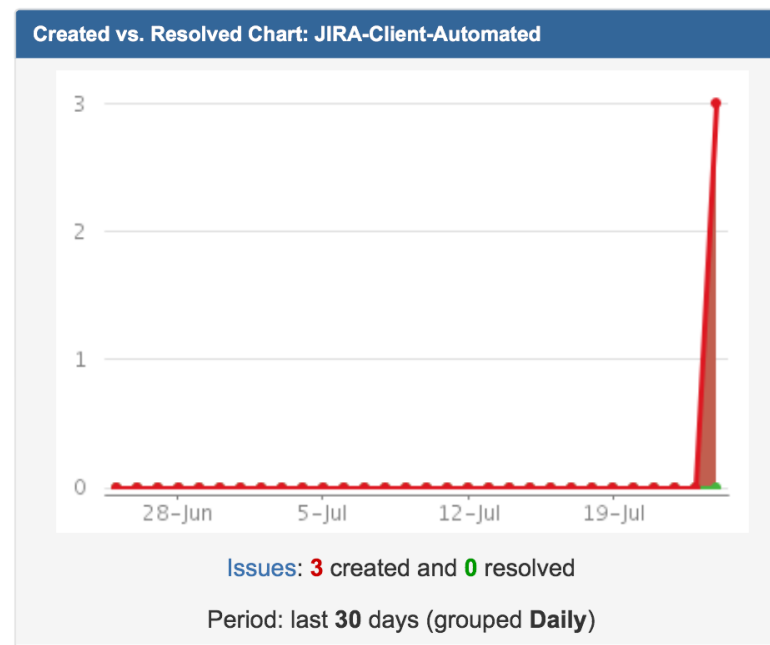


## Tickets Dashboard

[+ Add Gadget](#)
[✎ Edit Layout](#)
[⚙ Tools](#)



Assigned to Me			
T	Key	P ↓	Summary
<input type="checkbox"/>	JCA-1	↑	First bug
<input checked="" type="checkbox"/>	JCA-2	↑	First Task
1-2 of 2			

# Automating JIRA

by Michael Friedman  
 SVPerl Lightning Talks, August 2013

# About Me

- Perl developer for 15 years.
- This module was developed at Polyvore, but will be released as open source.
- This is my first CPAN module.  
(That's another presentation.)

Michael Friedman  
friedman@polyvore.com



# What's this all about?

- What is JIRA?
- Why automate?
- How to automate?
- Existing solutions
- My solution!

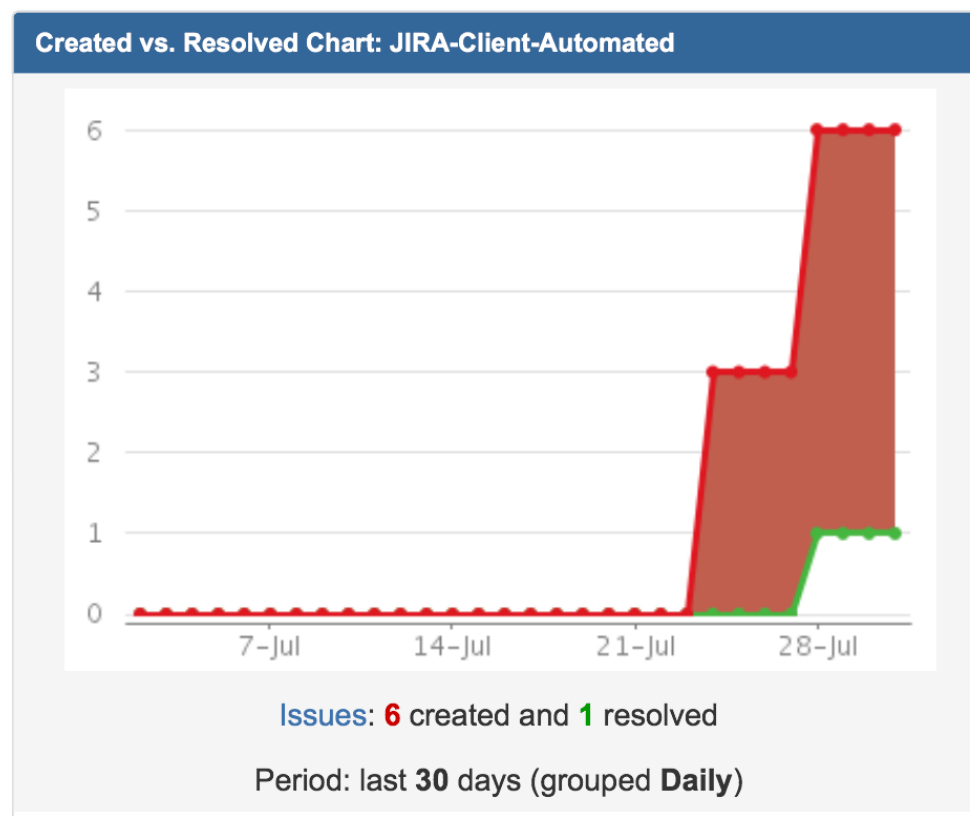
What is JIRA?

# JIRA is...

- An issue/bug tracker
- A project management tool
- A shared communication tool
- The repository of project history
- A web app
- Downloadable or Cloud-hosted

## Tickets Dashboard

+ Add Gadget Edit Layout Tools ▾



Assigned to Me			
T	Key	P ↓	Summary
<input type="checkbox"/>	JCA-1	↑	First bug
<input checked="" type="checkbox"/>	JCA-2	↑	First Task
<input type="checkbox"/>	JCA-8	↑	JIRA::Client::Automated updated
1–3 of 3			

iPad

5:34 PM

90%

frimicc.atlassian.net/browse/JCA#selectedTab=com.atlassian.jira

Reader

Search

JIRA-Client-Automated - JIRA

+

JIRA

Dashboards

Projects

Issues

Create issue

Quick Search

JIRA-Client-Automated

Key: JCA · Lead: Michael Friedman [Administrator] · URL: https://github.com/frimicc/jira-client-automated

Overview

Administration

Summary

Issues

Popular Issues

Calendar

Labels

Issues

All issues

Unresolved

Added recently

Resolved recently

Updated recently

Assigned to me

Reported by me

Unscheduled

Outstanding

Unresolved: By Priority

Priority	Issues	Percentage
Major	5	100%

View Issues

Unresolved: By Assignee

Assignee	Issues	Percentage
Michael Friedman [Administrator]	3	60%
Unassigned	2	40%

iPad

5:33 PM

90%

frimicc.atlassian.net/browse/JCA-2

Search

[JCA-2] First Task - JIRA

+

JIRA

Dashboards

Projects

Issues

Create issue

Quick Search

JIRA-Client-Automated / JCA-2

First Task

Edit

Comment

Assign

More

Start Progress

Resolve Issue

Workflow

Export

Details

Type:Task

Priority:Major

Labels:None

Status:Open

(View Workflow)

Resolution:Unresolved

People

Assignee:Michael Friedman [Administrator]

Reporter:Michael Friedman [Administrator]

Votes:0 Vote for this issue

Watchers:1 Stop watching this issue

Description

I also have tasks to work on.

Activity

All

Comments

Work Log

History

Activity

Source

Reviews

Commits

There are no comments yet on this issue.

Comment

Dates

Created:24/Jul/13 6:38 PM

Updated:24/Jul/13 6:38 PM



Why automate?

# Think of the possibilities!

- Automatically create bug reports
- Attach log files to bugs
- Use code to implement complex workflows
- Rule-based triage of the incoming stream
- Automatically close bugs

How to automate?

# JIRA's Options

- REST API (JIRA version 5.0+)
- SOAP XML API (JIRA version 5.0-)
- Java Plugins

<https://developer.atlassian.com/display/JIRADEV/JIRA+REST+APIs>

Existing solutions

# To the CPAN!

- JIRA::Client (SOAP API only)
- JIRA::Client::REST (REST API, read-only)
- JIRA::REST (REST API, no transitions)
- Lots of Java Plugins

None of them work well for non-interactive applications

My solution

# JIRA::Client::Automated

- Object-oriented
- Can work with multiple JIRA instances at once
- Entirely automated, no user interaction required
- Can read and write and transition issues
- Compact data format (hashes instead of JSON)
- Create issues
- Attach files to issues
- Comment on issues
- Search for issues
- Transition issues
- Close issues

<https://github.com/frimicc/jira-client-automated>



# Example uses

- Web crawler errors (site is down?)
- Nightly batch errors (bad UTF-8 username?)
- Compute statistics (1000 fewer pages today)
- System monitoring (Nagios can run scripts as alerts)
- Close tickets script (My favorite)
- Rules-based triage (This goes to Joe, unless it's Tuesday...)
- Updates with further information (Here's the log file for you)
- etc. etc. etc.

# Live Code Explanation!

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(We're hiring.)