

Quantopian

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algo 1: Cross-Sectional Example

- Standard Template for a working Quantopian Contest Algorithm
- Use Stocktwits Feeling

algo 2: PsychSignal Sample Algorithm (Stocktwits)

Quantopian Data

57+ Institutional quality data feeds, built into Quantopian.



[View Algorithm](#)
[Research Library](#)

stocktw

All

FEATURED

[StockTwits Trader Mood](#) from PsychSignal

Free

The mood of traders posting messages on StockTwits

[Get Example Algorithm](#)

```
class Value(CustomFactor):
```

```
    inputs = [morningstar.valuation_ratios.book_value_yield,  
              morningstar.valuation_ratios.sales_yield,  
              morningstar.valuation_ratios.fcf_yield]
```

```
    window_length = 1
```

```
    def compute(self, today, assets, out, book_value, sales, fcf):  
        value_table = pd.DataFrame(index=assets)  
        value_table["book_value"] = book_value[-1]  
        value_table["sales"] = sales[-1]  
        value_table["fcf"] = fcf[-1]  
        out[:] = value_table.rank().mean(axis=1)
```

```
class Momentum(CustomFactor):
```

```
    inputs = [USEquityPricing.close]  
    window_length = 252
```

```
    def compute(self, today, assets, out, close):  
        out[:] = close[-20] / close[0]
```

```
class MessageVolume(CustomFactor):
```

```
    inputs = [stocktwits.total_scanned_messages]  
    window_length = 21
```

```
    def compute(self, today, assets, out, msgs):  
        out[:] = -np.nansum(msgs, axis=0)
```

Problems:

- Market Exposure
- Risk Constraints
- General Software
- Obsolete Databases

Resultados

● MsgVol+Psych+Momentum+Morningstar Value+Beta Thing 0.292 (+0.043)

0.292

SCORE

Created at 2018-05-02 5:33:27 pm



PsychSignal Sample Algorithm + Risk + Long-Short-Equity Template > Backtest 10

Overview

Structure

Risk

Performance

Activity

Notebook

Enter Contest



2 of 2

STRUCTURAL CONSTRAINTS MET



7 of 7

RISK CONSTRAINTS MET



51.91 %

TOTAL RETURNS

● Total Returns 19.27 % ● Specific Returns 8.38 % ● Common Returns 10.10 %

96.00 %

72.00 %

48.00 %

24.00 %

0.00 %

-24.00 %

2012

2013

2014

2015

2016

2017

2018



Jan 2012

Jan 2014

Jan 2016

