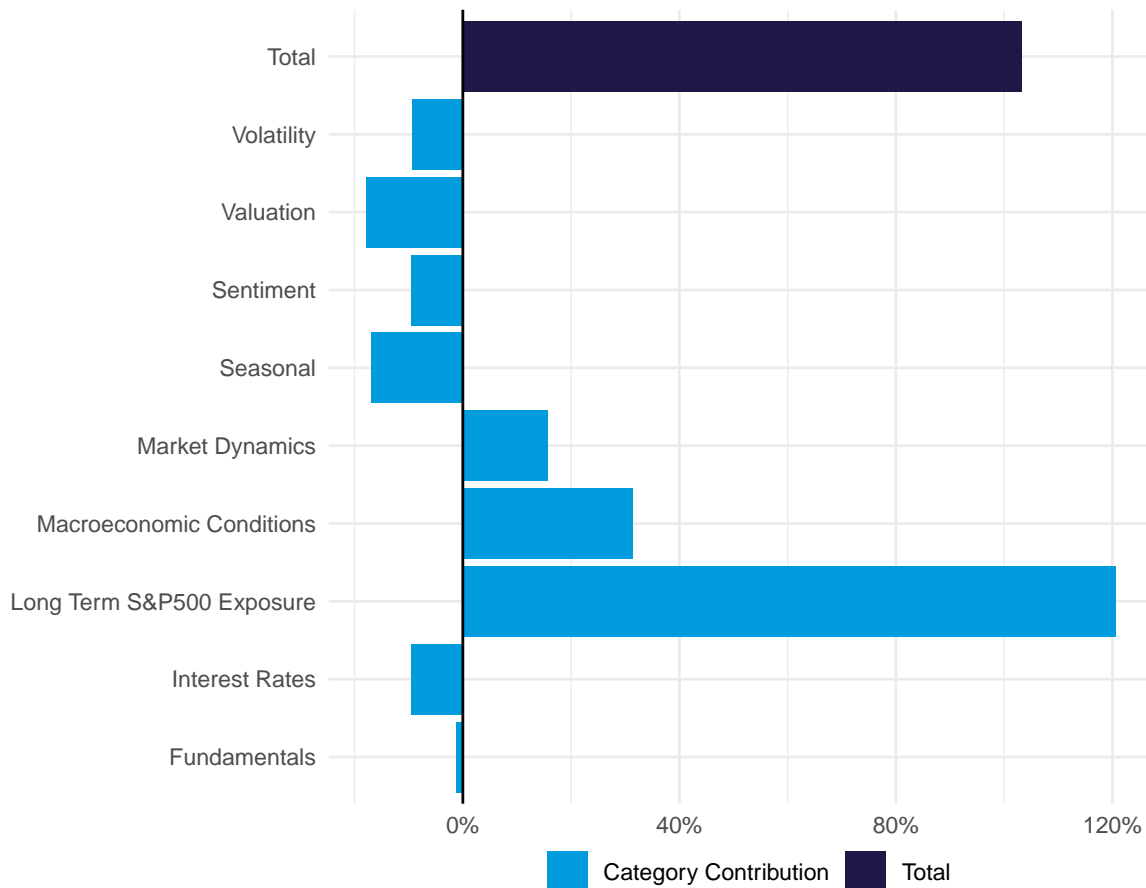


Market Exposure: 103%

2023-09-20

The table below shows how we arrive at our daily stock market exposure. We base this on an amalgamation of signals from several models that contain over 40 individual inputs. Model conclusions are interpreted in the 9 broad categories shown below. A negative category contributes to a bearish view of the U.S. market, whereas a positive contribution suggests that returns will be above their historical average. Category contribution values are summed to arrive at our daily market exposure.



Glossary

- **Fundamentals** - An aggregate of U.S. market fundamental indicators. These may include earnings yields, sales, R&D spending, and others.
- **Interest Rates** - Signals derived from various interest rates recorded in the market (BAA yield, AAA yield, Treasury Rates).
- **Long Term S&P500 Exposure** - The core S&P 500 exposure of our market-timing models. The target is to match or reduce the long-term volatility of the market, and the long-term exposure might change if the models and the strategy's realized volatility call for increases or decreases of our core allocation to the market.
- **Macroeconomic Conditions** - We consider a variety of macroeconomic indicators, including lending conditions, delinquency rates, inflation, unemployment rates, shipping and commercial activity, consumption levels, industrial production, commodity markets, housing starts, and many others.
- **Market Dynamics** - A composite recommendation derived from momentum, volatility, implied correlation, and higher moments or return distribution.
- **Seasonal** - Seasonal anomalies such as Turn of the month, FOMC, Sell-in-May.
- **Sentiment** - We consider a variety of sentiment indicators from multiple sources. These include sentiment measures from a variety of surveys as well as market-implied sentiment measures.
- **Valuation** - A measure of over or undervaluation of the aggregate U.S. market. We consider Price to Earnings, Price to Total Yield (Dividends & Buybacks), and Price To Book ratios in our analysis.
- **Volatility** - Indicators derived from the implied and realized volatility levels and their higher moments observed in the U.S. markets.

Today's positions

Based on the model recommendation, we are allocating our capital in the following positions.

	Weight
SPY ETF	93%
UVXY ETF	0%
SPX Options	10%
Total	103%

Strategy Summary

Hull Tactical aims to provide long-term capital appreciation and income generation for its clients. This is achieved through an ensemble of quantitative models that attempt to forecast market returns on horizons between one day and six months. Our approach is rooted in identifying and combining an array of signals spanning statistical, behavioral/sentiment, technical, fundamental, event-based and economic data sources. Through the use of statistical techniques ranging from ordinary least squares, and k-nearest neighbors, all the way to sophisticated machine learning methods, the portfolio managers continually investigate and evaluate the evolving complex relationships between these factors and the market.

The market-timing model recommendation can be realized by taking positions in the S&P 500-related ETFs, futures, or volatility products. The income generation portion of the strategy is provided through an options overlay which aims to capitalize on mispricing in the options market that occurs due to varying utility preferences of different market participants.

Hull Tactical's strategy has evolved over time. At launch, we utilized the output from a single six-month equity risk premium (ERP) model. In the present day, we now also incorporate the output of numerous shorter-term models. Below are links to academic articles that delve deeper into our methodologies and thinking of the market.

["A Practitioner's Defense of Return Predictability" \(2015\)](#)

["Return Predictability and Market-Timing: A One-Month Model" \(2017\)](#)

["Seasonal Effects and Other Anomalies" \(2018\)](#)

["The Risk Reversal Premium" \(2021\)](#)

["Option Pricing Via Breakeven Volatility" \(2021\)](#)



©2023 HTAA, LLC (“Hull Tactical”) is a registered investment adviser.

This report is provided by HTAA, LLC (Hull Tactical), a registered investment adviser. The material included herein is based on the views of Hull Tactical. Statements that are not factual in nature, including opinions, projections and estimates, assume certain economic conditions and industry developments and constitute only current opinions that are subject to change without notice. Nothing herein is intended to be a forecast of future events, or a guarantee of future results. This report should not be relied upon by the reader as research or investment advice (unless Hull Tactical has otherwise separately entered into a written agreement for the provision of investment advice).

There are risks involved with investing including loss of principal. There is no assurance that the objectives of any strategy will be achieved or will be successful. No investment strategy, including diversification, can protect against market risk or loss. Current and future strategy holdings are subject to risk. Past performance does not guarantee future results.

Certain economic and market information contained herein has been obtained from published sources prepared by other parties, which in certain cases have not been updated through the date hereof. While such sources are believed to be reliable, neither Hull Tactical nor its affiliates assumes any responsibility for the accuracy or completeness of such information and such information has not been independently verified by Hull Tactical. Index returns are for illustrative purposes only and do not represent actual strategy performance. Index performance returns do not reflect any management fees, transaction costs, or expenses, which would reduce returns. Indexes are unmanaged and one cannot invest directly in an index.