





# Bonfire

How'd you do that?

**Ian Grunert**  
**Developer, Atlassian**

# Agenda



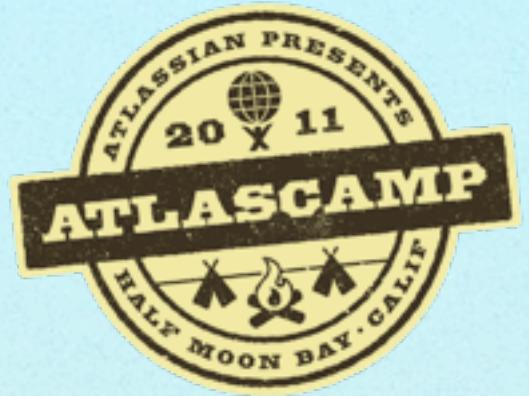
# Agenda

- What is Bonfire?



# Agenda

- What is Bonfire?
- Building plugins for multiple JIRA versions



# Agenda

- What is Bonfire?
- Building plugins for multiple JIRA versions
- JIRA integration in Bonfire - problems and solutions



# What is Bonfire?



A screenshot of the Bonfire application interface. On the left, there's a sidebar with options like "Summary", "Description", "Labels", "Project &amp; Issue Type" (set to "Angry Nerds (ANGRY)", "Bug", "Blocker"), and a "Create Issue" button. In the center, there's a screenshot of a Wikipedia page titled "Welcome to Wikipedia". On the right, the main panel shows a session titled "Test the game mechanics" with status "Completed". It shows activity from Edwin Wong: "CREATED" at 03/06/11 12:25PM, "STARTED" at 03/06/11 12:27PM, and a comment "ANGRY-54 - The nerd is flying through the air too quickly. It should go slower." at 03/06/11 12:28PM. A file attachment for "ANGRY-55" is shown, along with a screenshot of a game interface.



# What is Bonfire?

- Exploratory testing tool

A screenshot of the Bonfire application interface. On the left, there's a modal window titled 'Create Issue' with fields for 'Summary...', 'Description...', 'Labels...', and dropdown menus for 'Project &amp; Issue Type' (Project: Angry Nerd (ANGRY), Issue Type: Bug, Priority: Blocker). At the bottom of this window is a 'Create Issue' button. To the right of the modal, the main interface shows a 'Test Sessions' page. One session is listed: 'Test the game mechanics' (Status: Completed). The session summary shows 2 issues raised, 2 hours spent, and 1 participant (Edwin Wong). The activity log shows Edwin Wong creating and starting the session, and later commenting on bugs ANGRY-54 and ANGRY-55. A screenshot of a game is attached to the comment on ANGRY-55. A sidebar on the right lists navigation links: Main Page, Discussion, Read, View source, Summary, Issues, Road Map, Agile, Change Log, Popular Issues, Calendar, Versions, Components, Labels, Scrum Cards, Builds, and Test Sessions.



# What is Bonfire?

- Exploratory testing tool
- JIRA plugin targeting multiple JIRA versions

A screenshot of a web browser displaying the Bonfire JIRA plugin. The main window shows a session titled "Test the game mechanics" with a status of "Completed". It includes metrics: 2 issue(s) raised, 2h time spent, and 1 participant(s). The activity log shows a user named Edwin Wong performing "CREATED" and "STARTED" actions. A screenshot of a Wikipedia page is attached to the session. On the left, there's a sidebar with links like "Summary", "Issues", "Road Map", "Agile", etc. The address bar shows the URL "jira.atlassian.com/browser/bonfire".

Session: Test the game mechanics

Status: Completed

Summary: 2 issue(s) Raised, 2h Time Spent, 1 Participant(s)

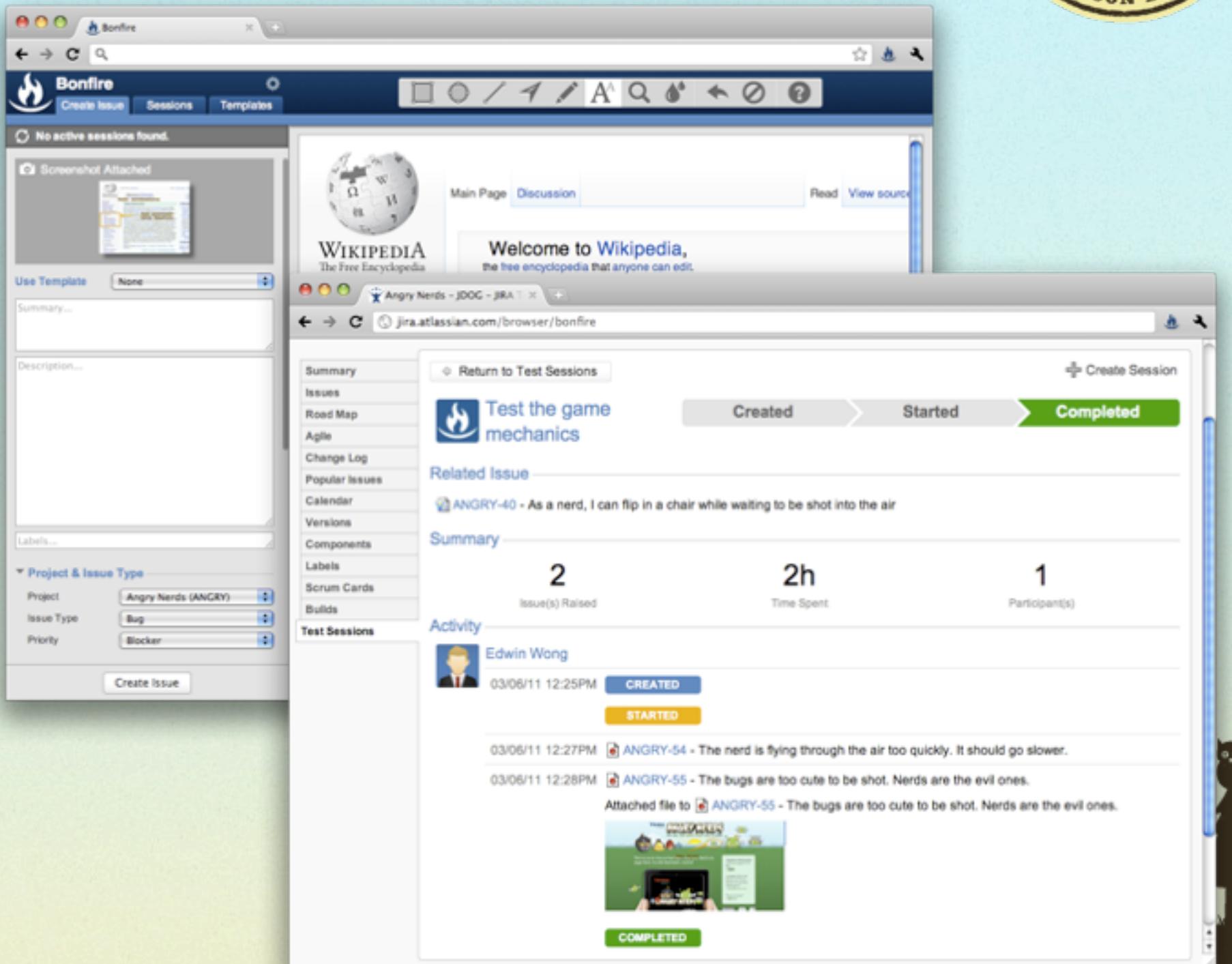
Activity:

- Edwin Wong (Created) 03/06/11 12:25PM
- Edwin Wong (Started) 03/06/11 12:27PM
- Edwin Wong (Completed) 03/06/11 12:28PM

Attached file to ANGRY-55 - The bugs are too cute to be shot. Nerds are the evil ones.

# What is Bonfire?

- Exploratory testing tool
- JIRA plugin targeting multiple JIRA versions
- Browser extension for major browsers



# Bonfire -> JIRA Integration



- Browser extension - JIRA client
- Submit bug reports directly from your browser

The image shows a screenshot of a web browser window. On the left, the Bonfire extension interface is visible, showing a screenshot of a webpage with the text "Welcome to Wikipedia, Take screenshots". Below the screenshot are dropdown menus for "Project & Issue Type" (set to "WAC - Website Task Force", "Change", "Major") and "Issue Fields" (set to "Unassigned" and "15/sep/11"). A "Create Issue" button is at the bottom. On the right, the Atlassian Bonfire website homepage is displayed. It features the Atlassian logo and links for JIRA, Confluence, Studio, Dev Tools, and Our Company. A banner for "BONFIRE Exploratory testing for agile teams" is shown with a "Starts at \$10 Introductory 40% off" button highlighted with a yellow border. The page also includes sections for "Agile testing: It's about time" and "Quality testing can finally keep up with the speed of agile development". Logos for eBay, Dolby, and Thomas Cook are at the bottom.



# Bonfire -> JIRA Integration

- JIRA Plugin - track and manage testing activities
- Test Sessions
- Session Notes
- <http://www.atlassian.com/bonfire>

A screenshot of a web browser window titled "Angry Nerds - JDOG - JIRA T..." with the URL "jira.atlassian.com/browser/bonfire". The page displays a "Test Sessions" interface. On the left is a sidebar with links: Summary, Issues, Road Map, Agile, Change Log, Popular Issues, Calendar, Versions, Components, Labels, Scrum Cards, Builds, and Test Sessions. The main area shows a session titled "Test the game mechanics" with status "Completed". It has a summary table with rows for "Issue(s) Raised" (2), "Time Spent" (2h), and "Participant(s)" (1). Below the summary is a "Related Issue" section listing "ANGRY-40" and "ANGRY-54, ANGRY-55". A "Summary" table shows 2 issues raised, 2 hours spent, and 1 participant. The "Activity" section shows a log of events for "Edwin Wong": "CREATED" on 03/06/11 12:25PM, "STARTED" on 03/06/11 12:27PM, and a note about ANGRY-54. Another note for ANGRY-55 is shown with an attached file thumbnail.

# Building multiple JIRA version supported plugins



Screenshot of a JIRA issue details page for ANGRY-41, titled "I don't like the yellow sun".

**Issue Details:** ANGRY-41

**Details:**

- Type: Bug
- Priority: Critical
- Affects Version/s: 1.1
- Component/s: Nerd Graphics
- Labels: None
- Story Points: 1
- Browser: Chrome
- Rank: 6

**People:**

- Assignee: Unassigned
- Reporter: Edwin Wong
- Vote (0)
- Watch (0)

**Dates:**

- Created: 03/Jun/11 12:33 AM
- Updated: 17/Aug/11 8:21 AM

**Issue Links:**

- relates to ANGRY-40 As a nerd, I can flip in a chair while w...

**Activity:**

All Comments Work Log History Activity Test Sessions Builds

There are no comments yet on this issue.

Comment

# Building multiple JIRA version supported plugins



- Why?

The screenshot shows a JIRA issue details page for ANGRY-41. The title of the issue is "I don't like the yellow sun". The issue is categorized as a Bug, has a priority of Critical, and is assigned to Unassigned. It was created on 03/Jun/11 at 12:33 AM and last updated on 17/Aug/11 at 8:21 AM. The issue has a Story Points value of 1 and is associated with the component Nerd Graphics. There are no comments or activity on this issue.

Issue Details (XML | Word | PDF)

Key: ANGRY-41  
Type: Story  
Status: Resolved  
Resolution: Fixed  
Priority: Major  
Assignee: Jens Melgaard  
Reporter: Jens Melgaard  
Votes: 0  
Watchers: 0

Available Workflow Actions

- Close Issue
- Reopen Issue

Operations

- Go to Planning Board
- Go to Task Board
- Assign this issue
- Attach file to this issue
- Attach screenshot to this issue
- Clone this issue
- Comment on this issue
- Create sub-task

Details

Type:	Bug	Status:	ToDo (View Workflow)
Priority:	Critical	Resolution:	Unresolved
Affects Version/s:	1.1	Fix Version/s:	None
Component/s:	Nerd Graphics		
Labels:	None		

Story Points: 1  
Browser: Chrome  
Rank: 6

People

Assignee: Unassigned  
Reporter: Edwin Wong  
Vote (0)  
Watch (0)

Dates

Created: 03/Jun/11 12:33 AM  
Updated: 17/Aug/11 8:21 AM

Issue Links

relates to ANGRY-40 As a nerd, I can flip in a chair while w... ↗ ⓘ

Activity

All Comments Work Log History Activity Test Sessions Builds

There are no comments yet on this issue.

Comment

# Building multiple JIRA version supported plugins



- Why?
- Problem points?

The screenshot shows a JIRA issue details page for ANGRY-41. The title is "I don't like the yellow sun". The issue is a Bug, critical priority, and affects version 1.1. It has a component Nerd Graphics and a story point of 1. The status is ToDo (View Workflow) and resolution is Unresolved. The assignee is Unassigned, reporter is Edwin Wong, and there are 0 votes and 0 watchers. The issue was created on 03/Jun/11 at 12:33 AM and updated on 17/Aug/11 at 8:21 AM. It is related to ANGRY-40. The activity tab shows no comments yet.

Issue Details (XML | Word | PDF)

Key: ANGRY-41  
Type: Story  
Status: Resolved  
Resolution: Fixed  
Priority: Major  
Assignee: Jens Melgaard  
Reporter: Jens Melgaard  
Votes: 0  
Watchers: 0

Available Workflow Actions

- Close Issue
- Reopen Issue

Operations

- Go to Planning Board
- Go to Task Board
- Assign this issue
- Attach file to this issue
- Attach screenshot to this issue
- Clone this issue
- Comment on this issue
- Create sub-task

Details

Type: Bug  
Priority: Critical  
Affects Version/s: 1.1  
Component/s: Nerd Graphics  
Labels: None

Status: ToDo (View Workflow)  
Resolution: Unresolved  
Fix Version/s: None

People

Assignee: Unassigned  
Reporter: Edwin Wong  
Vote (0)  
Watch (0)

Dates

Created: 03/Jun/11 12:33 AM  
Updated: 17/Aug/11 8:21 AM

Issue Links

relates to ANGRY-40 As a nerd, I can flip in a chair while w...

Activity

All Comments Work Log History Activity Test Sessions Builds

There are no comments yet on this issue.

Comment

# Building multiple JIRA version supported plugins



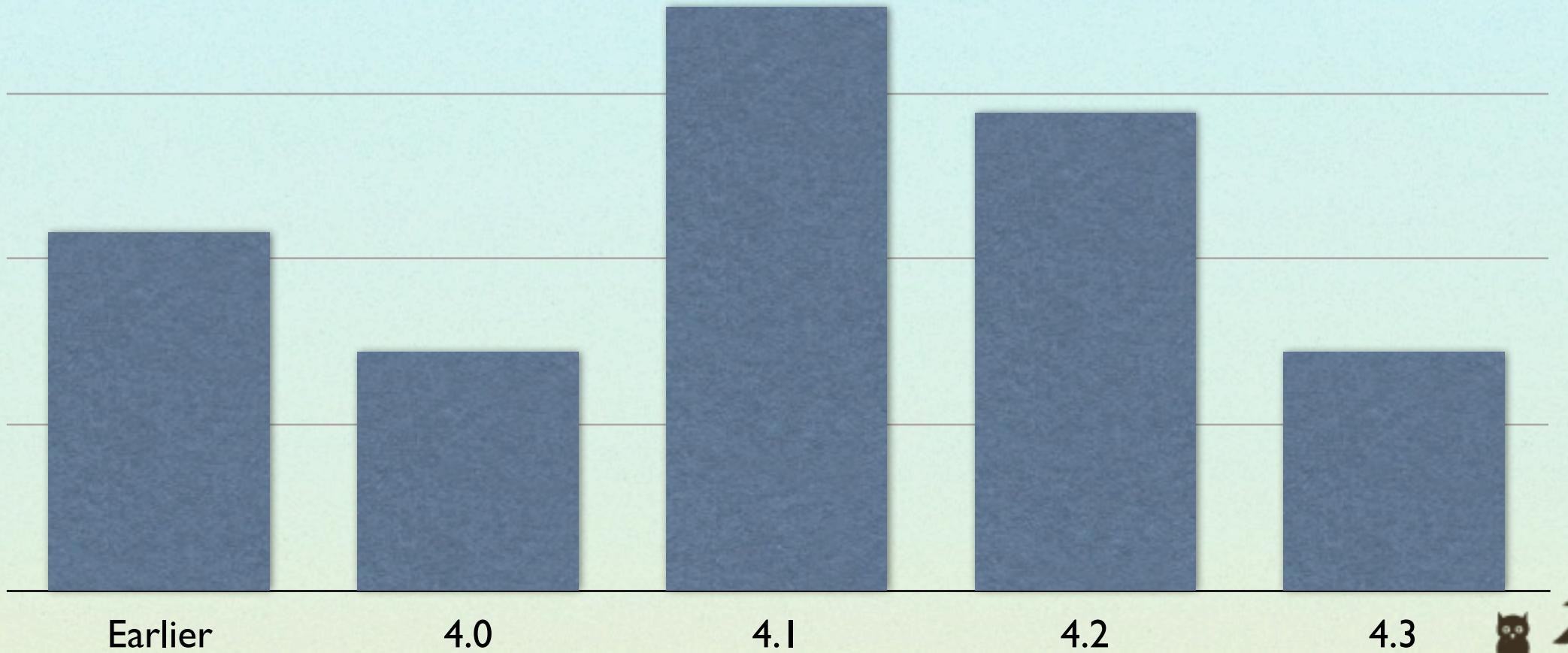
- Why?
- Problem points?
- Some Solutions.

The screenshot shows a JIRA issue details page for ANGRY-41. The title is "I don't like the yellow sun". The issue is a Bug, critical priority, and affects version 1.1. It has a component Nerd Graphics and a story point of 1. The status is ToDo (View Workflow) and resolution is Unresolved. The assignee is Unassigned, reporter is Edwin Wong, and there are 0 votes and 0 watchers. The issue was created on 03/Jun/11 at 12:33 AM and updated on 17/Aug/11 at 8:21 AM. A comment from Edwin Wong states: "relates to ANGRY-40 As a nerd, I can flip in a chair while w...". The activity section shows no comments yet. On the left, a sidebar lists available workflow actions: Close Issue, Reopen Issue, Go to Planning Board, Go to Task Board, Assign this issue, Attach file to this issue, Attach screenshot to this issue, Clone this issue, Comment on this issue, and Create sub-task.



# Maximise your customer base

- Increase the size of your market
- Should try and support two versions back.





# Multiple JIRA instances

- Deploy to multiple internal instances
- For example,  
<https://support.atlassian.com/>  
is 4.3, whereas  
<https://jira.atlassian.com/> is  
4.4.

# Be ready for upgrades

- Test against EAPs!
- Give feedback.
- Participate in API building
- Support JIRA 5.0 from launch



# Problems



# Problems

- Java API changes



# Problems

- Java API changes
- JS and Markup changes



# Problems

- Java API changes
- JS and Markup changes
- Testing across multiple versions



# Branching



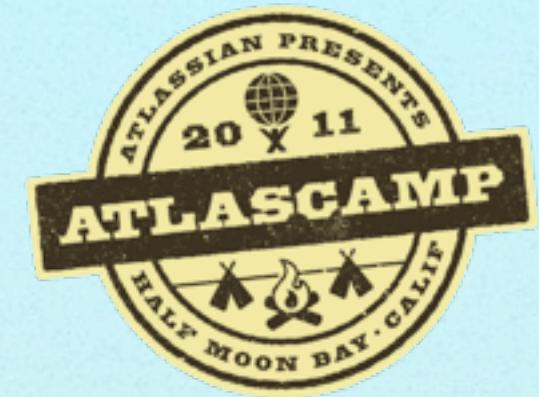
# Branching

- Cleaner code



# Branching

- Cleaner code
  - Is this good or bad?



# Branching

- Cleaner code
  - Is this good or bad?
- Overhead



# Branching

- Cleaner code
  - Is this good or bad?
- Overhead
  - Builds



# Branching

- Cleaner code
  - Is this good or bad?
- Overhead
  - Builds
  - Merging



# Branching

- Cleaner code
  - Is this good or bad?
- Overhead
  - Builds
  - Merging
  - Testing



# One build, multiple versions



# One build, multiple versions

- Messier code



# One build, multiple versions

- Messier code
- No merging



# One build, multiple versions

- Messier code
- No merging
- Shipping one jar



# One build, multiple versions

- Messier code
- No merging
- Shipping one jar
- All tests in one branch





# One build, multiple versions

- Messier code
- No merging
- Shipping one jar
- All tests in one branch
- Know when touching problem areas



# Six multi-version plugin techniques



# Six multi-version plugin techniques

## 1. CI using AMPS



# Six multi-version plugin techniques

1. CI using AMPS
2. Javascript / Markup changes - AJS.version



# Six multi-version plugin techniques



1. CI using AMPS
2. Javascript / Markup changes - AJS.version
3. Non-compile breaking API changes - BuildUtilsInfo

# Six multi-version plugin techniques



1. CI using AMPS
2. Javascript / Markup changes - AJS.version
3. Non-compile breaking API changes - BuildUtilsInfo
4. UI location changes - Web fragment conditions

# Six multi-version plugin techniques



1. CI using AMPS
2. Javascript / Markup changes - AJS.version
3. Non-compile breaking API changes - BuildUtilsInfo
4. UI location changes - Web fragment conditions
5. Compile breaking changes - Reflection

# Six multi-version plugin techniques



1. CI using AMPS
2. Javascript / Markup changes - AJS.version
3. Non-compile breaking API changes - BuildUtilsInfo
4. UI location changes - Web fragment conditions
5. Compile breaking changes - Reflection
6. Compile breaking changes - Dynamic module types



# Continuous Integration



- Run CI against all supported versions
  - Use testGroups in AMPS to facilitate this
  - Quickly identify compile-time issues introduced



```
<plugin>
  <groupId>com.atlassian.maven.plugins</groupId>
  <artifactId>maven-jira-plugin</artifactId>
  <configuration>
    <products>
      <product>
        <id>jira</id>
        <instanceId>jira43</instanceId>
        <version>${jira43.version}</version>
        <dataVersion>${jira43.data.version}</dataVersion>
        <libArtifacts>
          <libArtifact>
            <groupId>com.atlassian.jira.plugins</groupId>
            <artifactId>atlassian-jira-rpc-plugin</artifactId>
            <version>${jira43.version}</version>
          </libArtifact>
        </libArtifacts>
      </product>
      <product>
        <id>jira</id>
        <instanceId>jira44</instanceId>
        <version>${jira44.version}</version>
        <dataVersion>${jira44.data.version}</dataVersion>
        <libArtifacts>
          <libArtifact>
            <groupId>com.atlassian.jira.plugins</groupId>
            <artifactId>atlassian-jira-rpc-plugin</artifactId>
            <version>${jira44.version}</version>
          </libArtifact>
        </libArtifacts>
      </product>
    </products>
```



```
<testGroups>
  <testGroup>
    <id>bonfire-jira43</id>
    <productIds>
      <productId>jira43</productId>
    </productIds>
    <excludes>
      <excludes>**/AllTests.java</excludes>
    </excludes>
  </testGroup>
  <testGroup>
    <id>bonfire-jira44</id>
    <productIds>
      <productId>jira44</productId>
    </productIds>
    <excludes>
      <excludes>**/AllTests.java</excludes>
    </excludes>
  </testGroup>
</testGroups>
</configuration>
</plugin>
```

# JavaScript / Markup changes



- AJS.version to find AUI's version, split the code path
- <https://developer.atlassian.com/display/AUI/AUI+Version+Matrix>

Atlas https Twitt atlas iang The Rapic What supp aui j AUI Findi Atlas Dash System System

https://support.atlassian.com/secure/Dashboard.jspa

EAC CAC JAC SAC STAC WAC JDOG EACJ JBAC BEAC Google Apps Staff Contact List Other Bookmarks

Log In

ATLASSIAN SUPPORT

Dashboards

Tools

Introduction

Search:

All products All resources Search

Search across our product documentation, knowledgebase, forums and known issues to quickly answer your support needs.

Documentation:

JIRA | Confluence | Greenhopper | Bamboo | Crowd | Fisheye | Crucible | Clover

Atlassian's Support Knowledgebase

Login

Username

Password

Remember my login on this computer

Not a member? [Sign Up](#) for an account.

[Log In](#) Can't access your account?

Elements Resources Network Scripts Timeline Profiles Audits Console

Search Console

All Errors Warnings Logs

Security tokens will be refreshed com.atlassian.gadgets.dashboard:dashboard.js:6 every 720000ms

⚠ Resource interpreted as Image but transferred with MIME type text/html. ifr:-1

> [AJS.version](#)

"3.3.1"

>

Atlas https (1) T atlas iang The Rapic What supp aui j AUI Findi Atlas Dash System System

← → C https://jira.atlassian.com/secure/Dashboard.jspa ☆ 1P ⚙

EAC CAC JAC SAC STAC WAC JDOG EACJ JBAC BEAC Google Apps Staff Contact List » Other Bookmarks

**JIRA** Ian Grunert [Atlassian] | Administration Quick Search

Dashboards Projects Issues Agile + Create Issue

Tools

**Introduction**

Welcome to [jira.atlassian.com](https://jira.atlassian.com)  
This is a live demonstration of JIRA. This server houses a test project, and is also used by Atlassian to track the development of JIRA, Confluence and other Atlassian products.

- If you're **experimenting** with JIRA, check out the interactive tours in the JIRA Sandbox.
- If you have a **production problem**, question etc, please raise a private support issue on [support.atlassian.com](http://support.atlassian.com)
- If you have a **bug or feature request** to report, please perform a quick search for the issue. If it isn't found, then log in and create an issue in the appropriate project. Please see [How we choose what to implement](#).

For more information, see the JIRA [website](#) or [mailing list](#).

You can also run a search in all our online resources:  Go

Quick Links

My Unresolved Reported Issues | Votes | Watches  
Browse Projects | Search for Issues | Create Issue

Assigned to Me

T	Key	Summary	P
✓	POW-104	Test issue for JIRA 4.4.1	▼

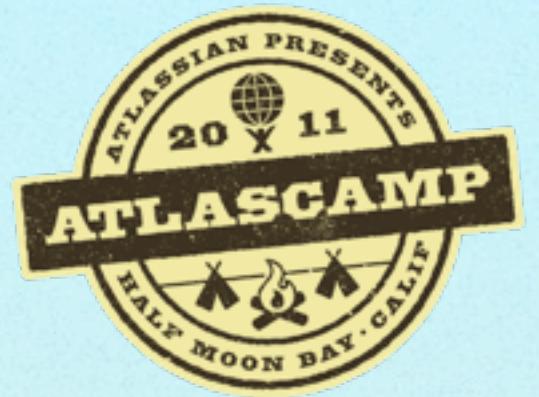
Elements Resources Network Scripts Timeline Profiles Audits Console Search Console

div#main [1085x0]arnings Logs

Security tokens will be refreshed com.atlassian.gadgets.dashboard:dashboard.js:6 every 720000ms

> [AJS.version](#)  
"3.4.2"

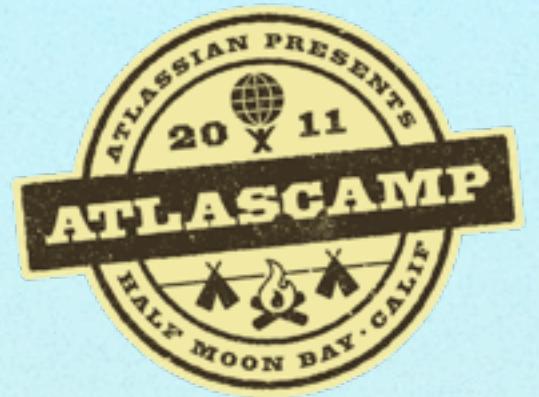
>



# Querying JIRA version

- BuildUtilsInfo in JIRA can be used to find the JIRA version and split the code path

```
if (jiraBuildUtilsInfo.getVersion().startsWith("4.3"))
{
    // 4.3 specific code goes here
}
else
{
    // 4.4+ code goes here
}
```



# Web-fragment Conditions

- Allows you to define a boolean condition as to whether or not a web-fragment shows up
  - IsPriorToJIRAVersion condition to only show web fragments in certain JIRA versions (uses BuildUtilsInfo)



# Example

```
<web-section key="bonfire-admin-old" location="system.admin" weight="105">
    <label key="Bonfire"/>
    <condition class="com.atlassian.bonfire.conditions.IsPriorToJiraVersion">
        <param name="majorVersion">4</param>
        <param name="minorVersion">4</param>
    </condition>
</web-section>
```

# Compile breaking changes - Reflection



- Use this:
  - To load a class only present in later versions of JIRA
  - To load a class that changes names across JIRA versions



# Example

```
private DateTimeZone loggedInUserTimeZone() throws ClassNotFoundException,
                                                NoSuchMethodException,
                                                InvocationTargetException,
                                                IllegalAccessException
{
    Class timeZoneManager = ClassLoaderUtils.loadClass("com.atlassian.jira.timezone.TimeZoneManager",
                                                       this.getClass());
    Object timeZoneManagerObject = ComponentManager.getComponent(timeZoneManager);

    Method getLoggedInUserTimeZone = timeZoneManager.getMethod("getLoggedInUserTimeZone");

    Object userTimeZone = getLoggedInUserTimeZone.invoke(timeZoneManagerObject);

    return DateTimeZone.forTimeZone((TimeZone) userTimeZone);
}
```

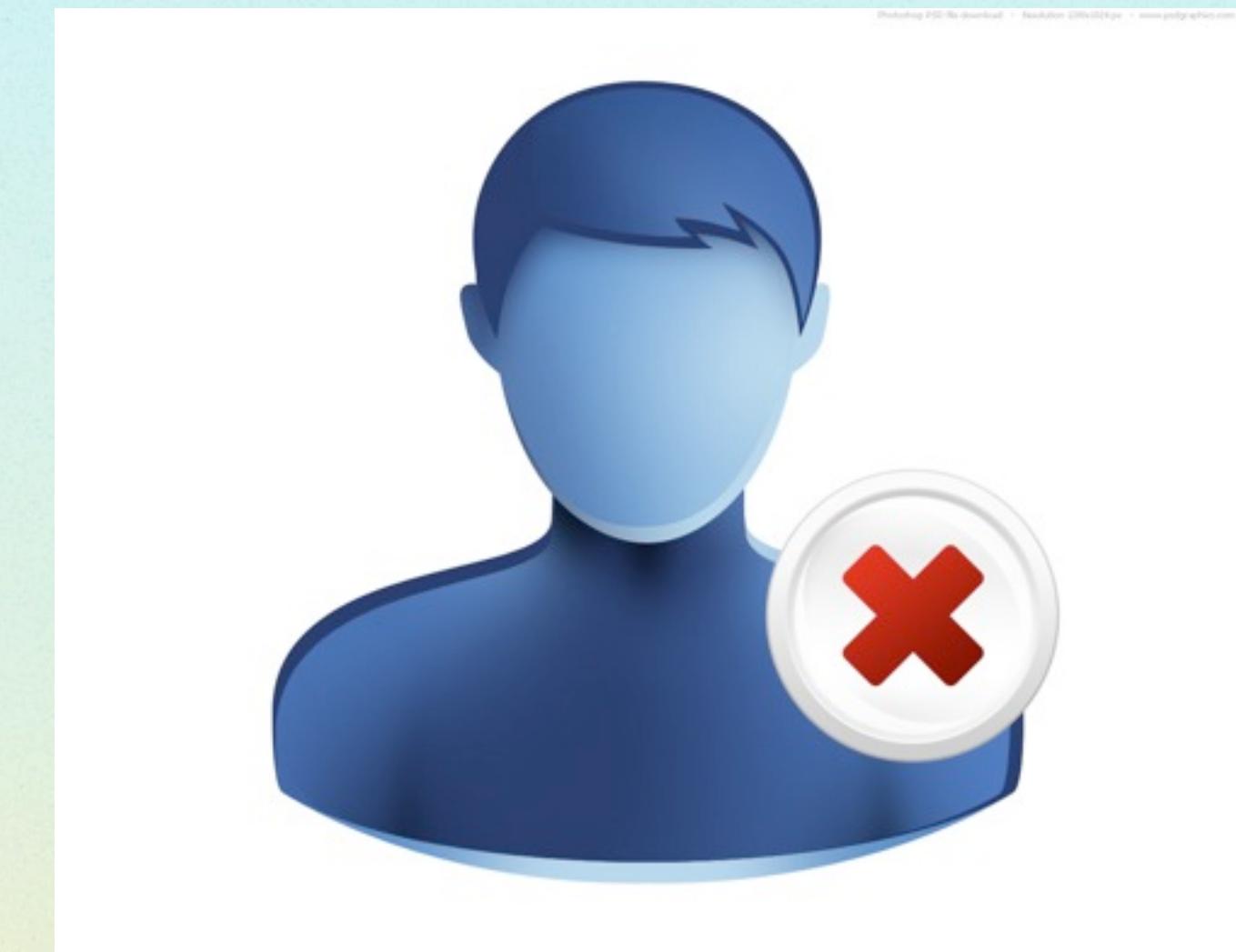


# Example

```
public DateTimeZone getLoggedInUserTimeZone()
{
    // Shortcut to avoid trying to load it pre 4.4?
    // Try and load the TimeZoneManager
    try
    {
        return loggedInUserTimeZone();
    } catch (ClassNotFoundException e) {
        // If we can't find the class, its pre-4.4
        return DateTimeZone.getDefault();
    } catch (NoSuchMethodException e) {
        // If we can't find the method, its pre-4.4
        return DateTimeZone.getDefault();
    } catch (InvocationTargetException e) {
        // If we can't find the method, its pre-4.4
        return DateTimeZone.getDefault();
    } catch (IllegalAccessException e) {
        // If we can't find the method, its pre-4.4
        return DateTimeZone.getDefault();
    }
}
```

# How does this look in JIRA 5?

- JIRA 5.0 removes OSUser entirely
- Replaced with Crowd user
- Large scale compile time breaking changes





# We tried branching

- Approach taken by Bonfire was to drop 4.2 support, and remove as much OSUser as possible
  - Some instances of OSUser couldn't be removed (IssueTabPanel for example)
- Then create a branch, and change the imports for the branch



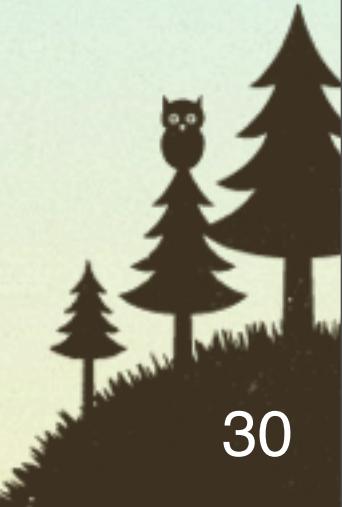
# Deprecation pains

- In JIRA 4.3 / 4.4, use special methods to get crowd user object
  - `jiraAuthContext.getUser` for OSUser
  - `jiraAuthContext.getLoggedInUser()` for Crowd User
- OSUser based methods are deprecated in 4.3 / 4.4



# Deprecation pains

- In JIRA 5.0, the better 4.3/4.4 Crowd user methods are now deprecated (moved to nicer named methods)
  - Doing the right thing yields lots of warnings





# Branching sucks!

- For the same reasons outlined before
- No eyes on JIRA 5.0 changes
- Merge pain
- Multiple jars
- How can we fix this?



# Dynamic module types

- Don Brown created jira4-compat to allow Speakeasy to support 4.2 -> 5.0 without branching
- Uses dynamic plugin module types to allow for new, cross version compatible module types
- 4 maven modules, compile different maven modules based on JIRA version
- FactoryBean Spring Component to inject the correct dependency



# Bonfire multi-version experiences - takeaways



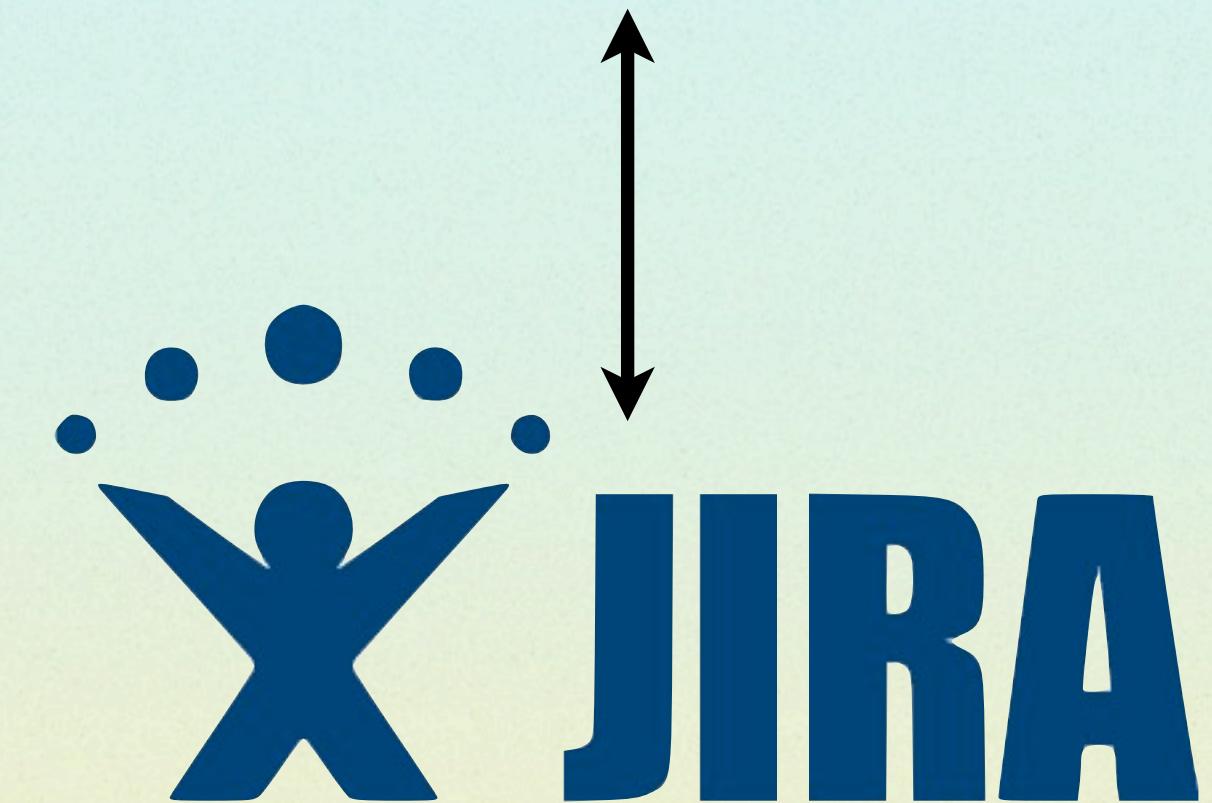
1. Multi-version support - you should be doing it!
2. Don't have to branch to do multi-version.
3. The documentation can help!

<http://confluence.atlassian.com/display/JIRA/Plugin+Developer+Notes+for+JIRA+5.0>

# Bonfire remote JIRA integration



 **BONFIRE**

 **JIRA**

A double-headed vertical arrow connects the Bonfire and JIRA logos, indicating a bidirectional integration.

# Bonfire remote JIRA integration



The screenshot illustrates the integration between Bonfire and JIRA. On the left, a Bonfire session titled "Test the game mechanics" is being created. It includes fields for Summary, Description, Labels, and Project & Issue Type (set to "Angry Nerd (ANGRY)", "Bug", and "Blocker"). A screenshot of the Wikipedia homepage is attached to the session. On the right, the JIRA issue ANGRY-40 is shown, which was created during the session. The issue details include the summary "As a nerd, I can flip in a chair while waiting to be shot into the air", the reporter "Edwin Wong", and activity logs from 03/06/11 at 12:25PM, 12:27PM, and 12:28PM. The issue is marked as "Completed".

# Bonfire remote JIRA integration

## 1. Authentication

The image shows a Mac OS X desktop with three browser windows open:

- Left Window:** A Bonfire interface window titled "Bonfire". It displays a screenshot of a Wikipedia page about "Angry Nerd". The Bonfire interface includes fields for "Summary...", "Description...", "Labels...", and a "Project & Issue Type" section where "Project" is set to "Angry Nerd (ANGRY)", "Issue Type" is "Bug", and "Priority" is "Blocker". A "Create Issue" button is at the bottom.
- Middle Window:** A Wikipedia "Welcome to Wikipedia" page. The URL in the address bar is "jira.atlassian.com/browser/bonfire".
- Right Window:** A JIRA issue view for "ANGRY-40". The issue title is "Test the game mechanics". The status is "Completed". Summary statistics show 2 issues raised, 2 hours spent, and 1 participant. The activity log shows:
  - Edwin Wong created the issue at 03/06/11 12:25PM.
  - Edwin Wong started working on it at 03/06/11 12:27PM.
  - A comment was added at 03/06/11 12:28PM: "ANGRY-54 - The nerd is flying through the air too quickly. It should go slower."
  - A comment was added at 03/06/11 12:28PM: "ANGRY-55 - The bugs are too cute to be shot. Nerds are the evil ones."
  - An attached file named "ANGRY-55 - The bugs are too cute to be shot. Nerds are the evil ones." was uploaded.





# Bonfire remote JIRA integration

1. Authentication
2. Issue metadata

The screenshot illustrates the Bonfire remote JIRA integration. On the left, a window titled 'Bonfire' shows a session titled 'Screenshot Attached' with a thumbnail of a Wikipedia page. On the right, a JIRA interface displays a test session named 'Test the game mechanics'. The session status is 'Completed' with a count of 1 participant. The summary shows 2 issues raised and 2 hours spent. The activity log lists three events: 'CREATED' by Edwin Wong at 03/06/11 12:25PM, 'STARTED' at 03/06/11 12:27PM, and a comment from ANGRY-54 at 03/06/11 12:28PM stating: 'ANGRY-54 - The nerd is flying through the air too quickly. It should go slower.' A screenshot of the game Angry Birds is attached to this comment.

# Bonfire remote JIRA integration

1. Authentication
2. Issue metadata
3. Issue Creation

The image displays three browser windows illustrating the Bonfire remote JIRA integration:

- Top Window:** Shows the Bonfire interface with a session titled "Test the game mechanics". The session status is "Completed". Summary statistics: 2 issue(s) Raised, 2h Time Spent, 1 Participant(s). Activity log shows Edwin Wong creating and starting the session, and another user commenting on ANGRY-54.
- Middle Window:** A Wikipedia page for "Welcome to Wikipedia, the free encyclopedia that anyone can edit".
- Bottom Window:** A Jira issue page for ANGRY-54. The issue details: "The nerd is flying through the air too quickly. It should go slower." Attached file: "ANGRY-54 - The nerd is flying through the air too quickly. It should go slower.". Comment: "The bugs are too cute to be shot. Nerds are the evil ones." Attached file: "ANGRY-55 - The bugs are too cute to be shot. Nerds are the evil ones." (Thumbnail shows a screenshot of a game).



# Authentication



- Can't store the password
- Ideally, single step authentication

Key	Value
com.atlassian.bonfire.sessionvalue	"9A46581A2A069A1E237C0DCD844D7378"
com.atlassian.bonfire.userlist	[{"id": 1, "name": "John Doe", "email": "john.doe@example.com", "isAssignable": true, "isChangeable": true, "isDeletable": true, "isEditable": true, "isSelectable": true}, {"id": 2, "name": "Jane Doe", "email": "jane.doe@example.com", "isAssignable": true, "isChangeable": true, "isDeletable": true, "isEditable": true, "isSelectable": true}], {"name": "UserList", "value": "1,2"}]
com.atlassian.bonfire.variables	{"array": []}
com.atlassian.bonfire.templates	["http://www.jetbrains.com/idea/webhelp/appearance.html"]
com.atlassian.bonfire.originalUrl	"http://www.jetbrains.com/idea/webhelp/appearance.html"
com.atlassian.bonfire.sessionname	"JSESSIONID"
com.atlassian.bonfire.activated	true
com.atlassian.bonfire.propertyserver	{"url": "http://localhost:8082/branch", "username": "admin", "password": ""}

**password isn't stored**

# Authentication

- Use JIRA REST
- Returns a cookie
- Use cookie for all future requests
- Re-authenticate on cookie timeout



# Issue metadata

- Need metadata to draw the issue creation form
- XML-RPC
  - Missing fields
  - Could not create on some instances

▼ Project & Issue Type

Project	Angry Nerds (ANERDS)
Issue Type	Bug
Priority	Minor

▼ Issue Fields

Assignee	Unassigned
Environment	
Fix Version/s	<ul style="list-style-type: none"><li>1.0</li><li>1.0.3</li><li>1.0.2</li><li>1.0.1</li></ul>
Affects	<ul style="list-style-type: none"><li>1.0.1</li><li>1.0</li><li>1.0.3</li><li>1.0.2</li></ul>
Component/s	<ul style="list-style-type: none"><li>Backend</li><li>Images</li><li>Motion Engine</li><li>UI</li></ul>
Original Estim...	
Remaining Es...	
Security Level	None

**Create Issue**



# Issue metadata

- Now on custom REST
- Bad: extra code
- Good: In control, works on all instances, can add new Bonfire specific features

▼ Project & Issue Type

Project	Angry Nerds (ANERDS)
Issue Type	Bug
Priority	Minor

▼ Issue Fields

Assignee	Unassigned
Environment	
Fix Version/s	1.0 1.0.3 1.0.2 1.0.1
Affects	1.0.1 1.0 1.0.3 1.0.2
Component/s	Backend Images Motion Engine UI
Original Estim...	
Remaining Es...	
Security Level	None

**Create Issue**



# Issue creation

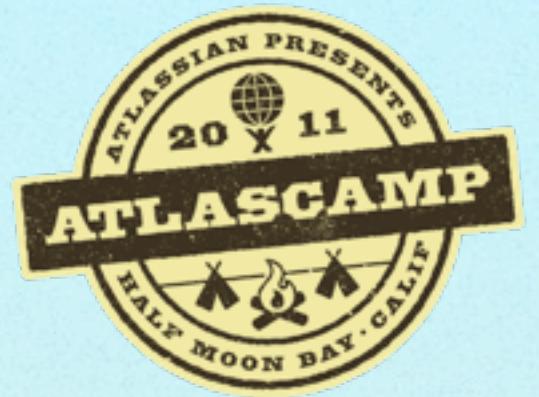
- XML-RPC
- Gaps filled with REST  
(e.g. labels)
- SOAP for attachments



# Issue creation

- Now on custom REST
- Bad: extra code
- Good: In control, works on all instances, can add new Bonfire specific features
- Déjà vu?





# Good news, everyone!

- In JIRA 5.0, neither custom REST resource would be required



# Bonfire Remote API experiences - takeaways



1. Test on real / complex data!  
(use [atlas-create-home-zip](#))
2. Favour REST
3. Don't fear custom REST resources



*Thank you!*

