

# Stock Basics Tutorial

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### Introduction

Wouldn't you love to be a business owner without ever having to show up at work? Imagine if you could sit back, watch your company grow, and collect the dividend checks as the money rolls in! This situation might sound like a pipe dream, but it's closer to reality than you might think.

As you've probably guessed, we're talking about owning stocks. This fabulous category of financial instruments is, without a doubt, one of the greatest tools ever invented for building wealth. Stocks are a part, if not the cornerstone, of nearly any investment portfolio. When you start on your road to financial freedom, you need to have a solid understanding of stocks and how they trade on the stock market.

Over the last few decades, the average person's interest in the stock market has grown exponentially. What was once a toy of the rich has now turned into the vehicle of choice for growing wealth. This demand coupled with advances in trading technology has opened up the markets so that nowadays nearly anybody can own stocks.

Despite their popularity, however, most people don't fully understand stocks. Much is learned from conversations around the water cooler with others who also don't know what they're talking about. Chances are you've already heard people say things like, "Bob's cousin made a killing in XYZ company, and now he's got another hot tip..." or "Watch out with stocks--you can lose your shirt in a matter of days!" So much of this

misinformation is based on a get-rich-quick mentality, which was especially prevalent during the amazing dotcom market in the late 90s. People thought that stocks were the magic answer to instant wealth with no risk. The ensuing dotcom crash proved that this is not the case. Stocks can (and do) create massive amounts of wealth, but they aren't without risks. The only solution to this is education. The key to protecting yourself in the stock market is to understand where you are putting your money.

It is for this reason that we've created this tutorial: to provide the foundation you need to make investment decisions yourself. We'll start by explaining what a stock is and the different types of stock, and then we'll talk about how they are traded, what causes prices to change, how you buy stocks, and much more.

### What Are Stocks?

### The Definition of a Stock

Plain and simple, stock is a share in the ownership of a company. Stock represents a claim on the company's <u>assets</u> and <u>earnings</u>. As you acquire more stock, your ownership stake in the company becomes greater. Whether you say <u>shares</u>, <u>equity</u>, or stock, it all means the same thing.

### Being an Owner

Holding a company's stock means that you are one of the many owners (<a href="shareholders">shareholders</a>) of a company, and, as such, you have a claim (albeit usually very small) to everything the company owns. Yes, this means that technically you own a tiny sliver of every piece of furniture, every trademark, and every contract of the company. As an owner, you are entitled to your share of the company's earnings as well as any voting rights attached to the stock.

A stock is represented by a stock certificate. This is a fancy piece of paper that is proof of your ownership. In today's computer age, you won't actually get to see this document because your brokerage keeps these records electronically, which is also known as holding shares "in street name." This is done to make the shares easier to trade. In the past when a person wanted to sell his or her shares, that person physically took the certificates down to the brokerage. Now, trading with a click of the mouse or a phone call makes life easier for everybody.



Example stock certificate (Click to enlarge)

Being a shareholder of a public company does not mean you have a say in the day-to-day running of the business. Instead, one vote per share to elect the <u>board of directors</u> at annual meetings is the extent to which you have a say in the company. For instance, being a Microsoft shareholder doesn't mean you can call up Bill Gates and tell him how you think the company should be run. In the same line of thinking, being a shareholder of Anheuser Busch doesn't mean you can walk into the factory and grab a free case of Bud Light!

The management of the company is supposed to increase the value of the firm for

shareholders. If this doesn't happen, the shareholders can vote to have the management removed--well, this is the theory anyway. In reality, individual investors like you and I don't own enough shares to have a material influence on the company. It's really the big boys like large <u>institutional</u> investors and billionaire entrepreneurs who make the decisions.

Shareholders not being able to manage the company isn't too big a deal. After all, the idea is that you don't want to have to work to make money, right? The importance of being a shareholder is that you are entitled to a portion of the company's profits and have a claim on assets. Profits are sometimes paid out in the form of dividends. The more shares you own, the larger the portion of the profits you get. Your claim on assets is only relevant if a company goes bankrupt. In case of liquidation, you'll receive what's left after all the creditors have been paid. This last point is worth repeating: the importance of stock ownership is your claim on assets and earnings. Without this, the stock wouldn't be worth the paper it's printed on.

Another extremely important feature of stock is its limited liability. This is a legal term, which means that you are not be personally liable in the case of the company not being able to pay its debts. Other companies such as <u>partners hips</u> are set up so that if the partnership goes bankrupt the creditors can come after the partners (shareholders) personally and sell of their house, car, furniture, etc. Owning stock means that, no matter what, the maximum value you can lose is the value of your investment. Even if a company of which you are a shareholder goes bankrupt, you can never lose your personal assets.

### Debt vs. Equity

Why does a company issue stock? Why would the founders share the profits with thousands of people when they could keep profits to themselves? The reason is that at some point every company needs to raise money. To do this, companies can either borrow it from somebody or raise it by selling part of the company, which is known as issuing stock. A company can borrow by taking a loan from a bank or by issuing bonds. Both methods fit under the umbrella of "debt financing." On the other hand, issuing stock is called "equity financing." Issuing stock is advantageous for the company because it does not require the company to pay back the money or make interest payments along the way. All that the shareholders get in return for their money is the hope that the shares will some day be worth more. The first sale of a stock, which is issued by the private company itself, is called the initial public offering (IPO). If you want to know more about how stocks are created, check out our IPO tutorial.

It is important that you understand the distinction between a company financing through debt and financing through equity. When you buy a debt investment such as a bond, you are guaranteed the return of your money (the principal) along with promised interest payments. This isn't the case with an equity investment. By becoming an owner, you assume the risk of the company not being successful. Just as a small business owner isn't guaranteed a return, neither is a shareholder. As an owner your claim on assets is lesser than that of creditors. This means that if a company goes bankrupt and liquidates, you, as a shareholder, don't get any money until the banks and bondholders have been paid out; we call this absolute priority. Shareholders earn a lot if a company is successful, but they also stand to lose their

entire investment if the company isn't successful.

#### Risk

It must be emphasized that there are no guarantees when it comes to individual stocks. Some companies pay out dividends, but many others do not. And there is no obligation to pay out dividends even for those firms that have traditionally given them. Without dividends an investor can make money on a stock only through its appreciation in the open market. On the downside, any stock may go bankrupt, in which case your investment is worth nothing.

Although risk might sound all negative, there is also a bright side. Taking-on greater risk demands a greater return on your investment. This is the reason why stocks have historically outperformed other investments such as bonds or savings accounts. Over the long term, an investment in stocks has historically had an average return of around 10%-12%. A great proof of the power of owning equities is General Electric. One share bought in 1928 would be worth over \$65,000 today!

# **Different Types of Stock**

There are two main types of stocks: common stock and preferred stock.

### Common Stock

Common stock is, well, common. When people talk about stocks in general they are most likely referring to this type. In fact, the majority of stock issued is in this form. We basically went over features of common stock on the last page. Common shares represents ownership in a company and a claim on a portion of profits (dividends). Investors get one vote per share to elect the board members who oversees the major decisions made by management.

Over the long term, common stock, by means of capital growth, yields higher returns than almost every other investment. This higher return comes at a cost as common stocks entail the most risk. If a company goes bankrupt and liquidates, the common shareholders will not receive money until the creditors, bondholders, and preferred shareholders are paid.

#### **Preferred Stock**

Preferred stock represents some degree of ownership in a company but usually doesn't have the same voting rights (this may vary depending on the company). On preferred shares, investors are usually guaranteed a fixed dividend forever. This is different than common stock that has variable dividends that are never guaranteed. Another advantage is in the event of liquidation preferred shareholders are paid off before the common shareholder (but still after debt holders). Preferred stock may also be callable, meaning that the company has the option to purchase the shares from shareholders at anytime for any reason (usually for a premium).

Some people consider preferred to be more like debt than equity. A good way to think of these shares is in-between bonds and common shares. (If you don't understand bonds make sure to check out our bond tutorial as well).

#### **Different Classes of Stock**

Common and preferred are the two main forms of stock. However, it's also possible for companies to customize different classes of stock in any way they want. The most common reason for this is when a company wants voting power to remain with a certain group. Hence, different classes of shares are given different voting rights. For example, one class of shares would be held by a select group and given 10 votes per share while a second class would be issued to the majority of investors with 1 vote per share.

When there is more than one class of stock, the classes are traditionally designated as Class A and Class B. Berkshire Hathaway (ticker: BRK), the company of Warren Buffett (one of the greatest investors of all time), has two classes of stock. The different forms are represented by placing the letter behind the ticker symbol in a form like: "BRKa, BRKb" or "BRK,A, BRK,B",

# **How Stocks Trade**

Most stocks are traded on exchanges, which are places where buyers and sellers meet and decide on a price. Some exchanges are physical locations where transactions are carried out on a trading floor. You've probably seen pictures of this where traders are wildly throwing their arms up, waving, yelling, and signaling to each other. The other type of exchange is virtual, composed of a network of computers where trades are made electronically.

The purpose of a stock market is to facilitate the exchange of securities between buyers and sellers, thus, reducing the risks of investing. Just imagine how difficult it would be to sell shares if you had to call around the neighborhood trying to find a buyer. Really, a stock market is nothing more than a super-sophisticated farmers market linking buyers and sellers.

# The New York Stock Exchange

The most prestigious exchange in the world is the New York Stock Exchange (NYSE). The "Big Board" was founded over 200 years ago with the signing of the Buttonwood Agreement by 24 New York City stockbrokers and merchants in 1792. Currently the NYSE is the market of choice for the largest companies in America with stocks like General Electric, McDonald's, Citigroup, Coca-Cola, Gillette, and Wal-mart all residing on the NYSE.



The trading floor of the NYSE

The NYSE is the first type of exchange (as we referred to above) where much of the trading is done face-to-face on a trading floor. This is also referred to as a "listed" exchange. Orders come in through brokerage firms that are members of the exchange and flow down to floor brokers who go to a specific spot on the floor where the stock trades. At this location, known as the trading post, there is a specific person known as the "specialist" who's job is to match buyers and sellers. Prices are determined using an auction method, the price is the highest amount any buyer is willing to pay (and the lowest price someone is willing to sell at). Once a trade has been made, the details are sent back to the brokerage firm, who then notifies the investor who placed the order. Although there is human contact in this process, don't think

that the NYSE is still in the stone age, computers do play a huge role in the process.

### The Nasdaq

The second type of exchange is the virtual sort called an <u>over-the-counter (OTC)</u> market, of which the <u>Nasdaq</u> is the most popular. These markets have no central location or floor brokers whatsoever. Trading is done through a computer and telecommunications network of dealers. It used to be that the largest companies were only listed on the NYSE with all other "second tier" stocks trading on exchanges other than the Nasdaq. The tech boom of the late 90s changed all this because now, the Nasdaq is home to several big technology companies such as Microsoft, Cisco, Intel, Oracle, and Sun Microsystems. This has resulted in the Nasdaq being compared as a serious competitor to the NYSE.

On the Nasdaq, brokerages act as "market makers" for various stocks. A market maker provides continuous <u>bid</u> and <u>ask</u> prices within a prescribed percentage <u>spread</u> for shares in which they are designated to make a market. They may match up buyers and sellers directly but usually they will maintain an inventory of shares to meet demands of investors. We won't get into the process here, as we cover this in detail in our tutorial entitled: <u>Electronic Trading and Market Makers</u>.

The Nasdag Marketsite in

The Nasdaq Marketsite in Times Square

# Other Exchanges

The third largest exchange in the U.S. is the American Stock Exchange (AMEX). The AMEX used to be an alternative to the NYSE but that role has since been filled by the Nasdaq. In fact, the <u>National Association of Securities Dealers (NASD)</u>, which is the parent of Nasdaq, bought the AMEX in 1998. Almost all trading now on the AMEX is in <u>small-cap</u> stocks and <u>derivatives</u>.

There are many stock exchanges located in just about every country around the world. American markets are undoubtedly the largest and thus most important but still represent only a fraction of total investment around the globe. The two other main financial hubs are London, home of the London Stock Exchange, and Hong Kong, home of the Hong Kong Stock Exchange. We've got a complete list of exchanges from around the world here.

The last place worth mentioning is the over-the-counter bulletin board (OTCBB). The Nasdaq technically is an over-the-counter market but the term is commonly used for small companies that don't meet the listing requirements of any of the regulated markets, including Nasdaq. The OTCBB is home to penny stocks because there is little to no regulation. This makes investing in an OTCBB stock very risky. You really need to know what you're doing here or you'll get burnt! Chances are, if you're reading this tutorial you don't want to even consider the OTCBB.

# What Causes Prices To Change?

Stock prices are changed everyday by market forces. By this we mean that share prices change because of <u>supply</u> and <u>demand</u>. If more people want to buy a stock (demand) than sell it (supply), then the price moves up. Conversely, if more people

want to sell a stock, there would be more supply than demand and the price would fall.

Understanding supply and demand is easy. What is difficult to comprehend is what makes people like a particular stock yet dislike another stock. This comes down to figuring out what news is positive for a company and what news is negative. There are many answers to this problem and just about any investor you ask has their own ideas and strategies.

That being said, the principal theory is that the price movement of a stock shows what investors feel a company is worth. Don't confuse what a company is worth with the stock price. The value of a company is its <u>market capitalization</u>, which is the stock price multiplied by the number of <u>shares outstanding</u>. For example, a company that trades at \$100 per share and has 1,000,000 shares outstanding is worth less that a company that trades at \$50 but has 5,000,000 shares outstanding. (\$100 x 1,000,000 = \$100,000,000 while \$50 x 5,000,000 = \$250,000,000). To further complicate things, the price of a stock doesn't just reflect what a company is worth currently, it takes into account the growth that investors expect in the future.

The most important indicator of the worth of a company is its <u>earnings</u>. Earnings are the <u>profit</u> a company makes, and in the long run no company can survive without them. It makes sense when you think about it. If a company never makes money, they aren't going to stay in business. <u>Public companies</u> are required to report their earnings 4 times a year (once each <u>quarter</u>). <u>Wall Street</u> watches with rabid attention at this time that is referred to as <u>earnings season</u>. The reason behind this is because <u>analysts</u> base their future value of a company on their earnings projection. If a company's results surprise (are better than expected), the price jumps up. If a company's results disappoint (are worse than expected), then the price will fall.

Of course, it's not just earnings that can change the price of a stock. It would be a rather simple world if this were the case! A perfect example of this was the <a href="dot-com">dot-com</a> bubble. Dozens of Internet companies rose to have market capitalizations in the billions of dollars without ever making even the smallest profit. As we all know, these valuations did not hold and most of the Internet companies saw their values shrink to a fraction of their highs. Still, the fact that prices did move this much demonstrates that there are factors other than earnings that influence stocks. Investors have developed literally hundreds of these variables, ratios and indicators. Some you may of heard of, such as the <a href="P/E ratio">P/E ratio</a>, while others are extremely complicated and obscure with names like <a href="Chaikin Oscillator">Chaikin Oscillator</a> or <a href="Moving Average">Moving Average</a> Convergence Divergence (MACD).

So, why do stock prices change? The best answer is that nobody really knows for sure. Some believe that it isn't possible to predict how stocks will change in price while others think that by drawing charts and looking at past price movements, you can determine when to buy and sell. The only thing we do know as a certainty is that stocks are <u>volatile</u> and can change in price extremely rapidly.

The important things to grasp about this subject are:

- **1.** Supply and demand in the market determine stock price.
- 2. Price times the number of shares outstanding (market capitalization) is the value

of a company. Comparing just the share price of two companies is meaningless.

- **3.** Theoretically, earnings are what makes a company increase its value, but there are other indicators which investors use to predict stock price.
- **4.** There is no consensus as to why stock prices move the way they do.

# **Buying Stocks**

You've now learned what a stock is and a little bit about the principles behind the stock market, but how do you actually go about buying stocks? Thankfully you don't have to go down into the trading pit yelling and screaming your order. There are two main ways to purchase stock:

### Using a Brokerage

The most common method to buy stocks is to use a brokerage. Brokerages come in two different flavors. Full-service brokerages offer you (supposedly) expert advice and can manage your account but also charge a lot. <u>Discount brokerages</u> offer little in the way of personal attention but are much cheaper.

It used to be that only the wealthy could afford a broker as full service brokers aren't cheap! With the Internet came the explosion of online discount brokers. Because of them nearly anybody can now afford to invest in the market.

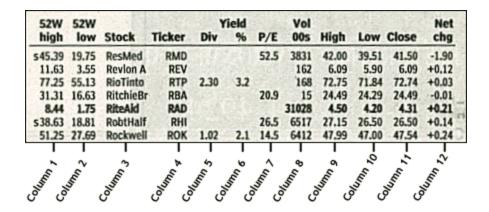
We've actually got a whole other tutorial on brokers and online trading. Rather than repeating the info, <u>check it out here</u>.

### **DRIPs & DIPs**

<u>Dividend Reinvestment Plans (DRIPs)</u> and Direct Investment Plans (DIPs) are plans in which individual companies allow shareholders to purchase stock directly from the company for a minimal cost. Drips are a great way to invest small amounts of money at regular intervals.

#### How to Read a Stock Table/Quote

Any financial paper has stock quotes that will look something like the image below:



- **Columns 1 & 2: 52-Week Hi and Low.** These are the highest and lowest prices that a stock has traded at over the previous 52-weeks (1 year). This typically does not include the previous day's trading.
- **Column 3: Company Name & Type of Stock.** This column lists the name of the company. If there are no special symbols or letters following the name, it is <u>common stock</u>. Different symbols imply different classes of shares. For example, "pf" means the shares are <u>preferred stock</u>.
- **Column 4: Ticker Symbol.** This is the unique alphabetic name which identifies the stock. If you watch financial TV the <u>ticker tape</u> will quote the latest prices alongside this symbol. If you are looking for stock quotes online, you always search for a company by the ticker symbol. If you don't know what a particular company's ticker is you can search for it at: <a href="http://finance.yahoo.com/l">http://finance.yahoo.com/l</a>
- **Column 5: Dividend Per Share.** This indicates the annual <u>dividend</u> payment per share. If this space is blank, the company does not currently pay out dividends.
- **Column 6:** <u>Dividend Yield</u>. The percentage return on the dividend. Calculated as annual dividends per share divided by price per share.
- **Column 7:** Price/Earnings Ratio. This is calculated by dividing the current stock price by earnings per share from the last four quarters. For more detail on how to interpret this, see our P/E Ratio tutorial.
- **Column 8: Trading Volume.** This figure shows the total number of shares traded for the day, listed in hundreds. To get the actual number traded, add "00" to the end of the number listed.
- **Column 9 & 10: Day High & Low.** This indicates the price range the stock has traded at throughout the day's trading. In other words, these are the maximum and the minimum people have paid for the stock.
- **Column 11: Close.** The close is the last trading price recorded when the market closed on the day. If the closing price is up or down more than 5% than the previous day's close, the entire listing for that stock is bold-faced. Keep in mind, you are not guaranteed to get this price if you buy the stock the next day because the price is constantly changing (even after the exchange is closed for the day). The close is merely an indicator of past performance and except in extreme circumstances serves as a ballpark of what you should expect to pay .
- **Column 12: Net Change.** This is the dollar value change in the stock price from the previous day's closing price. When you hear about a stock being "up for the day," it means the net change was positive.

#### **Quotes on the Internet**

Nowadays, it's far more convenient for most to get stock quotes off the Internet. This method is superior because most sites update throughout the day and give you more information, news, charting, research, etc.

To get quotes, simply enter the ticker symbol into the quote box of any major financial site like <u>Yahoo Finance</u>, <u>CBS Marketwatch</u>, or <u>Quicken.com</u>. The example below shows a quote for Microsoft (MSFT) from Yahoo Finance. Interpreting the data is exactly the same as with the newspaper. You can find definitions for the additional information boxes like <u>EPS</u>, or <u>PEG</u>, in our <u>dictionary</u>.



# The Bulls, the Bears, and the Farm

On Wall Street, the <u>bulls</u> and <u>bears</u> are in a constant struggle. If you haven't heard of these terms already, you undoubtedly will as you begin to invest.

#### The Bulls

A bull market is when everything in the economy is great, people are finding jobs, <u>GDP</u> is growing, and stocks are rising. Things are just plain rosy! Picking stocks during a bull market is easier because everything is going up. Bull markets cannot last forever though, and sometimes they can lead to dangerous situations if stocks become overvalued. If a person is an optimist, believing that stocks will go up, he is called a bull and said to have a bullish outlook.

#### The Bears

A bear market is when the economy is bad, recession is looming, and stock prices are falling. Bear markets make it tough for investors to pick profitable stocks. One solution to this is to make money when stocks are falling using a technique called <a href="market-selling">short selling</a>. Another strategy is to wait on the sidelines until you feel that the bear market is nearing its end and only then start buying in anticipation of a bull market. If a person is a pessimist, believing that stocks are going to drop, he is called a bear and said to have a bearish outlook.

### The Other Animals on the Farm - Chickens and Pigs

Chickens are afraid to lose anything. Their fear overrides their need to make profits and so they turn to only money-market securities or get out of the markets all together. While it's true you should never investment in something that you lose sleep over, if you avoid the market completely and never take any risk, you are guaranteed to never see any return.

Pigs are high risk investors looking for the one big score in a short period of time.

Pigs buy on hot tips and invest in companies without doing their due diligence. They get impatient, greedy, and emotional about their investments, and are drawn to high-risk securities without putting in the proper time or money to learn about these investment vehicles. Professional traders love the pigs, as it's often from their losses that the bulls and bears reap their profits.

# What type of investor will you be?

There are plenty of different investment styles and strategies out there. Even though the bulls and bears are constantly at odds, they both can make money with the changing cycles in the market. Even the chickens see some returns, though not a lot. The one loser in this picture is the pig.

Make sure you don't jump into the market before you aren't ready. Be conservative and never invest in anything you do not understand. Before you jump in without the right knowledge, just remember this old stock market saying:

Bulls make money, bears make money, but pigs just get slaughtered!

## **Conclusion and Resources**

Let's recap what we've learned in this tutorial:

- Stock means ownership. As an owner you have a claim on the assets and earnings of a company as well as voting rights with your shares.
- Stock is equity, bonds are debt. Bondholders are guaranteed a return on their investment and have a higher claim than shareholders. This is generally why stocks are considered riskier investments and require a higher rate of return.
- You can lose all of your investment with stocks. The flip-side of this is you can make a lot of money if you invest in the right company.
- The two main types of stock are common and preferred. It is also possible for a company to create different classes of stock.
- Stock markets are places where buyers and sellers of stock meet to trade.
  The NYSE and the Nasdaq are the most important exchanges in the United States.
- Stock price changes based on supply and demand. There are many factors influencing prices, the most important being earnings.
- There is no consensus as to why stock prices move the way they do.
- To buy stocks you can either use a brokerage or a dividend reinvestment plan (DRIP).
- Stock tables/quotes actually aren't that hard to read once you know what everything stands for!
- Bulls make money, Bears make money, and Pigs get slaughtered!

Whew! Seems like we covered a lot. We hope that this tutorial has given you a good idea of what stocks are and how the stock market works.

- 1. If you think we missed something and have a question, tell us about it.
- 2. If you enjoyed this tutorial, make sure to Tell a Friend!

### **3.** If you still aren't on our newsletter, why not?

We must emphasize that this tutorial is meant to provide a basic foundation for understanding. There is plenty more to learn in the days, weeks, and years ahead. Check out the links below for more tutorials that build on your newfound knowledge.

#### Quiz Yourself

Finally, if you think you know this stuff now we challenge you to take the quiz and **Test Your Stocks Knowledge**.

#### **Related Tutorials**

We hinted a few times in this tutorial that there are many strategies for finding a good stock. We wrote a series a while back on some of these strategies entitled: **Your 8 Step Guide to Picking Stocks**.

There are also other ways to trade stocks that we didn't cover because we've got entire tutorials devoted to the subjects. See our sections on **Short Selling** and **Buying on Margin**.

We touch on debt a little bit on this tutorial, but there is much more to learn in **Bond Basics**.

You might of also already heard of mutual funds. These are basically big baskets of stocks management by a professional. Mutuals can be a great way for beginners to get involved in the market, learn more in <u>Mutual Fund Basics</u>.

Picking stocks can be a daunting task. Fear not! There is also a way to invest in the entire market by using something called a stock index. We talk more about this in our **Index Basics**.

We mentioned that you need a broker to trade stocks. This topic is covered in detail in **Broker Basics** 

Want to know more about how stocks are created? A company does this by doing an initial public offering (IPO). Check this out in our <a href="IPO tutorial">IPO tutorial</a>.

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