

ADAMS

Advanced Data mining And Machine learning System

Module: adams-twitter



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Chapter 1

Introduction

ADAMS is a great environment for processing data streams. Using the excellent Java library *twitter4j* [2], you can tap into Twitter's stream of tweets or query for tweets that meet certain criteria.



Chapter 2

Flow

The flow comes with a range of actors for accessing the Twitter API. The following standalone actors are available:

- *TwitterConnection* - here you set up your parameters, like consumer key/secret. It uses the globally defined preferences as default parameters (see chapter 3).

The following sources are available:

- *TwitterListener* - listens to the *sample* stream of tweets.¹
- *TwitterQuery* - retrieves tweets that match your query.²

The following transformers are available:

- *TwitterConverter* - turns the tweets into a different format using the specified converter (e.g., text or spreadsheets).
- *TwitterFilter* - allows you to filter the stream of tweets coming through using a filter expression. Useful when generating several datasets with different subsets (in sub-branches) from the same stream of tweets.³

The following sinks are available:

- *Tweet* - updates your status with the incoming string.

The following boolean conditions are available (can be used in *IfThenElse* or *Switch* control actors):

- *TwitterFilterExpression* - allows to perform checks on the status object passing through.⁴

¹adams-twitter_listener1.flow, adams-twitter_listener2.flow

²adams-twitter_query1.flow, adams-twitter_query2.flow, adams-twitter_query3.flow

³adams-twitter_query4.flow

⁴adams-twitter_query4.flow, adams-twitter_query5.flow

Chapter 3

Preferences

The *TwitterConnection* standalone actor uses the globally defined twitter setup for its default settings. If you don't want to hand out your keys and secrets, you can simply configure your keys/secrets in the global settings and just use the default *TwitterConnection* configuration. Figure 3.1 shows the preferences tab for Twitter.

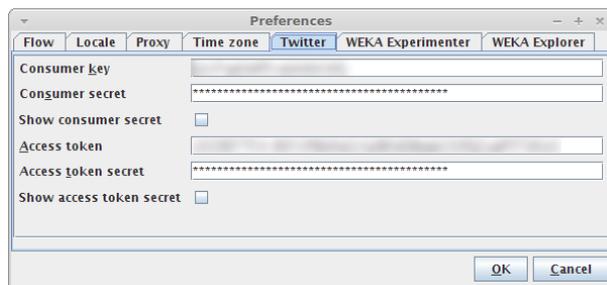


Figure 3.1: Twitter preferences

Bibliography

- [1] *ADAMS* – Advanced Data mining and Machine learning System
<https://adams.cms.waikato.ac.nz/>
- [2] *twitter4j* – An unofficial Java library for the Twitter API
<http://twitter4j.org/>