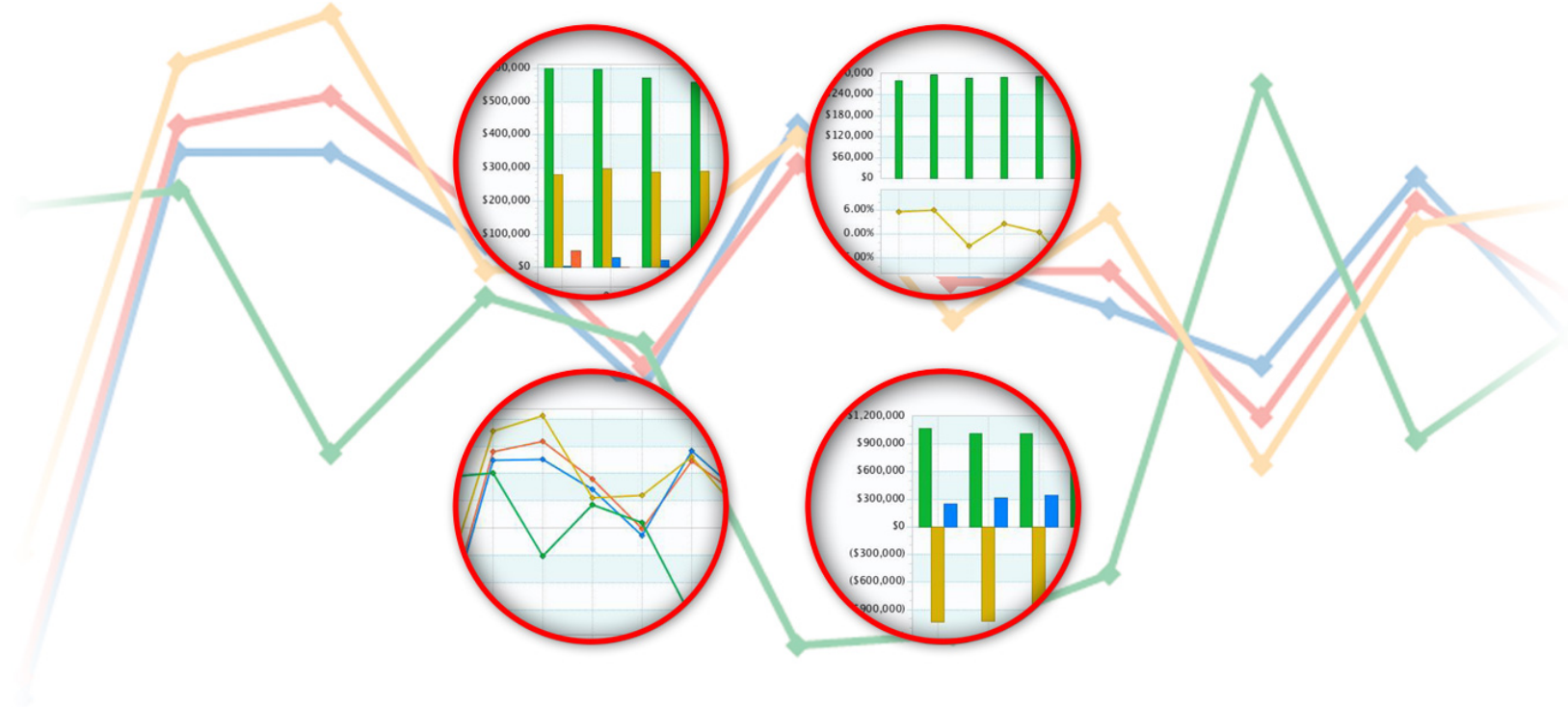


PortfolioAnalyst



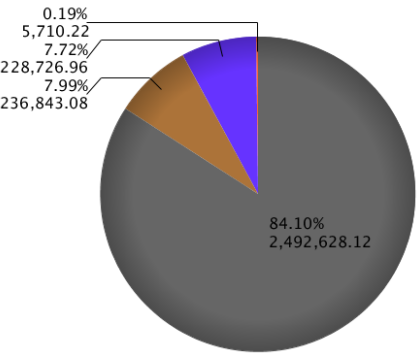
Introduction

Name:	Performance
Account:	Consolidated
Alias:	master
Base Currency:	USD
Analysis Period:	January 1, 2016 to December 31, 2016 (Monthly)
Performance Measure:	TWR

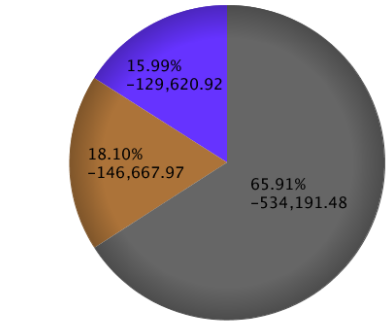
Allocation by Region

Allocation By Region

Long Positions



Short Positions



North America Asia
Europe Oceania

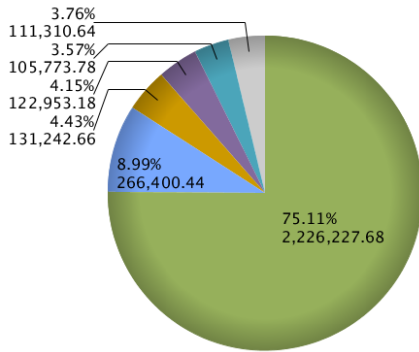
North America Asia Europe

Region	Long Weight (%)
North America	84.10
Asia	7.99
Europe	7.72
Oceania	0.19
Total	100.00

Region	Short Weight (%)
North America	65.91
Asia	18.10
Europe	15.99
Total	100.00

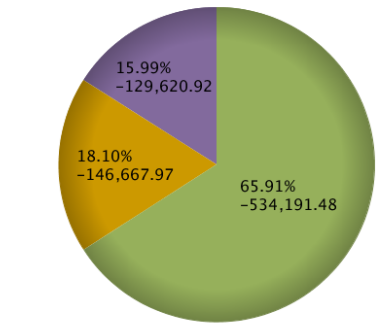
Top 5 Countries

Long Positions



United States Canada China
Netherlands Britain Other

Short Positions

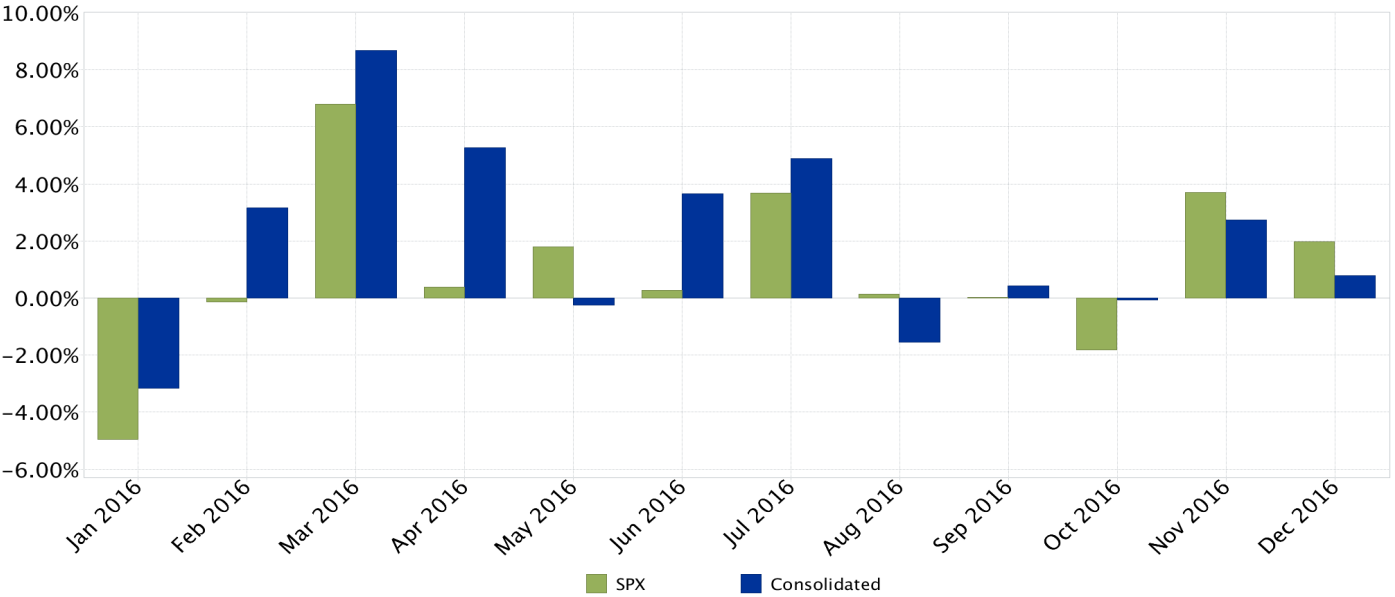


United States China Netherlands

Country	Long Weight (%)
United States	75.11
Canada	8.99
China	4.43
Netherlands	4.15
Britain	3.57
Other	3.76
Total	100.00

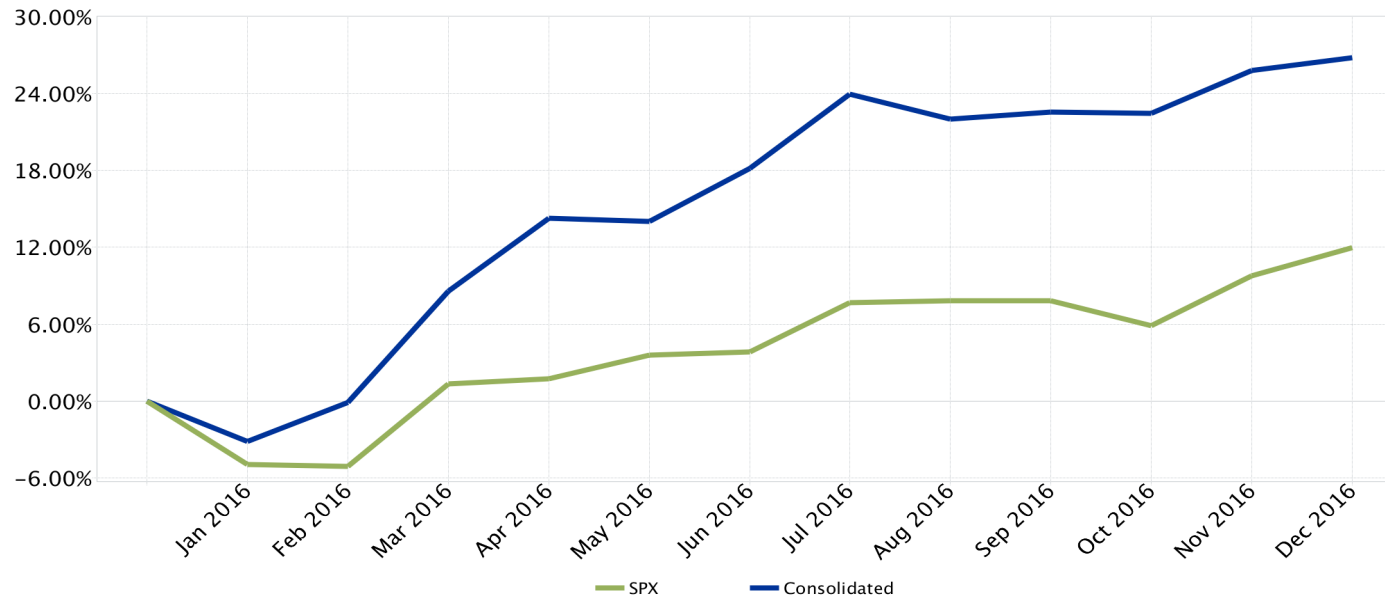
Country	Short Weight (%)
United States	65.91
China	18.10
Netherlands	15.99
Total	100.00

Time Period Benchmark Comparison



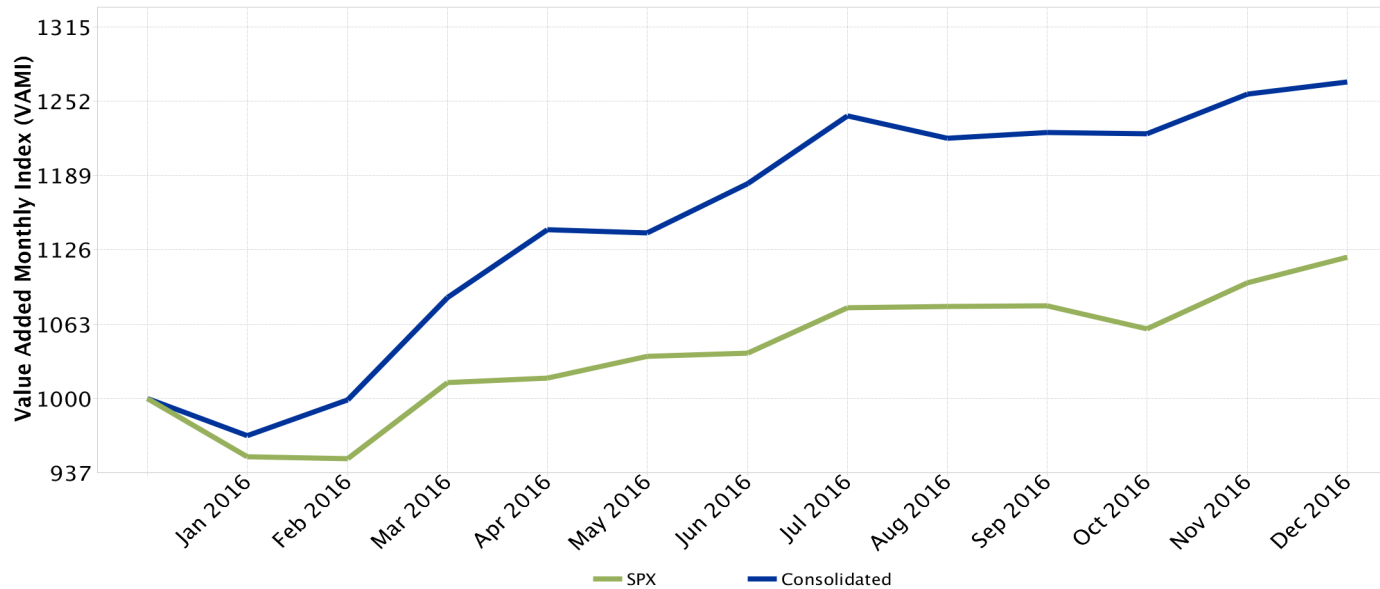
Date	SPX	Consolidated
Jan 2016	-4.96%	-3.17%
Feb 2016	-0.13%	3.17%
Mar 2016	6.78%	8.67%
Apr 2016	0.39%	5.26%
May 2016	1.80%	-0.24%
Jun 2016	0.26%	3.66%
Jul 2016	3.69%	4.88%
Aug 2016	0.14%	-1.54%
Sep 2016	0.02%	0.42%
Oct 2016	-1.82%	-0.08%
Nov 2016	3.70%	2.73%
Dec 2016	1.97%	0.80%
Average	0.99%	2.05%

Cumulative Benchmark Comparison



Date	SPX	Consolidated
Jan 2016	-4.96%	-3.17%
Feb 2016	-5.09%	-0.10%
Mar 2016	1.35%	8.57%
Apr 2016	1.74%	14.28%
May 2016	3.57%	14.00%
Jun 2016	3.84%	18.18%
Jul 2016	7.67%	23.94%
Aug 2016	7.82%	22.03%
Sep 2016	7.84%	22.54%
Oct 2016	5.87%	22.45%
Nov 2016	9.79%	25.80%
Dec 2016	11.95%	26.80%
Jan 2016 to Dec 2016	11.95%	26.80%

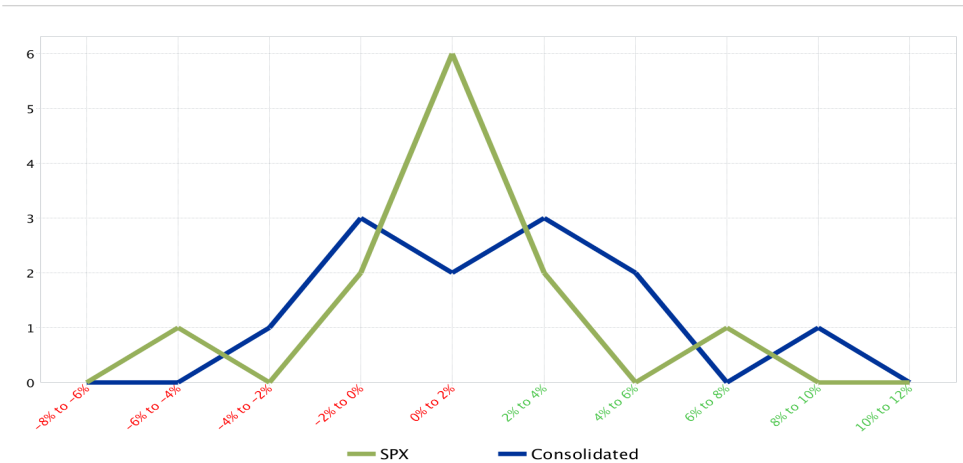
Risk Measures Benchmark Comparison



Risk Analysis

	SPX	Consolidated
Ending VAMI	1,119.55	1,267.96
Max Drawdown:	5.09%	3.17%
Peak-To-Valley:	Start - Feb 16	Start - Jan 16
Recovery:	1 Month	2 Months
Sharpe Ratio:	1.10	2.14
Sortino Ratio:	0.76	3.91
Calmar Ratio:	2.35	8.47
Standard Deviation:	2.84%	3.17%
Downside Deviation:	1.78%	1.29%
Mean Return:	0.99%	2.05%
Positive Periods:	9 (75.00%)	8 (66.67%)
Negative Periods:	3 (25.00%)	4 (33.33%)

Distribution of Returns



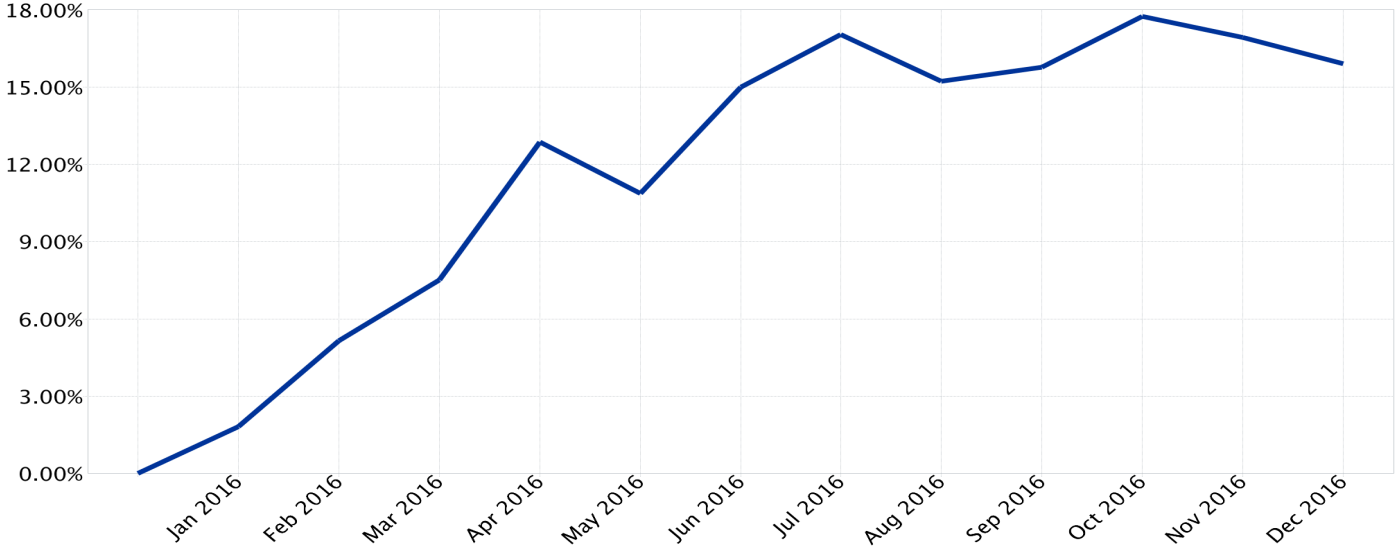
Performance Attribution vs. S&P 500

Sector	Beginning Weight			Ending Weight			Average Weight		
	Consolidated	SPX	+/-	Consolidated	SPX	+/-	Consolidated	SPX	+/-
Basic Materials	2.61%	2.43%	0.19%	0.78%	2.31%	-1.52%	2.17%	2.43%	-0.26%
Communications	16.27%	13.01%	3.26%	4.48%	13.23%	-8.75%	8.84%	13.18%	-4.34%
Consumer Cyclicals	14.06%	10.40%	3.66%	10.50%	9.23%	1.27%	12.71%	10.03%	2.68%
Consumer Non-Cyclicals	6.75%	24.47%	-17.72%	23.80%	22.43%	1.36%	12.50%	24.04%	-11.54%
Diversified	3.96%	0.03%	3.93%	4.06%	0.04%	4.02%	4.00%	0.03%	3.97%
Energy	2.83%	6.53%	-3.69%	-0.26%	7.57%	-7.83%	2.21%	7.07%	-4.87%
Financials	79.20%	17.67%	61.54%	42.73%	18.77%	23.96%	57.67%	17.27%	40.40%
Industrials	-0.26%	9.36%	-9.62%	-0.56%	10.01%	-10.56%	-0.49%	9.65%	-10.13%
Technology	5.40%	13.12%	-7.73%	10.33%	13.25%	-2.91%	12.96%	12.97%	0.00%
Utilities	0.00%	2.99%	-2.99%	0.00%	3.17%	-3.17%	0.00%	3.32%	-3.32%
Cash	-21.14%	0.00%	-21.14%	16.38%	0.00%	16.38%	0.82%	0.00%	0.82%
Unclassified	-9.68%	0.00%	-9.68%	-12.25%	0.00%	-12.25%	-13.52%	0.00%	-13.52%

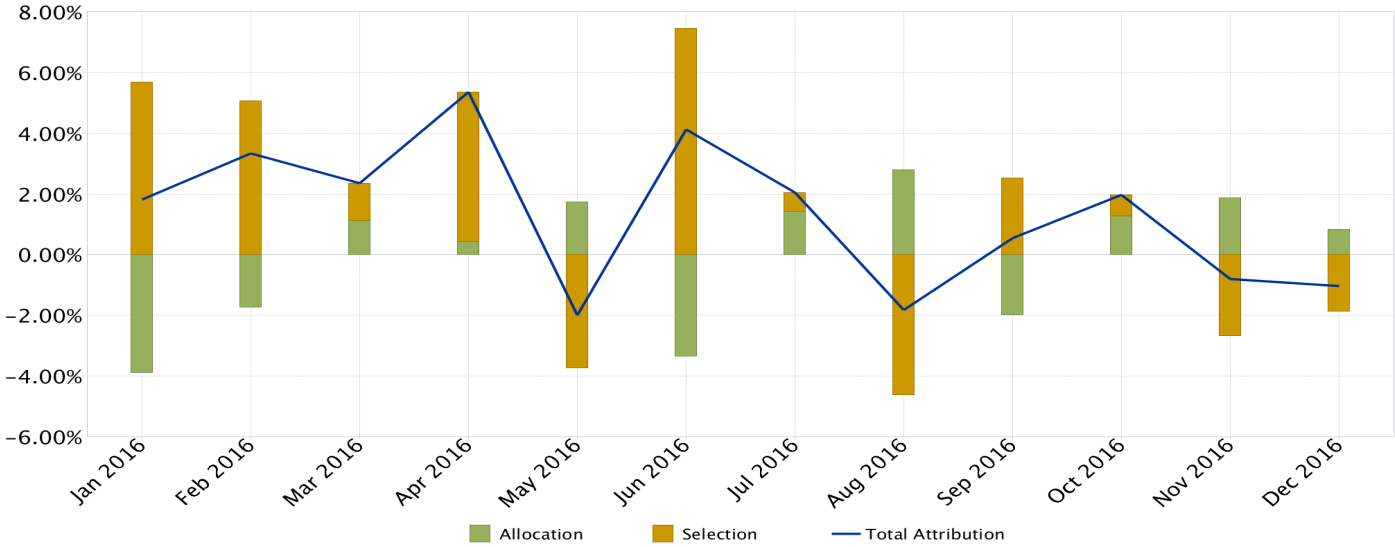
Sector	Period Return			Contribution to Return			Attribution Effect		
	Consolidated	SPX	+/-	Consolidated	SPX	+/-	Allocation	Selection	Total
Basic Materials	93.84%	6.02%	87.82%	3.03%	0.17%	2.85%	-0.01%	2.24%	2.23%
Communications	37.54%	11.86%	25.68%	3.96%	1.59%	2.36%	-0.34%	3.96%	3.62%
Consumer Cyclicals	-8.58%	-1.85%	-6.73%	-0.59%	-0.14%	-0.45%	0.46%	1.65%	2.12%
Consumer Non-Cyclicals	30.07%	1.17%	28.90%	2.58%	0.28%	2.30%	-0.11%	-2.44%	-2.56%
Diversified	15.27%	32.19%	-16.92%	0.57%	0.01%	0.56%	0.51%	0.09%	0.59%
Energy	-64.81%	29.58%	-94.39%	0.91%	2.41%	-1.50%	-2.01%	1.16%	-0.85%
Financials	28.44%	16.66%	11.78%	15.00%	2.98%	12.02%	-2.79%	13.14%	10.36%
Industrials	-260.69%	16.94%	-277.63%	-0.03%	1.68%	-1.72%	-0.24%	-0.92%	-1.17%
Technology	27.73%	11.63%	16.10%	6.14%	1.56%	4.58%	1.57%	5.56%	7.13%
Utilities	0.00%	16.47%	-16.47%	0.00%	0.58%	-0.58%	-0.58%	0.00%	-0.58%
Cash	-32,941.83%	0.00%	-32,941.83%	-7.07%	0.00%	-7.07%	0.00%	1.90%	1.90%
Unclassified	0.30%	0.00%	0.30%	0.41%	0.00%	0.41%	0.00%	-0.24%	-0.24%
Total				26.80%	10.89%	15.91%	0.58%	15.33%	15.91%

Performance Attribution vs. S&P 500 (Cont.)

Cumulative Attribution Effect



Attribution Effect



Performance Attribution vs. S&P 500 (Cont.)

Weighting Effects



Notes

1. The Net Asset Value (NAV) consists of all positions by asset class (stock, securities options, warrants, bonds, cash, etc.). All non-base currency amounts are converted to the base currency at the close of period rate.
2. The deposit/withdrawal amount displayed in the Account Overview report includes internal transfers along with cash and position transfers.
3. There are no open futures positions, as the gain or loss for futures contracts settles into cash each night.
4. Dividend accruals, interest accruals and insured deposits are included in cash amounts throughout the report.
5. Price valuations are obtained from outside parties. Interactive Brokers shall have no responsibility for the accuracy or timeliness of any such price valuation.
6. The Allocation by Sector report includes only the following asset classes; stocks (except ETFs) and options. All other asset classes are included in Unclassified sector.
7. Amounts are formatted to two decimal places. If amounts are greater than two decimal places, Interactive Brokers uses "half-even" rounding. This means that Interactive Brokers rounds such amounts up to the nearest even number.
8. As of December 31, 2015 the historical annual return including dividends since inception of the S&P 500 was 7.14%. This rate is used to calculate the downside deviation and the Sortino ratio.
9. As of June 30, 2016 the US 3 Month Treasury Bill was 0.26%. This is the risk free rate, annualized to 1.04%, used to calculate the Sharpe ratio.
10. The mean return is the average TWR for the period.
11. Frongello is the method used for mathematical smoothing in the Performance Attribution report. It has been developed by Andrew Scott Bay Frongello.
12. For accounts opened and funded before 2009, reports with a time period of Since Inception will include data going back to January 1, 2009. This includes some default reports and both Historical Performance reports.
13. The Modified Dietz method is used to calculate MWR. This method only values the portfolio at the start and end of the period and weights the cash flows. When large flows occur, its accuracy can diminish.

Glossary

Allocation Effect

The percent effectiveness of an account's asset allocation to various sectors. The allocation effect determines whether the overweighting or underweighting of sectors relative to a benchmark contributes negatively or positively to an account's overall return.

Asset Class

A category of investment products in your portfolio. Cash, stocks, options, futures, etc. are examples.

Attribution Effect

The percent effectiveness of asset allocation and selection of securities on the portfolio's performance when compared to the performance of a benchmark over a specified time period.

Benchmark

A standard against which the performance of your portfolio can be measured.

Calmar Ratio

A ratio used to determine return versus drawdown risk.

Contribution To Return

The percent contribution of certain portfolio constituents (symbols, sectors) to the account's overall return.

Cumulative Return

Geometric linking of single period returns. Cumulative return is presented as a percentage.

Downside Deviation

The standard deviation for all negative returns in your portfolio in the specific time period.

Max Drawdown

The largest cumulative percentage decline in the Net Asset Value of your portfolio from the highest or peak value to the lowest or trough value after the peak.

Mean Return

The average time weighted return of your portfolio for a specified time period.

Money Weighted Return (MWR)

Money Weighted Return (MWR) is used to measure performance during the specified report period. MWR is influenced by the time of decisions to contribute or to withdraw funds, as well as the decisions made by the portfolio manager of the fund.

Negative Periods

The number of occurrences of negative performance returns. For example, if you select a monthly report with 12 months, each month with a negative return would be a negative occurrence.

Net Asset Value (NAV)

The total value of your account.

Peak-to-Valley

The time period during which the Max Drawdown (largest cumulative percentage decline in the NAV) occurred.

Period Return

A performance measure that calculates the return you have received over a period of time.

Positive Periods

The number of occurrences of positive performance returns. For example, if you select a monthly report with 12 months, each month with a positive return would be a positive occurrence.

Recovery

The time it took for the NAV of your account to recover from the valley (lowest NAV) back to the peak (highest NAV).

Sector

A firm's general area of business. Financials, Communications and Energy are all examples of sectors.

Selection Effect

A percentage that measures the ability to select securities within a sector relative to a benchmark.

Sharpe Ratio

A ratio that measures the excess return per unit of risk. The ratio is used to characterize how well the return compensates the account holder for the risk taken.

Glossary (Cont.)

Sortino Ratio

The ratio measures the risk adjusted return of the account. The ratio penalizes only those returns that fall below the required rate of return.

Standard Deviation

Standard deviation is a statistical measurement of variability. It shows how much variation or dispersion there is from the average.

Time Period Return

The return your portfolio has gained or lost for the specific time period. Time period performance is presented as a percentage.

Time-Weighted Return (TWR)

TWR measures the percent return produced over time independent of contributions or withdrawals. TWR eliminates the impact of the timing of inflows and outflows and isolates the portion of a portfolio's return that is attributable solely to the account's actions.

Value-Added Monthly Index (VAMI)

A statistical figure that tracks the daily/monthly/quarterly performance of a hypothetical \$1000 investment.

Disclaimer

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