



Stock Market Strategies: Are You an Active or Passive Investor?

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GLOSSARY

Bonds: Certificates of indebtedness issued by a government or a publicly held corporation, promising to repay borrowed money to the lenders at a fixed rate of interest and at a specified time.

Capital gains: A profit from the sale of financial investments.

Diversification: Investment in various financial instruments in order to reduce risk.

Dividend: A share of a company's net profits paid to stockholders.

Efficient market hypothesis (EMH): The theory that the current price of a stock in a corporation reflects all relevant information about the stock's current and future earnings prospects.

Index fund: A mutual fund with the objective to match the composite investment performance of a large group of stocks or bonds such as those represented by the Standard and Poor's 500 index.

Portfolio: A list or collection of financial assets that an individual or company holds.

Stock market index: A collection of stocks chosen to represent a particular part of the market.

Stock mutual fund: A mutual fund that buys stocks in order to make profits for the investors.

Transaction costs: The costs associated with buying or selling a good, service, or financial asset.

Volatile: Likely to change in a sudden or extreme way.

"October. This is one of the peculiarly dangerous months to speculate in stocks. The others are July, January, September, April, November, May, March, June, December, August, and February."

—Mark Twain, *Pudd'nhead Wilson*

If you ever ask an economist which stocks to buy, chances are you won't get a specific answer. Instead, you might hear about the "efficiencies" of markets.¹ In fact, there's an old economics joke about market efficiency: Two economists walk down a sidewalk—one is older and wiser and the other is younger and less experienced. The younger economist says, "Look a \$20 bill" and bends down to snatch it. The older economist says, "Don't bother! It can't be real or someone would have already picked it up."

The joke is meant to exaggerate the belief held by many economists that markets quickly adjust to new information. Financial markets are said to be "efficient" if they leave no "money on the table" for very long. If there's an opportunity to make a profit, buyers and sellers will swoop in and take it. Hence the joke—a \$20 bill left on the street for any length of time might not be a real \$20 bill at all.

Making Money in the Stock Market

Savers have many investment options to choose from. Investing in stocks has risks, but over time, the stock market tends to have higher average returns than other popular investment options (see the boxed insert "Stock Market Returns Over Time"). Investors earn money on their stock purchases through dividends and capital gains. **Dividends** are shares of a company's net profits paid to stockholders. Dividends are often paid quarterly and are commonly associated with established, profitable companies. **Capital gains** are the profit from the sale of a financial investment—for example, when a stock is sold for more than the original purchase price.

Every investor hopes to earn high returns—dividends plus capital gains—while minimizing risk. An effective way to minimize the risk of investing in stocks (a relatively risky financial asset) is to diversify. **Diversification** means to invest in various financial instruments—not just a specific one.

Stock Market Returns Over Time

Historically, average returns for stocks (as indicated by the S&P 500) have been higher than for other investment options, such as government **bonds** (e.g., 3-month Treasury bills [T-Bills] and 10-year Treasury bonds [T-Bonds]).

	Years	S&P 500	3-Month T-bills	10-Year T-bonds
Since 1928	1928-2015	9.50%	3.45%	4.96%
Last 50 years	1966-2015	9.61%	4.92%	6.71%
Last 10 years	2006-2015	7.25%	1.14%	4.71%

NOTE: Data are geometric averages.

SOURCE: Damodaran, Aswath. "Annual Returns on Stock, T.Bonds, and T.Bills: 1928–Current." New York University Stern School of Business, January 5, 2016; http://pages.stern.nyu.edu/~adamodar/New_Home_Page/datafile/histretSP.html. FRED® (Federal Reserve Economic Data), Federal Reserve Bank of St. Louis.

So a diversified stock **portfolio** could include stock purchases across industries, company size, and even geography. Diversification reduces risk because it is unlikely that all the stocks in a portfolio will react the same way to market events. For example, if you invest all of your money in the stock of a single company that owns several beach resorts along the Gulf of Mexico, a severe hurricane could devastate your portfolio. In other words, don't put all your eggs in one basket.

One financial instrument designed to provide investors with diversification is a mutual fund. A **stock mutual fund** is an investment product that pools the money of many investors to purchase a variety of stocks to make a profit for the investors. Most investors simply don't have the time or money to create and manage such a fund on their own, so mutual funds offer a cost-effective way to diversify. A variety of stock mutual funds are available based on different investment strategies (e.g., growth funds or value funds—see the boxed insert "Stock Fund Investment Strategies") and management strategies (active or passive).

Investment Management Strategies: Active and Passive

The active management investment strategy relies on a staff of highly paid analysts to build a portfolio of stocks. The goal is to earn high returns that "beat" (outperform) the stock market.² Such analysts use research, forecasts, and judgment to recommend whether to buy, hold, or

Stock Fund Investment Strategies

Growth fund managers focus on investing in companies expected to have faster-than-average growth—and higher-than-average returns. These companies tend to be riskier than average.

Value fund managers focus on investing in companies with stock prices that suggest they are undervalued. These companies tend to be mature companies that pay dividends and are less **volatile** than companies selected for growth funds.

sell the given stocks. Analysts are always on the lookout for the best values or companies with strong growth prospects. Active investing relies on differentiating between a stock's value and the market price. Warren Buffett—often called the most successful investor in the world—says, "price is what you pay; value is what you get." A stock's value is based on projected future earnings and growth prospects for the company. If a stock is determined to be undervalued—that is, believed to have a greater value than indicated by its market price—managers will buy it for their mutual fund. When the stock price rises above its value, they will sell it and earn capital gains for investors. Fund managers might also sell stocks in the portfolio that are predicted to underperform the market. This buying and selling accrues **transaction costs** (which reduce net gains). The most successful mutual funds are those that consistently outperform average stock market returns.

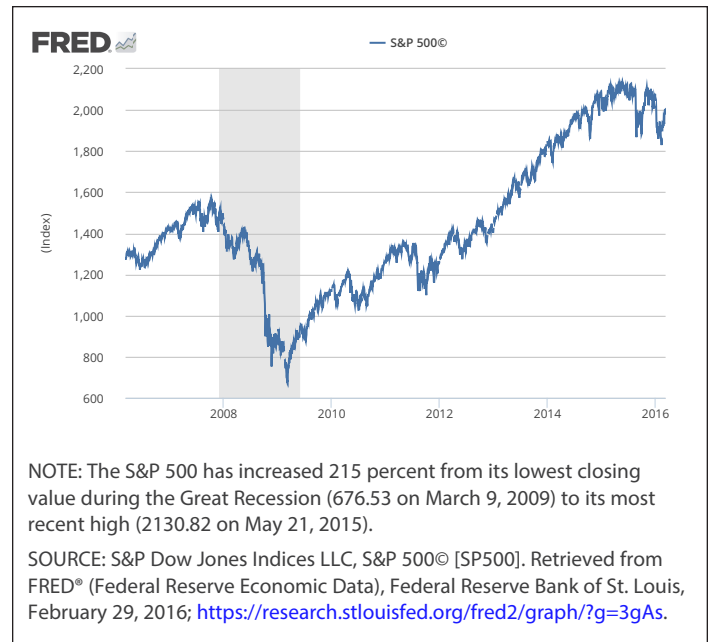
The passive management investment strategy is based on the **efficient market hypothesis (EMH)**, which states that a stock's current price reflects all relevant information about its current and future earnings. How is this possible? Stock prices change when information about the company (or the economy) changes. Imagine you hear the reporter on your favorite stock market news channel announce Chatport Technologies³ has just received a patent on a revolutionary new product. You consider buying Chatport stock because you predict the new product will reap huge profits for the company and its shareholders. Just as the reporter says the words "received a patent," the graph on the screen shows the stock price has increased 10 percent. As it turns out, you were not the only investor who, upon hearing the news about Chatport, decided the stock was undervalued and is willing to pay a higher price for the company's stock.

When news indicates a stock is undervalued, market participants respond by buying the stock, bidding its price up to its fair value. When new information indicates a stock is overvalued, investors quickly sell, putting downward pressure on the stock price, moving it back to its fair value. The EMH says that new information about a stock is "priced in" almost instantly—raising or lowering its price. For this reason, the EMH says the market price is the best reflection of a stock's value based on current, available information. And, if prices reflect all available information, EMH suggests that the best strategy is to buy and hold a diversified portfolio and to minimize investment costs.

The passive strategy holds that the stock market is so efficient that active managers will not consistently beat the market because they will not be able to consistently pick undervalued stocks. And the extra research and transaction costs involved with actively managed mutual funds (which are passed on to investors) will offset gains. Although some actively managed mutual funds do outperform the market, data consistently show that a majority of them fail to outperform market averages reported by various indexes (such as the Dow Jones Industrial Average, Standard and Poor's (S&P) 500, and Wilshire 5000).⁴

Application of EMH: Index Funds

One type of mutual fund that follows a passive management strategy is an **index fund**. The goal of an index



fund is to "replicate the market," by simply buying the stocks included in a **stock market index**, such as the S&P 500 index. For example, for a given index fund, if Chatport Technologies were to represent 1 percent of the value of the S&P 500 index, the index fund manager would invest 1 percent of the mutual fund's assets in Chatport stock.⁵ The S&P 500 index includes 500 of the largest publicly held companies in the United States, which means that mutual funds that replicate the S&P 500 index hold a diversified blend of large company stocks. An advantage of index funds is generally lower investment costs: Rather than paying the research and transaction costs of active management, index fund managers simply buy and hold the stocks on a given index. Some research estimates that passive investment strategies save U.S. investors around \$100 billion annually⁶—one of the reasons economists tend to favor index funds over picking individual stocks.⁷

Conclusion

Investors who choose to invest in stocks through a mutual fund have a decision to make. Do they prefer an active or passive management strategy? Mutual funds that use an active management strategy rely on the research skills of analysts to differentiate between a stock's value and its market price. Index funds, which use a passive management strategy, rely on the efficiency of the stock

market to price stocks at fair value. Both types of mutual funds provide investors with diversified portfolios of stocks. In the end, the choice is up to individual investors: Do they believe analysts can outperform average stock market returns by finding value others have missed or that the stock market is efficient and leaves no money on the table? ■

Notes

¹ Mankiw, N. Gregory. "What Stocks to Buy? Hey, Mom, Don't Ask Me." *New York Times*, May 18, 2013; http://www.nytimes.com/2013/05/19/business/for-stock-picking-advice-dont-ask-an-economist.html?_r=0.

² To "beat" the market means the portfolio earns a higher return than the market average or another appropriate measure of stock market performance. For example, a mutual fund focused on large U.S. companies will measure their success by their ability to outperform the S&P 500 index.

³ Chatport Technologies is a fictitious company.

⁴ Soe, Aye M. "SPIVA® U.S. Scorecard." S&P Dow Jones Indices, McGraw Hill Financial, Year-End 2014; <http://www.spindices.com/documents/spiva/spiva-us-year-end-2014.pdf>.

⁵ Index fund managers use different methods to replicate the returns of a particular market index. With the replication method, they buy all the stocks in a particular index in the proportions they exist in that index (as described in the text). With the sampling method, they buy a representative sample of stocks in a particular index that attempts to reflect that index.

⁶ Lusardi, Annamaria and Mitchell, Olivia S. "The Economic Importance of Financial Literacy: Theory and Evidence." *Journal of Economic Literature*, 2014, 52(1), pp. 5-44; <http://test.financialbuildingblocks.com/assets/The%20Economic%20Importance%20of%20Financial%20Literacy.pdf>.

⁷ Chicago Booth, IGM Forum. "Diversification." November 20, 2013; http://www.igmchicago.org/igm-economic-experts-panel/poll-results?SurveyID=SV_6QNgG8yRbliY0t.

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Name _____ Period _____

Reading Q&A

Stock Market Strategies: Are You an Active or Passive Investor?

After reading the article, complete the following:

1. How does the return on stocks compare to other popular investment options such as T-bills and T-bonds?
 - a. Stocks generally have the same return as both T-bills and T-bonds.
 - b. Stocks generally have higher returns than T-bills and lower returns than T-bonds.
 - c. Stocks on average have a lower return than both T-bills and T-bonds.
 - d. Stocks on average have a higher return than both T-bills and T-bonds.
2. How do investors typically earn money on their stock purchases?
 - a. Through dividends and capital gains
 - b. Through government subsidies
 - c. Through interest payments
 - d. Through rental income
3. What is diversification in the context of stock investing?
 - a. Investing in several companies in the same industry
 - b. Investing in various financial instruments
 - c. Focusing only on large companies
 - d. Investing in a single stock
4. What is the goal of an index fund?
 - a. To replicate the market
 - b. To outperform the market consistently
 - c. To invest in a single industry
 - d. To provide the highest possible returns
5. According to the efficient market hypothesis (EMH), why is the stock market considered efficient?
 - a. Because it is always predictable
 - b. Because it has low returns
 - c. Because it is influenced by market trends
 - d. Because it reflects all relevant information

6. What is one advantage of index funds mentioned in the essay?
 - a. Lack of diversification
 - b. High transaction costs
 - c. Lower investment costs
 - d. Higher investment costs
7. What is the primary focus of active management in stock investing?
 - a. Minimizing risk through diversification
 - b. Building a portfolio to replicate the market
 - c. Investing in government bonds
 - d. Outperforming the stock market
8. Which of the following is true of a passive management investment strategy compared with an active management strategy?
 - a. Passive management strategies are more cost-effective in the long term.
 - b. Passive management strategies consistently outperform the market.
 - c. Active management strategies are too risky for investors.
 - d. Active management strategies have lower transaction costs.
9. What financial instrument is designed to provide investors with diversification?
 - a. Mutual funds
 - b. Government bonds
 - c. Real estate
 - d. Stock options
10. What is the key consideration in the choice between investing in an active or a passive mutual fund?
 - a. Government regulations around the mutual fund
 - b. Your belief in an analyst's ability to consistently beat the market
 - c. The size of the investment portfolio
 - d. Market unpredictability