

Quarterly Market Review First Quarter 2021





Quarterly Market Review

First Quarter 2021

This report features world capital market performance and a timeline of events for the past quarter. It begins with a global overview, then features the returns of stock and bond asset classes in the US and international markets.

The report also illustrates the impact of globally diversified portfolios and features a quarterly topic.

Overview:

Market Summary World Stock Market Performance World Asset Classes US Stocks International Developed Stocks **Emerging Markets Stocks** Select Market Performance Select Currency Performance vs. US Dollar Real Estate Investment Trusts (REITs) Commodities Fixed Income Global Fixed Income Impact of Diversification YOLO, Meme, and EMH: What's Your Investment Style?



Quarterly Market Summary

Index Returns

	US Stock Market	International Developed Stocks	Emerging Markets Stocks	Global Real Estate	US Bond Market	Global Bond Market ex US
1Q 2021	STOCKS				BO	NDS
	6.35%	4.04%	2.29%	6.22%	-3.37%	-1.90%
Since Jan. 2001						
Avg. Quarterly Return	2.4%	1.6%	3.0%	2.5%	1.1%	1.1%
Best	22.0%	25.9%	34.7%	32.3%	4.6%	4.6%
Quarter	2020 Q2	2009 Q2	2009 Q2	2009 Q3	2001 Q3	2008 Q4
Worst	-22.8%	-23.3%	-27.6%	-36.1%	-3.4%	-2.7%
Quarter	2008 Q4	2020 Q1	2008 Q4	2008 Q4	2021 Q1	2015 Q2

Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect the expenses associated with the management of an actual portfolio. Market segment (index representation) as follows: US Stock Market (Russell 3000 Index), International Developed Stocks (MSCI World ex USA Index [net div.]), Emerging Markets (MSCI Emerging Markets Index [net div.]), Global Real Estate (S&P Global REIT Index [net div.]), US Bond Market (Bloomberg Barclays US Aggregate Bond Index), and Global Bond Market ex US (Bloomberg Barclays Global Aggregate ex-USD Bond Index [hedged to USD]). S&P data © 2021 S&P Dow Jones Indices LLC, a division of S&P Global. All rights reserved. Frank Russell Company is the source and owner of the trademarks, service marks, and copyrights related to the Russell Indexes. MSCI data © MSCI 2021, all rights reserved. Bloomberg Barclays data provided by Bloomberg.



Long-Term Market Summary

Index Returns as of March 31, 2021

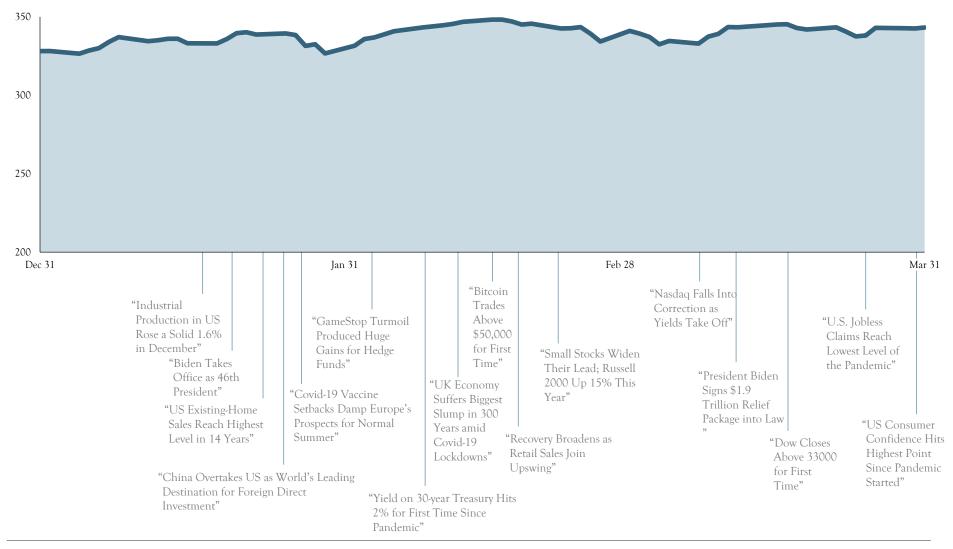


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World Stock Market Performance

MSCI All Country World Index with selected headlines from Q1 2021

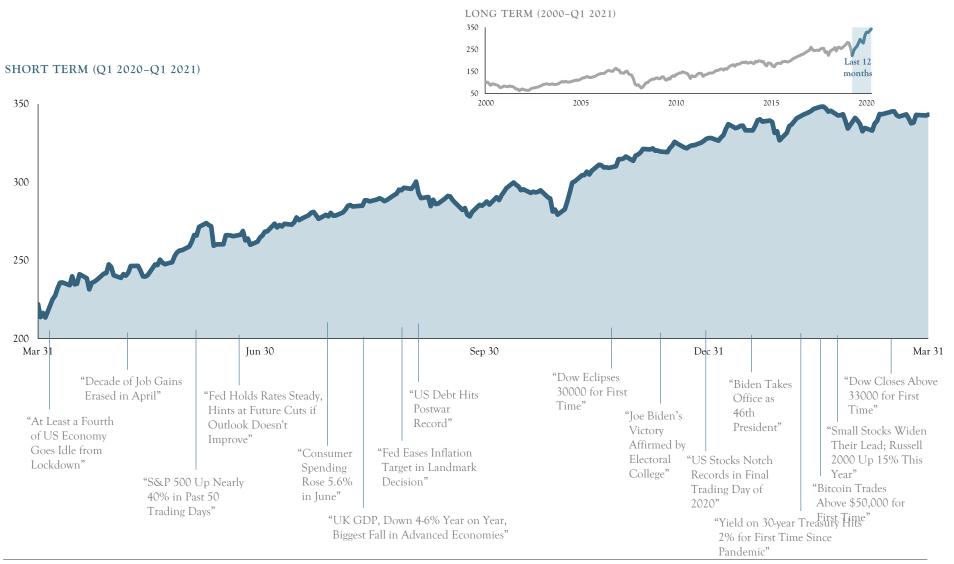


These headlines are not offered to explain market returns. Instead, they serve as a reminder that investors should view daily events from a long-term perspective and avoid making investment decisions based solely on the news.



World Stock Market Performance

MSCI All Country World Index with selected headlines from past 12 months



These headlines are not offered to explain market returns. Instead, they serve as a reminder that investors should view daily events from a long-term perspective and avoid making investment decisions based solely on the news.

Graph Source: MSCI ACWI Index [net div.]. MSCI data © MSCI 2021, all rights reserved.

It is not possible to invest directly in an index. Performance does not reflect the expenses associated with management of an actual portfolio. Past performance is not a guarantee of future results.



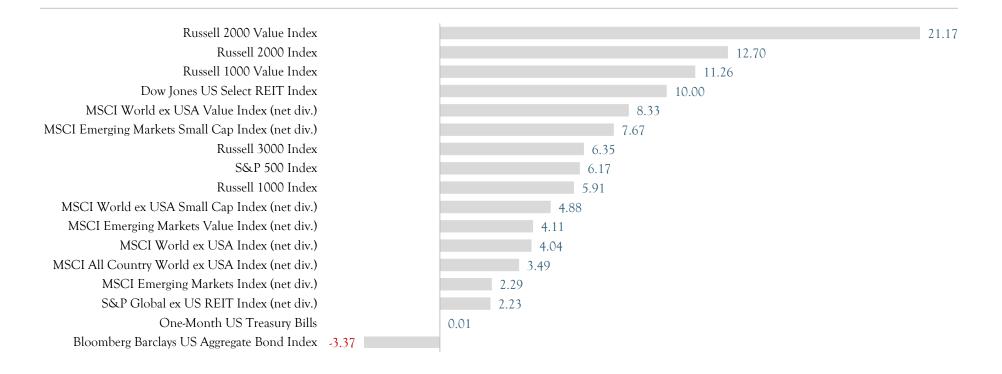
World Asset Classes

First Quarter 2021 Index Returns (%)

Equity markets around the globe posted positive returns in the first quarter. Looking at broad market indices, US and non-US developed markets outperformed emerging markets.

Value outperformed growth across regions. Small caps outperformed large caps across regions as well.

REIT indices outperformed equity market indices in the US and underperformed in non-US developed markets.



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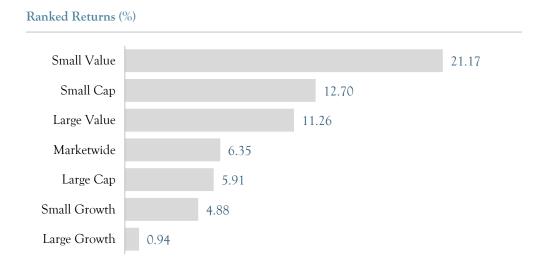
US Stocks First Quarter 2021 Index Returns

The US equity market posted positive returns for the quarter and outperformed non-US developed markets and emerging markets.

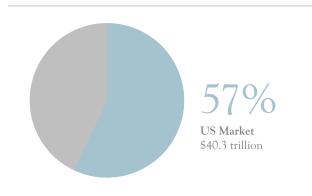
Value outperformed growth across large and small cap stocks.

Small caps outperformed large caps.

REIT indices outperformed equity market indices.



World Market Capitalization–US



Period Returns (%)

* Annualized Asset Class YTD 1 Year 3 Years* 5 Years* 10 Years* Small Value 97.05 13.56 10.06 21.17 11.57 Small Cap 12.70 94.85 16.35 14.76 11.68 Large Value 56.09 10.96 10.99 11.26 11.74 Marketwide 13.79 6.35 62.53 17.12 16.64 Large Cap 5.91 60.59 17.31 16.66 13.97 Small Growth 4.88 90.20 17.16 18.61 13.02 22.80 Large Growth 0.94 62.74 21.05 16.63

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International Developed Stocks

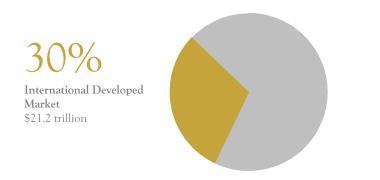
First Quarter 2021 Index Returns

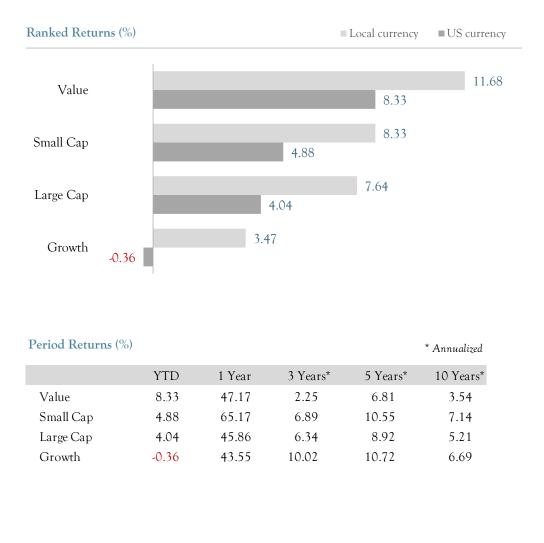
Developed markets outside the US posted positive returns for the quarter, underperforming US equities but outperforming emerging markets.

Value outperformed growth.

Small caps outperformed large caps.







Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect the expenses associated with the management of an actual portfolio. Market segment (index representation) as follows: Large Cap (MSCI World ex USA Index), Small Cap (MSCI World ex USA Small Cap Index), Value (MSCI World ex USA Value Index), and Growth (MSCI World ex USA Growth Index). All index returns are net of withholding tax on dividends. World Market Cap represented by Russell 3000 Index, MSCI World ex USA IMI Index, and MSCI Emerging Markets IMI Index. MSCI World ex USA IMI Index is used as the proxy for the International Developed market. MSCI data © MSCI 2021, all rights reserved. Frank Russell Company is the source and owner of the trademarks, service marks, and copyrights related to the Russell Indexes.



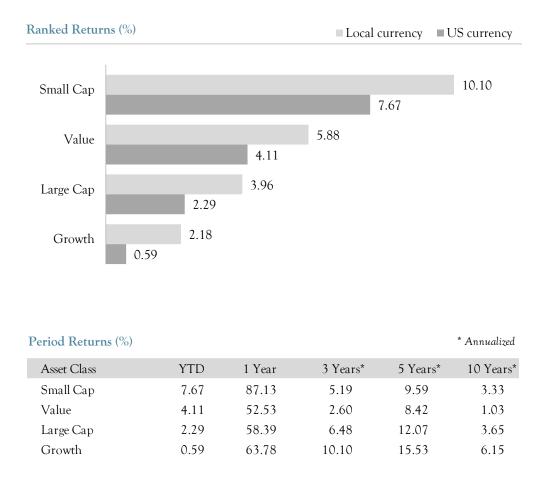
Emerging Markets Stocks

First Quarter 2021 Index Returns

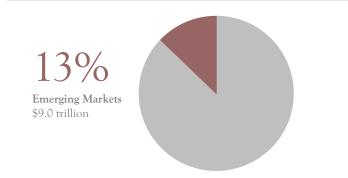
Emerging markets posted positive returns for the quarter, underperforming the US and developed ex US equity markets.

Value outperformed growth.

Small caps outperformed large caps.



World Market Capitalization-Emerging Markets



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Select Market Performance

First Quarter 2021 Index Returns

In US dollar terms, the Netherlands and Austria recorded the highest country performance in developed markets, while New Zealand and Portugal posted the lowest returns for the quarter. In emerging markets, Saudi Arabia and Chile recorded the highest country performance, while Colombia and Turkey posted the lowest performance.

Ranked Developed Markets Returns (%	5)	Ranked Emergin	ng Markets Returns (%)	
Netherlands Austria Canada Norway Hong Kong Sweden Singapore Italy Ireland US UK France Germany Australia Spain Japan Israel Finland Switzerland -1.66 Belgium -1.67 Denmark -2.46 Portugal -2.81 New Zealand -8.60	$ \begin{array}{c} 11.79\\ 9.76\\ 9.53\\ 9.28\\ 8.42\\ 8.16\\ 7.85\\ 6.77\\ 6.42\\ 6.35\\ 6.34\\ 4.36\\ 4.08\\ 3.01\\ 1.88\\ 1.87\\ 1.12\\ 0.17\\ \end{array} $	Saudi Arabia Chile UAE South Africa Taiwan Kuwait India Thailand Russia Czech Republic Pakistan Mexico Greece Qatar Korea Hungary China Egypt Malaysia Argentina Poland Indonesia Brazil Philippines Peru Turkey Colombia	-3.76 -4.40 -4.46 -6.08 -6.79 -9.48 -10.03 -10.44 -15.52 -17.09	$ \begin{array}{c} 15.76\\ 15.51\\ 13.65\\ 12.48\\ 10.69\\ 7.27\\ 6.91\\ 6.14\\ 5.97\\ 5.35\\ 5.13\\ 3.66\\ 3.57\\ 3.07\\ 1.79\\ 0.31\\ 0.00\\ \end{array} $

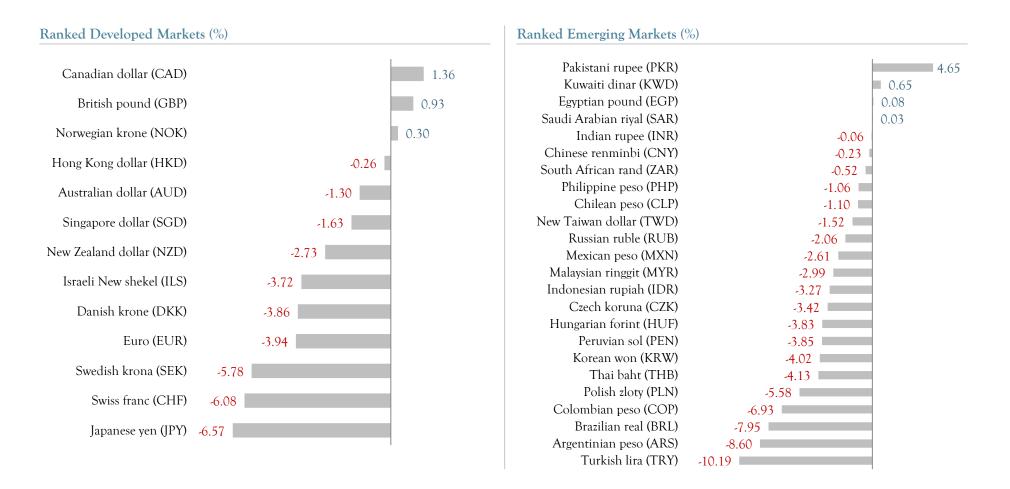
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Select Currency Performance vs. US Dollar

First Quarter 2021

In developed markets, most currencies depreciated versus the US dollar, except the Canadian dollar, British pound, and Norwegian krone. In emerging markets, most currencies depreciated versus the US dollar, but some, notably the Pakistani rupee, appreciated.



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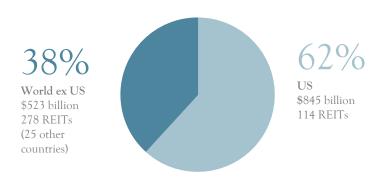
Real Estate Investment Trusts (REITs)

First Quarter 2021 Index Returns

US real estate investment trusts outperformed non-US REITs during the quarter.



Total Value of REIT Stocks



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Commodities

First Quarter 2021 Index Returns

Ranked Returns (%) Unleaded Gas 28.95 Lean Hogs 27.47 Soybean Oil 26.69 Brent Crude Oil 23.26 WTI Crude Oil 22.49 Heating Oil 20.04 Low Sulphur Gas Oil 19.12 Corn 16.91 Copper 13.51 Aluminum 10.60 Soybeans 9.72 Natural Gas 3.00 Live Cattle 2.26 Cotton 1.91 Zinc 1.82 Sugar -0.17 Soybean Meal -1.26 Nickel -3.53 Wheat -4.22 Coffee -5.29 Kansas Wheat -5.40 Silver -7.25 Gold -9.82 |

The Bloomberg Commodity Index Total Return returned 6.92% for the first quarter of 2021.

Unleaded Gas and Lean Hogs were the best performers, returning 28.95% and 27.47%, respectively.

Gold and Silver were the worst performers, declining 9.82% and 7.25%, respectively.

Period Returns (%) * Annual					
Asset Class	QTR	1 Year	3 Years*	5 Years*	10 Years*
Commodities	6.92	35.04	-0.20	2.31	-6.28

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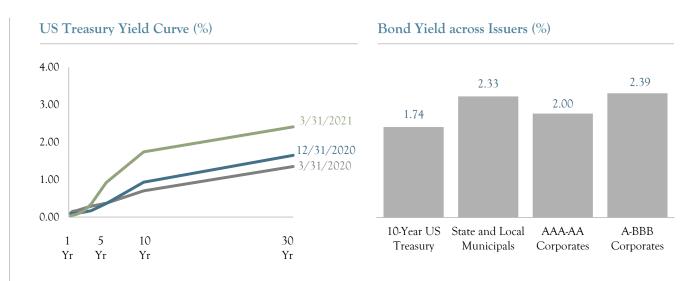
Fixed Income First Quarter 2021 Index Returns

Interest rates generally increased in the US Treasury fixed income market during the first quarter. The yield on the 5-Year US Treasury note rose 56 basis points (bps), ending at 0.95%. The yield on the 10-Year T-note increased 81 bps to 1.74%. The 30-Year Treasury bond yield increased 75 bps to 2.39%.

On the short end of the curve, the 1-Month US Treasury bill yield decreased 3 bps to 0.05%, and the 1-Year T-bill yield fell 5 bps to 0.08%. The yield on the 2-Year US Treasury note climbed 6 bps to end at 0.15%.

In terms of total returns, short-term corporate bonds declined 0.59%. Intermediate-term corporate bonds declined 2.19%.

The total return for short-term municipal bonds was flat, while intermediate-term municipal bonds lost 0.52%. Revenue bonds outperformed general obligation bonds.



Period Returns (%)

Asset Class	QTR	1 Year	3 Years*	5 Years*	10 Years*
Bloomberg Barclays US High Yield Corporate Bond Index	0.85	23.72	6.84	8.06	6.48
ICE BofA 1-Year US Treasury Note Index	0.07	0.17	2.14	1.52	0.92
ICE BofA US 3-Month Treasury Bill Index	0.03	0.12	1.49	1.19	0.63
Bloomberg Barclays Municipal Bond Index	-0.35	5.51	4.91	3.49	4.54
FTSE World Government Bond Index 1-5 Years (hedged to USD)	-0.36	0.57	2.88	2.05	1.96
Bloomberg Barclays US TIPS Index	-1.47	7.54	5.68	3.86	3.44
FTSE World Government Bond Index 1-5 Years	-2.39	3.20	1.29	1.43	0.09
Bloomberg Barclays US Aggregate Bond Index	-3.37	0.71	4.65	3.10	3.44
Bloomberg Barclays US Government Bond Index Long	-13.39	-15.60	5.84	3.17	6.30

One basis point (bps) equals 0.01%. Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect the expenses associated with the management of an actual portfolio. Yield curve data from Federal Reserve. State and local bonds are from the S&P National AMT-Free Municipal Bond Index. AAA-AA Corporates represent the Bank of America Merrill Lynch US Corporates, AA-AAA rated. A-BBB Corporates represent the ICE BofA Corporates, BBB-A rated. Bloomberg Barclays data provided by Bloomberg. US long-term bonds, bills, inflation, and fixed income factor data © Stocks, Bonds, Bills, and Inflation (SBBI) Yearbook™, Ibbotson Associates, Chicago (annually updated work by Roger G. Ibbotson and Rex A. Sinquefield). FTSE fixed income indices © 2021 FTSE Fixed Income LLC, all rights reserved. ICE BofA index data © 2021 ICE Data Indices, LLC. S&P data © 2021 S&P Dow Jones Indices LLC, a division of S&P Global. All rights reserved.



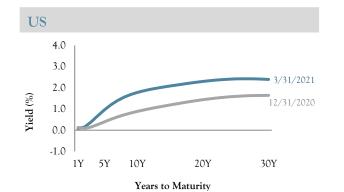
Global Fixed Income

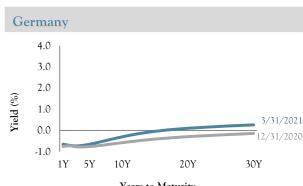
First Quarter 2021 Yield Curves

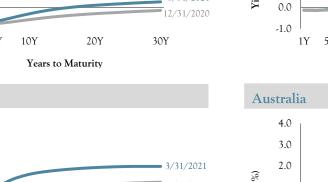
Government bond yields generally increased in the global developed markets for the quarter.

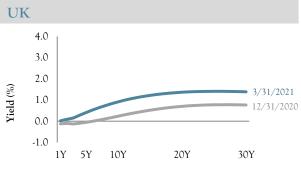
Longer-term bonds generally underperformed shorter-term bonds in developed markets.

Short- and intermediate-term nominal interest rates were negative in Japan and Germany.

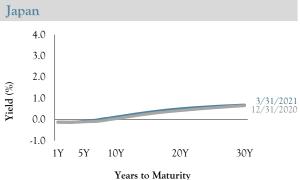








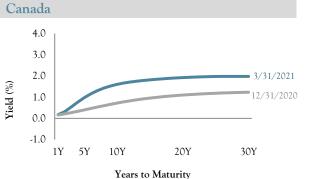
Years to Maturity





Changes in Yields (bps) since 12/31/2020

	1Y	5Y	10Y	20Y	30Y
US	-4.7	56.1	89.6	86.0	74.9
UK	13.9	46.2	67.6	66.5	62.2
Germany	10.6	10.6	27.5	39.7	40.4
Japan	-1.0	2.5	7.6	7.8	2.7
Canada	1.7	57.8	88.3	82.3	74.7
Australia	2.9	43.2	76.9	79.5	73.2



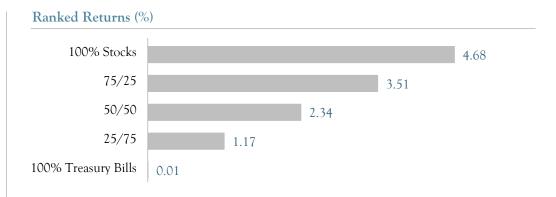


Impact of Diversification

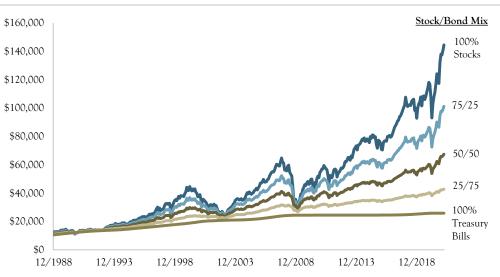
First Quarter 2021

Period Returns (%)

These portfolios illustrate the performance of different global stock/bond mixes and highlight the benefits of diversification. Mixes with larger allocations to stocks are considered riskier but have higher expected returns over time.







10-Year Asset Class YTD 1 Year 3 Years* 5 Years* 10 Years* STDEV1 100% Stocks 55.31 12.66 13.81 9.73 4.68 14.07 75/25 3.51 39.64 10.05 10.71 7.57 10.55 50/50 2.34 25.27 7.29 7.55 5.31 7.03 25/751.17 12.11 4.38 4.33 2.97 3.51 100% Treasury Bills 0.01 0.08 1.35 1.07 0.55 0.23

1. STDEV (standard deviation) is a measure of the variation or dispersion of a set of data points. Standard deviations are often used to quantify the historical return volatility of a security or portfolio. Diversification does not eliminate the risk of market loss. **Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect expenses associated with the management of an actual portfolio.** Asset allocations and the hypothetical index portfolio returns are for illustrative purposes only and do not represent actual performance. Global Stocks represented by MSCI All Country World Index (gross div.) and Treasury Bills represented by US One-Month Treasury Bills. Globally diversified allocations rebalanced monthly, no withdrawals. Data © MSCI 2021, all rights reserved. Treasury bills © Stocks, Bonds, Bills, and Inflation Yearbook™, Ibbotson Associates, Chicago (annually updated work by Roger G. Ibbotson and Rex A. Sinquefield).

* Annualized



YOLO, Meme, and EMH: What's Your Investment Style?

First Quarter 2021 Marlena Lee, PhD

Global Head of Investment Solutions

You only live once! Social media investors have banded together on unconventional platforms to drive up the prices of a handful of "meme stocks," seemingly without traditional evaluation of investing risks and rewards. They made headlines with their "short squeeze" of GameStop (GME), and, as they garner media attention, their tactics continue. While it's not the intended victim of the YOLO traders, will the efficient market hypothesis be a casualty of these events? The answer depends a lot on your definition of efficient markets. Perhaps long-term investors would be better served questioning the potential impact on their investment philosophy.

Fama (1970) defines the efficient market hypothesis (EMH) to be the simple statement that prices reflect all available information. The rub is that it doesn't say how investors should use this information. EMH is silent on the "correct" ways investors should use information and prices should be set. To be testable, EMH needs a companion model: a hypothesis for how markets and investors should behave. This leaves a lot of room for interpretation. Should asset prices be set by rational investors whose only concerns are systematic risk¹ and expected returns? It seems implausible to link recent meme-stock price movements to economic risks. Rather, they seem fueled by investor demand to be part of a social movement, hopes to strike it rich with a lucky stock pick, or plain old schadenfreude.

There is a vast ecosystem of investors, from individuals investing in their own accounts to governments and corporations who invest on behalf of thousands. Ask investors why they invest the way they do, and you'll likely get a range of goals and approaches just as diverse. It's this complex system that generates the demand for stocks. Another complex system fuels the supply of stocks. Supply and demand

meet at the market price. People may contend that the market is not always efficient, or rational, but the stock market is always in equilibrium. Every trade has two sides, with a seller for every buyer and a profit for every loss.

There are plenty of well-studied examples that show supply and demand at work. The huge increase in demand for stocks added to a well-tracked index often creates a run-up in the stock price. Some of this price increase can be temporary and reversed once the tremendous liquidity demands at index reconstitution² are met. Index reconstitution is just one example; instances of liquidity-driven price movements happen all the time. It is well documented that liquidity demands can produce temporary price movements.³ Investors may wonder if temporary price dislocations motivated by users of r/WallStreetBets differ from those caused by changes to an index. Lots of buying puts temporary upward pressure on prices, which later fall back to "fundamental value"-it sounds familiar. The more relevant observation may be that markets are complex systems well adapted to facilitate the supply and demand of numerous market participants.

There are numerous reasons people may be willing to hold different stocks at different expected returns. Can all those differences be explained by risks? Doubtful. To quote Professor Fama, "The point is not that markets are efficient. They're not. It's just a model."⁴ EMH can be a very useful model to inform how investors should behave. We believe investing as if markets are efficient is a good philosophy for building long-term wealth. Trying to outguess markets might be a quick way to destroy wealth.

^{1.} Systematic risk is the possibility of an investor experiencing losses due to factors that affect the overall performance of the financial markets in which he or she is involved.

^{2.} Reconstitution involves the re-evaluation of a market index. The process involves sorting, adding, and removing stocks to ensure that the index reflects up-to-date market capitalization and style.

^{3.} For example, see "Tesla's Charge Reveals Weak Points of Indexing" (Dimensional, 2021)

^{4. &}quot;Are markets efficient?" - Interview between Eugene Fama and Richard Thaler (June 30, 2016)



YOLO, Meme, and EMH

(continued from page 18)

It's true, you only live once. The good news is that investors can look to market prices, not internet fads, to pursue higher expected returns. Theoretical and empirical research indicate higher expected returns come from lower relative prices and higher future cash flows to investors. Long-run investors can be better served by using markets, rather than chatrooms, for information on expected returns.

Eugene Fama is a member of the Board of Directors of the general partner of, and provides consulting services to Dimensional Fund Advisors LP.

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