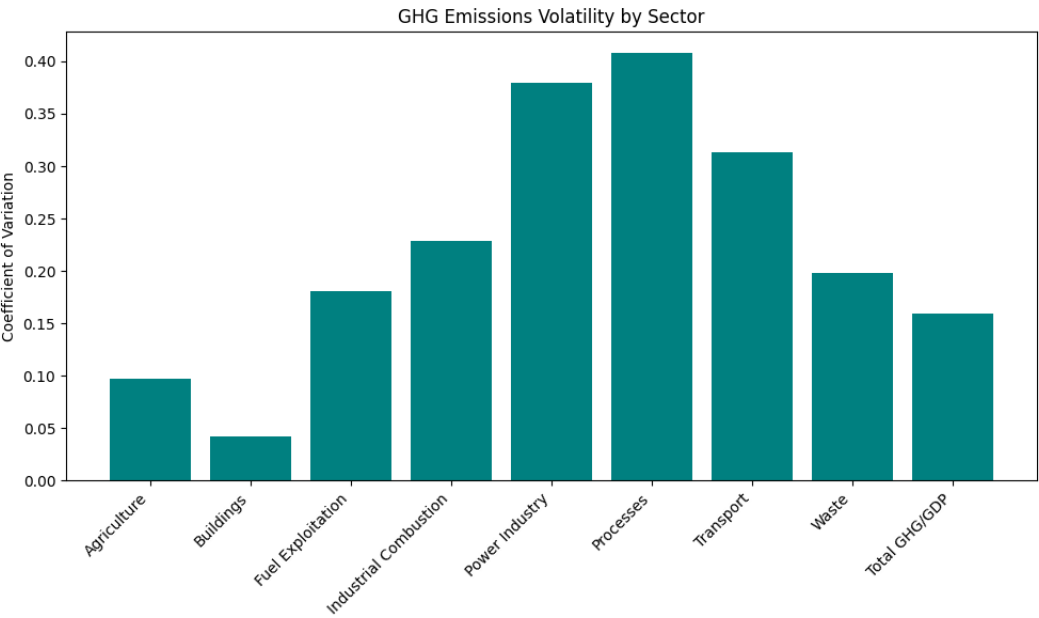
FVI_GOLD: 0.593608 => Moderate gold volatility indicates increased investor caution
FVI_FX: 0.434301 => Moderate FX volatility indicates ongoing currency-market adjustment
FVI_TWI: 0.469352 => Moderate trade-weighted volatility indicates some external-sector adjustment
GHG_CV: 0.223036 => Moderate GHG sector variability indicates some sector-level carbon-risk dispersion

Primary Risk Driver: Gold volatility is a good proxy for global geopolitical risk. 0.593608.

Global Geopolitical Volatility



Volatility Indicators of GHG Emissions by Industry and GDP



Low GHG impact (0.048) for the Technology sector.

Disclaimer: The Fractal Volatility Index (FVI) measures structural market instability, not short-term price direction. High FVI (red dot) does not necessarily indicate a price breakout—rather, it signals unpredictable price behavior and potential structural shifts. While market instability can precede significant moves in either direction, Verv Stock Reports do not predict price trends but offer insight into underlying volatility patterns. Investors should interpret FVI alongside fundamental and technical analysis before making decisions.

_____END OF REPORT_____