

WEB SCRAPING

Seeking Alpha: Lightning Rounds

Mike Chuang

What is a lightning round?



Selenium:

The screenshot shows the homepage of Seeking Alpha. On the left, there is a sidebar for "Jim Cramer's Stock Picks" with a dark blue background. It features a large "\$1.50 PER FUTURES CONTRACT." banner, a "OPEN AN ACCOUNT" button, and the E*TRADE logo with the tagline "The Original Place To Invest Online". Below the sidebar, there is a list of articles from Cramer's Lightning Round:

- High Hopes Are Hurting Stocks - Cramer's Mad Money (10/23/17)
- Buy Pilgrim's Pride On Discount - Cramer's Lightning Round (10/23/17)
- Game Plan For The Week - Cramer's Mad Money (10/20/17)
- Disney Is A Long-Term Buy - Cramer's Lightning Round (10/20/17)
- Carrizo Oil & Gas: Non-Core Divestitures Continue
- Buy On Pullback Is A Good Strategy - Cramer's Mad Money (10/19/17)
- Buy Activision Blizzard For eSports - Cramer's Lightning Round (10/19/17)

The main content area has a header "Search by symbol, author, keyword..." and a "Sign in / Join Now" button. It also displays market indices: Dow 23,441.76 +167.80 (+0.72%) and S&P 500 2,569.13 +4.15 (+0.16%).

Methodology:

Seeking Alpha Stock Ideas Cramer's Picks

Retrieved URLs:

TITLE	TIME	URL
Thumbs Up For One Speculative Stock, Thumbs Down For Another - Cramer's Lightning Round (7/25/17)	Thu, Aug. 3, 5:05 AM	https://seekingalpha.com/article/4094013-thumbs-one-speculative-stock-thumbs-another-cramers-lightning-round-8-2-17
Ulta Beauty Is A Good Stock - Cramer's Lightning Round (7/31/17)	Tue, Aug. 1, 6:37 AM	https://seekingalpha.com/article/4092987-ulta-beauty-good-stock-cramers-lightning-round-7-31-17
Freeport-McMoRan Has Bottomed At \$12 - Cramer's Lightning Round (7/27/17)	Fri, Jul. 28, 7:27 AM	https://seekingalpha.com/article/4091775-freeport-mcmoran-bottomed-12-cramers-lightning-round-7-27-17
Stay With Schwab - Cramer's Lightning Round (7/26/17)	Thu, Jul. 27, 3:16 AM	https://seekingalpha.com/article/4091084-stay-schwab-cramers-lightning-round-7-26-17
Valeant Can Go To \$20 - Cramer's Lightning Round (7/25/17)	Wed, Jul. 26, 6:50 AM	https://seekingalpha.com/article/4090554-valeant-can-go-20-cramers-lightning-round-7-25-17
Qualcomm Should Pay More For NXP Semiconductors - Cramer's Lightning Round (7/24/17)	Tue, Jul. 25, 5:07 AM	https://seekingalpha.com/article/4090071-qualcomm-pay-nxp-semiconductors-cramers-lightning-round-7-24-17
BlackBerry Is Correctly Priced - Cramer's Lightning Round (7/20/17)	Fri, Jul. 21, 6:55 AM	https://seekingalpha.com/article/4089325-blackberry-correctly-priced-cramers-lightning-round-7-20-17
Cypress Semiconductor Will Go To \$17 - Cramer's Lightning Round (7/19/17)	Thu, Jul. 20, 6:40 AM	https://seekingalpha.com/article/4088942-cypress-semiconductor-will-go-17-cramers-lightning-round-7-19-17
Chegg Is Not Done Going Up - Cramer's Lightning Round (7/18/17)	Wed, Jul. 19, 6:55 AM	https://seekingalpha.com/article/4088624-chegg-done-going-cramers-lightning-round-7-18-17
Tableau Software Is On Fire - Cramer's Lightning Round (7/17/17)	Tue, Jul. 18, 6:36 AM	https://seekingalpha.com/article/4088332-tableau-software-fire-cramers-lightning-round-7-17-17
Bank Of Montreal Is A Good Conservative Bank - Cramer's Lightning Round (7/13/17)	Fri, Jul. 14, 6:54 AM	https://seekingalpha.com/article/4087687-bank-montreal-good-conservative-bank-cramers-lightning-round-7-13-17
Hold On To Starbucks - Cramer's Lightning Round (7/12/17)	Thu, Jul. 13, 6:49 AM	https://seekingalpha.com/article/4087437-hold-starbucks-cramers-lightning-round-7-12-17
Disney Is A Long-Term Buy - Cramer's Lightning Round (7/11/17)	Wed, Jul. 12, 6:34 AM	https://seekingalpha.com/article/4087127-disney-long-term-buy-cramers-lightning-round-7-11-17
Raytheon Has A Lot Of Upside - Cramer's Lightning Round (7/10/17)	Tue, Jul. 11, 6:01 AM	https://seekingalpha.com/article/4086837-raytheon-lot-upside-cramers-lightning-round-7-10-17
NovoCure Is A Buy - Cramer's Lightning Round (7/7/17)	Mon, Jul. 10, 5:37 AM	https://seekingalpha.com/article/4086508-novocure-buy-cramers-lightning-round-7-7-17
PepsiCo Is A Buy - Cramer's Lightning Round (7/6/17)	Fri, Jul. 7, 6:23 AM	https://seekingalpha.com/article/4086228-pepsico-buy-cramers-lightning-round-7-6-17
Parker-Hannifin Can Reach \$200 - Cramer's Lightning Round (7/5/17)	Thu, Jul. 6, 6:33 AM	https://seekingalpha.com/article/4085993-parker-hannifin-can-reach-200-cramers-lightning-round-7-5-17
Nutanix Is Undervalued - Cramer's Lightning Round (6/23/17)	Mon, Jun. 26, 5:50 AM	https://seekingalpha.com/article/4083815-nutanix-undervalued-cramers-lightning-round-6-23-17

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Seeking Alpha

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Long Ideas Short Ideas Cramer's Picks IPOs Quick Picks Sectors Editor's Picks Dow 23,441.76 +167.80 (+0.72%) S&P 500 2,569.13 +4.15 (+0.16%)

Cramer's Lightning Round - Apple Has Bottomed (6/23/11)

Jun. 24, 2011 6:41 AM ET | Includes: AAPL, AEA, AKS, CAT, CIEN, FCX, FNSR, OCLR

Miriam Metzinger
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Stocks discussed on the *Lightning Round* session of Jim Cramer's Mad Money TV Program, **Thursday June 23**.

Bullish Calls:

Apple (NASDAQ:AAPL): "I think it was (the bottom) right there...it sells at 3 times projected cash. It has only done that once in a couple of years, and when it does, there is an explosion upwards. I've been holding in my horns...I'm only going to \$400 (as a target), because we lost Ron Johnson. I do believe Apple will go higher, and I believe it has bottomed."

Caterpillar (NYSE:CAT): "At one point, Caterpillar was down \$2.50, and that was unbelievable. They said over and over and over again that when oil goes down to \$80 or \$90, that is where they will do best...so oil goes to \$90, and what do people do? They sell, sell, sell...Why? Because they are morons...I think Caterpillar is terrific here."

Advance America (NYSE:AEA): "That is a great call...it yields 4%...it is terrific."

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Bullish, Bearish URLs

bearish	bullish	date	title
	https://seekingalpha.com/article/2017-08-03T Thumbs Up For One Speculative Stock, Thumbs Down For Another - Cramer's Lightning Round (8/2/17)		
	https://seekingalpha.com/article/2017-08-01T Ulta Beauty Is A Good Stock - Cramer's Lightning Round (7/31/17)		
	https://seekingalpha.com/article/2017-07-28T Freeport-McMoRan Has Bottomed At \$12 - Cramer's Lightning Round (7/27/17)		
	https://seekingalpha.com/article/2017-07-26T Valeant Can Go To \$20 - Cramer's Lightning Round (7/25/17)		
	https://seekingalpha.com/article/2017-07-25T Qualcomm Should Pay More For NXP Semiconductors - Cramer's Lightning Round (7/24/17)		
	https://seekingalpha.com/article/2017-07-21T BlackBerry Is Correctly Priced - Cramer's Lightning Round (7/20/17)		
	https://seekingalpha.com/article/2017-07-19T Chegg Is Not Done Going Up - Cramer's Lightning Round (7/18/17)		
	https://seekingalpha.com/article/2017-07-18T Tableau Software Is On Fire - Cramer's Lightning Round (7/17/17)		
	https://seekingalpha.com/article/2017-07-14T Bank Of Montreal Is A Good Conservative Bank - Cramer's Lightning Round (7/13/17)		
	https://seekingalpha.com/article/2017-07-13T Hold On To Starbucks - Cramer's Lightning Round (7/12/17)		
	https://seekingalpha.com/article/2017-07-12T Disney Is A Long-Term Buy - Cramer's Lightning Round (7/11/17)		
	https://seekingalpha.com/article/2017-07-11T Raytheon Has A Lot Of Upside - Cramer's Lightning Round (7/10/17)		
	https://seekingalpha.com/article/2017-07-10T NovoCure Is A Buy - Cramer's Lightning Round (7/7/17)		
	https://seekingalpha.com/article/2017-07-07T PepsiCo Is A Buy - Cramer's Lightning Round (7/6/17)		
	https://seekingalpha.com/article/2017-07-06T Parker-Hannifin Can Reach \$200 - Cramer's Lightning Round (7/5/17)		
	https://seekingalpha.com/article/2017-06-26T Nutanix Is Undervalued - Cramer's Lightning Round (6/23/17)		
	https://seekingalpha.com/article/2017-06-23T Buy Hasbro At \$110 - Cramer's Lightning Round (6/22/17)		
	https://seekingalpha.com/article/2017-06-21T Smart & Final Cannot Compete With Amazon - Cramer's Lightning Round (6/20/17)		
	https://seekingalpha.com/article/2017-06-20T AT&T Has Growth And Dividend - Cramer's Lightning Round (6/19/17)		
	https://seekingalpha.com/article/2017-06-19T Chipotle Is A Buy - Cramer's Lightning Round (6/16/17)		
	https://seekingalpha.com/article/2017-06-16T Michael Kors Is A Loser - Cramer's Lightning Round (6/15/17)		
	https://seekingalpha.com/article/2017-06-14T Don't Sell Domino's - Cramer's Lightning Round (6/13/17)		

Parsing Results + Yahoo Finance API:

Join GitHub today
GitHub is home to over 20 million developers working together to host and review code, manage projects, and build software together.

This code downloads end of day stock quote from Yahoo finance.

11 commits 1 branch 0 releases 1 contributor BSD-2-Clause

Branch: master New pull request

c0redumb Added some observation in README

tests Now working with both Python2 and 3 5 months ago

yahoo_quote_download Claim user agent as Firefox 4 months ago

README.md Added some observation in README 4 months ago

license.txt BSD license added 5 months ago

setup.py Now working with both Python2 and 3 5 months ago

yahoo_quote_download

Starting on May 2017, Yahoo financial has terminated its service on the well used EOD data download without warning. This is confirmed by Yahoo employee in forum posts.

Yahoo financial EOD data, however, still works on Yahoo financial pages. These download links uses a "crumb" for authentication with a cookie "B". This code is provided to obtain such matching cookie and crumb. This code also

Thanks, c0redumb

Output to CSV:
7d, 30d, 180d
closing prices

Methodology:

```
su['yqdopen']=np.empty((len(su.date), 0)).tolist()
su['yqdclose6m']=np.empty((len(su.date), 0)).tolist()
su['yqdclose30d']=np.empty((len(su.date), 0)).tolist()
su['yqdclose7d']=np.empty((len(su.date), 0)).tolist()

for i in range(len(su.bullish)):
    print('currently on row: ' + str(i))
    for j in range(len(su.bullish[i])):
        try:
            quote = (yqd.load_yahoo_quote(str(su.bullish[i][j]), su.date[i], su.enddate[i]))
            openq = quote[1].split(',')
            close7d = quote[7].split(',')
            close30d = quote[25].split(',')
            close6m = quote[-2].split(',')
        except:
            try:
                time.sleep(2)
                quote = (yqd.load_yahoo_quote(str(su.bullish[i][j]), su.date[i], su.enddate[i]))
                close7d = quote[7].split(',')
                close30d = quote[25].split(',')
                close6m = quote[-2].split(',')
            except:
                continue

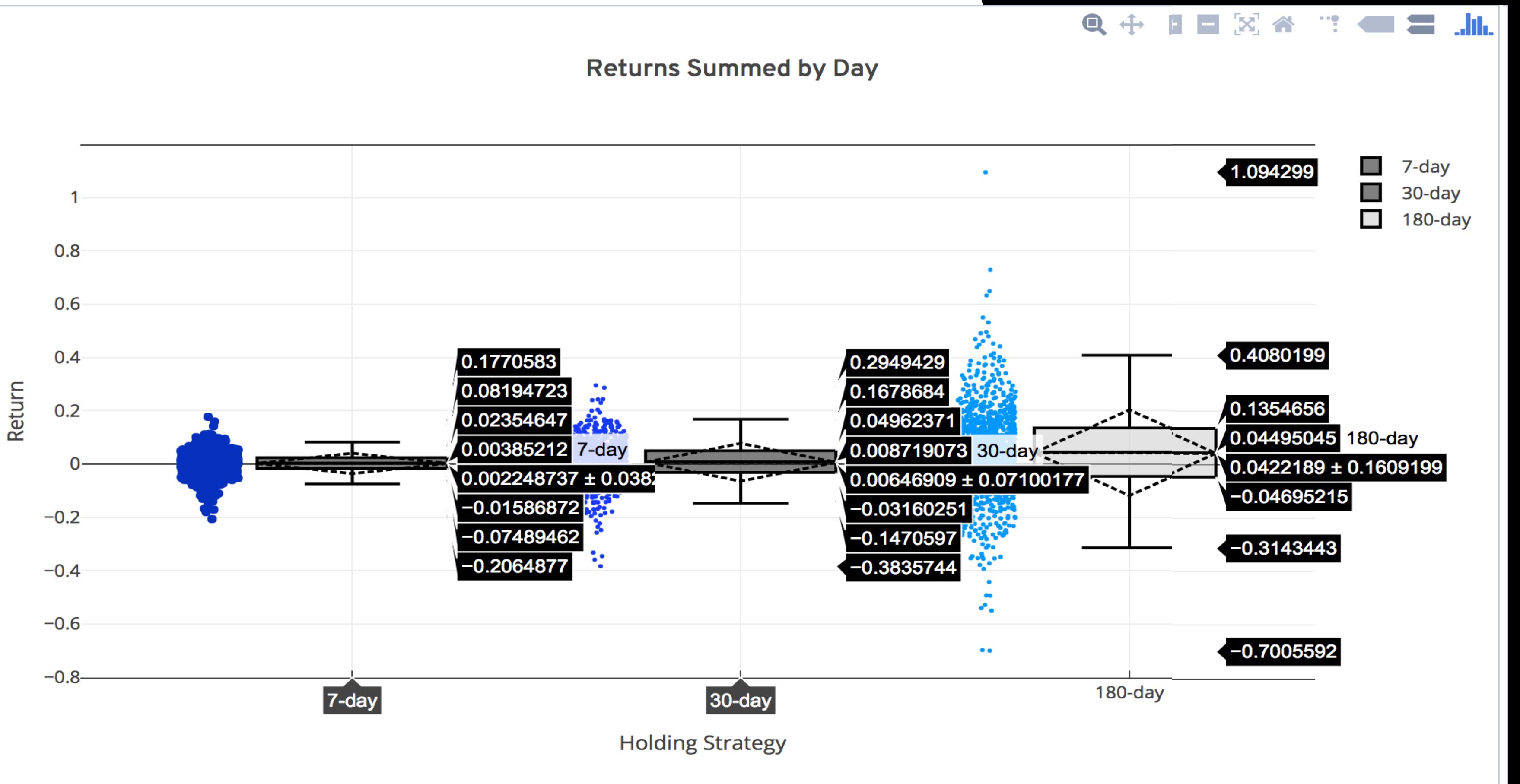
        su['yqdopen'][i].append([openq[0],openq[-2]])
        su['yqdclose7d'][i].append([close7d[0],close7d[-2]])
        su['yqdclose30d'][i].append([close30d[0],close30d[-2]])
        su['yqdclose6m'][i].append([close6m[0],close6m[-2]]))
```

Ticker Symbol,
Start Date,
End Date

A	B	C	D	E	F	G	H	I	J	K
	bearish	bullish	date	title	enddate	yqdopen	yqdclose6m	yqdclose30d	yqdclose7d	
0	['COL', 'DVAX', 'CMI', 'CV']		20170803	Thumbs Up Fc	20180203	[]	[]	[]	[]	
1	['RDN']	['ULTA', 'AB']	20170801	Ulta Beauty Is	20180201	[["2017-08-01", "255.270004"], ["2017-08-01", "24.457037"]]	[["2017-10-20", "204.660004"], ["2017-10-09", "253.080000"]]	[["2017-10-20", "19.000000"], ["2017-10-03", "12.980000"]]	[["2017-10-20", "24.570000"], ["2017-10-03", "18.033051"]]	
2	['HSBC', 'JPM', 'RRD', 'KIT', 'APLE', 'FCX']		20170728	Freeport-McN	20180128	[["2017-07-28", "18.053425"], ["2017-07-28", "14.600000"]]	[["2017-10-20", "19.000000"], ["2017-10-03", "12.980000"]]	[["2017-10-20", "24.570000"], ["2017-10-03", "18.033051"]]	[["2017-10-20", "24.570000"], ["2017-10-03", "18.033051"]]	
3	['UCTT', 'RLCX', 'AMAT', 'HTZ', 'KMX', 'VRX', 'AES']		20170726	Valeant Can C	20180126	[["2017-07-26", "16.650000"], ["2017-07-26", "66.730003"]]	[["2017-10-20", "24.570000"], ["2017-10-03", "12.980000"]]	[["2017-10-20", "24.570000"], ["2017-10-03", "12.980000"]]	[["2017-10-20", "24.570000"], ["2017-10-03", "12.980000"]]	
4	['CVNA', 'KMX', 'MNK']	['K', 'QCOM', 'XRX', 'AAPL', 'MAR']	20170725	Qualcomm Sh	20180125	[["2017-07-25", "67.019653"], ["2017-07-25", "52.686417"]]	[["2017-10-20", "61.439999"], ["2017-10-03", "66.890717"]]	[["2017-10-20", "61.439999"], ["2017-10-03", "66.890717"]]	[["2017-10-20", "61.439999"], ["2017-10-03", "66.890717"]]	
5	['ENR', 'PG', 'CAKE', 'DRI', 'UNP', 'ADBE', 'SNDR']		20170721	BlackBerry Is	20180121	[["2017-07-21", "104.243263"], ["2017-07-21", "149.520004"]]	[["2017-10-20", "113.209999"], ["2017-10-03", "102.364191"]]	[["2017-10-20", "113.209999"], ["2017-10-03", "102.364191"]]	[["2017-10-20", "113.209999"], ["2017-10-03", "102.364191"]]	
6	['SIG']	['UPS', 'SUPN', 'MCK', 'APO', 'CHGC']	20170719	Chegg Is Not I	20180119	[["2017-07-19", "112.155716"], ["2017-07-19", "43.549999"]]	[["2017-10-20", "119.650002"], ["2017-10-02", "106.994111"]]	[["2017-10-20", "119.650002"], ["2017-10-02", "106.994111"]]	[["2017-10-20", "119.650002"], ["2017-10-02", "106.994111"]]	
7	['EXEL']	['CCL', 'EZU', 'MGM', 'NWL', 'DATA']	20170718	Tableau Softw	20180118	[["2017-07-18", "66.359024"], ["2017-07-18", "41.299999"]]	[["2017-10-20", "65.870003"], ["2017-10-02", "66.309311"]]	[["2017-10-20", "65.870003"], ["2017-10-02", "66.309311"]]	[["2017-10-20", "65.870003"], ["2017-10-02", "66.309311"]]	
8	['KMI', 'MMP']	['ARNA', 'WGO', 'INFO', 'BMO', 'M']	20170714	Bank Of Mont	20180114	[["2017-07-14", "24.280001"], ["2017-07-14", "35.299999"]]	[["2017-10-20", "27.230000"], ["2017-10-01", "24.340000"]]	[["2017-10-20", "27.230000"], ["2017-10-01", "24.340000"]]	[["2017-10-20", "27.230000"], ["2017-10-01", "24.340000"]]	
9	['AKS', 'NUE', 'ESRX']	['ATNX', 'STM', 'NVDA', 'SBUX']	20170713	Hold On To St	20180113	[["2017-07-13", "18.719999"], ["2017-07-13", "15.730661"]]	[["2017-10-20", "17.139999"], ["2017-10-01", "18.440001"]]	[["2017-10-20", "17.139999"], ["2017-10-01", "18.440001"]]	[["2017-10-20", "17.139999"], ["2017-10-01", "18.440001"]]	
10	['FTR', 'SPH', 'STNG']	['INCY', 'ALXN', 'DIS']	20170712	Disney Is A Lo	20180112	[["2017-07-12", "133.220001"], ["2017-07-12", "124.940002"]]	[["2017-10-20", "113.980003"], ["2017-10-01", "133.78999"]]	[["2017-10-20", "113.980003"], ["2017-10-01", "133.78999"]]	[["2017-10-20", "113.980003"], ["2017-10-01", "133.78999"]]	
11	['MAT', 'HAS', 'MZOR', 'C', 'GOOS', 'RTN']		20170711	Raytheon Has	20180111	[["2017-07-11", "19.049999"], ["2017-07-11", "165.841873"]]	[["2017-10-20", "19.049999"], ["2017-10-01", "19.450001"]]	[["2017-10-20", "19.049999"], ["2017-10-01", "19.450001"]]	[["2017-10-20", "19.049999"], ["2017-10-01", "19.450001"]]	
12	['ON', 'AVGO', 'GNC', 'UA', 'NVCR', 'NEE', 'IDXX', 'AVAV', 'PET']		20170710	NovoCure Is A	20180110	[["2017-07-10", "18.100000"], ["2017-07-10", "140.110931"]]	[["2017-10-20", "18.200001"], ["2017-10-01", "18.750000"]]	[["2017-10-20", "18.200001"], ["2017-10-01", "18.750000"]]	[["2017-10-20", "18.200001"], ["2017-10-01", "18.750000"]]	
13	['HAL', 'SJM', 'CBI']	['IIVI', 'PEP', 'T']	20170707	PepsiCo Is A B	20180107	[["2017-07-07", "35.450001"], ["2017-07-07", "114.707298"]]	[["2017-10-20", "42.950001"], ["2017-10-01", "37.299999"]]	[["2017-10-20", "42.950001"], ["2017-10-01", "37.299999"]]	[["2017-10-20", "42.950001"], ["2017-10-01", "37.299999"]]	
14	['LOW', 'HD', 'EXEL']	['PH', 'SNV']	20170706	Parker-Hannif	20180106	[["2017-07-06", "158.782074"], ["2017-07-06", "44.526142"]]	[["2017-10-20", "184.414993"], ["2017-10-01", "164.36857"]]	[["2017-10-20", "184.414993"], ["2017-10-01", "164.36857"]]	[["2017-10-20", "184.414993"], ["2017-10-01", "164.36857"]]	
15	['AAOI', 'AVGO', 'MOS', 'KEY', 'ULTA', 'RAI', 'NTNX']		20170626	Nutanix Is Un	20171226	[["2017-06-26", "18.022417"], ["2017-06-26", "289.720001"]]	[["2017-10-20", "18.430000"], ["2017-10-01", "19.096600"]]	[["2017-10-20", "18.430000"], ["2017-10-01", "19.096600"]]	[["2017-10-20", "18.430000"], ["2017-10-01", "19.096600"]]	
16	['X', 'NUE', 'CRC', 'VRX']	['NYCB', 'AVID', 'C', 'ALXN', 'IDXX', 'INCY']	20170623	Buy Hasbro A	20171223	[["2017-06-23", "12.535817"], ["2017-06-23", "5.050000"]]	[["2017-10-20", "12.845000"], ["2017-10-01", "13.236638"]]	[["2017-10-20", "12.845000"], ["2017-10-01", "13.236638"]]	[["2017-10-20", "12.845000"], ["2017-10-01", "13.236638"]]	
17	['SFS', 'AMZN', 'SEMGI']	['AKS', 'CARA', 'NUE']	20170621	Smart & Final	20171221	[["2017-06-21", "6.190000"], ["2017-06-21", "19.500000"]]	[["2017-10-20", "6.170000"], ["2017-10-01", "6.750000"]]	[["2017-10-20", "6.170000"], ["2017-10-01", "6.750000"]]	[["2017-10-20", "6.170000"], ["2017-10-01", "6.750000"]]	
18	['MRO', 'MPG']	['HOME', 'UCTT', 'GOOS', 'T']	20170620	AT&T Has Grc	20171220	[["2017-06-20", "22.530001"], ["2017-06-20", "20.309999"]]	[["2017-10-20", "21.930000"], ["2017-10-01", "22.870001"]]	[["2017-10-20", "21.930000"], ["2017-10-01", "22.870001"]]	[["2017-10-20", "21.930000"], ["2017-10-01", "22.870001"]]	
19	['SWIR']	['CMCSA', 'SGYP', 'BX', 'CMG']	20170619	Chipotle Is A	20171219	[["2017-06-19", "41.456860"], ["2017-06-19", "4.130000"]]	[["2017-10-20", "37.142502"], ["2017-10-01", "38.927792"]]	[["2017-10-20", "37.142502"], ["2017-10-01", "38.927792"]]	[["2017-10-20", "37.142502"], ["2017-10-01", "38.927792"]]	
20	['KORS', 'GT', 'CEQP', 'RIG', 'XPO', 'SIRI', 'CLDR', 'P', 'VMW']		20170616	Michael Kors	20171216	[["2017-06-16", "61.520000"], ["2017-06-16", "5.170750"]]	[["2017-10-20", "67.320000"], ["2017-10-01", "61.160000"]]	[["2017-10-20", "67.320000"], ["2017-10-01", "61.160000"]]	[["2017-10-20", "67.320000"], ["2017-10-01", "61.160000"]]	
21	['XYL', 'PNR', 'MELI']	['HFC', 'QCOP', 'DPZ', 'INCY', 'NXP']	20170614	Don't Sell Dor	20171214	[["2017-06-14", "24.928991"], ["2017-06-14", "56.385441"]]	[["2017-10-20", "36.615002"], ["2017-10-01", "26.312288"]]	[["2017-10-20", "36.615002"], ["2017-10-01", "26.312288"]]	[["2017-10-20", "36.615002"], ["2017-10-01", "26.312288"]]	
22	['CC']	['ESNT', 'MGP', 'CARA', 'SCHW']	20170							

EVALUATION

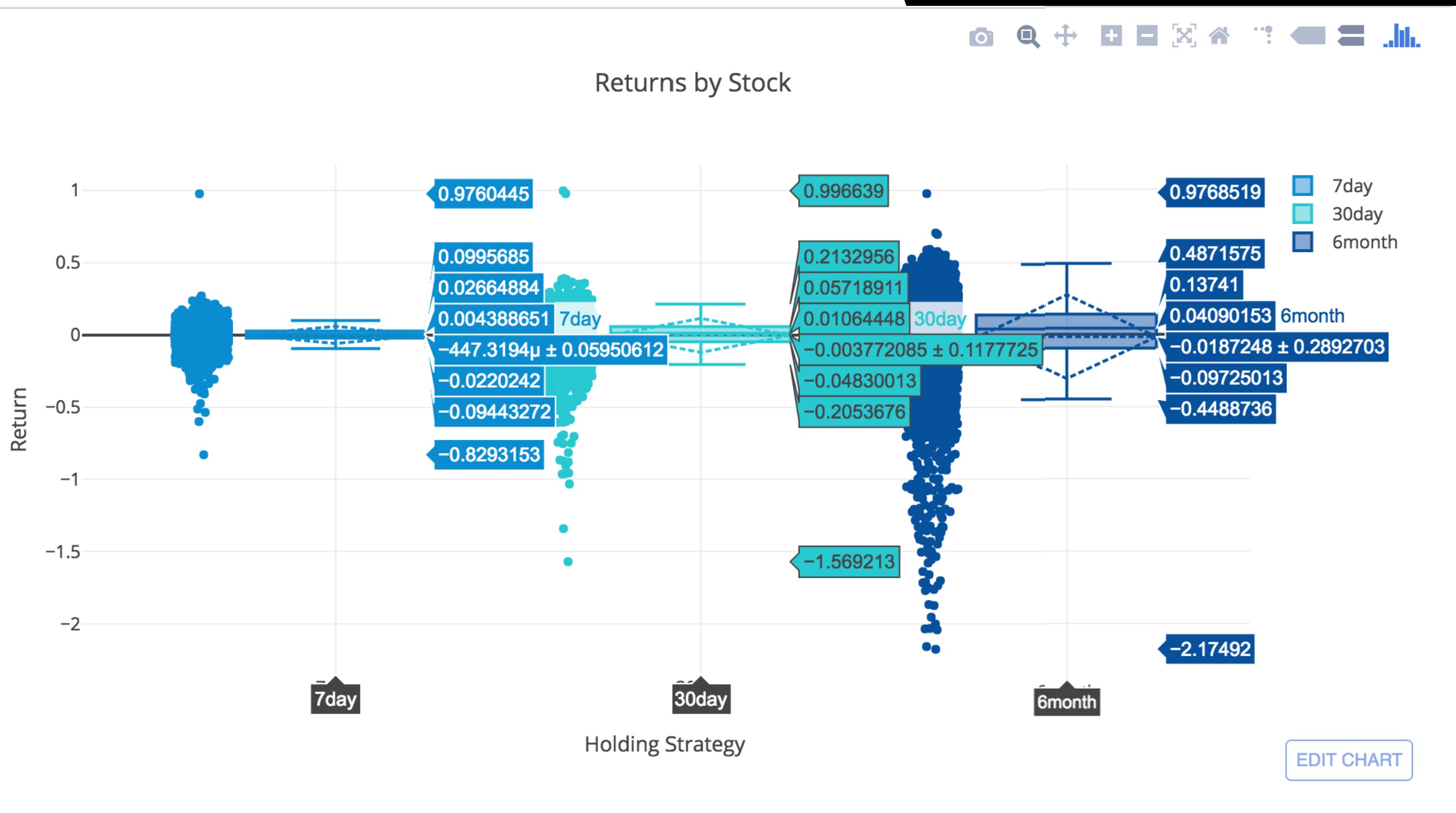
Determining the Optimal Strategy



- Each point represents a day's worth of stock recommendations
- Largest median and means in 180-day hold
- Generally small but positive returns
- One-way ANOVA P = 1.79822989708e-21
- P < 0.05, the means of the three results may be significantly different (holding time has an effect on mean return)

EVALUATION

Determining the Optimal Strategy



- Each point represents a stock that was recommended
- Largest median in 180-day hold
- Negative mean returns across all strategies
- SD increases as holding length increases
- Largest outliers in 180-day (extreme values not included)
- One-way ANOVA P=0.136
- P > 0.05, the means of the three results are not significantly different.
- Optimal strategy would include diversification

EVALUATION

Notable Observations

	7- Day	30-Day	180-day
Greatest Return	<ul style="list-style-type: none">• SPF (Standard Pacific)• 97% increase• 2011-03-03	<ul style="list-style-type: none">• CAB(Standard Pacific)• 99% increase• 2014-08-21	<ul style="list-style-type: none">• TOELF (Tokyo Electron LTD)• 317% increase• 2015-4-02
Lowest Return	<ul style="list-style-type: none">• PFE (Pfizer Stock)• 82% decrease• 2012-08-23• <u>Pfizer wasn't built in a day</u>	<ul style="list-style-type: none">• MWE (MarkWest Energy Partners)• 156% decrease• 2011-07-19• <u>It Is Hard to Get Better Than MarkWest</u>	<ul style="list-style-type: none">• AEA (Tokyo Electron LTD)• 1212% & 1196% decrease• 2011-7-20 & 2011-6-24

NOTE: Certain stocks such as AEA are penny stocks whose price went from ~0.7-->~0.06 (less money would likely have been invested)

SUMMARY

Total Returns: $((\text{sum of closedate}) - (\text{sum of startdate})) / (\text{sum of closedate})$	
7-day	-0.0097
30-day	0.028
180-day	-0.242

Volume of Data		Most Recommended Stocks	
		Ticker Symbol	Number of Recommendations
Number of Articles Scraped	1127	VZ (Verizon Communications Inc.)	42
Date Range Covered	2010-12-03 → 2017-08-01	CELG (Celgene Corporation)	38
Number of Bullish Stocks	5161	NLY (Annaly Capital Management, Inc.)	37
Number of Unique Bullish Stocks	1323	AAPL (Apple Inc.)	35
Number of Bearish Stocks	3694	AA (Alcoa Corp)	34
		GLD (SPDR Gold Trust)	33
		SWKS (Skyworks Solutions Inc.)	33
		EOG (EOG Resources Inc)	32
		BIDU (Baidu Inc)	32
		SBUX (Starbucks Corporation)	31

Conclusions:

- Best strategy appears to be the middle-term holding period--avoids larger volatility but still capitalizes on upward trends
- Avoid purchasing individual stocks
- Avoid overly-promoted stocks

Extensions:

- Introduce analysis of Bearish predictions and article title
- Gain insight on performance by industry/sector
- Identify trends in article volume/performance over time

THANKS

Seeking Alpha: Lightning Rounds

Mike Chuang