

EXCHANGE TRADED FUNDS

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ETF

- a type of investment fund
- combine characteristics of both stocks and mutual funds
- traded on stock exchanges
- the first ETF, SPDR S&P 500 (SPY), launched in 1993 by State Street Global Advisors

FEATURES

ETFs pool money from multiple investors to invest in a diversified portfolio of assets like stocks, bonds, or commodities.

Traded on exchanges throughout the trading day at market prices, unlike mutual funds that are priced at the end of the day.

Diversification – ETFs offer exposure to a range of securities within a single investment, reducing individual stock risk.

Liquidity – they can be bought or sold at any time during market hours, providing liquidity to investors.

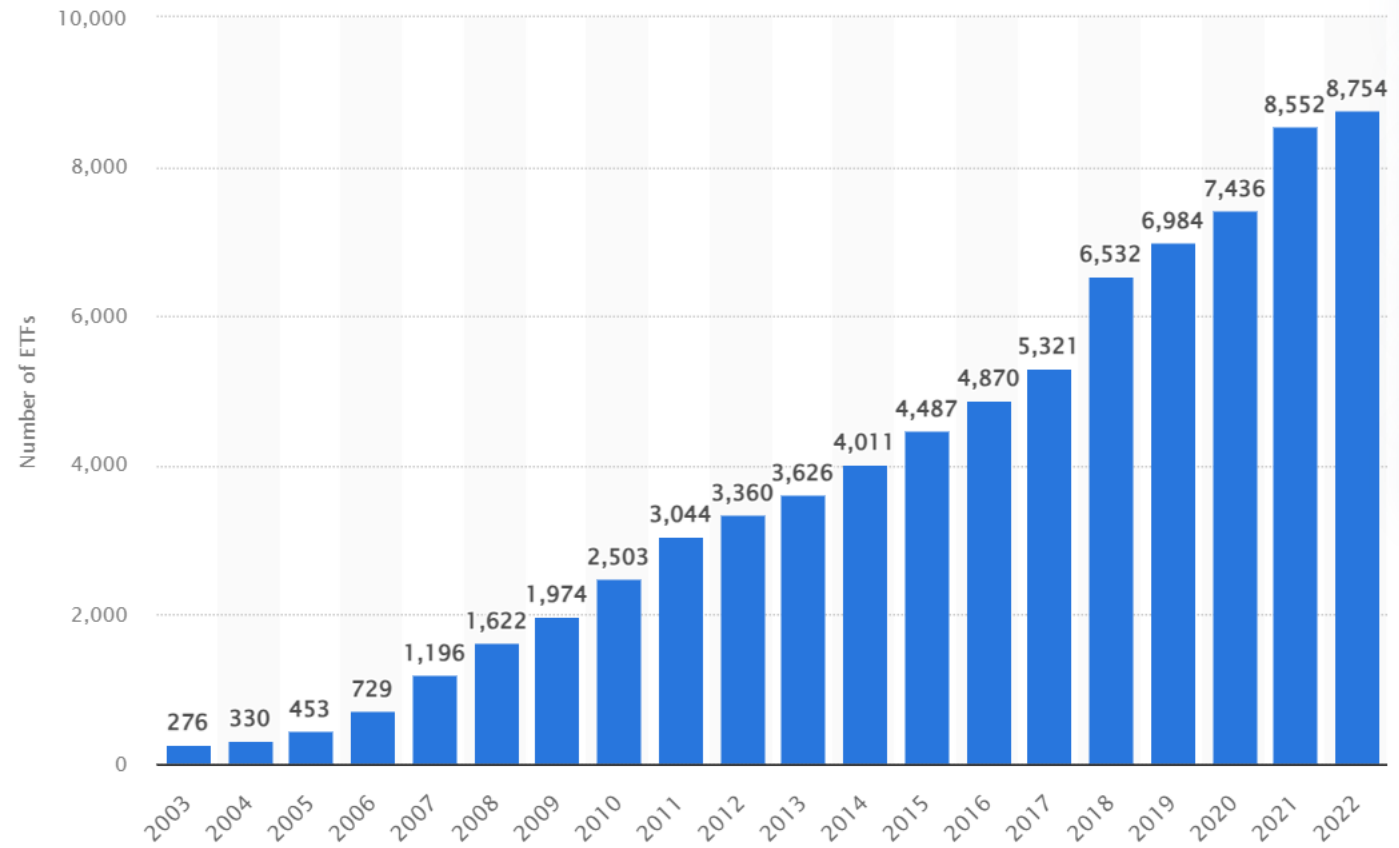
Transparency - holdings disclosed regularly, allowing investors to see the fund's underlying assets.

Comparing Mutual Funds and ETFs

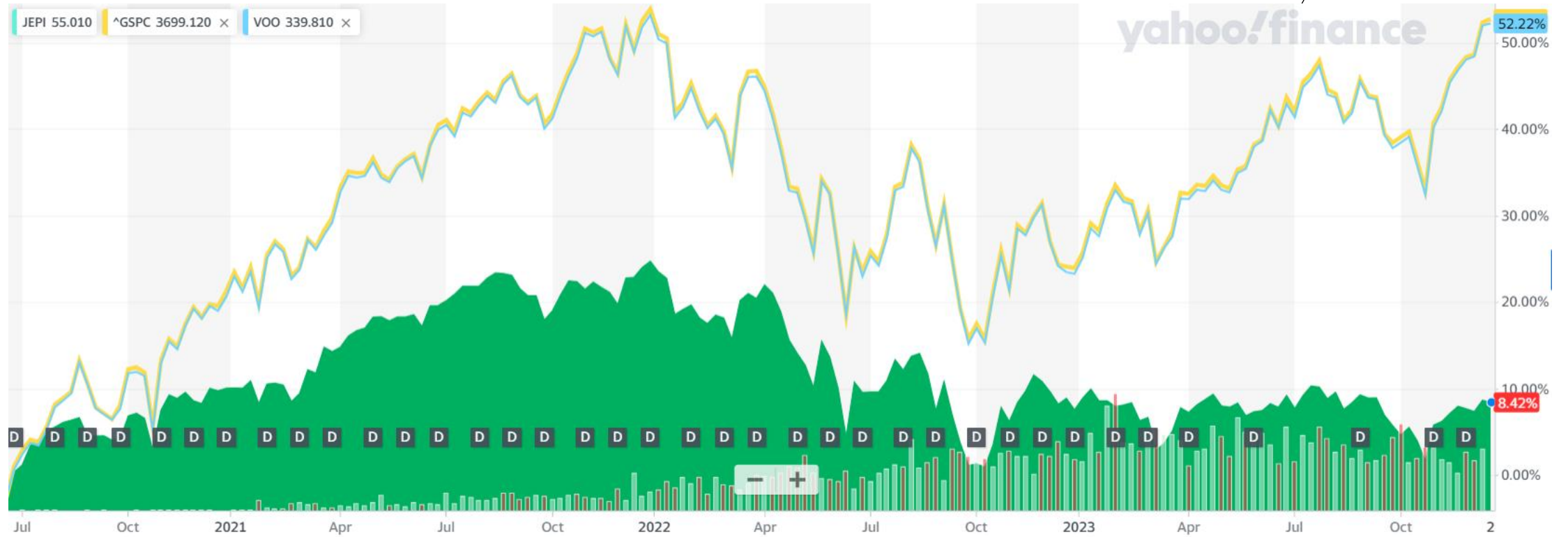
Aspect	Mutual Funds	ETFs
Trading	Traded once per day	Traded on exchanges throughout the day like stocks
Investment Method	Shares bought/sold from/to fund company	Bought/sold on exchanges between investors
Minimum Investment	Often have minimum investment requirements	Generally, no minimum investment requirement
Expense Ratios	Expense ratios vary, some may be higher	Generally have lower expense ratios
Tax Efficiency	May distribute capital gains to investors	Typically more tax-efficient due to structure
Liquidity	Liquidity depends on the fund's structure	High liquidity, traded on stock exchanges

Mutual funds and ETFs can both be actively or passively managed (ANT-ETFs)

Number of ETFs worldwide from 2003 to 2022



Actively managed ETF – (NYSE: JEPI)



To be or not to be (actively investing)

<u>Year</u>	<u>Fund of Funds A</u>	<u>Fund of Funds B</u>	<u>Fund of Funds C</u>	<u>Fund of Funds D</u>	<u>Fund of Funds E</u>	<u>S&P Index Fund</u>
2008	-16.5%	-22.3%	-21.3%	-29.3%	-30.1%	-37.0%
2009	11.3%	14.5%	21.4%	16.5%	16.8%	26.6%
2010	5.9%	6.8%	13.3%	4.9%	11.9%	15.1%
2011	-6.3%	-1.3%	5.9%	-6.3%	-2.8%	2.1%
2012	3.4%	9.6%	5.7%	6.2%	9.1%	16.0%
2013	10.5%	15.2%	8.8%	14.2%	14.4%	32.3%
2014	4.7%	4.0%	18.9%	0.7%	-2.1%	13.6%
2015	1.6%	2.5%	5.4%	1.4%	-5.0%	1.4%
2016	-2.9%	1.7%	-1.4%	2.5%	4.4%	11.9%
Gain to Date	8.7%	28.3%	62.8%	2.9%	7.5%	85.4%

“For all intents and purposes, the game is over. I lost.”
- Protégé co-founder Ted Seides

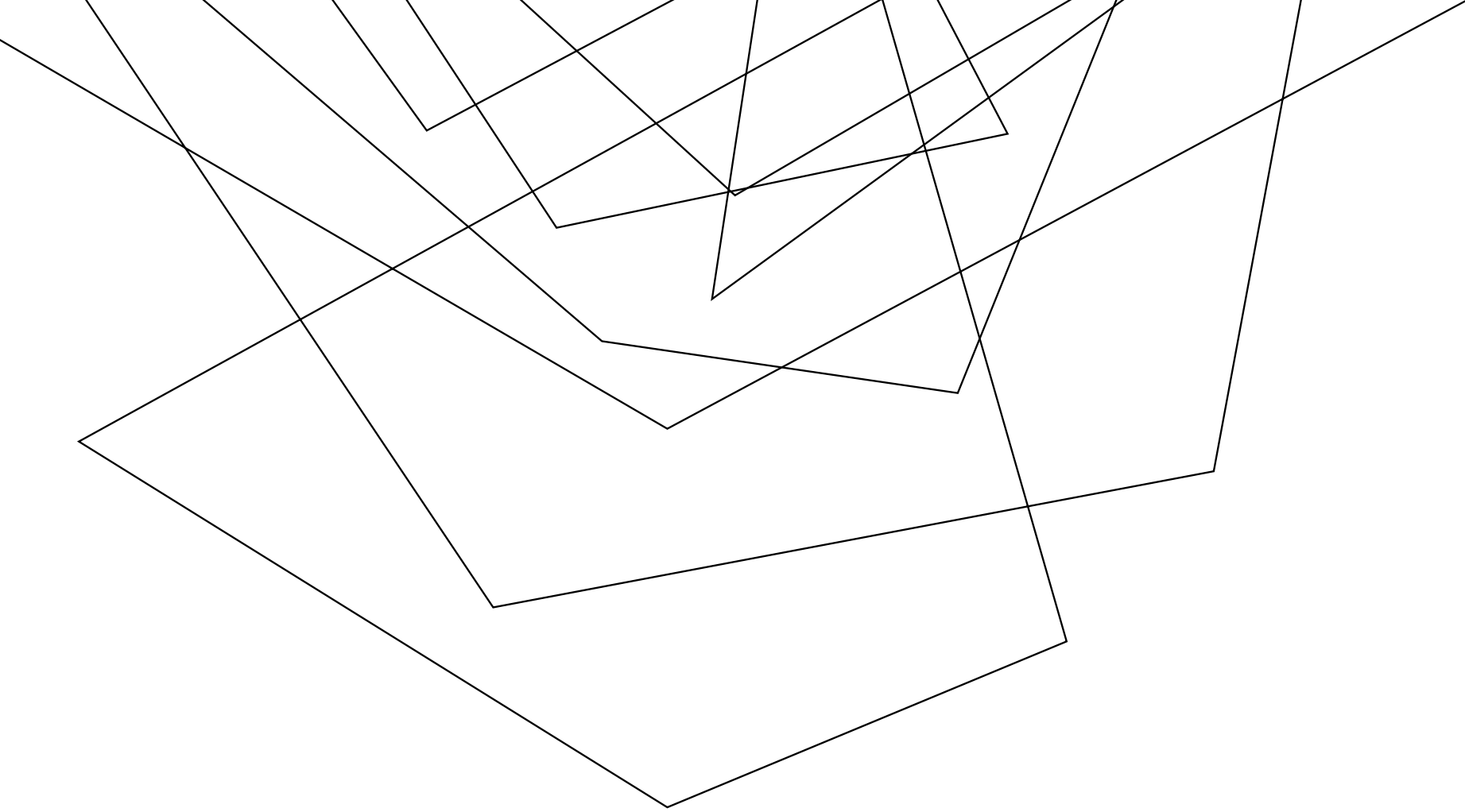


S&P500, VOO and SPY



VOO	
Beta (5Y Monthly)	1.00
Expense Ratio	0.14%

SPY	
Beta (5Y Monthly)	1.00
Expense Ratio	0.09%



THANK YOU FOR THE ATTENTION.