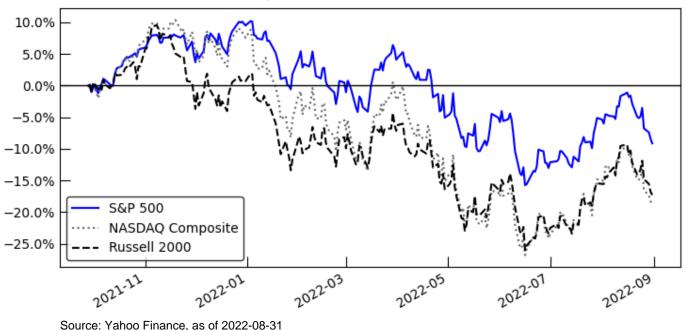
US Business Cycle Report

For the Month of August 2022

US Equity Indices Trailing 12 Month Cumulative Returns



Monthly Summary

Business Cycle Phase

Early Expansion

Late Expansion

Early Contraction

Late Contraction

Target Asset Allocation

Target Sectors: HC, UT, IT Target Factor: Momentum

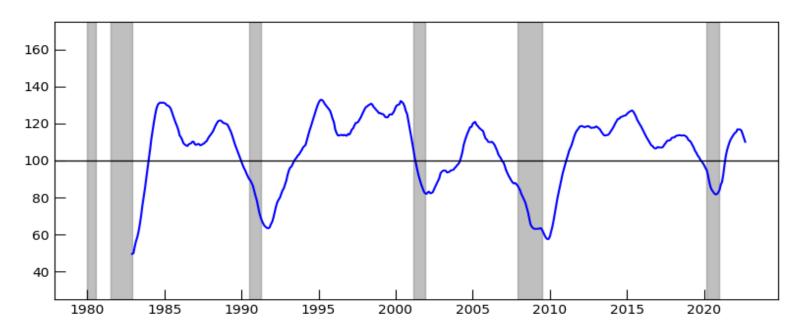
Target Sectors: UT, ID, CD
Target Factor: Low Volatility

Target Sectors: MA, HC, CS Target Factor: Safe Haven

Target Sectors: EN, ID, FN
Target Factor: Growth

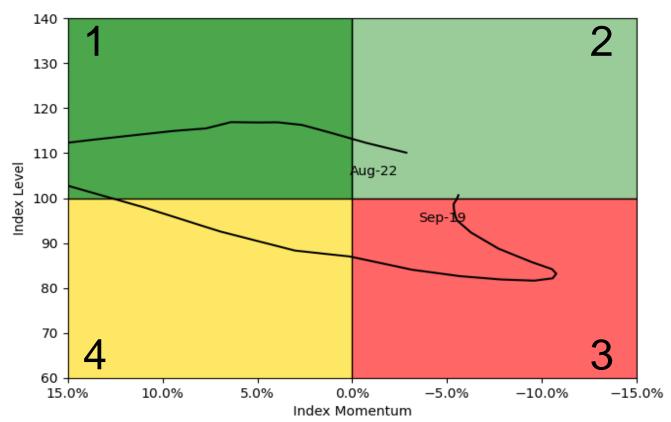
Composite Business Cycle Indicator

Composite Business Cycle Indicator



Note: Shaded areas represent US recessions as indicated by NBER. Reading greater than 100 indicates expansion, less than 100 indicates contraction.

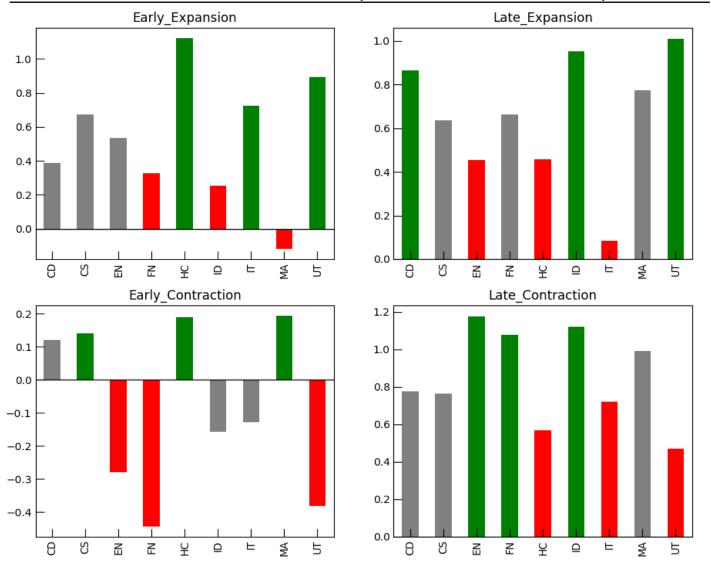
Business Cycle Compass



Note: Momentum calculated as 25% 6M Change, 75% 3M Average less 12M Average. 1 = Early Expansion, 2 = Late Expansion, 3 = Early Contraction, 4 = Late Contraction

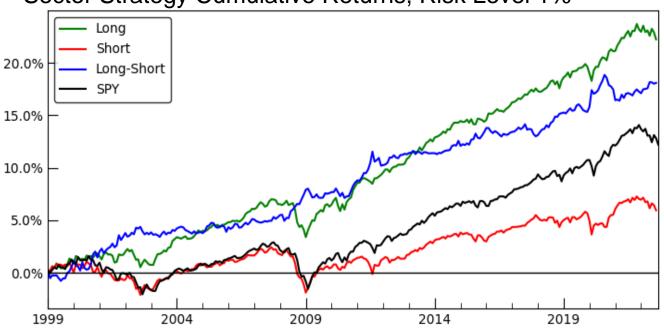
US Sector Rotation Strategy

US Sectors Information Ratios by Phase of Business Cycle



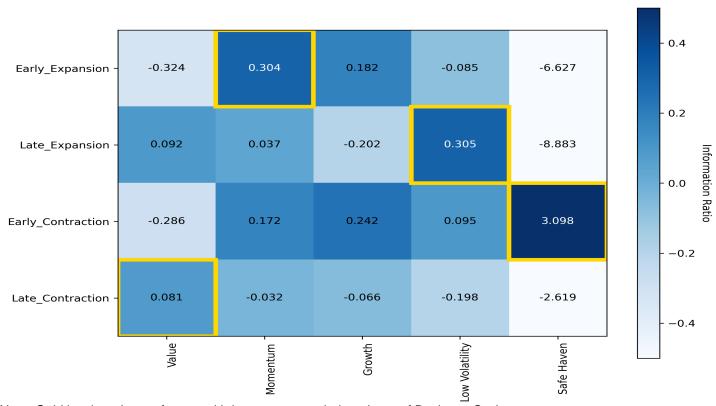
Note: Green bars denote sectors with long position, red short, and grey neutral. Sector returns based on SPDR Sector ETF returns from 1999-01-31 to 2022-08-31

Sector Strategy Cumulative Returns, Risk Level 1%



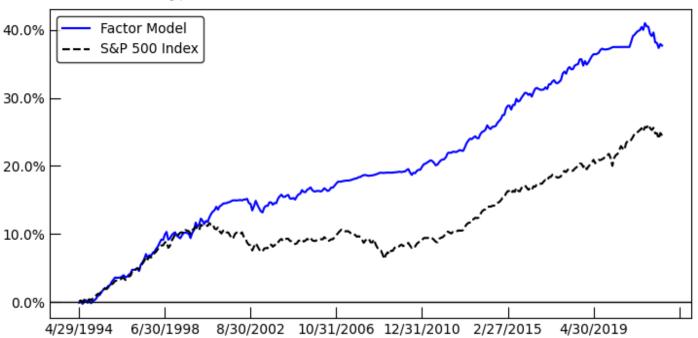
US Factor Rotation Strategy

US Factors Information Ratios by Phase of Business Cycle

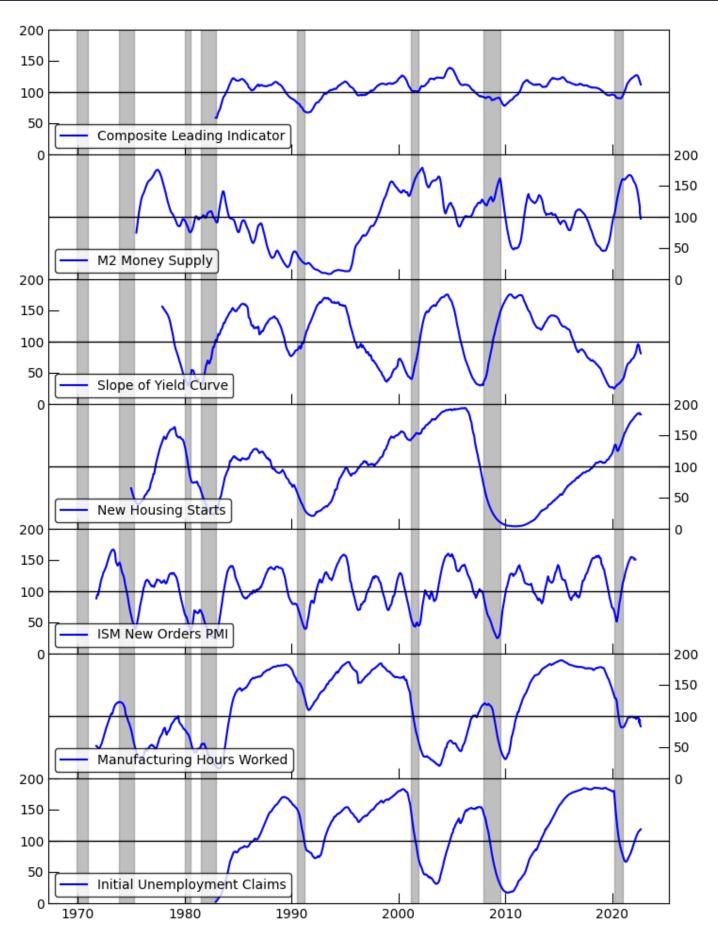


Note: Gold borders denote factors with long exposure during phase of Business Cycle. Information Ratio calculated as factor excess return to S&P 500 Index, scaled by annualized volatility. Returns sourced from period 1994-02-28 to 2022-08-31

Factor Strategy Cumulative Returns, Risk Level 1%

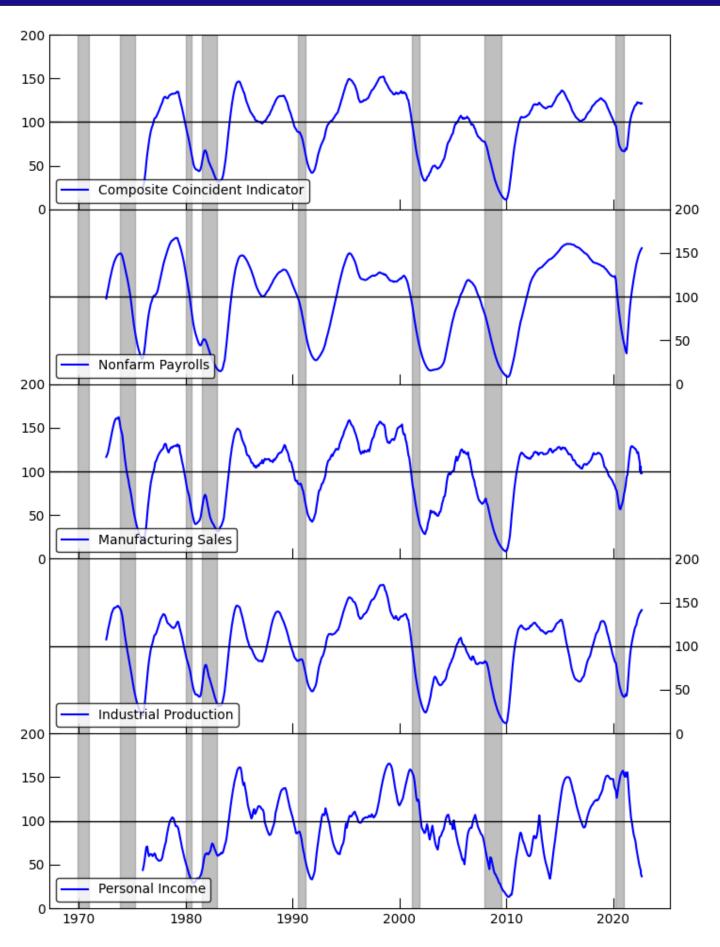


Composite Leading Indicators



Note: Shaded areas represent US recessions as indicated by NBER. Reading greater than 100 indicates expansion, less than 100 indicates contraction.

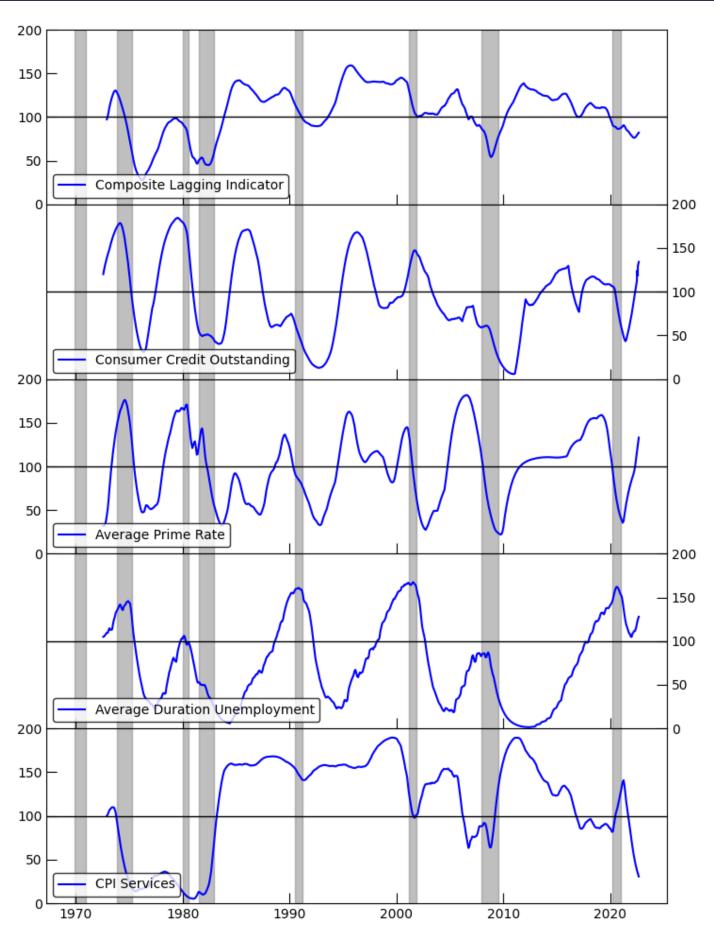
Composite Coincident Indicators



Note: Shaded areas represent US recessions as indicated by NBER. Reading greater than 100 indicates expansion, less than 100 indicates contraction.

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Composite Lagging Indicators



Note: Shaded areas represent US recessions as indicated by NBER. Reading greater than 100 indicates expansion, less than 100 indicates contraction.