Interactively Exploring Seasonality Patterns in R

Michael Kapler

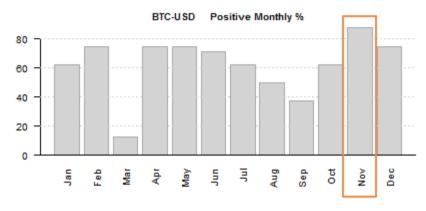
Seasonality

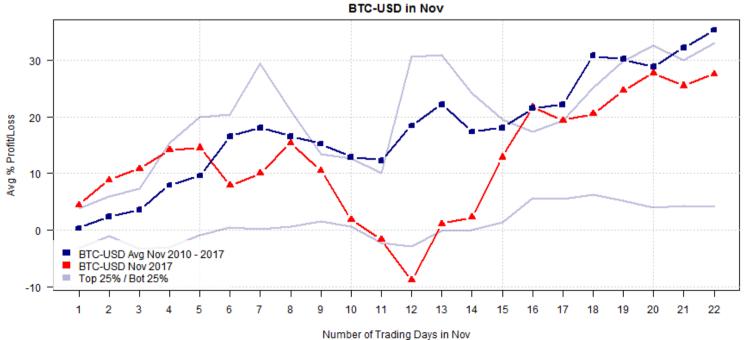
Seasonality

Seasonality analysis can be very useful:

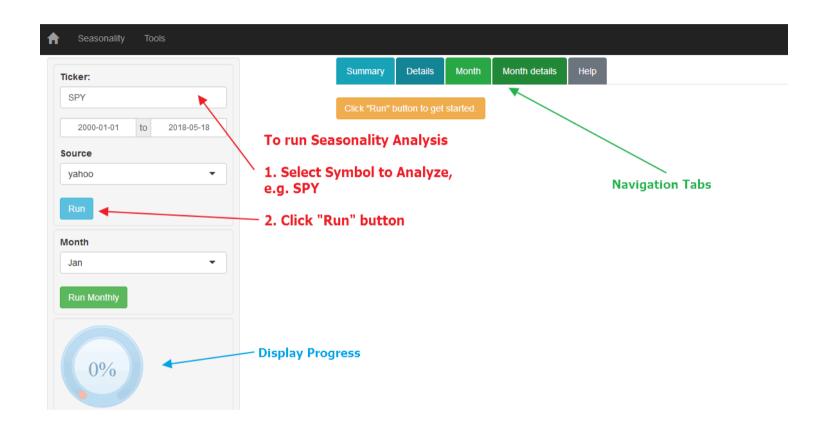
- Cryptocurrency
- Financial backtest
- Google trends

Cryptocurrency



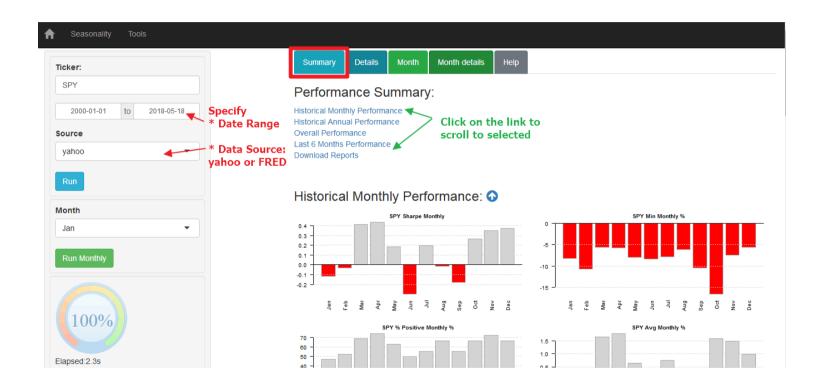


RTSViz package



rtsviz package - R Time Series Visualization

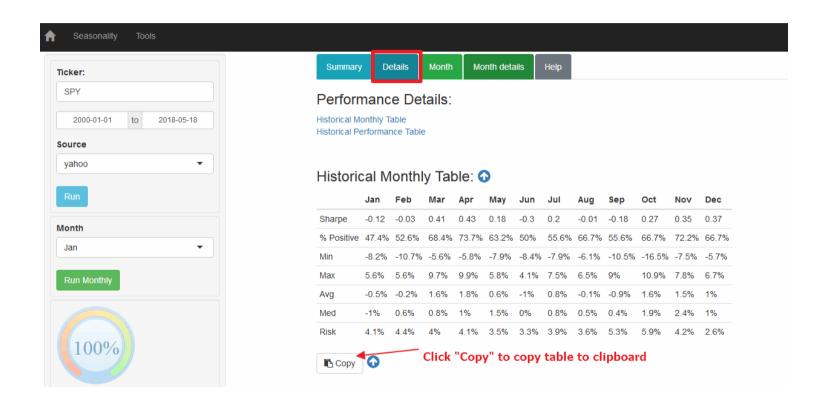
Summary Tab



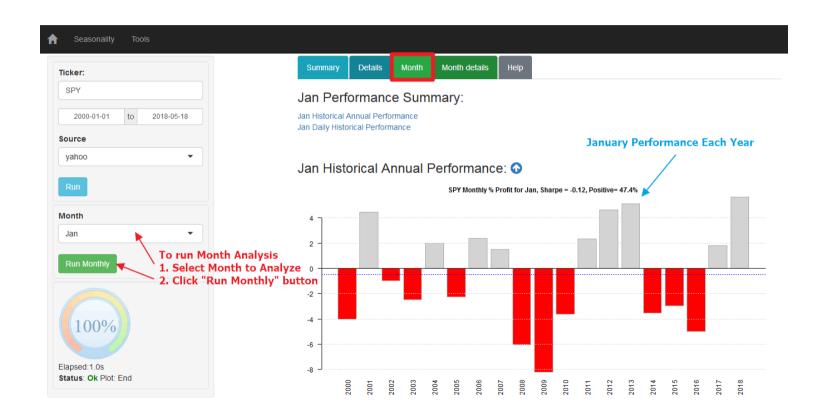
Reports



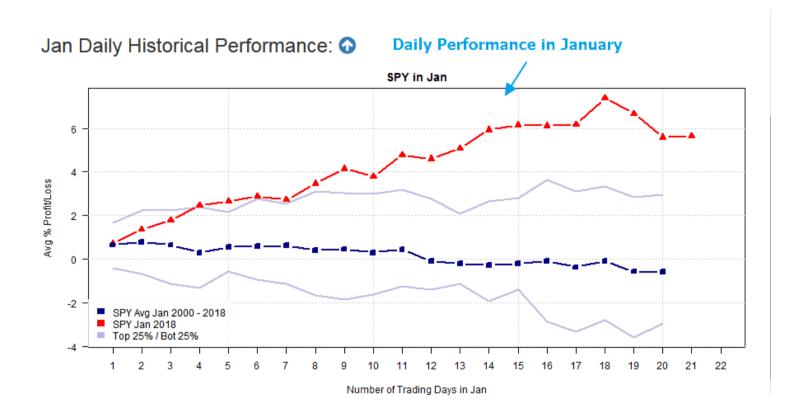
Details Tab



Month Tab



Month Tab - Daily Plot



Month Details Tab



Try RTSViz when you need to quickly Visualize Seasonality Patterns.

Install with the following code:

```
remotes::install_bitbucket('rtsvizteam/rtsviz')
```

Thank you

I will be glad to answer your questions during the break

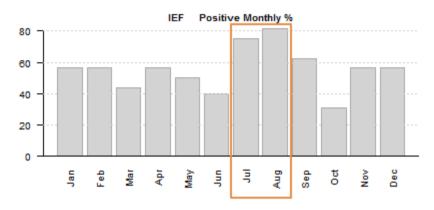
Appendices

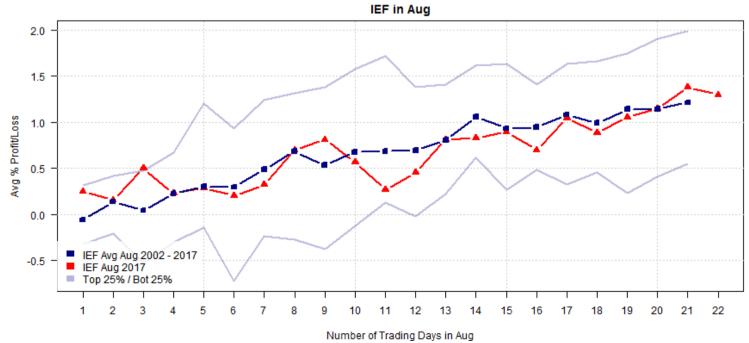
Additional examples of seasonality analysis:

- Seasonality Patterns in Fixed Income¹
- Seasonality Patterns in Google Trend Search Queries²
- Seasonality Patterns in Adaptive Allocation strategy backtest³
- Seasonality Patterns in VIX

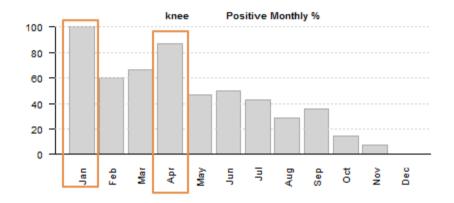
[1] Morgan Stanley unveils a detailed strategy that has worked perfectly for 3 decades for trading one of the worldâTMs largest markets around US holidays
[2]Using google trends to assess for seasonal variation in knee injuries
[3]Market Timing - Adaptive Allocation

Fixed Income



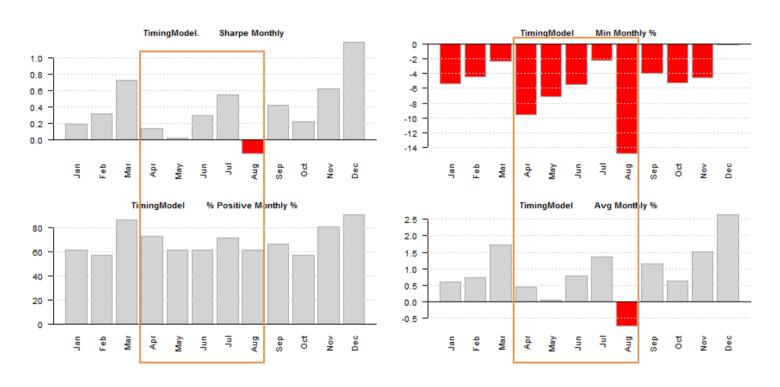


Google Trend Search Queries



Using google trends to assess for seasonal variation in knee injuries.

Adaptive Allocation strategy back-test



Avoid **spring and summer** to reduce **drawdowns**.

Implied Volatility

