



# Financial Insight Quarterly

## Your Source for Financial Well-Being

### Correlation and Portfolio Performance

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Different types of investments are subject to different types of risk. On days when you notice that stock prices have fallen, for example, it would not be unusual to see a rally in the bond market.

Asset allocation refers to how an investor's portfolio is divided among asset classes, which tend to perform differently under different market conditions. An appropriate mix of investments typically depends on the investor's age, risk tolerance, and financial goals.

The concept of correlation often plays a role in constructing a well-diversified portfolio that strikes a balance between risk and return.

#### Math that matters

In the financial world, correlation is a statistical measure of how two securities perform relative to each other. Securities that are positively correlated will have prices that tend to move in the same direction. Securities that are negatively correlated will have prices that move in the opposite direction.

A correlation coefficient, which is calculated using historical returns, measures the degree of correlation between two investments. A correlation of +1 represents a perfectly positive correlation, which means the investments always move together, in the same direction, and at a consistent scale. A correlation of -1 means they have a perfectly negative correlation and will always move opposite one another. A correlation of zero means that the two investments are not correlated; the relationship between them is random.

In reality, perfectly positive correlation is rare, because distinct investments can be affected differently by the same conditions, even if they are similar securities in the same sector.

#### Correlations can change

While some types of securities exhibit general trends of correlation over time, it's not uncommon for correlations to vary over shorter periods. In times of market volatility, for example, asset prices were more likely to be

driven by common market shocks than by their respective underlying fundamentals.

During the flight to quality sparked by the financial crisis of 2008, riskier assets across a number of different classes exhibited unusually high correlation. As a result, correlations among some major asset classes have been more elevated than they were before the crisis. There has also been a rise in correlation between different financial markets in the global economy.<sup>1</sup> For example, the correlation coefficient for U.S. stocks (represented by the S&P Composite Total Return index) and foreign stocks (represented by the MSCI EAFE GTR index) increased from 0.75 over the last 25 years to 0.89 over the last 10 years.<sup>2</sup>

Over the long run, a combination of investments that are loosely correlated may provide greater diversification, help manage portfolio risk, and smooth out investment returns. Tighter relationships among asset classes over the last decade may be a good reason for some investors to reassess their portfolio allocations. However, it's important to keep in mind that correlations may continue to fluctuate over time because of changing economic and market environments.

*The performance of an unmanaged index is not indicative of the performance of any particular investment. Individuals cannot invest directly in an index. Past performance is no guarantee of future results. All investing involves risk, including the possible loss of principal. Asset allocation and diversification strategies do not guarantee a profit or protect against investment loss; they are methods used to help manage investment risk.*

*Investing internationally carries additional risks such as differences in financial reporting, currency exchange risk, as well as economic and political risk unique to the specific country. This may result in greater share price volatility. When sold, investments may be worth more or less than their original cost.*

<sup>1</sup> International Monetary Fund, 2015

<sup>2</sup> Thomson Reuters, 2015, for the period 12/31/1989 to 12/31/2014

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## Estate Planning Strategies in a Low-Interest-Rate Environment



*Low interest rates favor certain estate planning strategies over others, and the interest rates used by the IRS are at or near historic lows.*

*There may be costs and expenses associated with any of these strategies. Also, payments from these strategies are not guaranteed.*

The federal government requires the use of certain published interest rates to value various items used in estate planning, such as an income, annuity, or remainder interest in a trust. The government also specifies interest rates that a taxpayer may be deemed to use in connection with certain installment sales or intra-family loans. These rates are currently at or near historic lows, presenting several estate planning opportunities.

Low interest rates favor certain estate planning strategies over others. For example, low interest rates are generally beneficial for a grantor retained annuity trust (GRAT), a charitable lead annuity trust (CLAT), an installment sale, and a low-interest loan. On the other hand, low interest rates generally have a detrimental effect on a qualified personal residence trust (QPRT) and a charitable gift annuity. But interest rates have little or no effect on a charitable remainder unitrust (CRUT).

### Grantor retained annuity trust (GRAT)

In a GRAT, you transfer property to a trust, but retain a right to annuity payments for a term of years. After the trust term ends, the remaining trust property passes to your designated beneficiaries, such as family members. The value of the gift of the remainder interest is discounted for gift tax purposes to reflect that it will be received in the future. Also, if you survive the trust term, the trust property is not included in your gross estate for estate tax purposes. If the rate of appreciation is greater than the IRS interest rate, a higher value of trust assets escapes gift and estate taxation. Consequently, the lower the IRS interest rate, the more effective this technique can be.

### Charitable lead annuity trust (CLAT)

In a CLAT, you transfer property to a trust, giving a charity the right to annuity payments for a term of years. After the trust term ends, the remaining trust property passes to your designated beneficiaries, such as family members. This trust is similar to a GRAT, except that you get a gift tax charitable deduction. Also, if the CLAT is structured so that you are taxed on trust income, you receive an up-front income tax charitable deduction for the gift of the annuity interest. Like with a GRAT, the lower the IRS interest rate, the more effective this technique can be.

### Installment sale

If you enter into an installment sale with family members, you can generally defer the taxation of any gain on the property sold until the installment payments are received. However, if the family member resells the property within

two years of your installment sale, any deferred gain will generally be accelerated. The two-year limit does not apply to stocks that are sold on an established securities market.

You are generally required to charge an adequate interest rate (based on IRS published rates) in return for the opportunity to pay in installments, or interest will be deemed to be charged for income tax and gift tax purposes. However, with the current low interest rates, your family members can pay for the property in installments while paying only a minimal interest cost for the benefit of doing so.

### Low-interest loan

A low-interest loan to family members might also be a useful strategy. You are generally required to charge an adequate interest rate on the loan for the use of the money, or interest will be deemed to be charged for income tax and gift tax purposes. However, with the current low interest rates, you can provide loans at a very low rate, and family members can effectively keep any earnings in excess of the interest they are required to pay you.

### Effect of low rates on other strategies

- **Charitable remainder unitrust:** You transfer property to a trust, retaining a stream of payments for life or a number of years, after which the remainder passes to charity. You receive a current charitable deduction for the gift of the remainder interest. Interest rates have no effect if payments are made annually at the beginning of each year, and low interest rates have only a minimal detrimental effect if payments are made in any other way.
- **Qualified personal residence trust:** You transfer your personal residence to a trust, retaining the right to live in the home for a period of years, after which the residence passes to your designated beneficiaries, such as family members. The value of the gift of the remainder interest is discounted for gift tax purposes to reflect that it will be received in the future. The lower the IRS interest rate, the less effective this technique can be.
- **Charitable gift annuity:** You transfer property to a charity in return for the charity's promise to make annuity payments for your life (or for the lifetimes of you and your spouse). You receive a current charitable deduction for the gift of the remainder interest. The lower the interest rate, the lower the amount of your charitable deduction. Also, charities have generally been forced to reduce payout rates offered because of economic uncertainties and the low-interest-rate environment.

## Periodic Review of Your Estate Plan

An estate plan is a map that explains how you want your personal and financial affairs to be handled in the event of your incapacity or death. It allows you to control what happens to your property if you die or become incapacitated. An estate plan should be reviewed periodically.

### When should you review your estate plan?

Although there's no hard-and-fast rule about when you should review your estate plan, the following suggestions may be of some help:

- You should review your estate plan immediately after a major life event
- You'll probably want to do a quick review each year because changes in the economy and in the tax code often occur on a yearly basis
- You'll want to do a more thorough review every five years

Reviewing your estate plan will alert you to any changes that need to be addressed.

There will be times when you'll need to make changes to your plan to ensure that it still meets all of your goals. For example, an executor, trustee, or guardian may die or change his or her mind about serving in that capacity, and you'll need to name someone else.

Events that should trigger a periodic review include:

- There has been a change in your marital status (many states have laws that revoke part or all of your will if you marry or get divorced) or that of your children or grandchildren
- There has been an addition to your family through birth, adoption, or marriage (stepchildren)
- Your spouse or a family member has died, has become ill, or is incapacitated
- Your spouse, your parents, or other family member has become dependent on you
- There has been a substantial change in the value of your assets or in your plans for their use
- You have received a sizable inheritance or gift
- Your income level or requirements have changed
- You are retiring
- You have made (or are considering making) a change to any part of your estate plan

### Some things to review

Here are some things to consider while doing a periodic review of your estate plan.

- Who are your family members and friends? How do you feel about them?
- Do you have a valid will? Does it reflect your current goals and objectives about who receives what after you die? Does your choice of an executor or a guardian for your minor children remain appropriate?
- In the event you become incapacitated, do you have a living will, durable power of attorney for health care, or Do Not Resuscitate order to manage medical decisions?
- In the event you become incapacitated, do you have a living trust, durable power of attorney, or joint ownership to manage your property?
- What property do you own and how is it titled (e.g., outright or jointly with right of survivorship)? Property owned jointly with right of survivorship passes automatically to the surviving owner(s) at your death.
- Have you reviewed your beneficiary designations for your retirement plans and life insurance policies? These types of property pass automatically to the designated beneficiary at your death.
- Do you have any trusts, living or testamentary? Property held in trust passes to beneficiaries according to the terms of the trust.
- Do you plan to make any lifetime gifts to family members or friends?
- Do you have any plans for charitable gifts or bequests?
- If you own or co-own a business, have provisions been made to transfer your business interest? Is there a buy-sell agreement with adequate funding? Would lifetime gifts be appropriate?
- Do you own sufficient life insurance to meet your needs at death? Have those needs been evaluated?
- Have you considered the impact of gift, estate, generation-skipping, and income taxes, both federal and state?

This is just a brief overview of some ideas for a periodic review of your estate plan. Each person's situation is unique. An estate planning attorney may be able to assist you with this process.



*An estate plan should be reviewed periodically, especially after a major life event. Here are some ideas about when to review your estate plan and some things to review when you do.*

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## What's the best way to back up my digital information?

In writing or speaking, redundancy is typically not recommended unless you're really trying to drive a point home. When it comes to your digital life, however, redundancy is not only recommended, it's critical.

Redundancy is the term used to refer to data backups. If you have digital assets that you don't want to risk losing forever—including photos, videos, original recordings, financial documents, and other materials—you'll want to be sure to back them up regularly. And it's not just materials on your personal computer, but your mobile devices as well. Depending on how much you use your devices, you may want to back them up as frequently as every few days.

A good rule to follow is the 3-2-1 rule. This rule helps reduce the risk that any one event—such as a fire, theft, or hack—will destroy or compromise both your primary data and all your backups.

1. Have at least three copies of your data. This means a minimum of the original plus two backups. In the world of computer redundancy, more is definitely better.

2. Use at least two different formats. For example, you might have one copy on an external hard drive and another on a flash drive, or one copy on a flash drive and another using a cloud-based service.
3. Ensure that at least one backup copy is stored offsite. You could store your external hard drive in a safe-deposit box or at a trusted friend or family member's house. Cloud storage is also considered offsite.

If a cloud service is one of your backup tactics, be sure to review carefully its policies and procedures for security and backup of its servers. Another good idea is to encrypt (that is, create strong passwords that only you know) to protect sensitive documents and your external drives.

So at the risk of sounding redundant (or driving the point home?), a good rule for data backup is to have at least three copies on at least two different formats, with at least one copy stored offsite. And more is always better.



## I'm thinking about storing financial documents in the cloud. What should I know?

Cloud storage—using Internet-based service providers to store digital assets such as books, music, videos, photos, and even important documents including financial statements and contracts—has become increasingly popular in recent years. But is it right for you?

Opinions vary on whether to store your most sensitive information in the cloud. While some experts say you should physically store items you're not willing to lose or expose publicly, others contend that high-security cloud options are available.

If you're thinking about cloud storage for your financial documents, consider the following:

- Evaluate the provider's reputation. Is the service well known, well tested, and well reviewed by information security experts?
- Consider the provider's own security and redundancy procedures. Look for such features as two-factor authentication and complex password requirements. Does it have copies of your data on servers at multiple geographic locations, so that a

disaster in one area won't result in an irretrievable loss of data?

- Review the provider's service agreement and terms and conditions. Make sure you understand how your data will be protected and what recourse you have in the event of a breach or loss. Also understand what happens when you delete a file—will it be completely removed from all servers? In the event a government subpoena is issued, must the service provider hand over the data?
- Consider encryption processes, which prevent access to your data without your personal password (including access by people who work for the service provider). Will you be using a browser or app that provides for data encryption during transfer? And once your data is stored on the cloud servers, will it continue to be encrypted?
- Make sure you have a complex system for creating passwords and never share your passwords with anyone.