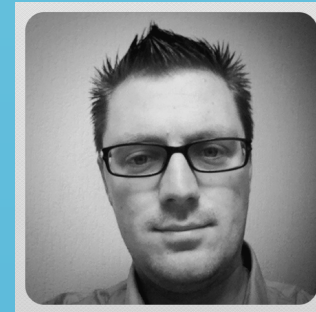




Quality through Tools

Who am I

Stefan Kohler
Consultant @ 42



High quality software solutions and
professional services for Atlassian products

Customers with existing processes and
infrastructures or customers who are just starting
up their business

Experience

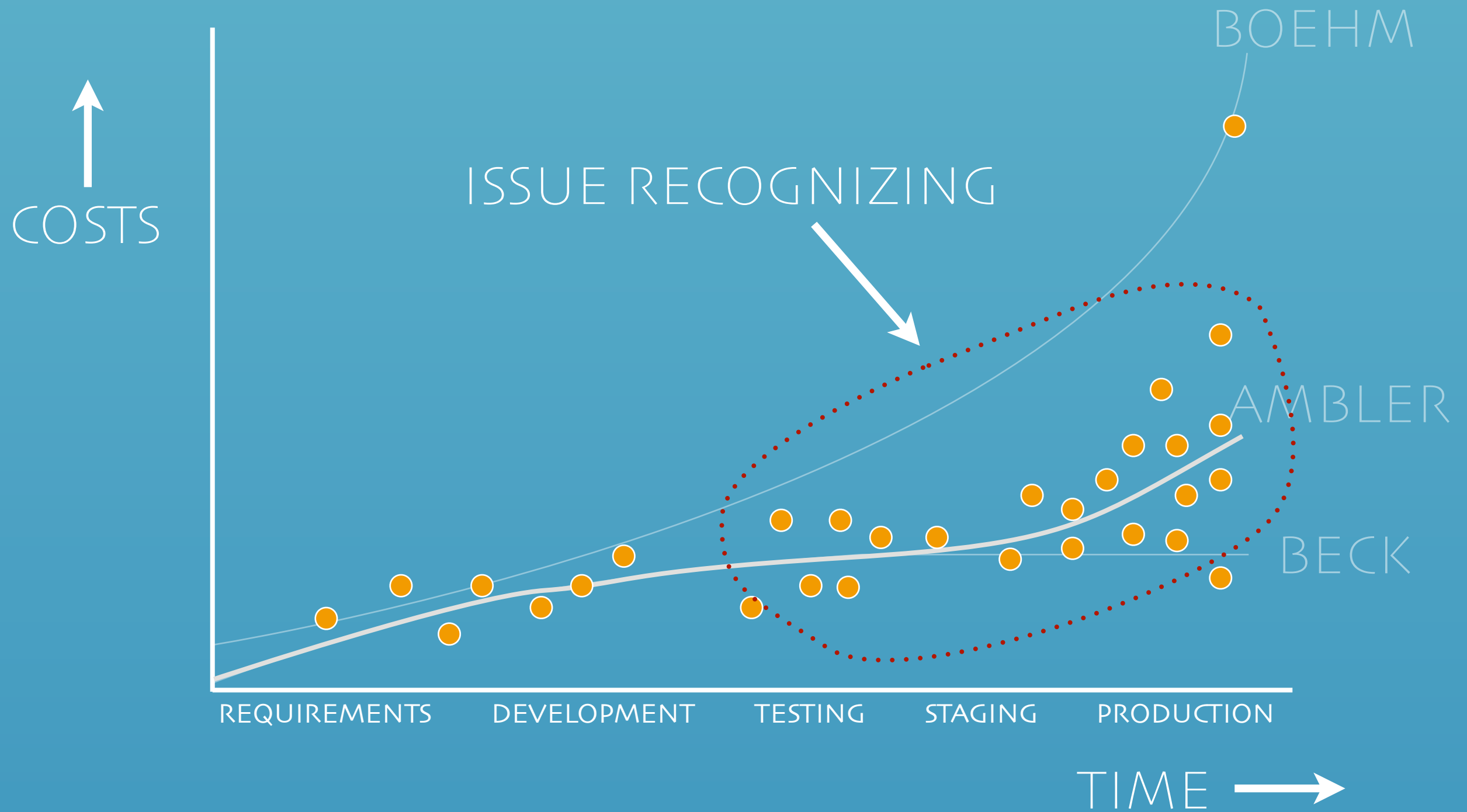
7 years development

2 years scrum master

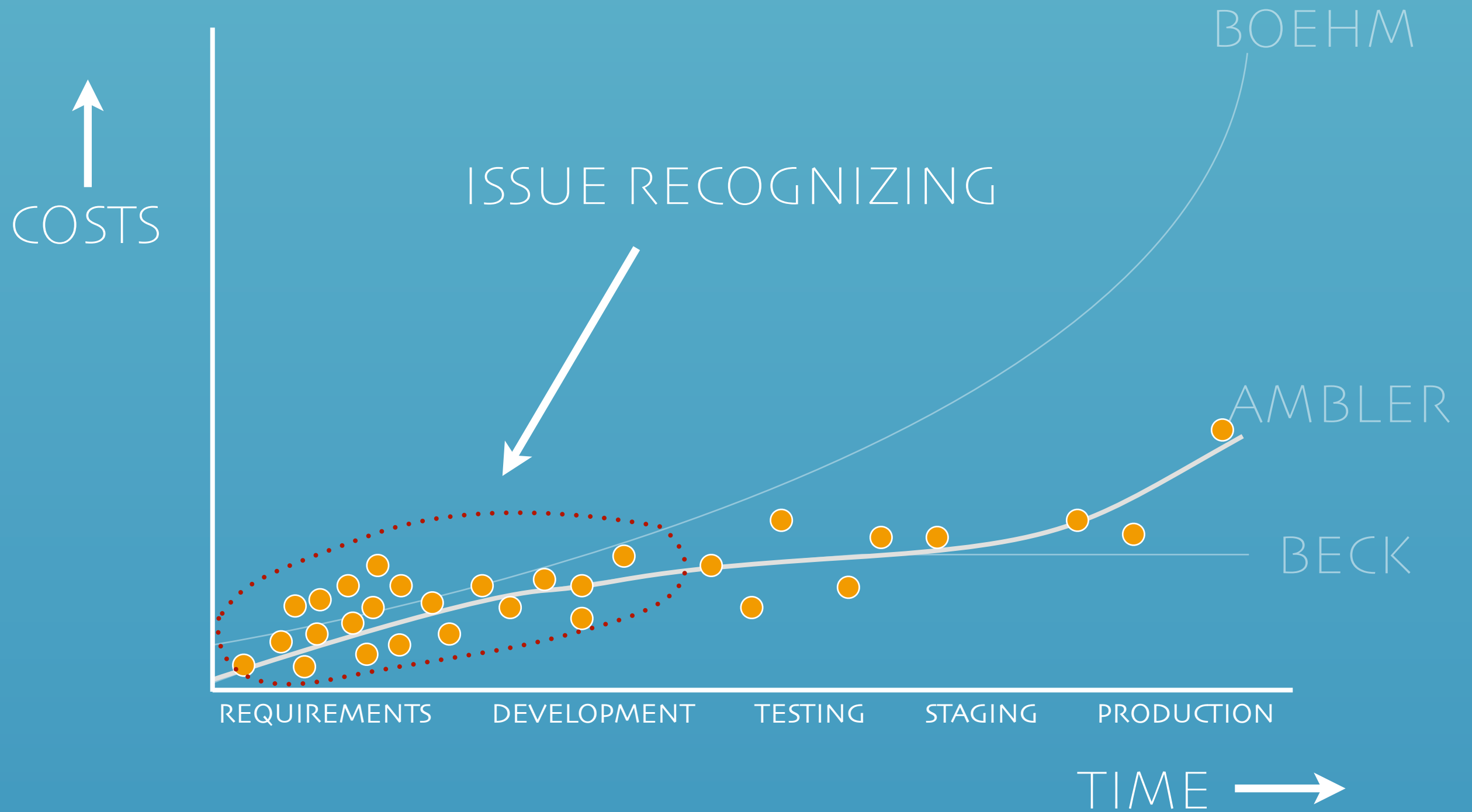
Founder Atlassian User Group

Nuts about metrics, quality and improving

Why quality?



Why quality?



What is quality?

The product does what it is expected to do.



The product doesn't do what is not expected to do.



The product is able to keep doing what it is expected to do.



What is quality?



quality through tools

Integration

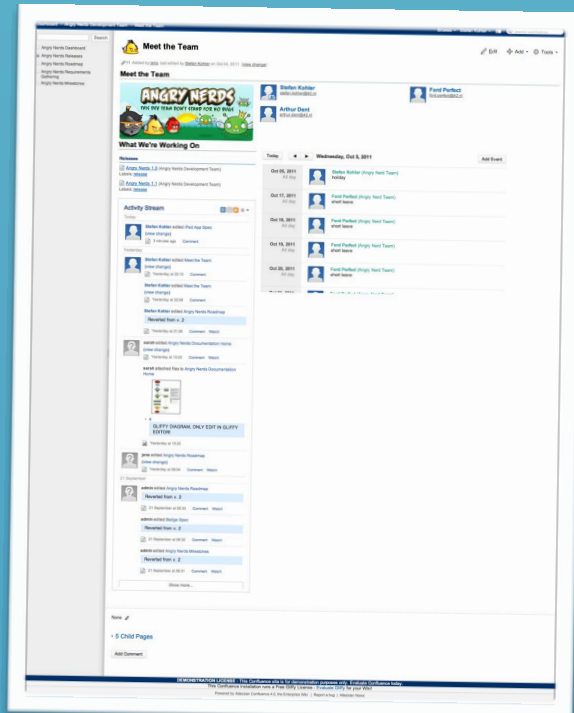
Customizable

Active ecosystem

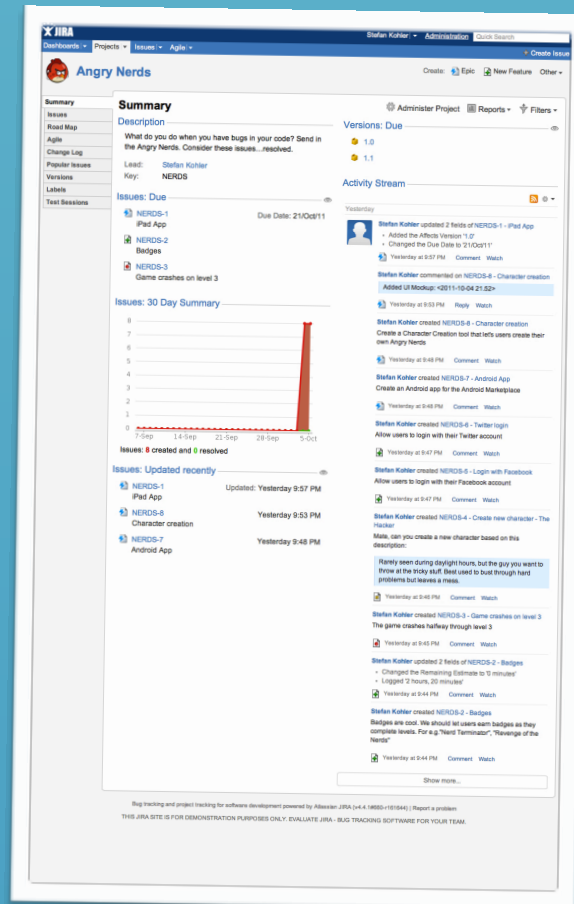
Visual appealing



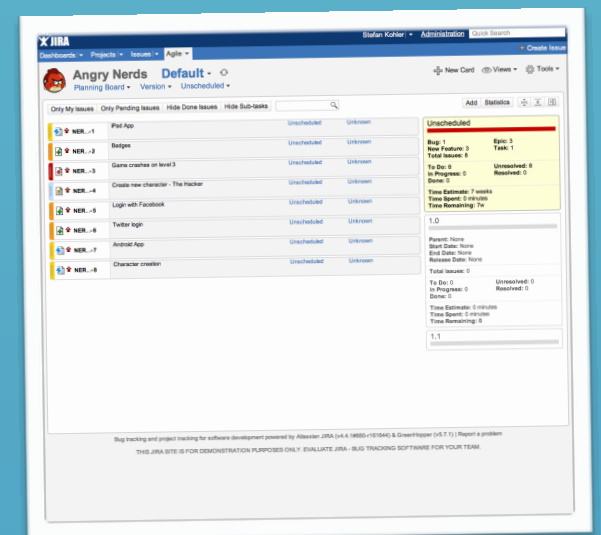
Functional quality



Confluence



JIRA



Greenhopper

Confluence

Collaborate on specifications

Dashboard

Angry Nerds Development Team

...

iPad App Spec

Search

Angry Nerds Dashboard

Angry Nerds Releases

Angry Nerds 1.0

- Angry Nerds Specifications
 - Badge Spec
 - Facebook Integration Spec
 - iPad App Spec
 - iPhone App Spec
 - Twitter Integration Spec
- Angry Nerds 1.1
- Angry Nerds Roadmap
- Angry Nerds Requirements Gathering
- Angry Nerds Milestones

🔒

📄

🔍

📄 iPad App Spec

🔗 #6 Added by admin, last edited by Stefan Kohler on Oct 05, 2011 (view change)

Key Details

Target Release

Angry Nerds 1.0

Release Status

Not Started

Spec Status

In Progress

Category

NERDS

Mockup



JIRA Issue

NERDS-1 - iPad App - OPEN

Assumptions

- iPads are the future
- iPads are cool which will make Angry Nerds cooler
- Nerds are smart
- Nerds can do anything and potentially take over the world
- Badges are cool and people want them
- Bugs must be exterminated
- Code must be clean
- People like to compete
- iPads are an addiction (#winning)

Mockup



edit this mockup

EVALUATION LICENSE - Are you enjoying Balsamiq Mockups?

Please consider purchasing it today.

iPad App Requirements

User Story Title	User Story Description	Priority	Order	Notes
Login	Steve the iPad owner should be able to login to the iPad app using his Angry Nerds username and password	1		
Immediate play	Steve the iPad owner wants to crush bugs. Upon logging into to Angry Nerds on his iPad, Angry Nerds will start the level, he left off at.	1		
Facebook Connect	Steve the iPad should be able to connect his Angry Nerds account to his Facebook account so all his friends know just how awesome he is.	2		
Twitter Integration	Every time Steve kills a bug, he should be able to send a Tweet so the Twitterverse knows how awesome he is.	3		

spec

ipad

🔍

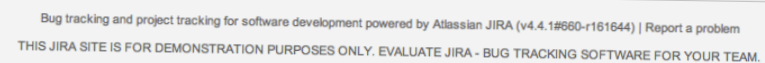
Add Comment

DEMONSTRATION LICENSE - This Confluence site is for demonstration purposes only. Evaluate Confluence today.

This Confluence installation runs a Free Giffy License - Evaluate Giffy for your Wiki!

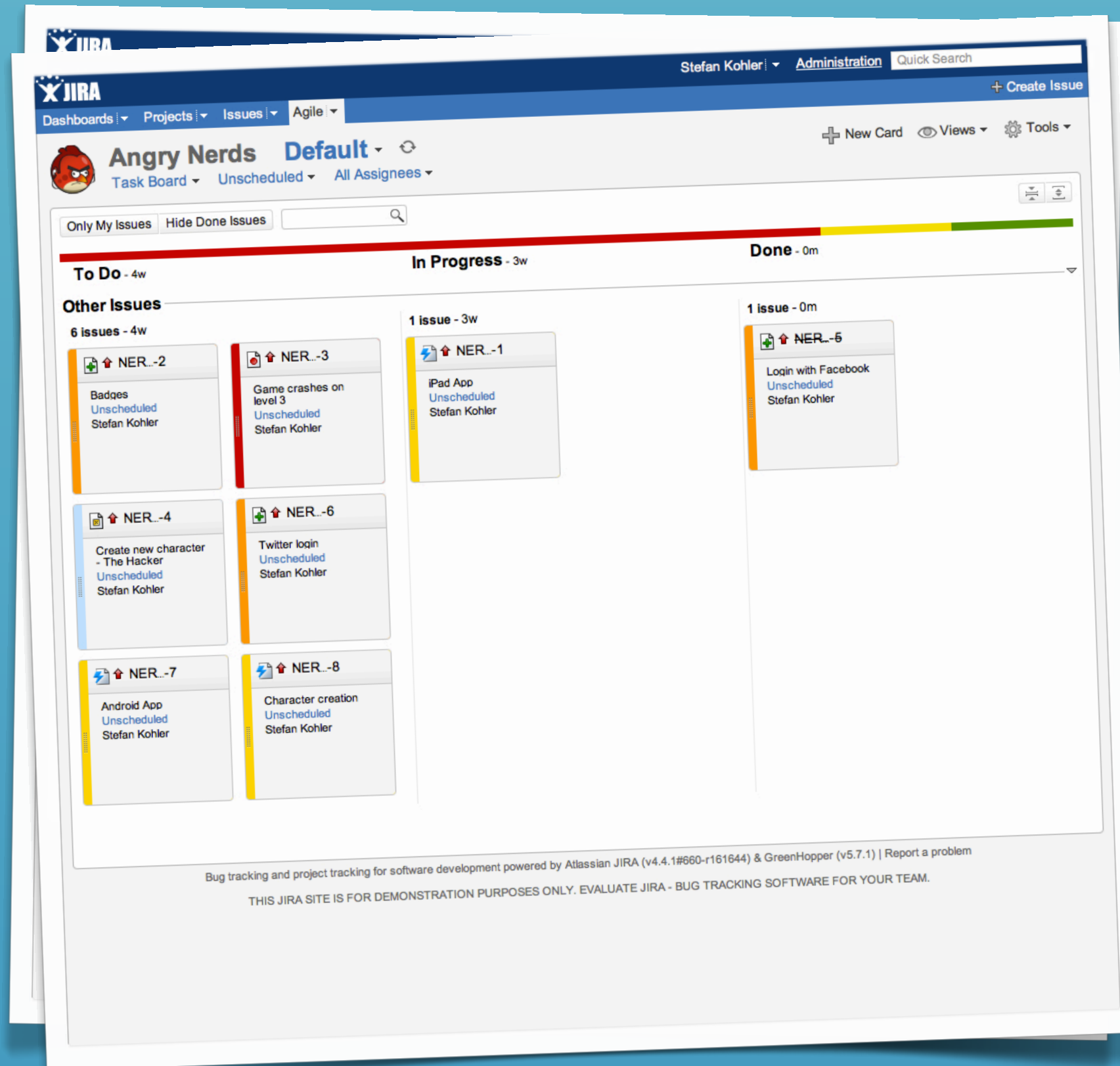
Powered by Atlassian Confluence 4.0, the Enterprise Wiki | Report a bug | Atlassian News

Not just for issues!

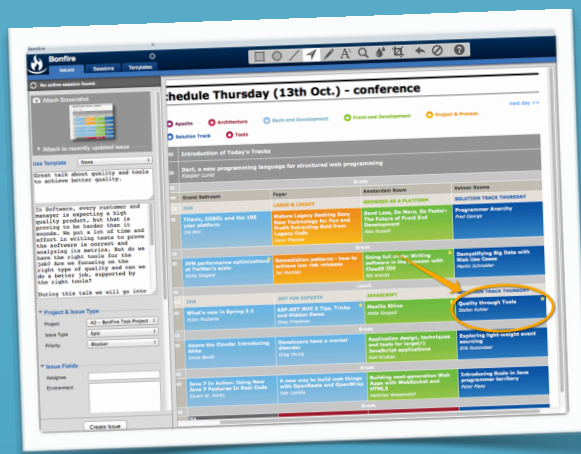


Greenhopper

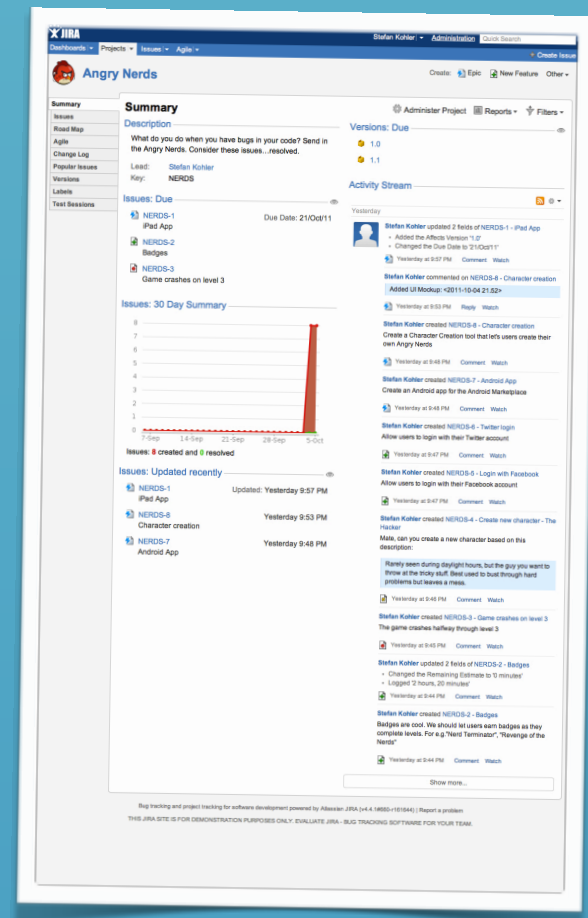
Make progress visible!



Operational quality



Bonfire



JIRA

Bonfire

Direct feedback!

The screenshot displays the Bonfire web application interface, which is used for creating and managing issues. The interface is divided into two main sections: a left sidebar for issue creation and a right main area for viewing a conference schedule.

Left Sidebar (Issue Creation):

- Attach Screenshot:** A section for attaching a screenshot to an issue.
- Attach to recently updated issue:** A link to attach the issue to a recently updated one.
- Use Template:** A dropdown menu with "None" selected.
- Issue Description:** A text area containing the following text:

Great talk about quality and tools to achieve better quality.

In Software, every customer and manager is expecting a high quality product, but that is proving to be harder than it sounds. We put a lot of time and effort in writing tests to prove the software is correct and analyzing its metrics. But do we have the right tools for the job? Are we focusing on the right type of quality and can we do a better job, supported by the right tools?

During this talk we will go into
- Project & Issue Type:** A section for selecting the project and issue type.
 - Project:** A dropdown menu with "42 - BonFire Test Project" selected.
 - Issue Type:** A dropdown menu with "Epic" selected.
 - Priority:** A dropdown menu with "Blocker" selected.
- Issue Fields:** A section for entering the assignee and environment.
 - Assignee:** A text input field.
 - Environment:** A text input field.
- Create Issue:** A button to create the issue.

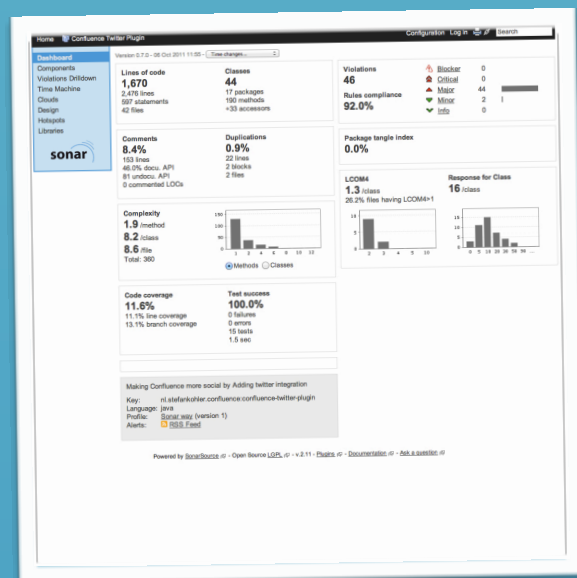
Right Main Area (Conference Schedule):

The main area displays a conference schedule for Thursday (13th Oct.). The schedule is organized into a grid with columns for different tracks and rooms. The tracks are: Apache, Architecture, Back-end Development, Front-end Development, Project & Process, Solution Track, and Tools. The rooms are: Grand Ballroom, Foyer, Amsterdam Room, and Volmer Rooms.

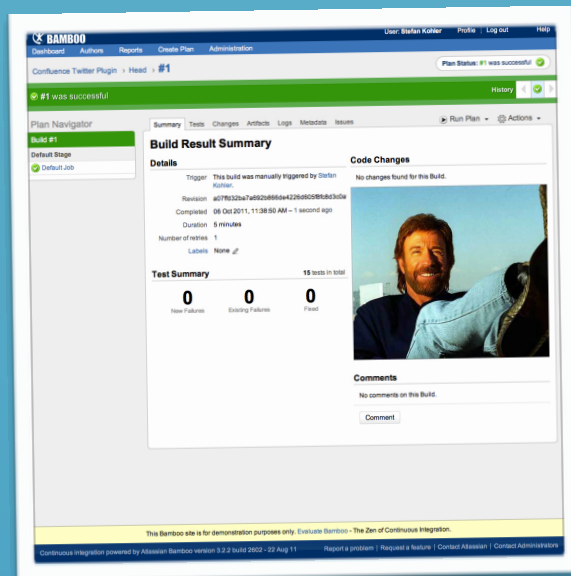
The schedule includes various talks and sessions, such as "Introduction of Today's Tracks", "Dart, a new programming language for structured web programming", "Titanic, COBOL and the 100 year platform", "Mature Legacy Seeking Sexy New Technology for Fun and Profit Extracting Gold from Legacy Code", "Send Less, Do More, Go Faster: The Future of Front End Development", "Programmer Anarchy", "JVM performance optimizations at Twitter's scale", "Remediation patterns - how to achieve low risk releases", "Going full circle: Writing software in the browser with Cloud9 IDE", "Demystifying Big Data with Riak Use Cases", "What's new in Spring 3.1", ".NET FOR EXPERTS", "ASP.NET MVC 3 Tips, Tricks and Hidden Gems", "Mozilla Rhino", "Quality through Tools", "Above the Clouds: Introducing Akka", "Developers have a mental disorder", "Application design, techniques and tools for large(r) JavaScript applications", "Exploring light-weight event sourcing", "Java 7 In Action: Using New Java 7 Features In Real Code", "A new way to build web things with OpenRasta and OpenWrap", "Building next-generation Web Apps with WebSocket and HTML5", and "Introducing Scala in Java programmer territory".

An orange arrow points to the "Quality through Tools" session by Stefan Kohler, which is highlighted with a yellow star.

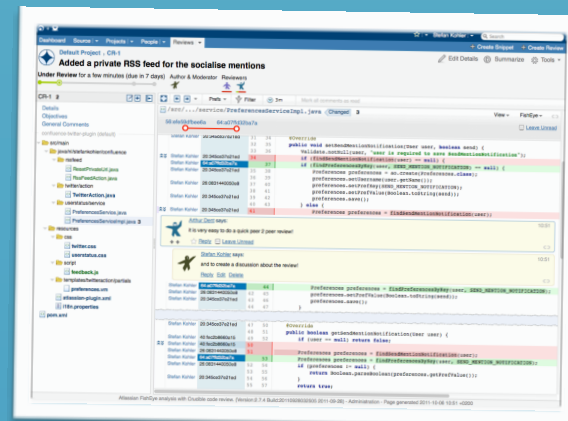
Fundamental quality



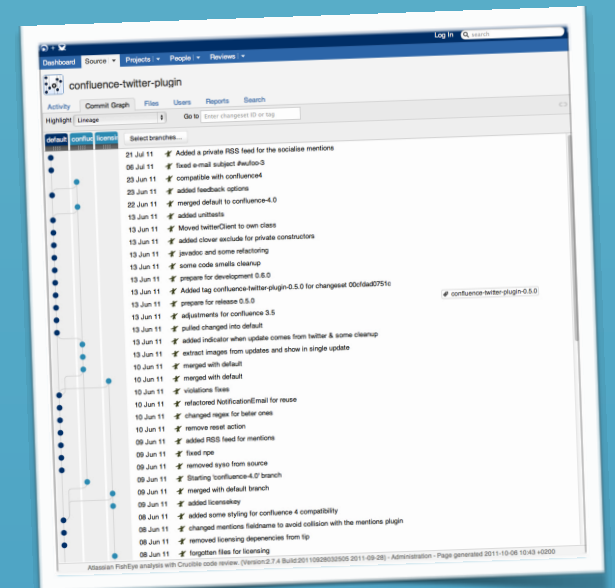
Sonar



Bamboo



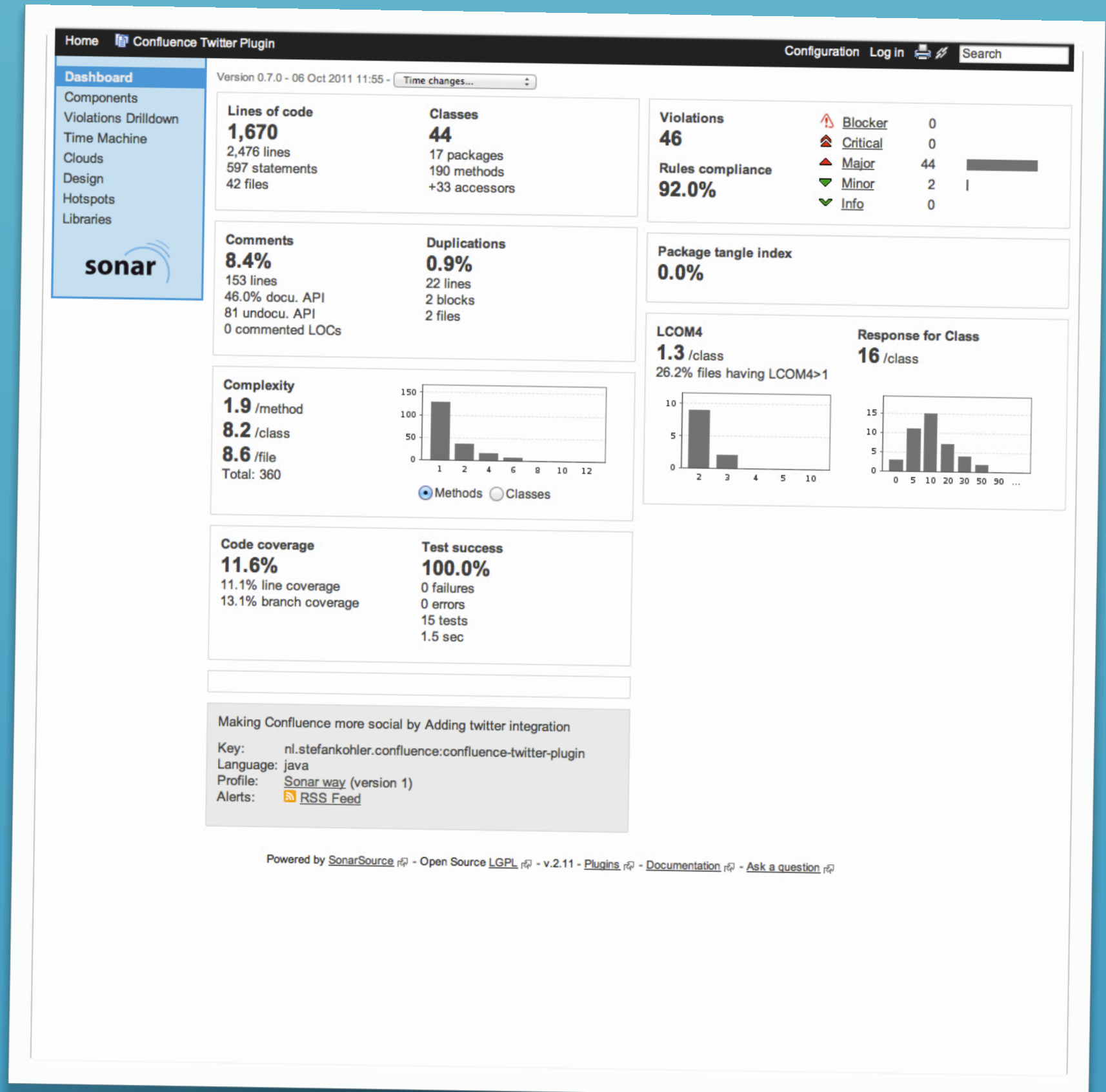
Crucible



Fisheye

Sonar

Quality made visible!



Bamboo

Direct feedback!

The screenshot displays the Bamboo web interface for a successful build. The top navigation bar includes links for Dashboard, Authors, Reports, Create Plan, and Administration. The user is identified as Stefan Kohler. The main content area shows the 'Build Result Summary' for 'Build #1', which was successfully completed on October 6, 2011, at 11:38:50 AM. The build duration was 5 minutes, and it had 1 retry. The test summary indicates 15 tests in total, with 0 new failures, 0 existing failures, and 0 fixed failures. A photo of a smiling man is featured next to the test summary. The interface also includes a 'Plan Navigator' on the left and a 'Comments' section at the bottom right.

BAMBOO
Dashboard Authors Reports Create Plan Administration
User: Stefan Kohler Profile Log out Help

Confluence Twitter Plugin > Head > #1

Plan Status: #1 was successful

History

#1 was successful

Run Plan Actions

Summary Tests Changes Artifacts Logs Metadata Issues

Build Result Summary

Details

Trigger This build was manually triggered by Stefan Kohler.

Revision a07ffd32ba7a692b866de4226d605f8fc8d3c0a

Completed 06 Oct 2011, 11:38:50 AM – 1 second ago

Duration 5 minutes

Number of retries 1

Labels None

Test Summary 15 tests in total

0 New Failures 0 Existing Failures 0 Fixed

Code Changes

No changes found for this Build.

Comments

No comments on this Build.

Comment

This Bamboo site is for demonstration purposes only. [Evaluate Bamboo](#) - The Zen of Continuous Integration.

Continuous integration powered by Atlassian Bamboo version 3.2.2 build 2602 - 22 Aug 11

[Report a problem](#) | [Request a feature](#) | [Contact Atlassian](#) | [Contact Administrators](#)

Crucible

Team reviews!

The screenshot displays the Crucible code review interface. The top navigation bar includes links for Dashboard, Source, Projects, People, and Reviews. The current review is titled "Default Project, CR-1" and "Added a private RSS feed for the socialise mentions". It is marked as "Under Review for a few minutes (due in 7 days)". The interface shows a list of reviewers and a progress bar. On the left, a file tree shows the project structure, including "src/main/java/n/stefankohler/confluence/rssfeed". The main area displays the code for "PreferencesServiceImpl.java" with line numbers and a table of review comments. The code includes methods like "setSendMentionNotification" and "getSendMentionNotification". Review comments are shown in a table with columns for the reviewer, the code line, and the comment text. Comments include suggestions for code changes and general feedback. The bottom of the screen shows the Atlassian FishEye analysis with Crucible code review version and build information.

Default Project, CR-1
Added a private RSS feed for the socialise mentions
Under Review for a few minutes (due in 7 days)
Author & Moderator: Stefan Kohler
Reviewers: Arthur Dent, Stefan Kohler

CR-1 2
Details
Objectives
General Comments
confluence-twitter-plugin (default)
src/main
java/n/stefankohler/confluence
rssfeed
ResetPrivateUrl.java
RssFeedAction.java
twitter/action
TwitterAction.java
userstatus/service
PreferencesService.java
PreferencesServiceImpl.java 3
resources
css
twitter.css
userstatus.css
script
feedback.js
templates/twitteraction/partials
preferences.vm
atlassian-plugin.xml
i18n.properties
pom.xml

/src/.../service/PreferencesServiceImpl.java Changed 3
58:efe59dfbee6a 64:a07fd32ba7a
Stefan Kohler 20:345ce37e21ed 31 34
Stefan Kohler 20:345ce37e21ed 32 35
Stefan Kohler 20:345ce37e21ed 33 36
Stefan Kohler 20:345ce37e21ed 34 37
Stefan Kohler 26:0831440050e8 35 38
Stefan Kohler 20:345ce37e21ed 36 39
Stefan Kohler 20:345ce37e21ed 37 40
Stefan Kohler 20:345ce37e21ed 38 41
Stefan Kohler 20:345ce37e21ed 39 42
Stefan Kohler 20:345ce37e21ed 40 43
Stefan Kohler 20:345ce37e21ed 41 44
Stefan Kohler 40:fec2b8660a15 42 45
Stefan Kohler 26:0831440050e8 43 46
Stefan Kohler 20:345ce37e21ed 44 47
Stefan Kohler 20:345ce37e21ed 47 50
Stefan Kohler 40:fec2b8660a15 48 51
Stefan Kohler 40:fec2b8660a15 49 52
Stefan Kohler 26:0831440050e8 50 53
Stefan Kohler 26:0831440050e8 51 54
Stefan Kohler 64:a07fd32ba7a 52 55
Stefan Kohler 26:0831440050e8 53 56
Stefan Kohler 20:345ce37e21ed 54 57
Stefan Kohler 20:345ce37e21ed 55 57

```
@Override  
public void setSendMentionNotification(User user, boolean send) {  
    Validate.notNull(user, "user is required to save SendMentionNotification");  
    if (findSendMentionNotification(user) == null) {  
        if (findPreferencesByKey(user, SEND_MENTION_NOTIFICATION) == null) {  
            Preferences preferences = ao.create(Preferences.class);  
            preferences.setUsername(user.getName());  
            preferences.setPrefKey(SEND_MENTION_NOTIFICATION);  
            preferences.setPrefValue(Boolean.toString(send));  
            preferences.save();  
        } else {  
            Preferences preferences = findSendMentionNotification(user);  
            preferences.setPrefValue(Boolean.toString(send));  
            preferences.save();  
        }  
    }  
}
```

Arthur Dent says:
it is very easy to do a quick peer 2 peer review!
Stefan Kohler says:
and to create a discussion about the review!

```
@Override  
public boolean getSendMentionNotification(User user) {  
    if (user == null) return false;  
    Preferences preferences = findSendMentionNotification(user);  
    preferences.setPrefValue(Boolean.toString(send));  
    preferences.save();  
    Preferences preferences = findPreferencesByKey(user, SEND_MENTION_NOTIFICATION);  
    if (preferences != null) {  
        return Boolean.parseBoolean(preferences.getPrefValue());  
    }  
    return true;  
}
```

Atlassian FishEye analysis with Crucible code review. (Version:2.7.4 Build:20110928032505 2011-09-28) - Administration - Page generated 2011-10-06 10:51 +0200

Fisheye

Changes in codebase

The screenshot displays the Fisheye web interface for a code review. The top navigation bar includes links for Dashboard, Source, Projects, People, and Reviews. The current view is for the file `confluence-twitter-plugin / src / main / java / nl / stefankohler / confluence / twitter / TwitterAccountServiceImpl.java`.

On the left, a file tree shows the project structure, including folders like `src/main/java/nl/stefankohler/confluence/` and files like `TwitterAccount.java`, `TwitterAccountService.java`, and `TwitterAccountServiceImpl.java`.

The main area shows a diff view for the selected file. It includes a table with columns for Activity, Revisions, Users, Reports, and Source. The table lists revisions and the changes made by Stefan Kohler. The diff shows changes to the `TwitterAccountServiceImpl.java` file, including imports and the `add` method.

The diff view shows the following changes:

- Import static com.google.common.base.Preconditions.*;
- Import static com.google.common.collect.Lists.*;
- Import java.util.Date;
- Import java.util.List;
- Import net.java.ao.Query;
- Override method `add` in `TwitterAccount` class.
- Method `add` implementation, including validation and account creation.
- Method `createTwitterAccount` implementation, including account creation and saving.
- Method `updateTwitterAccount` implementation, including account update and saving.

The bottom of the page shows the Atlassian FishEye Mercurial analysis with Crucible code review. (Version:2.7.4 Build:20110928032505 2011-09-28) - Administration - Page generated 2011-10-06 10:45 +0200.

Top 3 tips!

1

Integration

2

Visibility

3

Ambassador

More information

<http://bit.ly/slides42>

The slides!

<http://bit.ly/atlassian42>

Professional Services

<http://atlassian.com>

More about Atlassian

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E-mail: stefan.kohler@42.nl

Booth: #3 @ gotoams