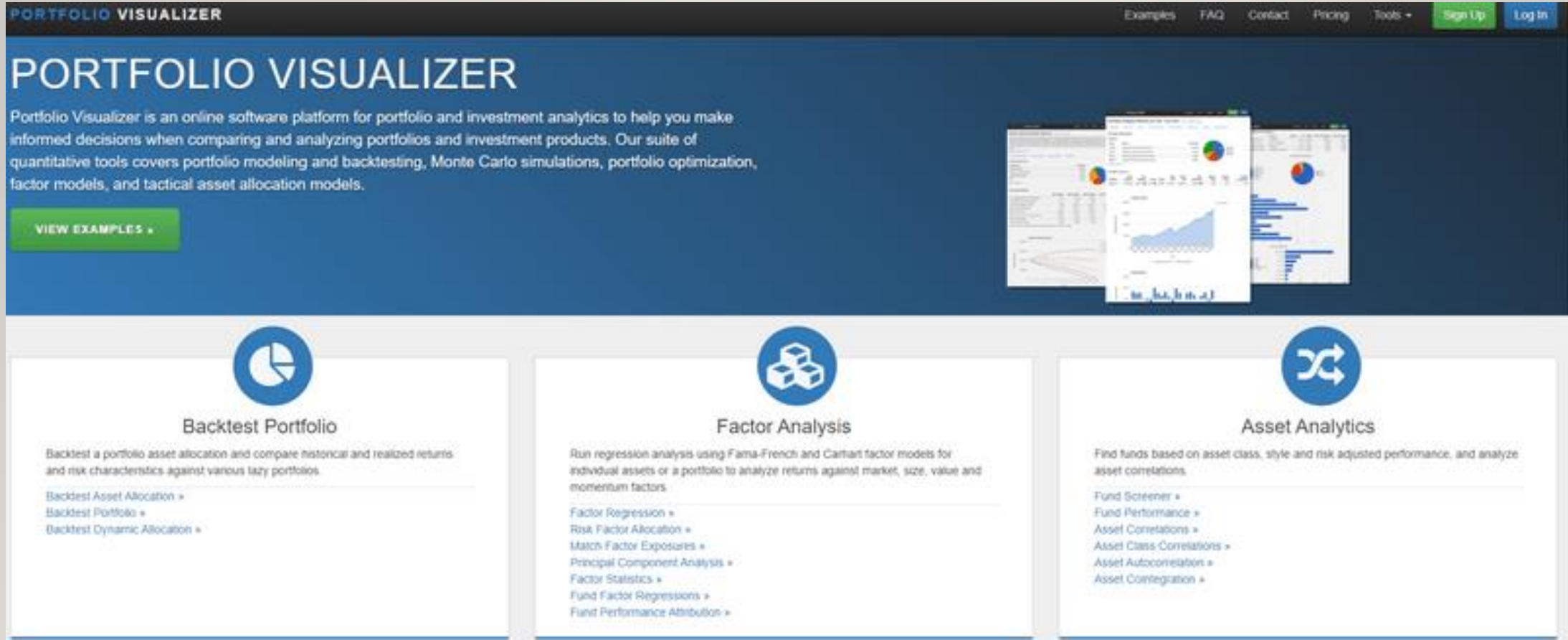


這次要介紹的調查相關係數工具是 [Portfolio Visualizer](https://www.portfoliovisualizer.com/) 的網站
<https://www.portfoliovisualizer.com/>




PORTFOLIO VISUALIZER

Examples FAQ Contact Pricing Tools [Sign Up](#) [Log In](#)

PORTFOLIO VISUALIZER

Portfolio Visualizer is an online software platform for portfolio and investment analytics to help you make informed decisions when comparing and analyzing portfolios and investment products. Our suite of quantitative tools covers portfolio modeling and backtesting, Monte Carlo simulations, portfolio optimization, factor models, and tactical asset allocation models.


[VIEW EXAMPLES >](#)



Backtest Portfolio

Backtest a portfolio asset allocation and compare historical and realized returns and risk characteristics against various lazy portfolios.


- [Backtest Asset Allocation >](#)
- [Backtest Portfolio >](#)
- [Backtest Dynamic Allocation >](#)



Factor Analysis

Run regression analysis using Fama-French and Carhart factor models for individual assets or a portfolio to analyze returns against market, size, value and momentum factors.

- [Factor Regression >](#)
- [Risk Factor Allocation >](#)
- [Match Factor Exposures >](#)
- [Principal Component Analysis >](#)
- [Factor Statistics >](#)
- [Fund Factor Regressions >](#)
- [Fund Performance Attribution >](#)



Asset Analytics

Find funds based on asset class, style and risk adjusted performance, and analyze asset correlations.

- [Fund Screener >](#)
- [Fund Performance >](#)
- [Asset Correlations >](#)
- [Asset Class Correlations >](#)
- [Asset Autocorrelation >](#)
- [Asset Correlation >](#)

步驟一:點選 Asset Correlations (資產相關係數)

PORTFOLIO VISUALIZER

Examples

FAQ

Contact

Pricing

Tools ▾

Sign Up

Log In

PORTFOLIO VISUALIZER

Portfolio Visualizer is an online software platform for portfolio and investment analytics to help you make informed decisions when comparing and analyzing portfolios and investment products. Our suite of quantitative tools covers portfolio modeling and backtesting, Monte Carlo simulations, portfolio optimization, factor models, and tactical asset allocation models.

VIEW EXAMPLES »



Backtest Portfolio

Backtest a portfolio asset allocation and compare historical and realized returns and risk characteristics against various lazy portfolios.

[Backtest Asset Allocation »](#)

[Backtest Portfolio »](#)

[Backtest Dynamic Allocation »](#)



Factor Analysis

Run regression analysis using Fama-French and Carhart factor models for individual assets or a portfolio to analyze returns against market, size, value and momentum factors.

[Factor Regression »](#)

[Risk Factor Allocation »](#)

[Match Factor Exposures »](#)

[Principal Component Analysis »](#)

[Factor Statistics »](#)

[Fund Factor Regressions »](#)

[Fund Performance Attribution »](#)



Asset Analytics

Find funds based on asset class, style and risk adjusted performance, and analyze asset correlations.

[Fund Screener »](#)

[Fund Performance »](#)

[Asset Correlations »](#)

[Asset Class Correlations »](#)

[Asset Autocorrelation »](#)

[Asset Cointegration »](#)

點這

步驟二:當點開Asset Correlations 就可以設定要查詢的資產相關係數

Asset Correlations

This asset correlation testing tool allows you to view correlations for stocks, ETFs and mutual funds for the given time period. You also view the rolling correlation for a given number of trading days to see how can also [view correlation matrix for common asset class ETFs](#) or test assets for [autocorrelation](#) and [cointegration](#).

| | | | |
|---|--|---------------------------------------|----------------------------------|
| Tickers ⓘ | <input type="text" value="Ticker symbols..."/> | <input type="button" value="Q"/> | <input type="button" value="⚙"/> |
| Start Date ⓘ | <input type="text" value="MM/DD/YYYY (optional)"/> | <input type="button" value="📅"/> | |
| End Date ⓘ | <input type="text" value="MM/DD/YYYY (optional)"/> | <input type="button" value="📅"/> | |
| Correlation Basis ⓘ | <input type="text" value="Monthly Returns"/> | | |
| Rolling Correlation ⓘ | <input type="text" value="36 Months"/> | | |
| <input type="button" value="View Correlation"/> | | <input type="button" value="Cancel"/> | |

每個欄位的意思是

- Tickers : 股票代號，輸入想要測試的代碼
- Start Date : 要開始測試的日期
- End Date : 結束測試的日期

如果Start Date和End Date都不設定，系統會抓最長時間的歷史數據

- Correlation Basis : 相關基礎，選擇計算的收益週期
- Rolling Correlation : 滾動相關，選擇計算交易的數字

步驟三:我們以SPY和QQQ兩檔ETF來測試看看其相關係數，輸入完按下 view Correlation

Asset Correlations

This asset correlation testing tool allows you to view correlations for stocks, ETFs and mutual funds for the given time period. You also view the rolling correlation for a given number of trading days to see... You can also [view correlation matrix for common asset class ETFs](#) or test assets for [autocorrelation](#) and [cointegration](#).

Tickers ⓘ SPY QQQ 🔍 ⚙️

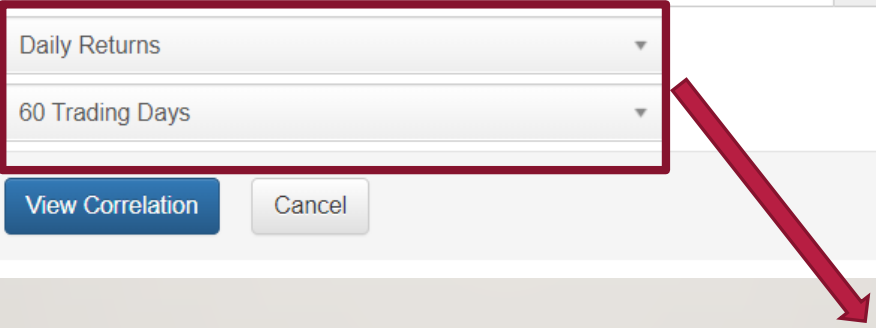
Start Date ⓘ MM/DD/YYYY (optional) 📅

End Date ⓘ MM/DD/YYYY (optional) 📅

Correlation Basis ⓘ Daily Returns ▼

Rolling Correlation ⓘ 60 Trading Days ▼

View Correlation **Cancel**



SPY: 標普500指數ETF
QQQ: 納斯達克100指數ETF

Correlation Basis : 相關基礎，有分成日、月、年來計算(此次選日)
Rolling Correlation : 滾動相關，基本上選甚麼差異不大
以上係數可以自行選擇嘗試看看

步驟四:可以看到SPY和QQQ的相關係數為0.84

| Name | Ticker | SPY | QQQ | Annualized Return |
|------------------------|--------|------|------|-------------------|
| SPDR S&P 500 ETF Trust | SPY | - | 0.84 | 6.46% |
| Invesco QQQ Trust | QQQ | 0.84 | - | 8.77% |

投資SPY獲得6.46%年化報酬，投資QQQ獲得8.77%年化報酬。代表兩個投資組合是有高度相關的

模擬示範的投資組合(以上不是投資建議，投資有風險請自行評估)

- XLK: SPDR科技類股ETF
- XLP: SPDR必需性消費類股ETF
- INDA: iShares MSCI印度ETF
- TLT: iShares 20年期以上美國公債ETF
- GLD: SPDR黃金ET

| Name | Ticker | XLK | XLP | INDA | GLD | TLT | Annualized Return |
|---|--------|-------|-------|-------|-------|-------|-------------------|
| Technology Select Sector SPDR ETF | XLK | - | 0.69 | 0.58 | -0.00 | -0.37 | 19.87% |
| Consumer Staples Select Sector SPDR ETF | XLP | 0.69 | - | 0.52 | 0.04 | -0.27 | 11.20% |
| iShares MSCI India ETF | INDA | 0.58 | 0.52 | - | 0.08 | -0.23 | 3.34% |
| SPDR Gold Shares | GLD | -0.00 | 0.04 | 0.08 | - | 0.26 | 0.68% |
| iShares 20+ Year Treasury Bond ETF | TLT | -0.37 | -0.27 | -0.23 | 0.26 | - | 6.44% |

資產相關係數正相關的都在0.7以下
還有黃金ETF係數為0，債券ETF係數為-0.37
這樣的投資組合能有效降低資產波動

結論分享

這只是針對資產相關係數的關聯性來選定投資組合
在實際中的投資還需要考量許多因素

- 1.個人承受風險的程度
- 2.投資時間的年限
- 3.採取什麼投資策略
- 4.當下經濟的情勢

追蹤Sam

FB粉絲團-[Sam投資趨勢](#)不定時分享投資理財相關資訊

FB社團-[美股投資全攻略](#)-個股價值投資、ETF投資全世界、資產配置資訊交流

IG帳號-[Sam投資趨勢](#)每天獲得一則理財知識X自我成長的內容喔

Telegram-[Sam斜槓人生研究室](#)最新消息推撥

如果想要學習如何正確投資理財，目前Sam正在籌備《零基礎美股投資全攻略》線上課程，從零開始手把手教你懶人理財輕鬆投資全世界，讓新手實際開始投資並有良好的資產配置

課程還在籌備中，想要有最新消息獲得超早鳥優惠價可以先加入等候名單=> [《零基礎美股投資全攻略等候處》](#)