

The Stock Market Paradox

Investing
successfully in
volatile markets

Use of indexes in this presentation

This presentation uses a number of indexes defined on the following page to explain and illustrate investment concepts. Indexes are very useful in providing a means for individuals to verify the accuracy of statements made in this and other presentations. But their limitations need to be understood.

Index returns are for illustrative purposes only and do not represent actual performance of an account. Past performance does not guarantee future results. You cannot invest directly in an index. Index performance returns do not reflect any management fees, transaction costs or expenses, the incurrence of which would have the effect of decreasing indicated historical performance results.

Common indexes defined

- **S&P 500 Index** - The aggregate market value of all shares of common stocks of 500 stocks from 83 industrial groups.
- **NASDAQ Composite** - A measure of the aggregate performance of all NASDAQ National Market System stocks, except warrants, and all other NASDAQ domestic common stocks.
- **Small Co. Index** - Performance of the Dimensional Fund Advisors Small Company Fund 1970-1978, Russell 2000 index thereafter.
- **International Stocks** - Morgan Stanley Capital Markets EAFE (Europe, Australia, Far East) index.
- **Russell 2000 Index** - Capitalization-weighted index of domestic equities traded on the NYSE, AMEX and NASDAQ. The index represents the bottom 2000 from a universe of the 3000 largest stocks in the U.S.
- **MSCI-EAFE** - Morgan Stanley's Europe/Australasia/Far East Index.
- **Long-Term Corporate Bonds** - Salomon Brothers Long-Term High Grade Corporate Bond Index- Corporate securities promising specific payments of interest and/or principal financed by a first claim on the issuer's earnings or assets.
- **Intermediate-Term Treasury Bonds** - U.S. government bonds paying interest on money borrowed over a specific period of time.
- **Treasury Bills** - Short-term U.S. government bonds paying interest on money borrowed over a specific period of time.
- **Emerging Markets** - Morgan Stanley Capital International Index.

Investment cautions

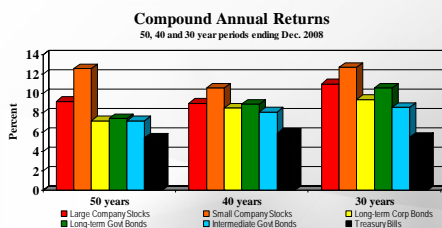
Past performance may not be indicative of future performance. No current or prospective investor should assume that future performance results will be profitable or equal the past performance.

We believe that the information contained herein to be accurate, but we cannot guarantee the accuracy of such information. Different types of investments involve varying degrees of risk, and there can be no assurance that any specific investment will be profitable.

This document is not a substitution for personalized investment advice. Investors should consult with a financial advisor before investing.

Where should you be invested?

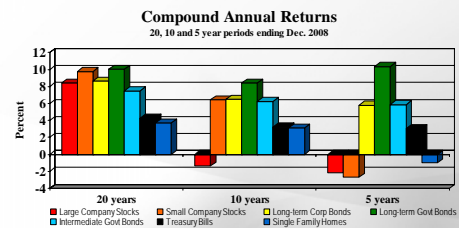
- Historically, stocks have provided higher returns than any other asset class over multi-year time periods.



Source: Ibbotson & Associates 2009 Classic Yearbook

Where should you be invested?

- The bear markets of 2000-2002 and 2007-2009 changed that reality.



Source: Ibbotson & Associates 2009 Classic Yearbook and S&P/Case-Shiller U.S. National Home Price Index

Advantages of investing in stocks

- Liquidity
- Minimal carrying costs
- No storage or maintenance requirements
- Capacity to fit small or large portfolios
- Ability to easily diversify portfolios
- Ability to hedge or short positions
- Variety of investment objectives from income producing to aggressive growth
- Historical track record

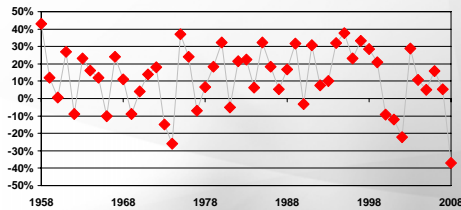
Disadvantages of stocks

- **Equity markets are very inefficient sources of growth.**
- The odds of achieving a 10% average annual return are much greater if you have 50 years to invest than 15 years, and even then there are no guarantees.
- Buy-and-hold investors have spent 2/3s of time invested in bear markets or recovering from down markets.
- Annual total return for the S&P 500 index over the last half century has ranged from a high of 43% in 1958 to a low of -37% in 1974, shown in the following scatter gram.
- The S&P 500 stock index lost -1.3% annually including dividends for the 10 years ended December 31, 2008.

Source: Ibbotson & Associates 2009 Classic Yearbook and Yahoo Finance

Equity markets are more volatile that many investors realize

S&P 500 Index Total Return
1958-2008

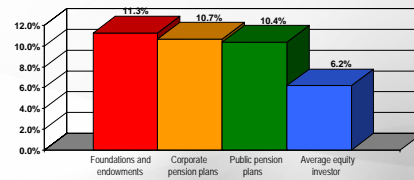


Source: Data from Yahoo Finance.

More problems with equities

- Individual investors on average fail to achieve market returns even in good markets.

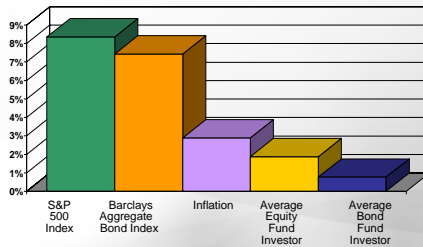
Return Variations Between
Institutional and Individual Investors
(10-year average annual return as of 12/31/2004)



Source: Mercer Investment Consulting

Dalbar QAIB study confirms results

Investment Returns
(20-year period -1/1/1989 to 12/31/2008)



Source: Quantitative Analysis of Investor Behavior Study, 2008 Update, Dalbar Inc.

Why do individuals lag market results?

Individual investors tend to buy late in a rising market and hold on only to sell at the market's bottom when the pain becomes too great, because they:

- Underestimate market volatility.
- Fail to use investment approaches that manage risk effectively.

Distribution of Returns

S&P 500 Total Annual Return*
1926 - 2008

| Range | 83-Year Frequency |
|-------------------------|-------------------|
| Losses greater than 30% | 3.6% |
| Losses greater than 10% | 13.3% |
| Losses from 0 to -10% | 15.7% |
| Gains from 0 to 10% | 15.7% |
| Gains greater than 10% | 55.4% |

*Includes dividends and reinvestment return

Source: Ibbotson 2006 - 2009 Stocks, Bonds, Bills and Inflation Yearbooks



Volatility is the norm

"The stock market is much more volatile than most investors realize. One measure of volatility is the range of annual moves in the market from year-end to subsequent year-end. The market moves dramatically both positively and negatively to ultimately produce its modest long-term average return."

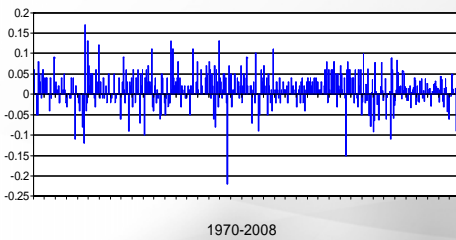
Edward Easterling
Crestmont Research

Source: Unexpected Returns: Understanding Secular Stocks Market Cycles, Edward Easterling.



Monthly returns in percent

S&P 500 Total Monthly Return



Data source: Ibbotson Associates Stocks, Bonds Bills & Inflation 2008 Yearbook



Intra-year volatility

S&P 500 Total Return*
1926 - 2008

| Years with Cumulative Month-to-Month ... | 83-Year Frequency |
|--|-------------------|
| Losses greater than 20% | 14% |
| Losses greater than 10% | 34% |

*Includes dividends and reinvestment return

Data source: Ibbotson 2009 Stocks, Bonds, Bills and Inflation Yearbook



Volatility applies to bonds as well

"Interest rates are more volatile than most investors realize. As history demonstrates, more than half of the time, interest rates change by more than 1.5% (over 25% in percentage terms) over all 6-month periods."

Edward Easterling
Crestmont Research



Source: Unexpected Returns: Understanding Secular Stocks Market Cycles, Edward Easterling.



Mathematics of gains and losses

- It's harder to make up losses than most investors realize.
- Historically the market has spent 2/3s of its time either in a declining market or making up losses.

| If the DECLINE is | It takes the following GAIN to break even |
|-------------------|---|
| -25% | +33% |
| -33% | +50% |
| -50% | +100% |
| -75% | +300% |
| -90% | +900% |



*"Investing is simple,
but not easy."*

Warren Buffett
- interview on CNBC

Traditional Tools to Reduce Risk

Traditional risk management

Based on the belief that markets are either

- 1) Random or
 - 2) Efficient
- and either
- 1) Impossible to predict or
 - 2) Too efficient to outsmart.

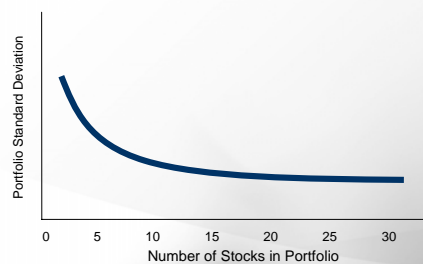
Modern Portfolio Theory (MPT)

- Developed by Harry Markowitz, published under the title "Portfolio Selection" in the 1952 *Journal of Finance*.
- It is not enough to look at the expected risk and return of one particular stock. By investing in more than one stock, an investor can reap the benefits of diversification - chief among them, a reduction in the riskiness of the portfolio.

Two components of risk

- **Systematic Risk** - These are market risks that cannot be diversified away. Interest rates, recessions and wars are examples of systematic risks.
- **Unsystematic Risk** - Also known as "specific risk," this risk is specific to individual stocks and can be diversified away as you increase the number of stocks in your portfolio. It represents the component of a stock's return that is not correlated with general market moves.

Effect of portfolio diversification



SOURCE: "The Effect of Diversification on Risk," by W. Wagner & S. Lau, *Financial Analysts Journal*, Nov/Dec 1971.

Systematic risk still remains

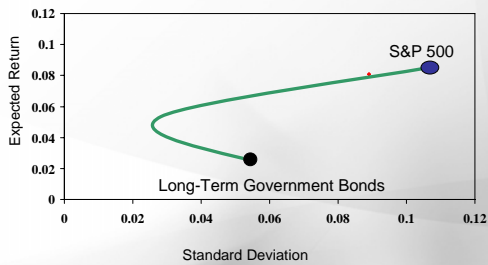
- There are risks inherent to the entire market or entire market segment.
- These are also known as "un-diversifiable risk" or "market risk."
- The more diversified a portfolio, the more likely it is to reflect the overall direction of the market.
- In down markets, all asset groups tend to get caught up in the same panic selling.
- Diversification does not protect against bear markets or systematic risks often associated with bear markets, such as inflation, war or recessions.

Traditional approaches

- Diversify the portfolio with non-correlated asset classes that have historically moved in different cycles.
- Rebalance periodically to maintain your desired asset allocation.
- Dollar cost average by continually adding to your asset classes in both rising and declining markets.
- Other than rebalancing, hold your portfolio for the long term regardless of market conditions.

Efficient frontier of MPT

- Diversification poses a trade off of risk and return.



The Efficient Frontier can shift

- The Efficient Frontier uses correlation coefficients to quantify which assets tend to move up or down with or against other assets.
- Correlation coefficients change over time.
- In down markets, correlations go up as all asset groups tend to get caught up in the same panic selling, negating the value of diversification.
- Studies by Rydex Investments shows dramatic shifts in the Efficient Frontier from decade to decade.

The Shifting Frontier – 1960-2008

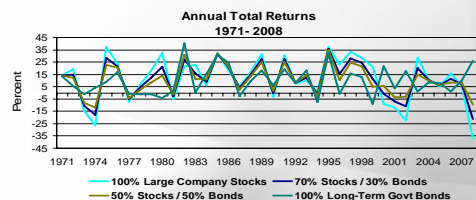
Efficient frontier of equity and bond portfolios illustrated in 10% increments



Calculated by Rydex Investments using information and data presented in Ibbotson Investment Analysis Software. All rights reserved. Used with permission. Standard deviation (risk) is a statistical measure of the historical volatility of an investment that measures the extent to which numbers are spread around their average. Equity returns are based on the S&P 500 index, including the reinvestment of dividends and adjusted for inflation. Bond returns are based on the Ibbotson Long-term Government Bond index with dividends reinvested, adjusted for inflation. Both indexes are unmanaged and cannot be invested in directly. Past performance is no guarantee of future results.

Less risk, less return potential

- Passive asset allocation requires investing asset classes that move inversely to each other in normal markets, guaranteeing that the portfolio will underperform market indexes in rising markets in exchange for the potential for lower losses in down markets.



Source: Ibbotson Stocks, Bonds, Bills & Inflation 2009 Yearbook

Sell your winners, buy the losers

- Rebalancing is the opposite of the Wall Street wisdom of "Sell your losers short and let your winners run."
- Because asset classes tend to move in cycles, it can be decades before a losing position rebounds.

Market Opportunities Change Over Time

| DECADE | 50s | 60s | 70s | 80s | 90s | 00s* |
|---------|---------------------|---------------------|------------|------------------|-------------|------------------|
| WINNERS | S&P 500 | Small-Cap | Small Cap | International | Nasdaq | Oil & Gas |
| RETURNS | 19% | 16% | 11% | 23% | 25% | 37% |
| LOSERS | LT Government Bonds | LT Government Bonds | High Yield | Small-Cap Growth | Real Estate | Large-Cap Growth |
| RETURNS | 0% | 1% | 5% | 12% | 4% | -1.4% |

*Based on period 2000-2008

Source: Ibbotson Stocks, Bonds, Bills & Inflation 2009 Yearbook, 2009 year book, 2000 – 2008 XOI data

Buying into a declining market

- Dollar cost averaging is psychologically one of the most difficult investment approaches.
- Few people can continue to buying in a declining market where every purchase results in a loss of assets.
- From childhood we are told not to "Throw good money after bad."

Bear market realities

- Bear markets occur on average once every five years.
- Between 1929 and 2008 there were 19 bear markets.
- The average bear slashed portfolios by 30%.
- It took an average of 3.5 years to return to breakeven.

Buy-and-hold investors spend 2/3s of the time they are invested in the market losing money in down markets and returning to break even.

Buy-and-hold increases risk

- The likelihood of financial damage from a bear market increases the longer you are invested.
- We insure against losses in other aspects of our lives from home and auto to personal liability.
- Only in financial investments are individuals told there is nothing they can do to prevent losses other than diversification, which has its own costs.

"Passive is active."

Thoughts to ponder...

"Passive investing is an inherently active strategy. Every passive investment, without exception, has some sort of bet built into it. Investors who don't understand this paradox cannot appreciate the risks they take when investing in products such as index funds."

Kenneth L. Fisher, "Passive is Active"
Bloomberg Personal Finance, April 2002

Turning Volatility to an Advantage

Active management strategies

1. Use active allocation to position a portfolio in the strongest investment classes at the moment, rather than basing investment decisions on historical performance.

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1. Use active allocation to position a portfolio in the strongest investment classes at the moment, rather than basing investment decisions on historical performance.
2. Apply quantitative analysis to avoid the majority of the market's declines and participate in the majority of the up movements.
3. Invest in leading investment styles or sectors of the financial markets during both up and down markets.

A few words of caution

- No active management system is perfect. Every investment approach has the potential to lose money rather than making a profit.
- Even good systems will make investments that do not meet performance expectations and may lose money.
- Investment approaches often perform very differently at different stages of a full market cycle.
- A successful investment approach is one where profitable trades outweigh the losers over time.

Active management strategies

1. Use active allocation to position a portfolio in the strongest investment classes at the moment, rather than basing investment decisions on historical performance.
2. Apply quantitative analysis to avoid the majority of the market's declines and participate in the majority of the up movements.
3. Invest in leading investment styles or sectors of the financial markets during both up and down markets.
4. Use tools such as hedges, bear market funds and inverse funds to profit during declining markets.

What if you could avoid down markets?

- Arguments against active management tend to focus on the possibility that the investor would miss only the best days of the market.
- Studies show that missing the best doesn't matter if you also miss the worst. In fact, missing both the best and the worst increases return with lower volatility.

Impact on Annual Return of Missing the Market - 1/3/84 through 12/31/2008
S&P 500 Index Average Annual Return for period - 7.06%

| Missed # of Days | Miss the Best Days | Miss the Worst Days | Miss Best & Worst |
|------------------|--------------------|---------------------|-------------------|
| 10 | 4.10% | 11.23% | 8.15% |
| 20 | 2.15 | 13.80 | 8.58 |
| 30 | 0.54 | 15.83 | 8.61 |
| 40 | -0.93 | 17.59 | 8.82 |

Source: Analysis performed by Hepburn Capital Management, LLC

There's room for imperfection

- Perfect "timing" according to Professor H. Nejat Seyhun of the University of Michigan would have turned a \$1 investment in a market index composed of a value weighted index of NYSE, AMEX and Nasdaq stocks in January of 1926 into \$690 million in December 1993.
- In comparison, a \$1 buy-and-hold investment in the market index would have totaled \$637.30 after the 67 years.

Perfect timing is impossible.

Source: Stock Market Extremes and Portfolio Performance, a study commissioned by Towneley Capital Management and conducted by professor H. Nejat Seyhun, University of Michigan, 1994.

Impossible odds

- The "missing the best" argument is logically flawed.
- The odds of picking 6 numbers from 49 to win a lotto is 1 chance in 5,245,785.
- Missing just the 10 best days out of a possible 2,700+ trading days over ten years is statistically impossible.
- The 10 worst days historically have occurred during declining markets when quantitative systems often have already signaled a downturn in the market. This relationship to declines makes it feasible to miss the worst days.

Unlikely, but not impossible

- 18 of the 40 best days in the past 25 years were in 2008.
- 17 of the 40 worst days in the past 25 years were in 2008.
- That's 35 out of 80 which is pretty unlikely statistically.
- The worst days often have a greater impact on returns than the best days due to the mathematics of gains and losses.
- By missing both the best and worst 10, 20, 30 or 40 days, performance exceeds buy-and-hold over the 25-year period.
- The worst day by far is still Oct 19, 1987 with a 20.47% loss, more than double the next worse loss, Oct 15, 2008 with a 9.03% decline.

Benefiting from active leverage

- An investor who avoids a full bear market would have on average \$1.54 for every \$1 of a buy-and-hold investment.
- That leverage means an active manager could miss up to 20.6% of the bull market rise and participate in 20.6% of the bear market and still equal a buy-and-hold investment, with less risk.

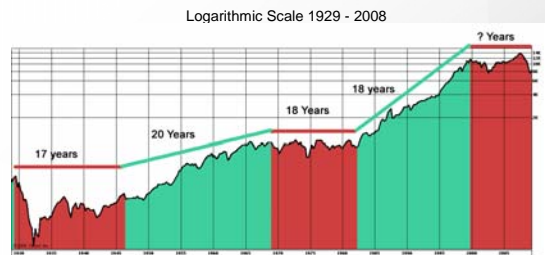
SOURCE: "Why Market Timing Works," Jerry C. Wagner, The Journal of Investing, Summer 1997.

Markets move in cycles

- Although stock markets rise, they do so in fits and starts.
- Great bull and bear markets seem to last approximate roughly 16 to 20 years.
- Following periods of overvaluation, markets can do little exciting for decades, trading sideways as earnings catch up with stock prices.

Past performance should not be considered an indication of future returns.

Dow Jones Industrials



Source: Stockcharts.com, 2005. Updated on Yahoo Finance. There can be no guarantee that prior market trends will recur. Past performance is no guarantee of future results.

Bull and Bear markets defined

- **BULL MARKET** - Movement in the stock market in which prices are rising and the consensus is that prices will continue upward.
 - Economic production is high
 - Jobs are plentiful
 - Inflation is low
- **BEAR MARKET** - Stock prices are falling and the consensus is that they will continue falling.
 - Economy slows down
 - Rise in unemployment and inflation



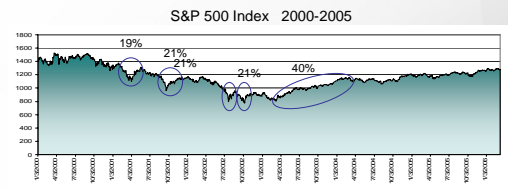
Famous market bubbles

- 1634 -1637 – Tulipomania
- 1711 – 1720 – South Sea Bubble
- 1717-1721 – Mississippi Scheme
- 1840s – Railway Mania
- 1920s – U.S. Roaring Twenties Market
- 1970s – Nifty Fifties
- 1980s – Biotech stocks
- Late 1980s – Japanese stocks
- 1987 – Taiwanese stocks
- Late 1990s – Internet Stocks



Opportunities for profit

- Every market has opportunities for gains.
- Within flat and/or declining markets are significant rallies that offer opportunity if investors can avoid the subsequent drop.



Data source: Yahoo Finance 3/2006. For illustrative purposes only. No management fees, transaction costs or expenses have been taken into consideration. The S&P 500 Index is unmanaged and unavailable for direct investment. There can be no assurance that any investment strategy could successfully capture brief rallies.



Avoid the bear, ride the bull

- Fundamental forecasting models attempt to project the market's overall direction for the next period.
- Trend following models calculate moving averages and use crossing between prices and moving averages for buy and sell signals.
- Overextended models seek to discriminate between normal and extreme behavior, signaling overbought or oversold situations.
- Sophisticated management systems often use a combination of models.



Some indicators to consider

- Market sentiment – bull / bear indexes
- Investor sentiment
- Options volatility
- 200-day and 50-day moving simple and exponential averages
- Customized moving averages
- New York Stock Exchange bullish percentage
- S&P 500 bullish percentage
- % of stocks moving above their 200-day moving average
- % of stocks above their 10-week moving average
- Weekly new highs and new lows



Simplified active strategy

- Buy a stock when its 15-day Moving Average crosses up the 50-day Moving Average.
 - A positive moving averages crossover usually confirms that a stock is on an uptrend.
- Sell when the 15-day Moving Average crosses down the 50-day Moving Average.
- Sell everything when the market crosses its moving average down. Wait for the next up crossover for the market as a whole to buy new positions.



The sector opportunity

- A sector is a subset of the overall market that shares specific characteristics.
- Sectors can apply to industry, size, geographic region, investment style, dividend yield or a combination of characteristics.
- Nine of the top ten performing mutual funds each year are virtually always sector funds.¹
- Sector funds have higher volatility, higher portfolio turnover and potentially higher returns and **losses** than a diversified stock fund.
- What is in favor one month, year or five years can quickly fall to the worst performing category.

¹Source: Morningstar.

Winners and losers

Periodic Table of Dow Jones U.S. Total Market Economic Sector Asset Class Returns (1999-2008)

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Technology | 23.7% | 16.1% | 10.1% | 17.1% | 51.2% | 33.4% | 34.1% | 36.8% | 24.8% | -22.8% |
| Consumer Services | 18.1% | 12.1% | 15.1% | 18.1% | 19.1% | 14.1% | 16.1% | 17.1% | 18.1% | 19.1% |
| Healthcare | 17.1% | 16.1% | 15.1% | 14.1% | 13.1% | 12.1% | 11.1% | 10.1% | 9.1% | 8.1% |
| Oil & Gas | 16.1% | 15.1% | 14.1% | 13.1% | 12.1% | 11.1% | 10.1% | 9.1% | 8.1% | 7.1% |
| Financial | 15.1% | 14.1% | 13.1% | 12.1% | 11.1% | 10.1% | 9.1% | 8.1% | 7.1% | 6.1% |
| Basic Materials | 14.1% | 13.1% | 12.1% | 11.1% | 10.1% | 9.1% | 8.1% | 7.1% | 6.1% | 5.1% |
| Industrials | 13.1% | 12.1% | 11.1% | 10.1% | 9.1% | 8.1% | 7.1% | 6.1% | 5.1% | 4.1% |
| Telecom | 12.1% | 11.1% | 10.1% | 9.1% | 8.1% | 7.1% | 6.1% | 5.1% | 4.1% | 3.1% |
| Real Estate | 11.1% | 10.1% | 9.1% | 8.1% | 7.1% | 6.1% | 5.1% | 4.1% | 3.1% | 2.1% |
| Utilities | 10.1% | 9.1% | 8.1% | 7.1% | 6.1% | 5.1% | 4.1% | 3.1% | 2.1% | 1.1% |
| Consumer Goods | 9.1% | 8.1% | 7.1% | 6.1% | 5.1% | 4.1% | 3.1% | 2.1% | 1.1% | 0.1% |
| Energy | 8.1% | 7.1% | 6.1% | 5.1% | 4.1% | 3.1% | 2.1% | 1.1% | 0.1% | -0.9% |
| Biotech | 7.1% | 6.1% | 5.1% | 4.1% | 3.1% | 2.1% | 1.1% | 0.1% | -0.9% | -1.9% |
| Pharmaceuticals | 6.1% | 5.1% | 4.1% | 3.1% | 2.1% | 1.1% | 0.1% | -0.9% | -1.9% | -2.9% |
| Medical Devices | 5.1% | 4.1% | 3.1% | 2.1% | 1.1% | 0.1% | -0.9% | -1.9% | -2.9% | -3.9% |
| Healthcare Services | 4.1% | 3.1% | 2.1% | 1.1% | 0.1% | -0.9% | -1.9% | -2.9% | -3.9% | -4.9% |
| Healthcare Equipment | 3.1% | 2.1% | 1.1% | 0.1% | -0.9% | -1.9% | -2.9% | -3.9% | -4.9% | -5.9% |
| Healthcare IT | 2.1% | 1.1% | 0.1% | -0.9% | -1.9% | -2.9% | -3.9% | -4.9% | -5.9% | -6.9% |
| Healthcare Research | 1.1% | 0.1% | -0.9% | -1.9% | -2.9% | -3.9% | -4.9% | -5.9% | -6.9% | -7.9% |
| Healthcare Services | 0.1% | -0.9% | -1.9% | -2.9% | -3.9% | -4.9% | -5.9% | -6.9% | -7.9% | -8.9% |
| Healthcare Equipment | -0.9% | -1.9% | -2.9% | -3.9% | -4.9% | -5.9% | -6.9% | -7.9% | -8.9% | -9.9% |
| Healthcare Research | -1.9% | -2.9% | -3.9% | -4.9% | -5.9% | -6.9% | -7.9% | -8.9% | -9.9% | -10.9% |
| Healthcare Services | -2.9% | -3.9% | -4.9% | -5.9% | -6.9% | -7.9% | -8.9% | -9.9% | -10.9% | -11.9% |
| Healthcare Equipment | -3.9% | -4.9% | -5.9% | -6.9% | -7.9% | -8.9% | -9.9% | -10.9% | -11.9% | -12.9% |
| Healthcare Research | -4.9% | -5.9% | -6.9% | -7.9% | -8.9% | -9.9% | -10.9% | -11.9% | -12.9% | -13.9% |
| Healthcare Services | -5.9% | -6.9% | -7.9% | -8.9% | -9.9% | -10.9% | -11.9% | -12.9% | -13.9% | -14.9% |
| Healthcare Equipment | -6.9% | -7.9% | -8.9% | -9.9% | -10.9% | -11.9% | -12.9% | -13.9% | -14.9% | -15.9% |
| Healthcare Research | -7.9% | -8.9% | -9.9% | -10.9% | -11.9% | -12.9% | -13.9% | -14.9% | -15.9% | -16.9% |
| Healthcare Services | -8.9% | -9.9% | -10.9% | -11.9% | -12.9% | -13.9% | -14.9% | -15.9% | -16.9% | -17.9% |
| Healthcare Equipment | -9.9% | -10.9% | -11.9% | -12.9% | -13.9% | -14.9% | -15.9% | -16.9% | -17.9% | -18.9% |
| Healthcare Research | -10.9% | -11.9% | -12.9% | -13.9% | -14.9% | -15.9% | -16.9% | -17.9% | -18.9% | -19.9% |
| Healthcare Services | -11.9% | -12.9% | -13.9% | -14.9% | -15.9% | -16.9% | -17.9% | -18.9% | -19.9% | -20.9% |
| Healthcare Equipment | -12.9% | -13.9% | -14.9% | -15.9% | -16.9% | -17.9% | -18.9% | -19.9% | -20.9% | -21.9% |
| Healthcare Research | -13.9% | -14.9% | -15.9% | -16.9% | -17.9% | -18.9% | -19.9% | -20.9% | -21.9% | -22.9% |
| Healthcare Services | -14.9% | -15.9% | -16.9% | -17.9% | -18.9% | -19.9% | -20.9% | -21.9% | -22.9% | -23.9% |
| Healthcare Equipment | -15.9% | -16.9% | -17.9% | -18.9% | -19.9% | -20.9% | -21.9% | -22.9% | -23.9% | -24.9% |
| Healthcare Research | -16.9% | -17.9% | -18.9% | -19.9% | -20.9% | -21.9% | -22.9% | -23.9% | -24.9% | -25.9% |
| Healthcare Services | -17.9% | -18.9% | -19.9% | -20.9% | -21.9% | -22.9% | -23.9% | -24.9% | -25.9% | -26.9% |
| Healthcare Equipment | -18.9% | -19.9% | -20.9% | -21.9% | -22.9% | -23.9% | -24.9% | -25.9% | -26.9% | -27.9% |
| Healthcare Research | -19.9% | -20.9% | -21.9% | -22.9% | -23.9% | -24.9% | -25.9% | -26.9% | -27.9% | -28.9% |
| Healthcare Services | -20.9% | -21.9% | -22.9% | -23.9% | -24.9% | -25.9% | -26.9% | -27.9% | -28.9% | -29.9% |
| Healthcare Equipment | -21.9% | -22.9% | -23.9% | -24.9% | -25.9% | -26.9% | -27.9% | -28.9% | -29.9% | -30.9% |
| Healthcare Research | -22.9% | -23.9% | -24.9% | -25.9% | -26.9% | -27.9% | -28.9% | -29.9% | -30.9% | -31.9% |
| Healthcare Services | -23.9% | -24.9% | -25.9% | -26.9% | -27.9% | -28.9% | -29.9% | -30.9% | -31.9% | -32.9% |
| Healthcare Equipment | -24.9% | -25.9% | -26.9% | -27.9% | -28.9% | -29.9% | -30.9% | -31.9% | -32.9% | -33.9% |
| Healthcare Research | -25.9% | -26.9% | -27.9% | -28.9% | -29.9% | -30.9% | -31.9% | -32.9% | -33.9% | -34.9% |
| Healthcare Services | -26.9% | -27.9% | -28.9% | -29.9% | -30.9% | -31.9% | -32.9% | -33.9% | -34.9% | -35.9% |
| Healthcare Equipment | -27.9% | -28.9% | -29.9% | -30.9% | -31.9% | -32.9% | -33.9% | -34.9% | -35.9% | -36.9% |
| Healthcare Research | -28.9% | -29.9% | -30.9% | -31.9% | -32.9% | -33.9% | -34.9% | -35.9% | -36.9% | -37.9% |
| Healthcare Services | -29.9% | -30.9% | -31.9% | -32.9% | -33.9% | -34.9% | -35.9% | -36.9% | -37.9% | -38.9% |
| Healthcare Equipment | -30.9% | -31.9% | -32.9% | -33.9% | -34.9% | -35.9% | -36.9% | -37.9% | -38.9% | -39.9% |
| Healthcare Research | -31.9% | -32.9% | -33.9% | -34.9% | -35.9% | -36.9% | -37.9% | -38.9% | -39.9% | -40.9% |
| Healthcare Services | -32.9% | -33.9% | -34.9% | -35.9% | -36.9% | -37.9% | -38.9% | -39.9% | -40.9% | -41.9% |
| Healthcare Equipment | -33.9% | -34.9% | -35.9% | -36.9% | -37.9% | -38.9% | -39.9% | -40.9% | -41.9% | -42.9% |
| Healthcare Research | -34.9% | -35.9% | -36.9% | -37.9% | -38.9% | -39.9% | -40.9% | -41.9% | -42.9% | -43.9% |
| Healthcare Services | -35.9% | -36.9% | -37.9% | -38.9% | -39.9% | -40.9% | -41.9% | -42.9% | -43.9% | -44.9% |
| Healthcare Equipment | -36.9% | -37.9% | -38.9% | -39.9% | -40.9% | -41.9% | -42.9% | -43.9% | -44.9% | -45.9% |
| Healthcare Research | -37.9% | -38.9% | -39.9% | -40.9% | -41.9% | -42.9% | -43.9% | -44.9% | -45.9% | -46.9% |
| Healthcare Services | -38.9% | -39.9% | -40.9% | -41.9% | -42.9% | -43.9% | -44.9% | -45.9% | -46.9% | -47.9% |
| Healthcare Equipment | -39.9% | -40.9% | -41.9% | -42.9% | -43.9% | -44.9% | -45.9% | -46.9% | -47.9% | -48.9% |
| Healthcare Research | -40.9% | -41.9% | -42.9% | -43.9% | -44.9% | -45.9% | -46.9% | -47.9% | -48.9% | -49.9% |
| Healthcare Services | -41.9% | -42.9% | -43.9% | -44.9% | -45.9% | -46.9% | -47.9% | -48.9% | -49.9% | -50.9% |
| Healthcare Equipment | -42.9% | -43.9% | -44.9% | -45.9% | -46.9% | -47.9% | -48.9% | -49.9% | -50.9% | -51.9% |
| Healthcare Research | -43.9% | -44.9% | -45.9% | -46.9% | -47.9% | -48.9% | -49.9% | -50.9% | -51.9% | -52.9% |
| Healthcare Services | -44.9% | -45.9% | -46.9% | -47.9% | -48.9% | -49.9% | -50.9% | -51.9% | -52.9% | -53.9% |
| Healthcare Equipment | -45.9% | -46.9% | -47.9% | -48.9% | -49.9% | -50.9% | -51.9% | -52.9% | -53.9% | -54.9% |
| Healthcare Research | -46.9% | -47.9% | -48.9% | -49.9% | -50.9% | -51.9% | -52.9% | -53.9% | -54.9% | -55.9% |
| Healthcare Services | -47.9% | -48.9% | -49.9% | -50.9% | -51.9% | -52.9% | -53.9% | -54.9% | -55.9% | -56.9% |
| Healthcare Equipment | -48.9% | -49.9% | -50.9% | -51.9% | -52.9% | -53.9% | -54.9% | -55.9% | -56.9% | -57.9% |
| Healthcare Research | -49.9% | -50.9% | -51.9% | -52.9% | -53.9% | -54.9% | -55.9% | -56.9% | -57.9% | -58.9% |
| Healthcare Services | -50.9% | -51.9% | -52.9% | -53.9% | -54.9% | -55.9% | -56.9% | -57.9% | -58.9% | -59.9% |
| Healthcare Equipment | -51.9% | -52.9% | -53.9% | -54.9% | -55.9% | -56.9% | -57.9% | -58.9% | -59.9% | -60.9% |
| Healthcare Research | -52.9% | -53.9% | -54.9% | -55.9% | -56.9% | -57.9% | -58.9% | -59.9% | -60.9% | -61.9% |
| Healthcare Services | -53.9% | -54.9% | -55.9% | -56.9% | -57.9% | -58.9% | -59.9% | -60.9% | -61.9% | -62.9% |
| Healthcare Equipment | -54.9% | -55.9% | -56.9% | -57.9% | -58.9% | -59.9% | -60.9% | -61.9% | -62.9% | -63.9% |
| Healthcare Research | -55.9% | -56.9% | -57.9% | -58.9% | -59.9% | -60.9% | -61.9% | -62.9% | -63.9% | -64.9% |
| Healthcare Services | -56.9% | -57.9% | -58.9% | -59.9% | -60.9% | -61.9% | -62.9% | -63.9% | -64.9% | -65.9% |
| Healthcare Equipment | -57.9% | -58.9% | -59.9% | -60.9% | -61.9% | -62.9% | -63.9% | -64.9% | -65.9% | -66.9% |
| Healthcare Research | -58.9% | -59.9% | -60.9% | -61.9% | -62.9% | -63.9% | -64.9% | -65.9% | -66.9% | -67.9% |
| Healthcare Services | -59.9% | -60.9% | -61.9% | -62.9% | -63.9% | -64.9% | -65.9% | -66.9% | -67.9% | -68.9% |
| Healthcare Equipment | -60.9% | -61.9% | -62.9% | -63.9% | -64.9% | -65.9% | -66.9% | -67.9% | -68.9% | -69.9% |
| Healthcare Research | -61.9% | -62.9% | -63.9% | -64.9% | -65.9% | -66.9% | -67.9% | -68.9% | -69.9% | -70.9% |
| Healthcare Services | -62.9% | -63.9% | -64.9% | -65.9% | -66.9% | -67.9% | -68.9% | -69.9% | -70.9% | -71.9% |
| Healthcare Equipment | -63.9% | -64.9% | -65.9% | -66.9% | -67.9% | -68.9% | -69.9% | -70.9% | -71.9% | -72.9% |
| Healthcare Research | -64.9% | -65.9% | -66.9% | -67.9% | -68.9% | -69.9% | -70.9% | -71.9% | -72.9% | -73.9% |
| Healthcare Services | -65.9% | -66.9% | -67.9% | -68.9% | -69.9% | -70.9% | -71.9% | -72.9% | -73.9% | -74.9% |
| Healthcare Equipment | -66.9% | -67.9% | -68.9% | -69.9% | -70.9% | -71.9% | -72.9% | -73.9% | -74.9% | -75.9% |
| Healthcare Research | -67.9% | -68.9% | -69.9% | -70.9% | -71.9% | -72.9% | -73.9% | -74.9% | -75.9% | -76.9% |
| Healthcare Services | -68.9% | -69.9% | -70.9% | -71.9% | -72.9% | -73.9% | -74.9% | -75.9% | -76.9% | -77.9% |
| Healthcare Equipment | -69.9% | -70.9% | -71.9% | -72.9% | -73.9% | -74.9% | -75.9% | -76.9% | -77.9% | -78.9% |
| Healthcare Research | -70.9% | -71.9% | -72.9% | -73.9% | -74.9% | -75.9% | -76.9% | -77.9% | -78.9% | -79.9% |
| Healthcare Services | -71.9% | -72.9% | -73.9% | -74.9% | -75.9% | -76.9% | -77.9% | -78.9% | -79.9% | -80.9% |
| Healthcare Equipment | -72.9% | -73.9% | -74.9% | -75.9% | -76.9% | -77.9% | -78.9% | -79.9% | -80.9% | -81.9% |
| Healthcare Research | -73.9% | -74.9% | -75.9% | -76.9% | -77.9% | -78.9% | -79.9% | -80.9% | -81.9% | -82.9% |
| Healthcare Services | -74.9% | -75.9% | -76.9% | -77.9% | -78.9% | -79.9% | -80.9% | -81.9% | -82.9% | -83.9% |
| Healthcare Equipment | -75.9% | -76.9% | -77.9% | -78.9% | -79.9% | -80.9% | -81.9% | -82.9% | -83.9% | -84.9% |
| Healthcare Research | -76.9% | -77.9% | -78.9% | -79.9% | -80.9% | -81.9% | -82.9% | -83.9% | -84.9% | -85.9% |
| Healthcare Services | -77.9% | -78.9% | -79.9% | -80.9% | -81.9% | -82.9% | -83.9% | -84.9% | -85.9% | -86.9% |
| Healthcare Equipment | -78.9% | -79.9% | -80.9% | -81.9% | -82.9% | -83.9% | -84.9% | -85.9% | -86.9% | -87.9% |
| Healthcare Research | -79.9% | -80.9% | -81.9% | -82.9% | -83.9% | -84.9% | -85.9% | -86.9% | -87.9% | -88.9% |
| Healthcare Services | -80.9% | -81.9% | -82.9% | -83.9% | -84.9% | -85.9% | -86.9% | -87.9% | -88.9% | -89.9% |
| Healthcare Equipment | -81.9% | -82.9% | -83.9% | -84.9% | -85.9% | -86.9% | -87.9% | -88.9% | -89.9% | -90.9% |
| Healthcare Research | -82.9% | -83.9% | -84.9% | -85.9% | -86.9% | -87.9% | -88.9% | -89.9% | -90.9% | -91.9% |
| Healthcare Services | -83.9% | -84.9% | -85.9% | -86.9% | -87.9% | -88.9% | -89.9% | -90.9% | -91.9% | -92.9% |
| Healthcare Equipment | -84.9% | -85.9 | | | | | | | | |

Can investors turn losses to profits?

| S&P 500 Bear Markets | Duration | % Decline | Time to Breakeven |
|----------------------|-----------|-----------|-------------------|
| May 46 - Mar 48 | 22 months | -28.1 | 4.1 years |
| Aug 56 - Oct 57 | 14 months | -21.6 | 2.1 years |
| Dec 61 - Jun 62 | 6 months | -28.0 | 1.8 years |
| Feb 66 - Oct 66 | 8 months | -22.2 | 1.4 years |
| Nov 68 - May 70 | 18 months | -36.1 | 3.3 years |
| Jan 73 - Oct 74 | 21 months | -48.2 | 7.6 years |
| Nov 80 - Aug 82 | 21 months | -27.1 | 2.1 years |
| Aug 87 - Dec 87 | 4 months | -33.5 | 1.9 years |
| Jul 90 - Oct 90 | 3 months | -19.9 | .6 years |
| Sep 00 - Mar 03 | 30 months | -49.0 | 6.8 years |
| Oct 07 - ? | ? | -48.9 | ? |

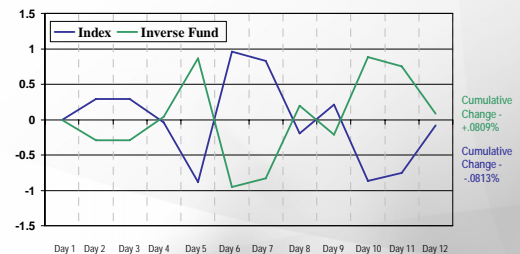
Tools to turn losses to profits

- Invest in funds that “short” a market index
 - Bear funds
 - Inverse funds
 - Leveraged inverse funds
- Use hedging strategies
 - Strategically use instruments in the market to offset the risk of any adverse price movements.
 - Most hedging techniques use financial instruments known as derivatives, the two most common of which are options and futures.

Bear fund example

- Takes short positions in individual stocks and market proxies.
- Purchases put options to benefit from anticipated declines in stocks or market indexes.
- Long positions might consist of gold, or stocks that typically perform better in market downturns.

Example of an inverse fund



This is a hypothetical example and is used for illustrative purposes only. It is important to realize that after day one - due to the impact of compounding - an inverse fund's return will never exactly mirror its index.

Hedging with put options and futures

- A put option gives the buyer the right to sell a number of shares of stock at a pre-determined price until the option's expiration date.
- Put options lose value in flat or rising markets, but increase exponentially in value in a falling market.
- A futures contract is a legally binding agreement to buy or sell a specific commodity or financial instrument on a particular date in the future at an agreed upon price.

Successful investing requires structure

- The right investment strategy is the one that works with the investor's abilities, personality and knowledge.
- Successful investing requires a carefully considered plan of action based on market knowledge, non-emotional trading rules and the discipline to stick with the strategy.
- There is no perfect investment approach. All investment strategies will have unsuccessful trades.

A successful strategy is one in which winning trades more than offset losses.

Risk is a part of every investment

- All investments have the potential for loss as well as profit.
- An investment approach that sounds too good to be true generally is.
- The information provided here is intended to be general in nature and should not be construed as investment advice or as a recommendation of any specific fund, security or investment approach.

Too conservative of an investment approach could leave your greatest risk that of running out of money in retirement.



Company name

- Contact information
- Required disclaimers, affiliations

