

Fractal Volatility Index for GOOGL : 0.388. Market Wide FVI:0.478
(0 - 0.33: Stable, 0.33 - 0.66: Moderate Volatility, 0.66 - 1: High Volatility)



Global Geopolitical Volatility



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

Verv Stock Analysis Report: Alphabet Inc Class A GOOGL FVI 0.388

Analysis Period: 2021-04-22 to 2026-04-22

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

FVI_GOLD: 0.593608 => Moderate gold volatility, likely reflecting investor caution

FVI_FX: 0.434301 => Low FX volatility; currency markets stable for now

FVI_TWI: 0.469352 => Moderate TWI volatility; minor export/import fluctuations

GHG CV: 0.223036 => Moderate emissions volatility; sector-level uncertainty exists

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

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 Score (BPS): 0.107

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: 0.388 (Fractal Volatility Index FVI)

DFA Result: 0.5330 (Detrended Fluctuation Analysis)

Lyapunov Exponent: 0.0142 (Measures chaos and predictability)

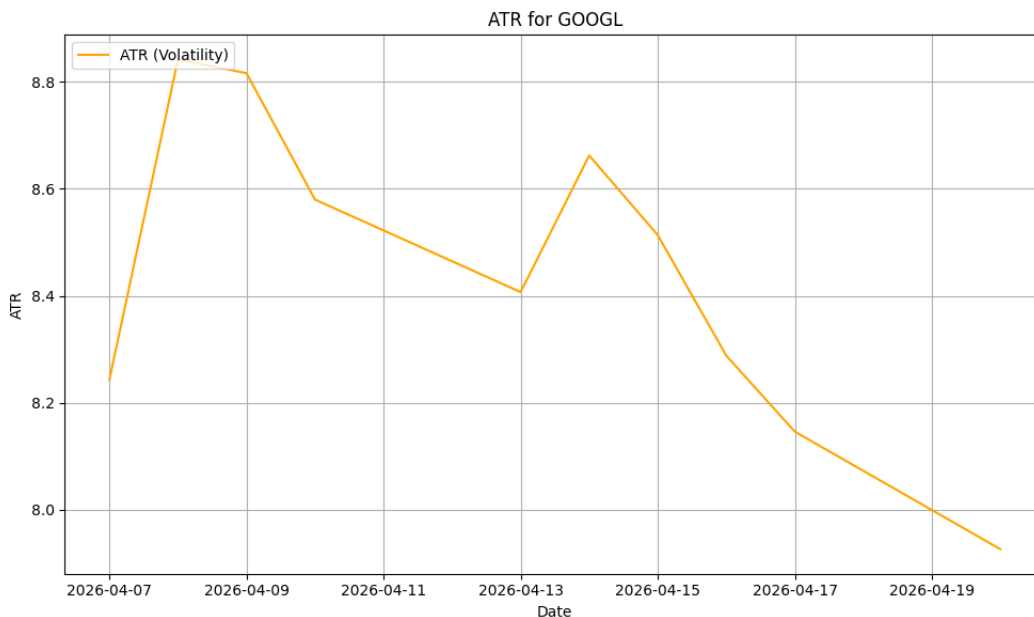
Hurst Exponent: 0.4655 (Indicates trending or mean-reverting behavior)

Breakout & Recent Price Change Analysis

Breakout Statement: No strong breakout signal detected: The latest closing price of 337.42 is within the Bollinger Bands range (265.10 - 350.68).

Latest ATR: 7.9264

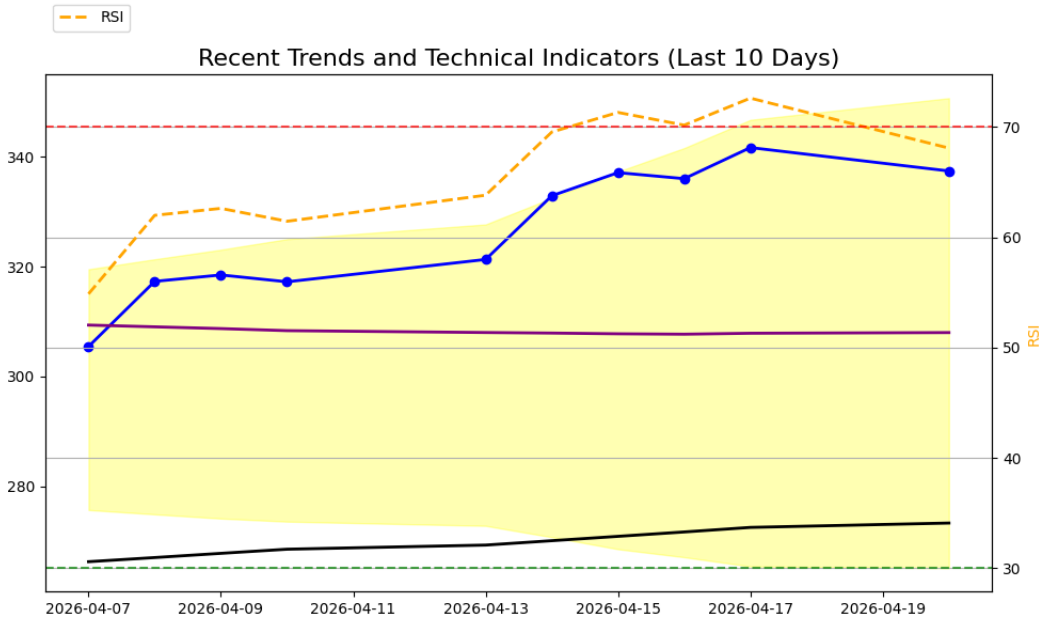
Average True Range (ATR)



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



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-Generated Market Insights

Investment Report:

--- INVESTMENT REPORT ---

1. Volatility & Breakout Potential

- The stock's FVI of 0.388 suggests moderate volatility, indicating a relatively stable regime.
- The Lyapunov value of 0.014, compared to market-wide values, suggests lower relative instability.
- The Bollinger Bands range indicates that the stock is not in a breakout phase, and the slight decrease in volume does not confirm significant price moves.

2. Market Sentiment

- The market sentiment appears to be cautious, as indicated by the lack of a strong breakout signal and moderate volatility.

3. Geopolitical Risk Assessment

- The elevated market-wide Gold FVI of 0.594 suggests increased hedge demand and geopolitical tension.
- The TWI FVI of 0.469 indicates potential global trade disruptions.
- GOOGL, being part of the communication services sector, may not be directly impacted by energy price shocks or supply-side inflation risk.

4. Sector and Supply Chain Exposure

- As a tech company, GOOGL may have some level of exposure to Asia or U.S. risk factors, particularly in terms of technology hardware and software supply chains.
- However, it is not directly exposed to risks associated with resource-intensive or export-driven sectors.

4. Strategy Recommendation

- Given the current market signals and geopolitical context, a defensive strategy may be most appropriate for this stock.
- The lack of a strong breakout signal and moderate volatility suggest that a trend-following strategy may not provide significant returns at this time.

--- FINAL TAKEAWAY ---

"Moderate volatility and lack of a strong breakout signal amidst rising geopolitical tension—position defensively."

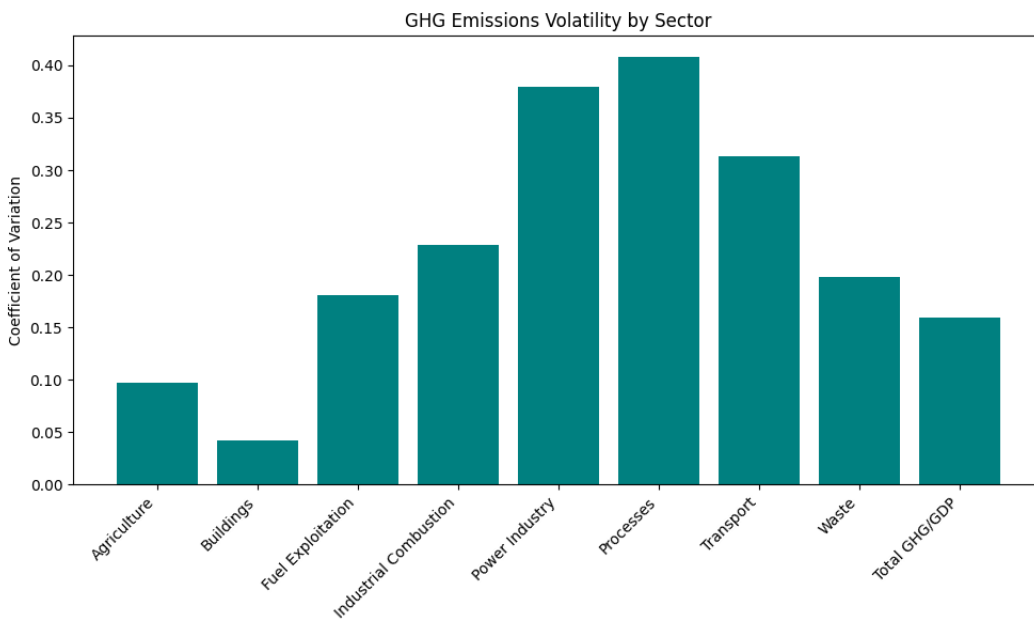
Market Capitalization: 4081770037000, Industry: INTERNET CONTENT & INFORMATION, Latest Volume: 18784226, Description: Alphabet Inc Class A, Sector: COMMUNICATION SERVICES, Price to Book: 9.95, Trailing PE: 31.24, Forward PE: 29.94, Enterprise to Ebitda: 22.43, Enterprise to Revenue: 10.06, Profit Margins: 0.328

The trading volume has changed by -0.44% 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: 1.13

Beta of 1.13 suggests high volatility compared to the market.

Volatility Indicators of GHG Emissions by Industry and GDP



No GHG score available for Communication services 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.

Stock Market Price Credibility Report

Analysis based on current global macroeconomic and geopolitical information.

Market_Price_Credibility_Analysis:

```
{  
  "Final_Score": 0.191,  
  "Price_Volume_Divergence": 0,  
  "Volatility_Dissonance_Index": -0.966,  
  "Deception_Risk": 0.769,  
  "Trumpery_Alert": true,  
  "Summary": "If you believe this rally, we've got beachfront property on the moon."  
}
```

Explanation:

Rising U.S. debt and deficit levels, coupled with changes in U.S. Treasury bond yields and issuance, and reports of declining foreign demand for U.S. bonds, signify a disconnect between the economic narrative and the fiscal reality. The U.S. government's increasing reliance on debt to finance its spending, amid declining foreign appetite for U.S. bonds, could lead to higher interest rates if the trend continues.

Central bank interventions, such as rate cuts and quantitative easing, can distort the economy's underlying dynamics. While these measures can stimulate economic activity in the short term, they can also create asset bubbles and exacerbate wealth inequality in the long run.

The use of tariffs and sanctions as economic tools can lead to trade wars and economic uncertainty, which can be detrimental to global economic growth. Inflation vs. official interest rate policy can also create a disconnect if inflation is rising but interest rates are kept artificially low.

The BRICS+ influence and de-dollarization trends pose a challenge to the dominance of the U.S. dollar as the world's reserve currency. If these trends continue, they could lead to a shift in the global economic order.

Gold volatility and geopolitical hedging can be a sign of market uncertainty and risk aversion. If gold prices are volatile, it could indicate that investors are concerned about geopolitical risks and are seeking safe-haven assets.

The Trumpery Alert is set to true, indicating that there may be manipulative or performative policymaking at play. The satirical summary, "If you believe this is market forces, we've got a bridge to sell you," underscores this point.

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Deception Risk:

Between 0 and .2, markets appear fundamentally sound, no price distortion.

Between .2 and .4 there may be some irrationality or manipulation. Caution is advised.

Between .4 and .6 there are signals of disconnect between narratives and reality.

Between .6 and .8 distortions mean possible financial gaslighting.

Between .8 and 1 signals a confidence scam - you are being sold a bridge.

What Price Credibility Sell You a Bridge Index captures:

Price to Volume Divergence PVD.' When price rises while volume drops is suspicious behavior.

A Narrative Reality Dislocation Index NRDIndex is an AI score for disconnect between corporate statements and underlying fundamentals.

A Volatility Persistence Score VPI. When volatility indicators stay low despite geopolitical/economic chaos.

The Macro Score includes Tariff Impact Denial. High tariffs plus high exposure plus rising stock. This may be a trumpery illusion alert.

Treasury Detector TFD Liquidity Masking Metric. Fed/Treasury injections may be affecting retail activity or debt spreads.

The Media Sentiment Mismatch is included. This is where news tone is contrary to actual market data (e.g. bullish despite bond collapse).

Note: Trumpery derives from a French word meaning to deceive, in many dictionaries showy but worthless.

_____ **END OF REPORT** _____