

Periodic Table of Style Rotation — Stocks

This style rotation table compares the returns of various indices. Fluctuations in market cycles demonstrate the importance of diversification. Diversification does not assure a profit nor does it protect against loss of principal. As with any investment, it is possible to lose money.

Large Cap Stocks are represented by the Russell 1000 Index, which measures the performance of the large-cap segment of the U.S. equity universe. It is a subset of the Russell 3000 Index and includes approximately 1,000 of the largest securities based on a combination of their market cap and current index membership. The Russell 1000 represents approximately 92% of the U.S. market.

Large Growth Stocks are represented by the Russell 1000 Growth Index, which measures the performance of the large-cap growth segment of the U.S. equity universe. It includes those Russell 1000 companies with higher price-to-book ratios and higher forecasted growth values.

Large Value Stocks are represented by the Russell 1000 Value Index, which measures the performance of the large-cap value segment of the U.S. equity universe. It includes those Russell 1000 companies with lower price-to-book ratios and lower expected growth values.

Mid Cap Stocks are represented by the Russell Midcap Index, which measures the performance of the mid-cap segment of the U.S. equity universe. The Russell Midcap Index is a subset of the Russell 1000 Index. It includes approximately 800 of the smallest securities based on a combination of their market cap and current index membership. The Russell Midcap Index represents approximately 31% of the total market capitalization of the Russell 1000 companies.

Small Cap Stocks are represented by the Russell 2000 Index, which measures the performance of the small-cap segment of the U.S. equity universe. The Russell 2000 Index is a subset of the Russell 3000 Index, representing approximately 10% of the total market capitalization of that index. It includes approximately 2,000 of the smallest securities based on a combination of their market cap and current index membership.

Foreign Stocks are represented by the MSCI EAFE Index (Europe, Australasia, and Far East), which is a widely followed index of common stocks from 22 developed market countries.

Emerging Markets are represented by the MSCI Emerging Markets Index, which measures the performance of stocks in global emerging market countries.

Real Estate is represented by the Wilshire U.S. REIT Index, which measures the performance of U.S. publicly traded Real Estate Investment Trusts.

Commodities are represented by the Bloomberg Commodity Total Return Index, which is composed of futures contracts and reflects the returns on a fully collateralized investment in the BCOM. This combines the returns of the BCOM with the returns on cash collateral invested in 13 week (3 Month) U.S. Treasury Bills.

Bonds are represented by the Bloomberg Barclays U.S. Aggregate Bond Index, which covers the USD- denominated, investment-grade, fixed-rate, taxable bond market. The index includes government and corporate securities, mortgage-backed securities, and asset-backed securities, with maturities of at least one year.

The **Diversified Portfolio** is represented by an equal portion (10%) of the 10 indices in the periodic table.

A mutual fund's portfolio may differ significantly from the securities held in the indices. These indices are not available for direct investment; therefore, their performance does not reflect the expenses associated with the active management of an actual portfolio.

Standard Deviation measures how widely performance has varied from an average, and it is an indicator for potential volatility. A high standard deviation indicates that the range of performance has been wide, identifying greater potential volatility.

The standard deviations shown are calculated by Morningstar. Morningstar computes standard deviation using the trailing monthly total returns for the appropriate time period. All of the monthly standard deviations are then annualized.

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ANNUAL RETURNS FOR SELECTED ASSET CLASSES

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018		10-Year Annualized Return	10-Year Standard Deviation	
Emerging Markets	78.51	Real Estate 28.60	Real Estate 9.24	Emerging Markets 18.22	Small Cap Stocks 38.82	Real Estate 31.78	Large Growth Stocks 5.67	Small Cap Stocks 21.31	Emerging Markets 37.28	Bonds 0.01	BEST PERFORMANCE	Large Growth Stocks 15.29	Real Estate 21.38	HIGHEST VOLATILITY
Mid Cap Stocks	40.48	Small Cap Stocks 26.85	Bonds 7.84	Real Estate 17.59	Mid Cap Stocks 34.76	Large Value Stocks 13.45	Real Estate 4.23	Large Value Stocks 17.34	Large Growth Stocks 30.21	Large Growth Stocks -1.51		Mid Cap Stocks 14.03	Emerging Markets 19.27	
Large Growth Stocks	37.21	Mid Cap Stocks 25.48	Large Growth Stocks 2.64	Large Value Stocks 17.51	Large Growth Stocks 33.48	Large Cap Stocks 13.24	Large Cap Stocks 0.92	Mid Cap Stocks 13.80	Foreign Stocks 25.03	Large Cap Stocks -4.78		Large Cap Stocks 13.28	Small Cap Stocks 18.44	
Foreign Stocks	31.78	Emerging Markets 18.88	Large Cap Stocks 1.50	Foreign Stocks 17.32	Large Cap Stocks 33.11	Mid Cap Stocks 13.22	Bonds 0.55	Large Cap Stocks 12.05	Large Cap Stocks 21.69	Real Estate -4.84		Real Estate 12.19	Foreign Stocks 16.27	
Diversified Portfolio	31.67	Diversified Portfolio 17.92	Large Value Stocks 0.39	Mid Cap Stocks 17.28	Large Value Stocks 32.53	Large Growth Stocks 13.05	Foreign Stocks -0.81	Commodities 11.77	Mid Cap Stocks 18.52	Diversified Portfolio -7.91		Small Cap Stocks 11.97	Mid Cap Stocks 15.27	
Real Estate	28.60	Commodities 16.83	Mid Cap Stocks -1.55	Large Cap Stocks 16.42	Foreign Stocks 22.78	Diversified Portfolio 7.15	Mid Cap Stocks -2.44	Emerging Markets 11.19	Diversified Portfolio 17.05	Large Value Stocks -8.27		Large Value Stocks 11.18	Large Value Stocks 14.49	
Large Cap Stocks	28.43	Large Growth Stocks 16.71	Diversified Portfolio -2.80	Small Cap Stocks 16.35	Diversified Portfolio 18.32	Bonds 5.97	Large Value Stocks -3.83	Diversified Portfolio 10.54	Small Cap Stocks 14.65	Mid Cap Stocks -9.06		Diversified Portfolio 9.57	Commodities 14.32	
Small Cap Stocks	27.17	Large Cap Stocks 16.10	Small Cap Stocks -4.18	Large Growth Stocks 15.26	Real Estate 1.86	Small Cap Stocks 4.89	Diversified Portfolio -3.97	Real Estate 7.24	Large Value Stocks 13.66	Small Cap Stocks -11.01		Emerging Markets 8.02	Large Cap Stocks 13.76	
Large Value Stocks	19.69	Large Value Stocks 15.51	Foreign Stocks -12.14	Diversified Portfolio 13.91	Bonds -2.02	Emerging Markets -2.19	Small Cap Stocks -4.41	Large Growth Stocks 7.08	Real Estate 4.18	Commodities -11.25		Foreign Stocks 6.32	Large Growth Stocks 13.70	
Commodities	18.91	Foreign Stocks 7.75	Commodities -13.32	Bonds 4.21	Emerging Markets -2.60	Foreign Stocks -4.90	Emerging Markets -14.92	Bonds 2.65	Bonds 3.54	Foreign Stocks -13.79		Bonds 3.48	Diversified Portfolio 12.79	
Bonds	5.93	Bonds 6.54	Emerging Markets -18.42	Commodities -1.06	Commodities -9.52	Commodities -17.01	Commodities -24.66	Foreign Stocks 1.00	Commodities 1.70	Emerging Markets -14.58		Commodities -3.78	Bonds 2.84	LOWEST VOLATILITY
Average Annualized Inflation Rate	-0.4%	1.6%	3.2%	2.1%	1.5%	1.6%	0.1%	1.3%	2.1%	2.4%	WORST PERFORMANCE			
Year-End Fed Funds Rate	0.00-0.25%	0.00-0.25%	0.00-0.25%	0.00-0.25%	0.00-0.25%	0.00-0.25%	0.25-0.50%	0.50-0.75%	1.25-1.50%	2.25-2.50%				

Returns shown for selected stock indices are total returns, and thus include dividends. Past performance is no guarantee of future results. This information is for illustrative purposes only and is not intended to represent any particular investment product.

Sources: U.S. Bureau of Labor Statistics; Federal Reserve;

Non-FDIC Insured • May Lose Value • No Bank Guarantee

Periodic Table of Sector Rotation — Bonds

This sector rotation table compares the returns of various indices. Fluctuations in market cycles demonstrate the importance of diversification. Diversification does not assure a profit nor does it protect against loss of principal. As with any investment, it is possible to lose money.

ANNUAL RETURNS FOR SELECTED BOND SECTORS

T-Bills are represented by the Citigroup 3-Month T-Bill Index, an index of three-month Treasury Bills.

Treasuries are represented by the Bloomberg Barclays U.S. Treasury Index, which is comprised of U.S. Treasury securities with a remaining maturity of at least one year.

TIPS are represented by the Bloomberg Barclays U.S. Treasury Inflation-Protected Securities Index, which measures the return of U.S. Treasuries with fixed-rate coupon payments that adjust for inflation as measured by the Consumer Price Index for All Urban Consumers (CPI-U).

Mortgages are represented by the Bloomberg Barclays U.S. Mortgage-Backed Securities (MBS) Index, which is comprised of 30- and 15-year fixed-rate agency mortgage-backed pass-through securities issued by Ginnie Mae (GNMA), Fannie Mae (FNMA), and Freddie Mac (FHLMC), as well as hybrid adjustable-rate mortgage (ARM) pass-through securities.

Investment Grade Corporates are represented by the Bloomberg Barclays U.S. Corporate Investment-Grade Index, which tracks the performance of publicly issued, USD-denominated, fixed-rate, investment-grade corporate debt.

High Yield Corporates are represented by the Bloomberg Barclays U.S. Corporate High-Yield Index, which tracks the performance of publicly issued, USD-denominated, fixed-rate, below investment-grade corporate debt.

Unhedged Foreign Bonds are represented by the Bloomberg Barclays Global Treasury ex-U.S. Index, which tracks the performance of investment-grade, fixed-rate, local-currency-denominated sovereign debt from certain foreign countries.

Investment Grade Municipals are represented by the Bloomberg Barclays Municipal Bond Index, which is a market value-weighted index designed for the long-term, investment-grade, tax-exempt bond market.

High Yield Municipals are represented by the Bloomberg Barclays High Yield Muni Index, which is composed of U.S. non-investment grade municipal securities with a remaining maturity of one year or more.

Aggregate Bond Index is represented by the Bloomberg Barclays U.S. Aggregate Bond Index, which covers the USD-denominated, investment-grade, fixed-rate, taxable bond market. The index includes government and corporate securities, mortgage-backed securities, and asset-backed securities, with maturities of at least one year.

Emerging Markets Bonds is represented the J.P. Morgan Emerging Markets Bond Index Global Diversified which tracks total returns for U.S. dollar denominated debt instruments issued by emerging market sovereign and quasi-sovereign entities: Brady bonds, loans, Eurobonds. The diversified index limits the exposure of some of the larger countries.

A mutual fund's portfolio may differ significantly from the securities held in the indices. These indices are not available for direct investment; therefore, their performance does not reflect the expenses associated with the active management of an actual portfolio.

Inflation is represented by the Consumer Price Index for All Urban Consumers (CPI-U). CPI-U measures changes in the prices paid by urban consumers for a representative basket of goods and services.

The **federal funds rate** is the interest rate at which depository institutions lend balances at the Federal Reserve to other depository institutions overnight.

Sources: U.S. Bureau of Labor Statistics; Federal Reserve; Barclays; Morningstar; Russell Investments

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	10-Year Annualized Return	10-Year Standard Deviation
High Yield Corporates	58.21	15.12	TIPS 13.56	High Yield Municipals 18.14	High Yield Corporates 7.44	High Yield Municipals 13.84	Investment Grade Munis 3.30	High Yield Corporates 17.13	Emerging Markets Bonds 10.26	High Yield Municipals 4.76	High Yield Corporates 11.12	High Yield Corporates 7.70
High Yield Municipals	32.74	Emerging Markets Bonds 12.24	Investment Grade Munis 10.70	Emerging Markets Bonds 17.44	T-Bills 0.05	Investment Grade Munis 9.05	High Yield Municipals 1.81	Emerging Markets Bonds 10.15	High Yield Municipals 9.69	T-Bills 1.86	High Yield Municipals 9.12	Unhedged Foreign Bonds 7.58
Emerging Markets Bonds	29.82	Investment Grade Corps 9.00	Treasuries 9.81	High Yield Corporates 15.81	Mortgages -1.41	Investment Grade Corps 7.46	Mortgages 1.51	Investment Grade Corps 6.11	Unhedged Foreign Bonds 9.31	Investment Grade Munis 1.28	Emerging Markets Bonds 8.20	Emerging Markets Bonds 6.56
Investment Grade Corps	18.68	High Yield Municipals 7.79	High Yield Municipals 9.25	Investment Grade Corps 9.82	Investment Grade Corps -1.53	Emerging Markets Bonds 7.43	Emerging Markets Bonds 1.18	TIPS 4.68	High Yield Corporates 7.50	Mortgages 0.99	Investment Grade Corps 5.92	High Yield Municipals 6.46
Investment Grade Munis	12.91	Aggregate Bond Index 6.54	Investment Grade Corps 8.15	TIPS 6.98	Aggregate Bond Index -2.02	Mortgages 6.08	Treasuries 0.84	High Yield Municipals 2.99	Investment Grade Corps 6.42	Treasuries 0.86	Investment Grade Munis 4.85	TIPS 4.89
TIPS	11.41	TIPS 6.31	Aggregate Bond Index 7.84	Investment Grade Munis 6.78	Investment Grade Munis -2.55	Aggregate Bond Index 5.97	Aggregate Bond Index 0.55	Aggregate Bond Index 2.65	Investment Grade Munis 5.45	Aggregate Bond Index 0.01	TIPS 3.64	Investment Grade Corps 4.47
Aggregate Bond Index	5.93	Unhedged Foreign Bonds 6.12	Emerging Markets Bonds 7.35	Aggregate Bond Index 4.21	Treasuries -2.75	Treasuries 5.05	T-Bills 0.03	Unhedged Foreign Bonds 1.87	Aggregate Bond Index 3.54	Unhedged Foreign Bonds -0.89	Aggregate Bond Index 3.48	Investment Grade Munis 3.85
Mortgages	5.89	Treasuries 5.87	Mortgages 6.23	Mortgages 2.59	Unhedged Foreign Bonds -4.88	TIPS 3.64	Investment Grade Corps -0.68	Mortgages 1.67	TIPS 3.01	TIPS -1.26	Mortgages 3.11	Treasuries 3.66
Unhedged Foreign Bonds	4.35	Mortgages 5.37	Unhedged Foreign Bonds 5.24	Treasuries 1.99	Emerging Markets Bonds -5.25	High Yield Corporates 2.45	TIPS -1.44	Treasuries 1.04	Mortgages 2.47	High Yield Corporates -2.08	Treasuries 2.08	Aggregate Bond Index 2.84
T-Bills	0.16	Investment Grade Munis 2.38	High Yield Corporates 4.98	Unhedged Foreign Bonds 1.77	High Yield Municipals -5.51	T-Bills 0.03	High Yield Corporates -4.47	T-Bills 0.27	Treasuries 2.31	Investment Grade Corps -2.51	Unhedged Foreign Bonds 1.42	Mortgages 2.19
Treasuries	-3.57	T-Bills 0.13	T-Bills 0.08	T-Bills 0.07	TIPS -8.61	Unhedged Foreign Bonds -2.77	Unhedged Foreign Bonds -4.84	Investment Grade Munis 0.25	T-Bills 0.84	Emerging Markets Bonds -4.26	T-Bills 0.35	T-Bills 0.16
Average Annualized Inflation Rate	-0.4%	1.6%	3.2%	2.1%	1.5%	1.6%	0.1%	1.3%	2.1%	2.4%		
Year-End Fed Funds Rate	0.00-0.25%	0.00-0.25%	0.00-0.25%	0.00-0.25%	0.00-0.25%	0.00-0.25%	0.25-0.50%	0.50-0.75%	1.25-1.50%	2.25-2.50%		

