Relative Strength Index (RSI) Trading Strategy:

Analyzing the Performance of RSI with Divergence on Different Stock Sectors

Stat 107: Introduction to Business and Financial Statistics

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**Abstract**

We used the popular trading strategy Relative Strength Index (RSI) to dictate our transactions in the stock market. We applied this strategy to 24 different stocks covering multiple stock sectors (on average 3 per industry except the 6 popular stocks we used) beginning from 2012 to present day. We calculated the different hypothetical profits by adjusting the number of RSI look-back days (2, 4 or 14) as well as the cut-off RSI values (70-30 or 60-40) for various stocks. The RSI signal alone did not give us the desired results that we wanted. There were far more losses than gains in most of the industries, except the volatile ones. Therefore, we added divergence to our RSI kicker signal to make it more reliable. The values that we collected by using the divergence signal were more profitable. More of the stocks outputted positive profits for most of the industries. With these results, we conclude that divergence is crucial and RSI with divergence is a more reliable trading strategy than RSI by itself.

**Introduction**

Relative strength index (RSI) is a momentum oscillator that shows how prices move in a certain trend. Originally, it was developed and published by J. Welles in 1978. It measures the ratio of average gain to average loss in a particular time period of interest and uses that to predict how the prices move.

When RSI signals are low, it means the stock has been oversold. Counterintuitively, signals generated from this low RSI will predict that the stock will be attractive in the near future. This pushes the price up so a buy signal will be generated. The same logic holds for the overbought signal. As you would expect, RSI does not always predict the price movement accurately. Oversold stock might keep on being over sold for several days without showing any rise in price. Also, if a stock starts rising, it might keep on rising even if it is an overbought situation. Many stocks have shown that trend. (for instance AAPL continually increased for a long time). Therefore, we need more control signals in conjunction with RSI.

Divergences offer more reliable signal to indicate points of reversal. That means, they can indicate whether the stock is switching from a rising period to falling period or vice versa with a better degree of accuracy. For instance, if RSI is very high suggesting an overbought position, we might also be interested to see whether RSI has been decreasing in the recent past as well. That gives us more confidence that the prices are actually going down. Divergence measures this change of RSI at particular points. We seek to evaluate how RSI signals would enable us to gain profits in our investments in conjunction with divergence. It is a widely known trading strategy and we want to see how well it performs on different types of stocks.

**Methods**

We used a vector to concatenate different stocks. The stocks we picked represented 5 out of the 10 sectors defined by the Global Industry Classification Standard. In addition to this, we also included groups of miscellaneous stocks with particular unifying characteristics (i.e. popular/tech or very volatile). Then we created a function that does the following (see R code in Appendix I). The function gets the symbols we want, and then creates a vector of RSI values for each day depending on the look-back day we chose. It also creates a vector of closing prices of each day. Then transactions are made based on a particular method we preferred: we enter a long position when the 200-day moving average is less than the five-day moving average and the RSI is less than 30 or 40 (30 and 40 are one of the independent variables that were used in our analysis). Once we are in a long position, we have to exit it. So, we made sure that happens by using a control signal ‘longsig1’. We set it to 2 so the next transaction will be exiting the long position. This avoids multiple ‘Buys’ or ‘Sells’ that happen at the end of the period if we just code it to buy or sell depending on some restrictions. So, in this way we ensure by the end of the last day the numbers of transactions that bought and sold are the same. (Or at most they differ by one and we included a code that takes into that account i.e. if we have bought one more share of stock, we have to sell it at the end of the period using the last closing price and vice versa.). The same analogy works for Short position. Once we enter short position, we have to exit it. If RSI is greater than 60 or 70 and the simple moving average is greater than the closing price, then enter a short position. Exit the short position when RSI falls less than 40 or 30. We varied the RSI look back days using 2, 4 and 14 as a parameter. We also varied the RSI cut off values using 30 and 40.

We extended our methods to include divergence too. Sometimes, even though low RSI values indicate a potential rise in the stock prices, sometimes that might not work. The price might keep going down. Divergences help us to see the momentum of the prices very well. Taking into account divergence, to enter long position, if RSI is less than 30, we compared that RSI value to yesterdays RSI value and see if it is greater than that. If it is, it means that there is a bullish divergence showing a better clue that prices might keep rising in the near future. So, we used the methodology for entering short position and study how incorporating divergence would affect our result.

We categorized our stocks into 7 industries. In each stock sector/industry, we used an average of 3 stocks. For each industry, we found the average profits, number of transactions and so on. We created a table that incorporates all the details even though our main focus would be the profit. These tables with the complete date are in the Appendix II.

**Results**

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| RSI 70-30 Cutoff Summary | | | | | | |
| **Industry** | **RSI(2)** | | **RSI(4)** | | **RSI(14)** | |
| *Average Profit* | *Average Number of Transactions* | *Average Profit* | *Average Number of Transactions* | *Average Profit* | *Average Number of Transactions* |
| *Miscellaneous (Popular/Tech)* | 23.91 | 195.50 | -27.24 | 77.00 | -68.20 | 6.17 |
| *Energy* | -12.49 | 200.00 | -1.14 | 77.00 | 6.71 | 10.00 |
| *Financials* | -10.04 | 163.00 | 10.77 | 72.33 | -7.21 | 6.67 |
| *Consumer Discretionary* | 23.01 | 240.33 | -0.52 | 89.00 | -7.66 | 11.00 |
| *Consumer Staples* | -18.51 | 133.00 | -15.08 | 51.00 | -15.77 | 7.00 |
| *Health Care* | -15.29 | 165.67 | -6.32 | 66.33 | -44.30 | 5.00 |
| *Miscellaneous (Very Volatile)* | 0.87 | 181.00 | -0.58 | 66.67 | -8.00 | 5.33 |

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| --- | --- | --- | --- | --- | --- | --- |
| RSI 60-40 Cutoff Summary | | | | | | |
| **Industry** | **RSI(2)** | | **RSI(4)** | | **RSI(14)** | |
| *Average Profit* | *Average Number of Transactions* | *Average Profit* | *Average Number of Transactions* | *Average Profit* | *Average Number of Transactions* |
| *Miscellaneous (Popular/Tech)* | -26.07 | 263.83 | -1.74 | 128.00 | -12.48 | 30.50 |
| *Energy* | -7.96 | 276.67 | -1.37 | 132.67 | 0.24 | 29.00 |
| *Financials* | -1.64 | 235.67 | -10.36 | 113.67 | 15.89 | 27.67 |
| *Consumer Discretionary* | 16.21 | 333.67 | 12.59 | 165.67 | -4.78 | 35.00 |
| *Consumer Staples* | -12.34 | 201.00 | -15.07 | 82.33 | -10.88 | 20.33 |
| *Health Care* | -8.04 | 242.67 | -23.53 | 107.67 | -18.95 | 26.67 |
| *Miscellaneous (Very Volatile)* | 0.00 | 247.33 | -2.46 | 118.33 | -3.03 | 23.33 |

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| --- | --- | --- | --- | --- |
| Divergence Summary | | | | |
| **Industry** | **RSI(2) 70-30 with Divergence** | | **RSI(14) 60-40 with Divergence** | |
|  | *Average Profit* | *Average Number of Transactions* | Average Profit | Average Number of Transactions |
| *Miscellaneous (Popular/Tech)* | 0.59 | 65.5 | 22.39 | 24.83 |
| *Energy* | -10.69 | 54.67 | 4.3 | 26.33 |
| *Financials* | -3.38 | 51.33 | 18.42 | 24.33 |
| *Consumer Discretionary* | 3.4 | 74.67 | -7.49 | 28.33 |
| *Consumer Staples* | -5.87 | 40.67 | -10.72 | 15.67 |
| *Health Care* | -18.29 | 45 | -21.54 | 21.67 |
| *Miscellaneous (Very Volatile)* | 1.22 | 52.67 | 0.09 | 20.67 |

**Conclusions and Discussion**

Above are the results for different kinds of stocks. We calculated the profit we would get from trading using the RSI technique, first without and then with divergence. Generally, it seems like as if there are equally negative profits as there are positive profits. Looking for the 30-70 cases, when we use RSI with a look-back day of 2, we got a positive profit for only two kinds of stocks. Popular tech stocks like Google and EBay gave us an average value of 23.91. Very volatile stocks also gave us positive profits. The rest were losses. As expected, the number of transactions is high. When we take RSI value of 4, financial stocks were the only ones that gave us positive profits. While for RSI 14, it was only the energy sector that produced positive results. It is bizarre that for each RSI we took, there was usually only 1 kind of stock whose profit was positive. The same situation occurred for the case where the cutoff values are 40-60. There was only one stock sector that performed well for each RSI look-back days we used. Possibly, our assumption that when stocks are over bought that they will go down did not work well in these stocks. We can also make use of these results to come up with a trading strategy depending on each type of stocks. If we have stocks from Energy sector for instance, just use a look-back day of 14.

Using divergence improved our technique. The results seem more attractive than the previous once. We used RSI with look-back days of 2 and 14. In both case, there were 4 different kinds of stocks that were performing well. For instance, in the 60-40 case, the Energy sector, Financials, popular tech stocks and volatile stocks all gave us profits. It seems like divergence with RSI is more reliable than RSI by itself, because, divergence indicates the likelihood of a strengthening or weakening of the momentum. Perhaps, an improvement to our strategy would check for divergence by looking back to 2, 3 or more days and see if RSI has been decreasing or increasing instead of looking back only 1-day prior.

**References**

Wilder, J. Welles. (June 1978).  *New Concepts in Technical Trading Systems*.

Software used: R Statistical Computing, Microsoft Excel

**Appendix**

1. *R code*
2. *Additional Tables*

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| --- | --- | --- | --- | --- | --- | --- | --- |
| RSI(2) 70-30 Cutoff | | | | | | | |
| **industry** | **Stock Name** | **Profit** | **Number of Transactions** | **Number of Long Position Entrances** | **Number of Long Position Exits** | **Number of Short Position Entrances** | **Number of Short Position Exits** |
| *Miscellaneous (Popular/Tech)* | AAPL | -24.55904873 | 123 | 0 | 0 | 62 | 61 |
| GOOG | -116.617662 | 45 | 0 | 0 | 23 | 22 |
| AMZN | 239.279808 | 260 | 53 | 53 | 77 | 77 |
| ORCL | 22.09456897 | 253 | 49 | 48 | 78 | 78 |
| EBAY | 13.80208449 | 247 | 51 | 51 | 73 | 72 |
| YHOO | 9.479977 | 245 | 52 | 52 | 71 | 70 |
| *Energy* | XOM | 9.198272277 | 249 | 52 | 51 | 73 | 73 |
| CVX | -44.07953462 | 211 | 44 | 43 | 62 | 62 |
| BP | -2.591839083 | 140 | 0 | 0 | 70 | 70 |
| *Financials* | GS | -0.616371805 | 229 | 48 | 47 | 67 | 67 |
| MS | -10.53413982 | 129 | 0 | 0 | 65 | 64 |
| JPM | -18.96566568 | 131 | 0 | 0 | 66 | 65 |
| *Consumer Discretionary* | WMT | -2.910731274 | 213 | 44 | 44 | 63 | 62 |
| TGT | 46.32916277 | 255 | 52 | 52 | 76 | 75 |
| COST | 25.6211586 | 253 | 50 | 50 | 77 | 76 |
| *Consumer Staples* | KO | -5.385556756 | 133 | 0 | 0 | 67 | 66 |
| DPS | -29.64404628 | 133 | 0 | 0 | 67 | 66 |
| PEP | -20.50727068 | 133 | 0 | 0 | 67 | 66 |
| *Health Care* | JNJ | -13.5431845 | 205 | 41 | 41 | 62 | 61 |
| CI | -16.30894467 | 147 | 0 | 0 | 74 | 73 |
| UNH | -16.02392735 | 145 | 0 | 0 | 73 | 72 |
| *Miscellaneous (Volatile)* | PACW | -4.740611631 | 239 | 52 | 51 | 68 | 68 |
| PEB | 1.263480334 | 146 | 0 | 0 | 73 | 73 |
| UBSI | 6.089283363 | 158 | 0 | 0 | 79 | 79 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| RSI(4) 70-30 Cutoff | | | | | | | |
| **industry** | **Stock Name** | **Profit** | **Number of Transactions** | **Number of Long Position Entrances** | **Number of Long Position Exits** | **Number of Short Position Entrances** | **Number of Short Position Exits** |
| *Miscellaneous (Popular/Tech)* | AAPL | 3.486483865 | 62 | 0 | 0 | 31 | 31 |
| GOOG | -145.667657 | 15 | 0 | 0 | 8 | 7 |
| AMZN | -61.820003 | 89 | 19 | 19 | 26 | 25 |
| ORCL | 24.32985367 | 101 | 24 | 23 | 27 | 27 |
| EBAY | 10.32809159 | 94 | 20 | 20 | 27 | 27 |
| YHOO | 5.909985 | 101 | 23 | 23 | 28 | 27 |
| *Energy* | XOM | 17.38914397 | 93 | 23 | 22 | 24 | 24 |
| CVX | -15.86795366 | 92 | 20 | 20 | 26 | 26 |
| BP | -4.947402664 | 46 | 0 | 0 | 23 | 23 |
| *Financials* | GS | 40.027196 | 102 | 22 | 22 | 29 | 29 |
| MS | -1.43997735 | 59 | 0 | 0 | 30 | 29 |
| JPM | -6.288134568 | 56 | 0 | 0 | 28 | 28 |
| *Consumer Discretionary* | WMT | 9.270830204 | 97 | 21 | 21 | 28 | 27 |
| TGT | 13.97909668 | 91 | 21 | 20 | 25 | 25 |
| COST | -24.80509558 | 79 | 17 | 17 | 23 | 22 |
| *Consumer Staples* | KO | -6.650538382 | 47 | 0 | 0 | 24 | 23 |
| DPS | -19.37092347 | 55 | 0 | 0 | 28 | 27 |
| PEP | -19.225713 | 51 | 0 | 0 | 26 | 25 |
| *Health Care* | JNJ | 6.040862244 | 91 | 19 | 19 | 27 | 26 |
| CI | -28.74047818 | 51 | 0 | 0 | 26 | 25 |
| UNH | 3.732463418 | 57 | 0 | 0 | 29 | 28 |
| *Miscellaneous (Volatile)* | PACW | 7.665653653 | 98 | 21 | 21 | 28 | 28 |
| PEB | -3.830952323 | 52 | 0 | 0 | 26 | 26 |
| UBSI | -5.562248193 | 50 | 0 | 0 | 25 | 25 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| RSI(14) 70-30 Cutoff | | | | | | | |
| **industry** | **Stock Name** | **Profit** | **Number of Transactions** | **Number of Long Position Entrances** | **Number of Long Position Exits** | **Number of Short Position Entrances** | **Number of Short Position Exits** |
| *Miscellaneous (Popular/Tech)* | AAPL | -56.17272785 | 2 | 0 | 0 | 1 | 1 |
| GOOG | -189.60739 | 1 | 0 | 0 | 1 | 0 |
| AMZN | -144.990005 | 9 | 2 | 2 | 3 | 2 |
| ORCL | -0.238935389 | 9 | 2 | 2 | 3 | 2 |
| EBAY | 7.705492478 | 11 | 2 | 2 | 4 | 3 |
| YHOO | -25.879998 | 5 | 1 | 0 | 2 | 2 |
| *Energy* | XOM | 25.28183177 | 13 | 3 | 3 | 4 | 3 |
| CVX | -2.793325701 | 13 | 3 | 3 | 4 | 3 |
| BP | -2.348541373 | 4 | 0 | 0 | 2 | 2 |
| *Financials* | GS | 1.05460446 | 9 | 2 | 1 | 3 | 3 |
| MS | -18.09789508 | 2 | 0 | 0 | 1 | 1 |
| JPM | -4.589237043 | 9 | 0 | 0 | 5 | 4 |
| *Consumer Discretionary* | WMT | 14.32700148 | 17 | 5 | 4 | 4 | 4 |
| TGT | -21.8602527 | 7 | 2 | 1 | 2 | 2 |
| COST | -15.45416558 | 9 | 2 | 2 | 3 | 2 |
| *Consumer Staples* | KO | 4.317734084 | 9 | 0 | 0 | 5 | 4 |
| DPS | -30.550095 | 7 | 0 | 0 | 4 | 3 |
| PEP | -21.06917243 | 5 | 0 | 0 | 3 | 2 |
| *Health Care* | JNJ | -8.266883151 | 9 | 2 | 2 | 3 | 2 |
| CI | -71.54429776 | 4 | 0 | 0 | 2 | 2 |
| UNH | -53.07557896 | 2 | 0 | 0 | 1 | 1 |
| *Miscellaneous (Volatile)* | PACW | 2.092319931 | 9 | 2 | 1 | 3 | 3 |
| PEB | -19.81941567 | 2 | 0 | 0 | 1 | 1 |
| UBSI | -6.261232214 | 5 | 0 | 0 | 3 | 2 |

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| RSI(2) 60-40 Cutoff | | | | | | | |
| **industry** | **Stock Name** | **Profit** | **Number of Transactions** | **Number of Long Position Entrances** | **Number of Long Position Exits** | **Number of Short Position Entrances** | **Number of Short Position Exits** |
| *Miscellaneous (Popular/Tech)* | AAPL | -14.15941842 | 179 | 0 | 0 | 90 | 89 |
| GOOG | -140.857649 | 59 | 0 | 0 | 30 | 29 |
| AMZN | -30.329996 | 324 | 60 | 60 | 102 | 102 |
| ORCL | 14.65005109 | 355 | 68 | 68 | 110 | 109 |
| EBAY | 7.458484798 | 331 | 66 | 66 | 100 | 99 |
| YHOO | 6.830006 | 335 | 69 | 69 | 99 | 98 |
| *Energy* | XOM | 9.767607464 | 333 | 64 | 63 | 103 | 103 |
| CVX | -27.07883624 | 321 | 64 | 63 | 97 | 97 |
| BP | -6.57123274 | 176 | 0 | 0 | 88 | 88 |
| *Financials* | GS | 17.1363174 | 312 | 58 | 58 | 98 | 98 |
| MS | -2.581304138 | 204 | 0 | 0 | 102 | 102 |
| JPM | -19.46350043 | 191 | 0 | 0 | 96 | 95 |
| *Consumer Discretionary* | WMT | 3.5563963 | 311 | 61 | 61 | 95 | 94 |
| TGT | 41.90805157 | 351 | 67 | 67 | 109 | 108 |
| COST | 3.15415093 | 339 | 67 | 67 | 103 | 102 |
| *Consumer Staples* | KO | 1.60535053 | 197 | 0 | 0 | 99 | 98 |
| DPS | -23.42074868 | 211 | 0 | 0 | 106 | 105 |
| PEP | -15.19272686 | 195 | 0 | 0 | 98 | 97 |
| *Health Care* | JNJ | 11.78553759 | 321 | 62 | 62 | 99 | 98 |
| CI | -25.45652574 | 196 | 0 | 0 | 98 | 98 |
| UNH | -10.44869096 | 211 | 0 | 0 | 106 | 105 |
| *Miscellaneous (Volatile)* | PACW | 1.349002827 | 330 | 63 | 63 | 102 | 102 |
| PEB | -5.963071815 | 202 | 0 | 0 | 101 | 101 |
| UBSI | 4.626173998 | 210 | 0 | 0 | 105 | 105 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| RSI(4) 60-40 Cutoff | | | | | | | |
| **industry** | **Stock Name** | **Profit** | **Number of Transactions** | **Number of Long Position Entrances** | **Number of Long Position Exits** | **Number of Short Position Entrances** | **Number of Short Position Exits** |
| *Miscellaneous (Popular/Tech)* | AAPL | 3.56547325 | 91 | 0 | 0 | 46 | 45 |
| GOOG | -107.812646 | 29 | 0 | 0 | 15 | 14 |
| AMZN | 52.169894 | 163 | 37 | 37 | 45 | 44 |
| ORCL | 26.17052961 | 163 | 34 | 33 | 48 | 48 |
| EBAY | 10.76333065 | 165 | 37 | 37 | 46 | 45 |
| YHOO | 4.729983 | 157 | 34 | 34 | 45 | 44 |
| *Energy* | XOM | 32.76329397 | 173 | 38 | 37 | 49 | 49 |
| CVX | -31.9647986 | 145 | 32 | 31 | 41 | 41 |
| BP | -4.905459864 | 80 | 0 | 0 | 40 | 40 |
| *Financials* | GS | -13.78896731 | 155 | 33 | 32 | 45 | 45 |
| MS | -6.77552302 | 95 | 0 | 0 | 48 | 47 |
| JPM | -10.50406833 | 91 | 0 | 0 | 46 | 45 |
| *Consumer Discretionary* | WMT | 14.62220695 | 157 | 36 | 36 | 43 | 42 |
| TGT | 33.65336919 | 177 | 36 | 36 | 53 | 52 |
| COST | -3.693699574 | 163 | 34 | 34 | 48 | 47 |
| *Consumer Staples* | KO | -7.519425498 | 87 | 0 | 0 | 44 | 43 |
| DPS | -34.00770932 | 85 | 0 | 0 | 43 | 42 |
| PEP | -30.9453031 | 75 | 0 | 0 | 38 | 37 |
| *Health Care* | JNJ | -26.38916442 | 137 | 31 | 31 | 38 | 37 |
| CI | -36.91710473 | 87 | 0 | 0 | 44 | 43 |
| UNH | -7.290405857 | 99 | 0 | 0 | 50 | 49 |
| *Miscellaneous (Volatile)* | PACW | -5.201442794 | 155 | 32 | 31 | 46 | 46 |
| PEB | -5.191616628 | 94 | 0 | 0 | 47 | 47 |
| UBSI | 3.006883402 | 106 | 0 | 0 | 53 | 53 |

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| RSI(14) 60-40 Cutoff | | | | | | | |
| **industry** | **Stock Name** | **Profit** | **Number of Transactions** | **Number of Long Position Entrances** | **Number of Long Position Exits** | **Number of Short Position Entrances** | **Number of Short Position Exits** |
| *Miscellaneous (Popular/Tech)* | AAPL | -14.55497481 | 17 | 0 | 0 | 9 | 8 |
| GOOG | -114.307447 | 7 | 0 | 0 | 4 | 3 |
| AMZN | 27.91986 | 41 | 10 | 10 | 11 | 10 |
| ORCL | 17.75234791 | 38 | 9 | 9 | 10 | 10 |
| EBAY | 21.15166051 | 49 | 11 | 11 | 14 | 13 |
| YHOO | -12.869998 | 31 | 7 | 7 | 9 | 8 |
| *Energy* | XOM | -1.212124723 | 30 | 7 | 7 | 8 | 8 |
| CVX | 1.680077607 | 35 | 8 | 8 | 10 | 9 |
| BP | 0.253574179 | 22 | 0 | 0 | 11 | 11 |
| *Financials* | GS | 51.81710521 | 39 | 8 | 8 | 12 | 11 |
| MS | -2.385682257 | 21 | 0 | 0 | 11 | 10 |
| JPM | -1.770938916 | 23 | 0 | 0 | 12 | 11 |
| *Consumer Discretionary* | WMT | 14.80884074 | 45 | 11 | 10 | 12 | 12 |
| TGT | -4.631870545 | 31 | 8 | 7 | 8 | 8 |
| COST | -24.51322022 | 29 | 6 | 6 | 9 | 8 |
| *Consumer Staples* | KO | 3.287037757 | 23 | 0 | 0 | 12 | 11 |
| DPS | -34.22417225 | 15 | 0 | 0 | 8 | 7 |
| PEP | -1.698928527 | 23 | 0 | 0 | 12 | 11 |
| *Health Care* | JNJ | 8.390319082 | 39 | 9 | 9 | 11 | 10 |
| CI | -69.25998433 | 15 | 0 | 0 | 8 | 7 |
| UNH | 4.020531682 | 26 | 0 | 0 | 13 | 13 |
| *Miscellaneous (Volatile)* | PACW | 9.68837609 | 39 | 9 | 9 | 11 | 10 |
| PEB | -6.12798543 | 18 | 0 | 0 | 9 | 9 |
| UBSI | -12.63829198 | 13 | 0 | 0 | 7 | 6 |

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| Divergence RSI(2) 70-30 | | | | | | | |
| **industry** | **Stock Name** | **Profit** | **Number of Transactions** | **Number of Long Position Entrances** | **Number of Long Position Exits** | **Number of Short Position Entrances** | **Number of Short Position Exits** |
| *Miscellaneous (Popular/Tech)* | AAPL | -19.1892178 | 54 | 0 | 0 | 27 | 27 |
| GOOG | -98.455201 | 20 | 0 | 0 | 10 | 10 |
| AMZN | 103.770035 | 92 | 16 | 16 | 30 | 30 |
| ORCL | 0.88072158 | 68 | 13 | 13 | 21 | 21 |
| EBAY | 7.644267414 | 88 | 21 | 21 | 23 | 23 |
| YHOO | 8.869987 | 71 | 14 | 14 | 22 | 21 |
| *Energy* | XOM | -4.35696289 | 64 | 15 | 15 | 17 | 17 |
| CVX | -22.46931537 | 68 | 18 | 18 | 16 | 16 |
| BP | -5.257495046 | 32 | 0 | 0 | 16 | 16 |
| *Financials* | GS | 6.249882631 | 64 | 10 | 10 | 22 | 22 |
| MS | -3.295838077 | 44 | 0 | 0 | 22 | 22 |
| JPM | -13.08486304 | 46 | 0 | 0 | 23 | 23 |
| *Consumer Discretionary* | WMT | 4.671144303 | 72 | 20 | 20 | 16 | 16 |
| TGT | 11.30249836 | 84 | 15 | 15 | 27 | 27 |
| COST | -5.759586306 | 68 | 10 | 10 | 24 | 24 |
| *Consumer Staples* | KO | -0.587962474 | 40 | 0 | 0 | 20 | 20 |
| DPS | -17.43214976 | 44 | 0 | 0 | 22 | 22 |
| PEP | 0.422423093 | 38 | 0 | 0 | 19 | 19 |
| *Health Care* | JNJ | -23.17103577 | 48 | 5 | 5 | 19 | 19 |
| CI | -33.16443524 | 39 | 0 | 0 | 20 | 19 |
| UNH | 1.4597112 | 48 | 0 | 0 | 24 | 24 |
| *Miscellaneous (Volatile)* | PACW | 0.301267826 | 80 | 13 | 13 | 27 | 27 |
| PEB | 1.820388954 | 40 | 0 | 0 | 20 | 20 |
| UBSI | 1.550500151 | 38 | 0 | 0 | 19 | 19 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Divergence RSI(14) 60-40 | | | | | | | |
| **industry** | **Stock Name** | **Profit** | **Number of Transactions** | **Number of Long Position Entrances** | **Number of Long Position Exits** | **Number of Short Position Entrances** | **Number of Short Position Exits** |
| *Miscellaneous (Popular/Tech)* | AAPL | -9.221428902 | 15 | 0 | 0 | 8 | 7 |
| GOOG | -141.800071 | 5 | 0 | 0 | 3 | 2 |
| AMZN | -2.370087 | 31 | 9 | 9 | 7 | 6 |
| ORCL | 19.58640079 | 36 | 9 | 9 | 9 | 9 |
| EBAY | 17.64363652 | 41 | 10 | 10 | 11 | 10 |
| YHOO | -18.190002 | 21 | 6 | 6 | 5 | 4 |
| *Energy* | XOM | -0.10598 | 24 | 7 | 7 | 5 | 5 |
| CVX | 5.870422171 | 33 | 8 | 8 | 9 | 8 |
| BP | 7.138492082 | 22 | 0 | 0 | 11 | 11 |
| *Financials* | GS | 57.81103723 | 35 | 7 | 7 | 11 | 10 |
| MS | -3.629257959 | 17 | 0 | 0 | 9 | 8 |
| JPM | 1.085036486 | 21 | 0 | 0 | 11 | 10 |
| *Consumer Discretionary* | WMT | 16.19828146 | 37 | 9 | 8 | 10 | 10 |
| TGT | -7.777824331 | 23 | 5 | 4 | 7 | 7 |
| COST | -30.87552733 | 25 | 4 | 4 | 9 | 8 |
| *Consumer Staples* | KO | 3.31116374 | 17 | 0 | 0 | 9 | 8 |
| DPS | -36.64836939 | 9 | 0 | 0 | 5 | 4 |
| PEP | 1.166696868 | 21 | 0 | 0 | 11 | 10 |
| *Health Care* | JNJ | 18.6482954 | 35 | 9 | 9 | 9 | 8 |
| CI | -64.48190144 | 12 | 0 | 0 | 6 | 6 |
| UNH | -18.77157769 | 18 | 0 | 0 | 9 | 9 |
| *Miscellaneous (Volatile)* | PACW | 14.1513343 | 33 | 7 | 7 | 10 | 9 |
| PEB | -7.107482367 | 16 | 0 | 0 | 8 | 8 |
| UBSI | -6.764540831 | 13 | 0 | 0 | 7 | 6 |