

# Rýnir

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## 1 Introduction

Rynir is a statistical analyzer designed for Data-market.com, a data portal that provides access to statistics and structured data from various public and private sector organizations.

It's purpose is to analyze time series and return a list of flags, indicating interesting points in time for a given set of time series.

## 2 Dependencies

Rýnir is written in Python 2.6 and has the following dependencies:

- i NumPy  
<http://numpy.scipy.org/>
- ii SciPy  
<http://www.scipy.org/>
- iii Matplotlib  
<http://matplotlib.sourceforge.net/index.html>
- iv SciKits.timeseries  
<http://pytseries.sourceforge.net/index.html>
- v Unittest2  
<http://pypi.python.org/pypi/unittest2>
- vi Simplejson  
<http://pypi.python.org/pypi/simplejson/>

## 3 General Instructions

### 3.1 Installation

No special operations are needed if all dependencies are fulfilled. Simply unzip the package in any directory.

### 3.2 Configuration

In the config file following parameters can be set;  
N: Determines the framesize or N-period of a simple moving average.

K: Determines upper and lower bands at K times an N-period standard deviation, upper =  $K * \sigma$  and lower =  $-(K * \sigma)$

TOP: Determines how many flags are to be returned at most.

### 3.3 Addons

To be added ;)