

OpenSocial in the Enterprise

Tim Moore
Atlassian Developer



Atlassian

8 products • 15,000 customers • 113 countries

Collaboration Tools



Confluence

Largest enterprise wiki

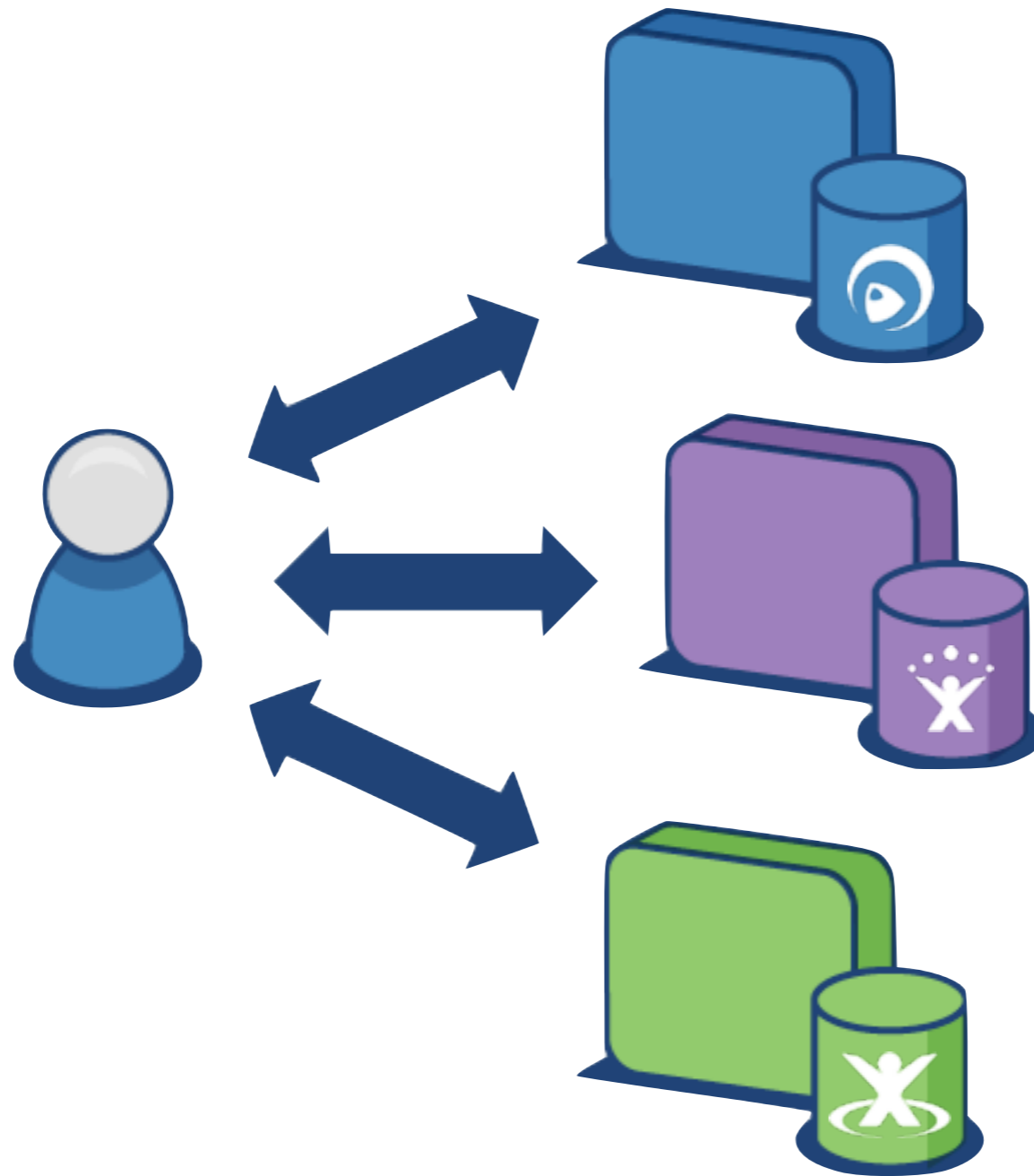
Development Tools



JIRA

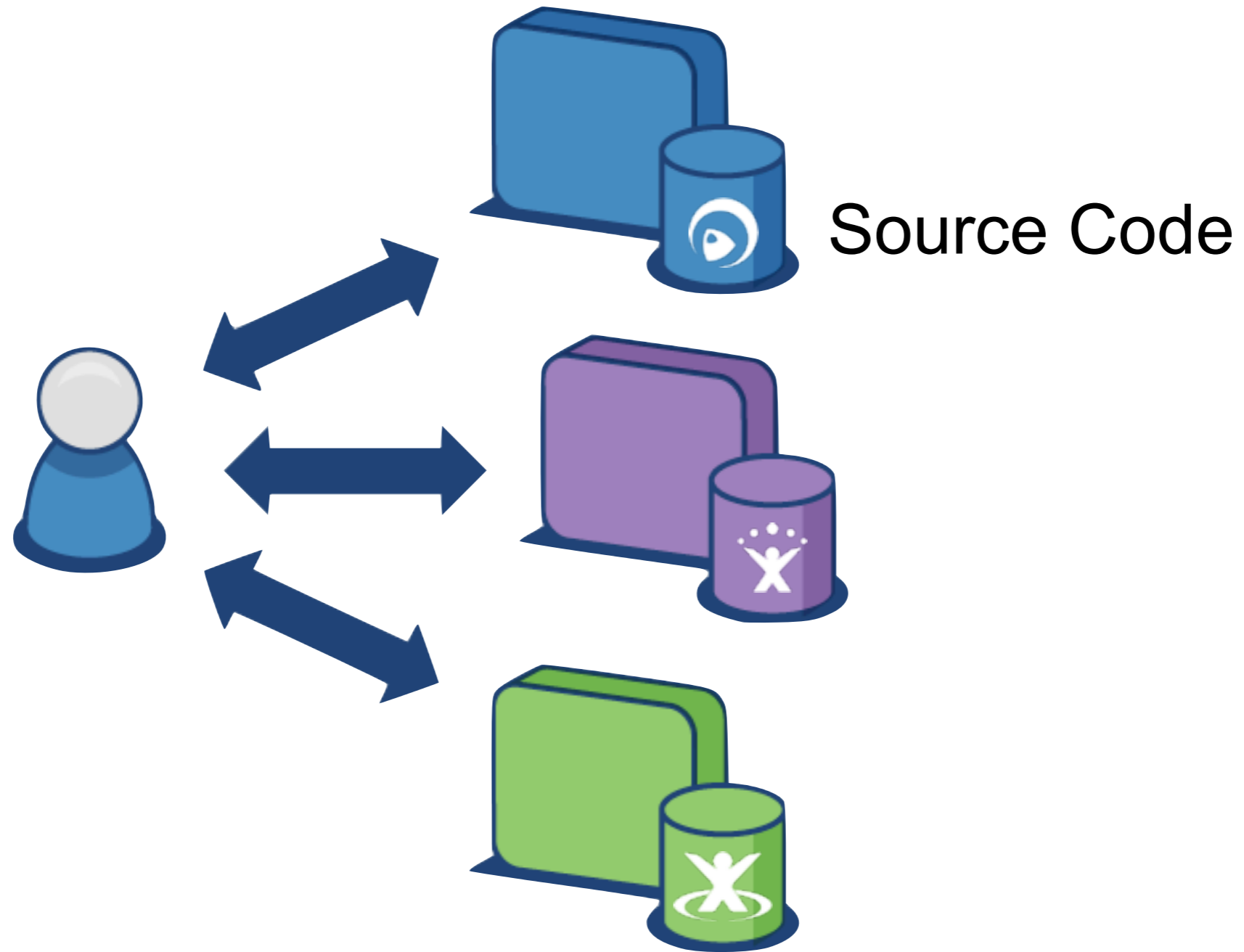
FishEye, Crucible, Bamboo,
Clover, IDE Connectors

Our Problem



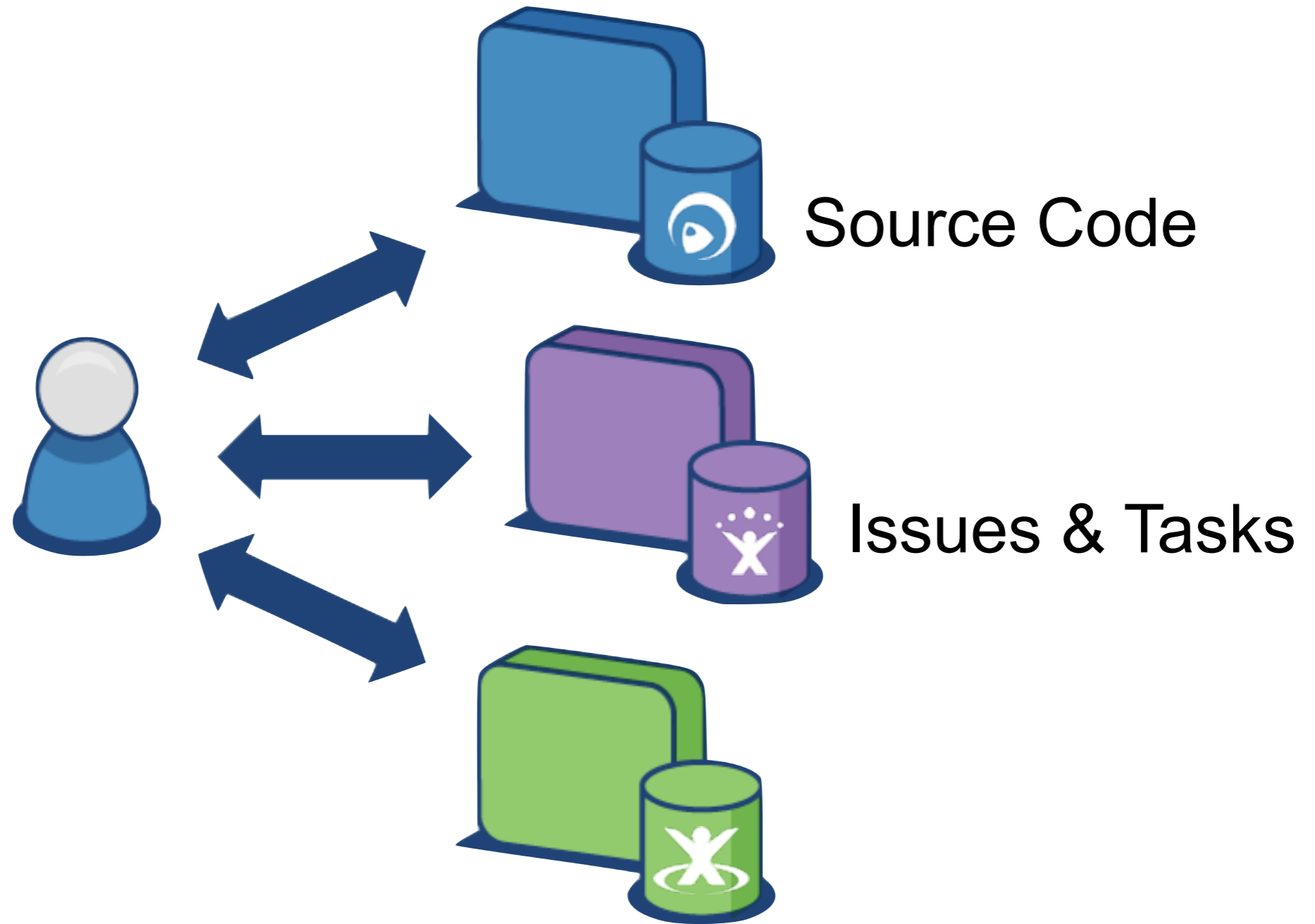
Today

Enterprise apps are silos



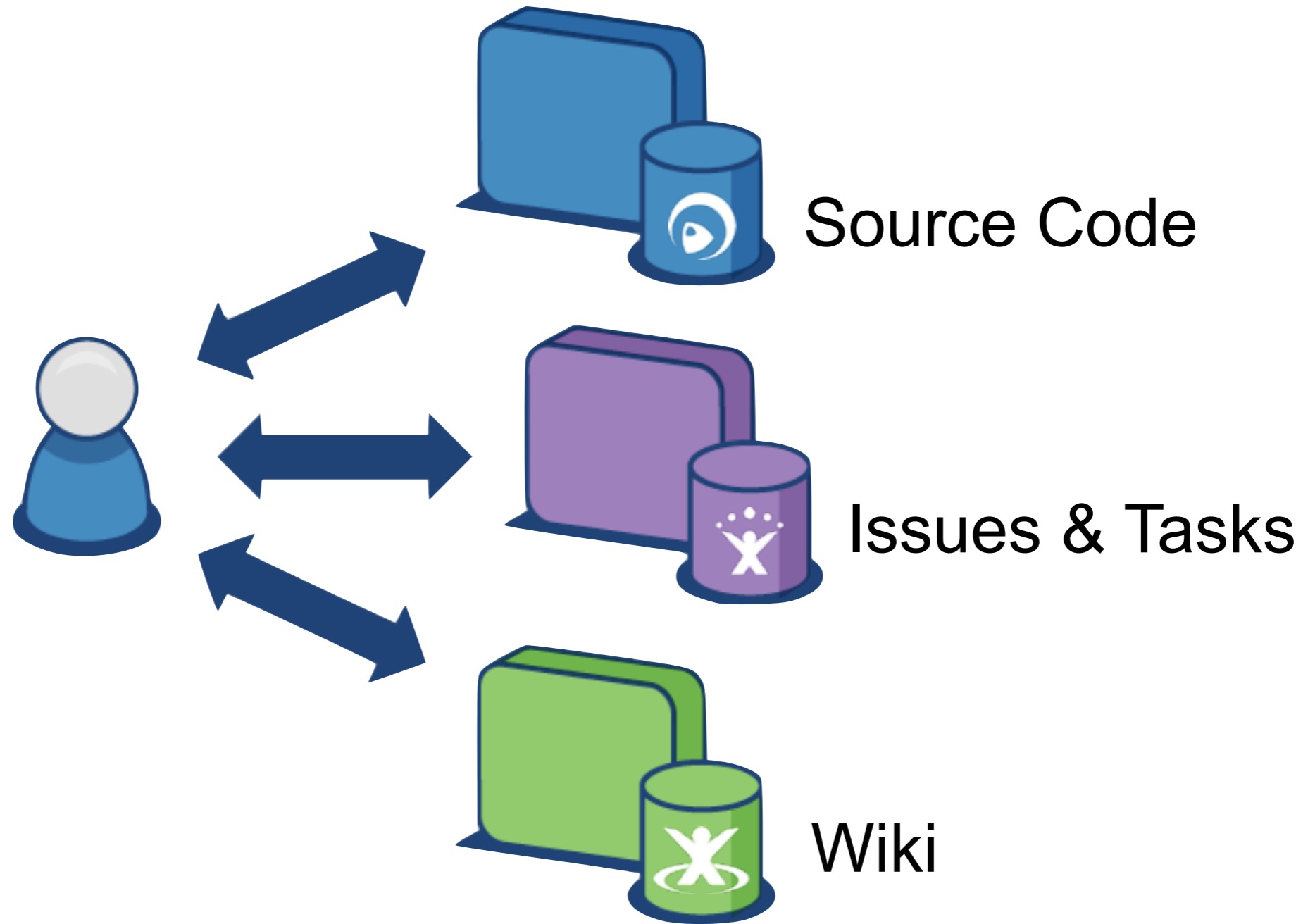
Today

Enterprise apps are silos



Today

Enterprise apps are silos



Today

Enterprise apps are silos

Too Many Dashboards

Too Many Dashboards



Create Issue

atlassian-seraph
Bug

Summary

Create

Crucible - Recent Reviews

To Review Out for Review

CR-2 Tim's Test Review

Create Issue

Bamboo Plans

✓ **Demon - Main - 92**   

Ran: 8 hours ago | Manual build by [Mark Halvorson](#) | Duration: 6 seconds



✓ **Seraph-Public - Trunk - 24**   

Ran: 5 days ago | Manual build by [Administrator Guy](#) | Duration: 11 seconds









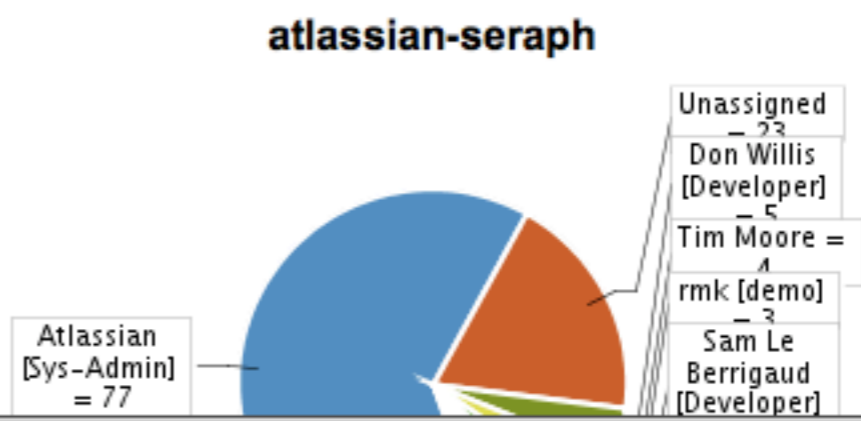
JQL Query

Activity Stream

Confluence Network Updates

- What are you working on?
-  blit testing summit demos
test test at 5:05pm yesterday · reply
 -  @ @don hi
Administrator Guy at 12:07am May 22 · delete
 -  testing in gmail.
Administrator Guy at 11:56pm May 21 · delete
 -  Getting ready for Google I/o and then Atlassian Summit!
Jonathan Nolen at 6:09pm May 21 · reply

Issues: Pie Chart



Create Issue

atlassian-seraph
Bug

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Create

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Issues: Pie Chart

atlassian-seraph



Integration with Non-Atlassian apps

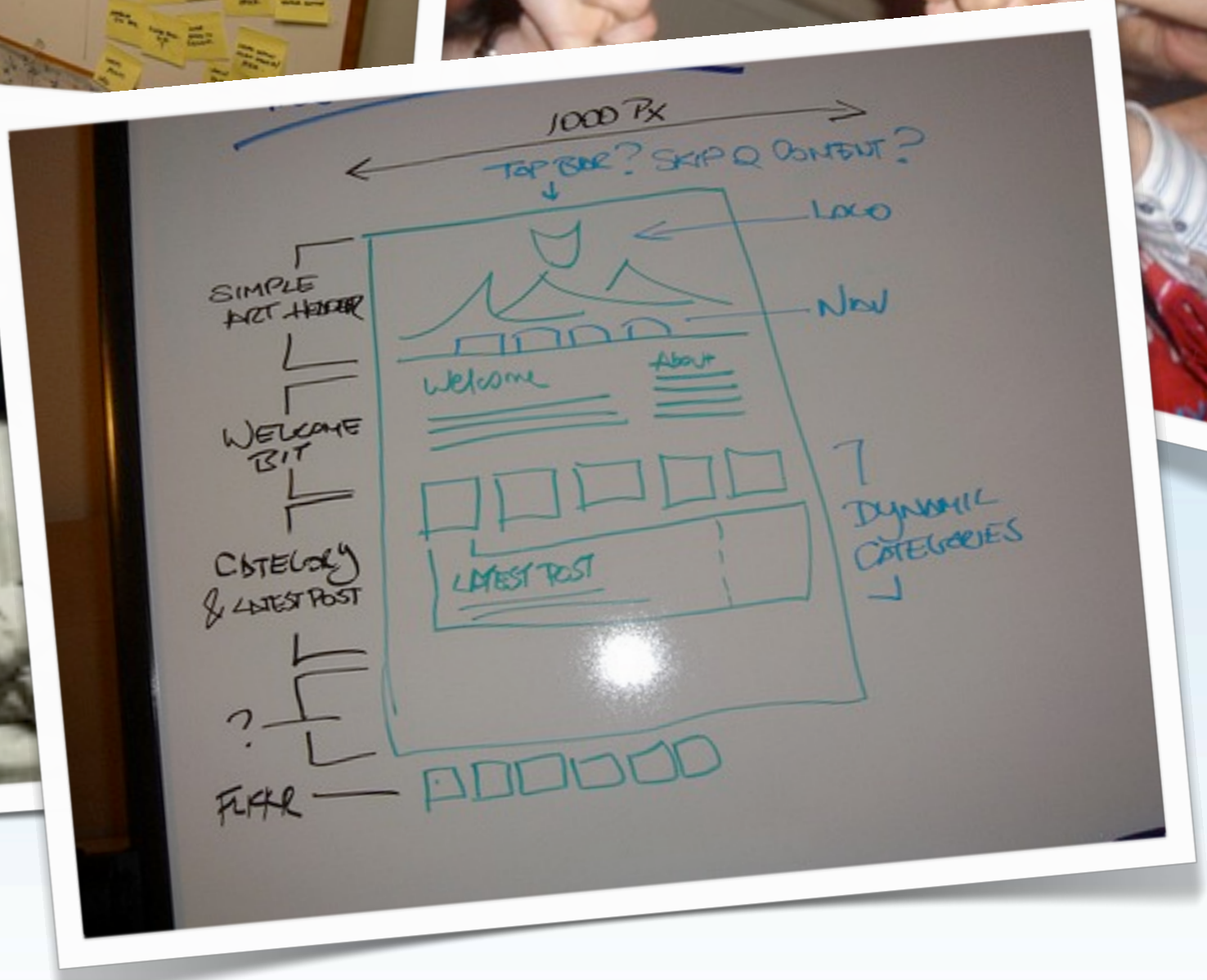
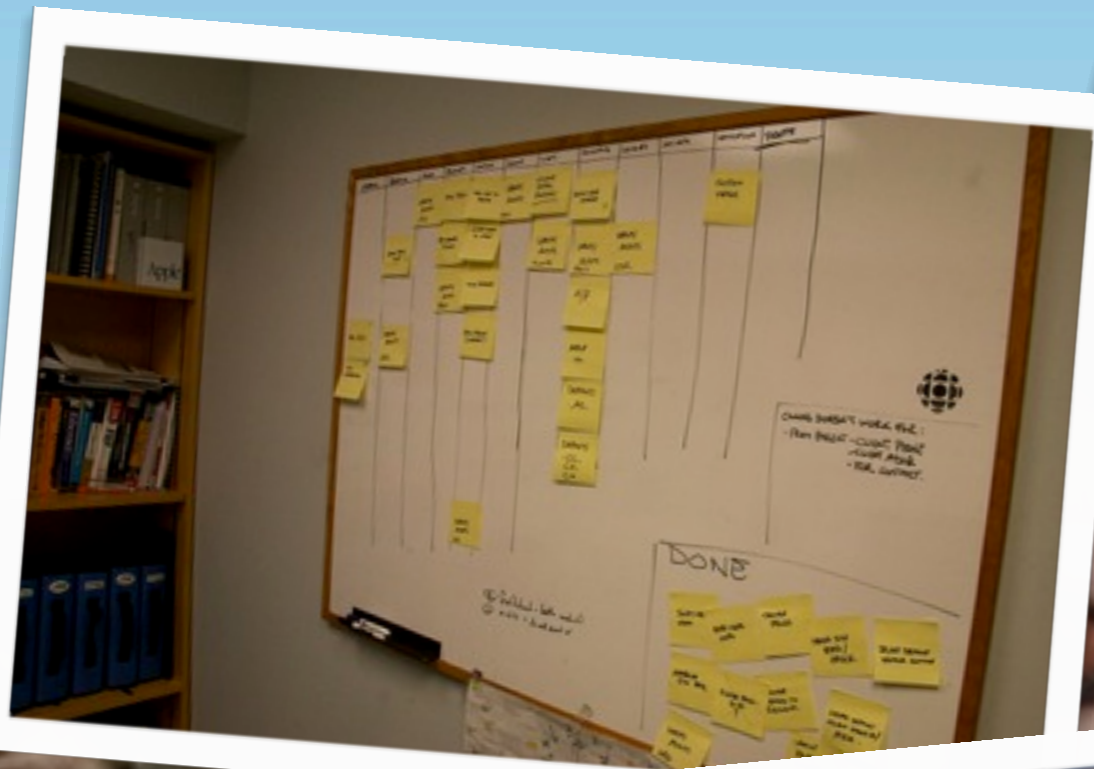


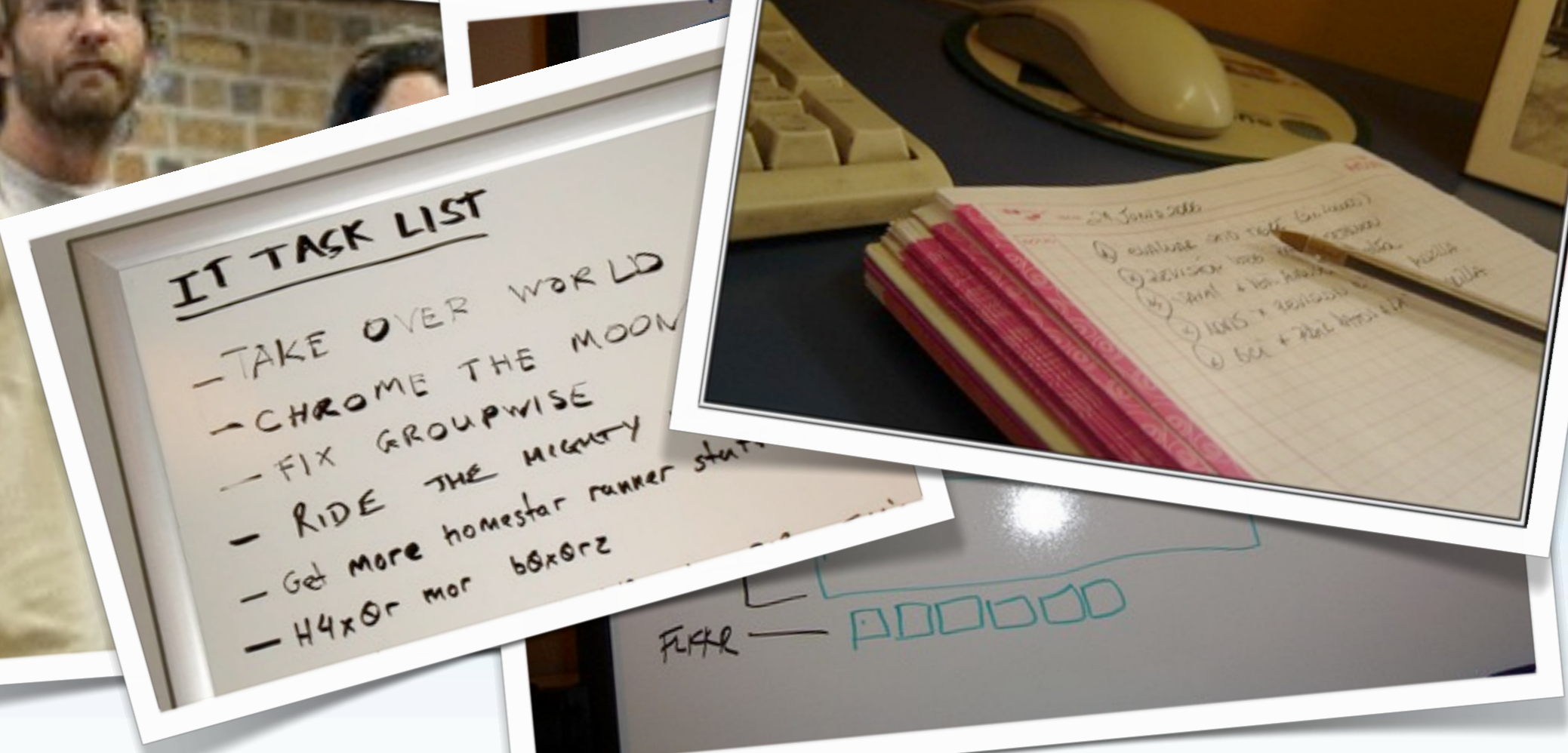
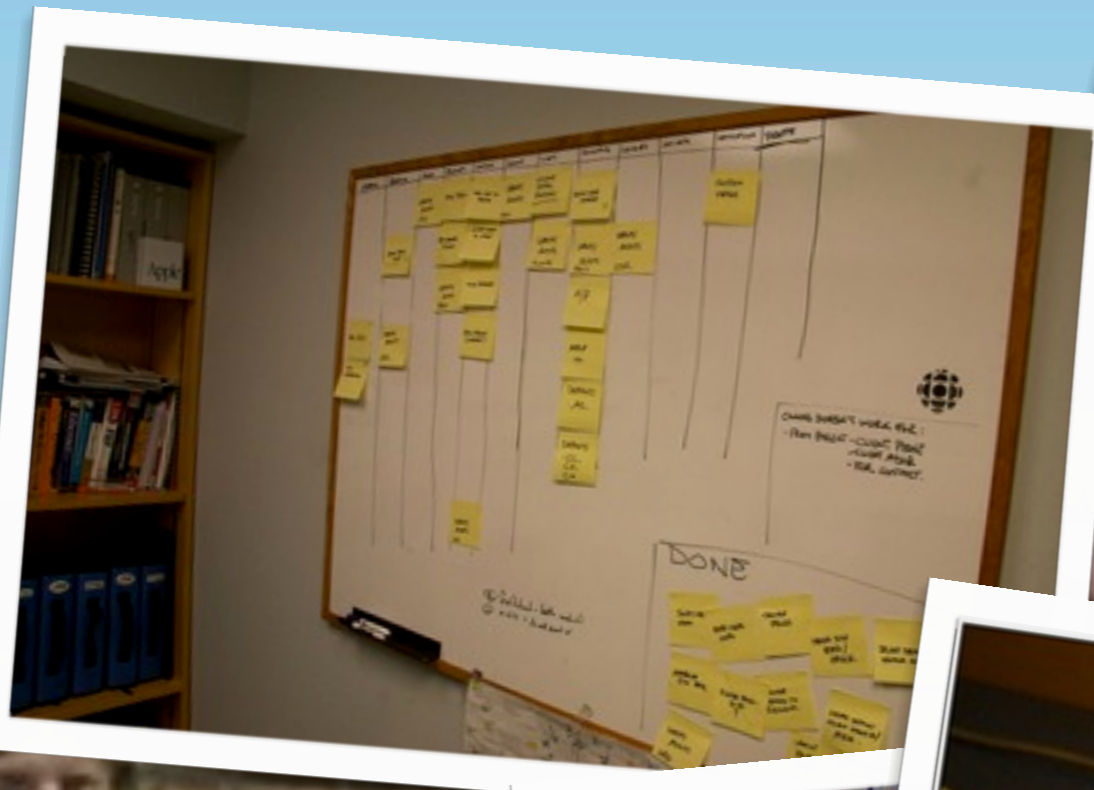
N:M Versions Problem

Download and Requirements Table

JIRA Version	Plugin Version	Download	FishEye Version
4.0.x	3.0	Download	1.6.6+
3.13.x	2.5	Download	1.6.6+
3.13.x	2.4	Download	1.5+
3.13.x	2.3	Download	1.5+
3.13+	2.2	Download	1.5+
3.12.2+	2.1	Download	1.5+
3.12.2+	2.0	Download	1.5+
3.12.2+	1.5	Download	1.4.2+
3.12.2+	1.4	Download	1.4.2+
3.12+	1.3	Download	1.4.2+
3.10.1+	1.3-backport-JIRA-3.10.1	Download	1.4.2+
3.8.1+	1.1.2	Download	1.2+
3.7-3.8	1.0	Download	1.2+
3.6.x	0.8	Download	1.1+





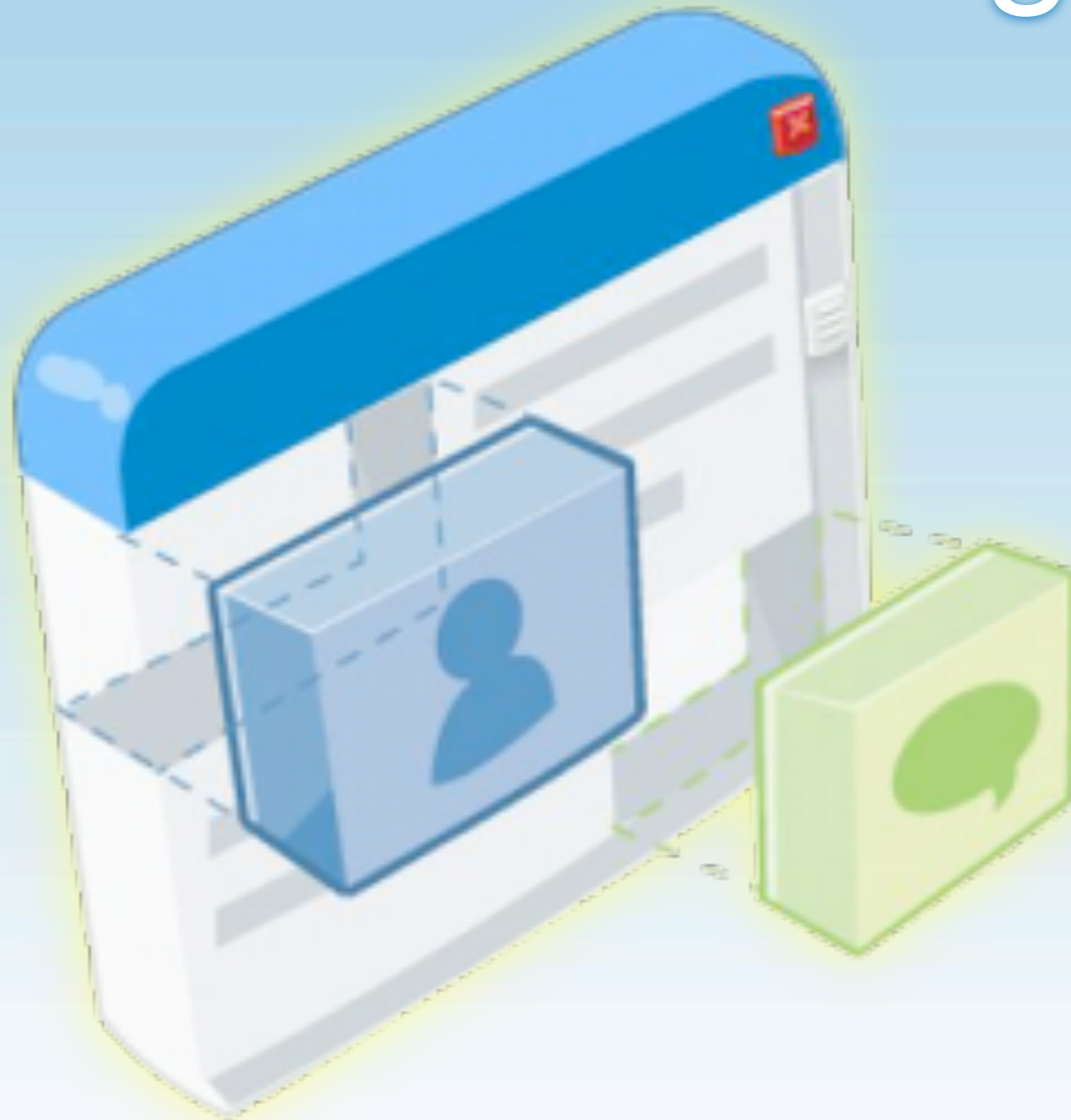


IT TASK LIST

- TAKE OVER WORLD
- CHROME THE MOON
- FIX GROUPWISE
- RIDE THE MIGHTY
- Get more homestar runner stuff
- H4x0r mor b0x0rz

FLKR — A□□□□□□□

Solution: OpenSocial Gadgets



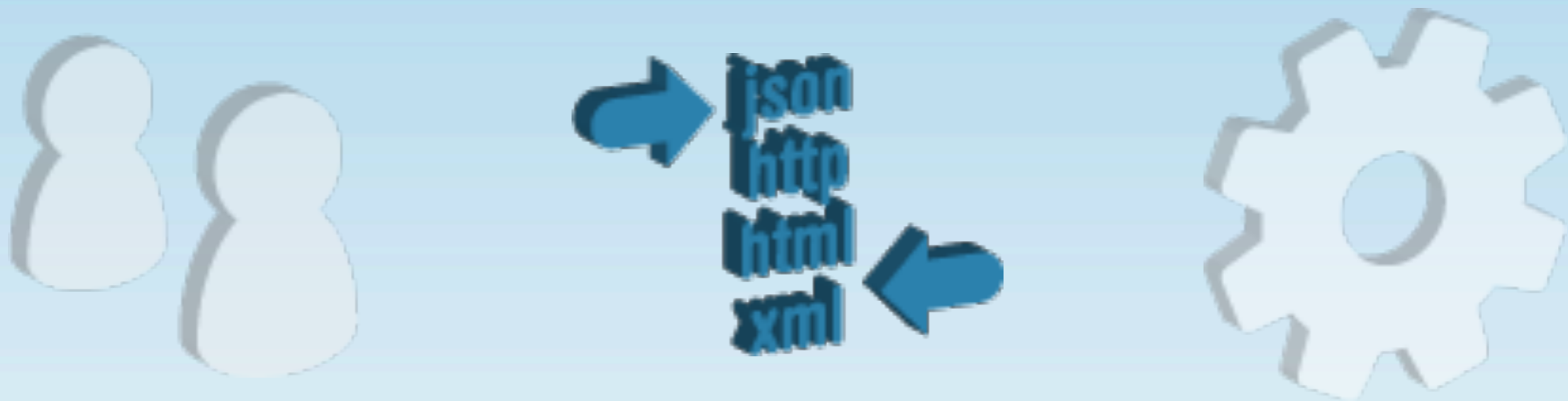
What is OpenSocial?



Social Data Model



Web Service APIs



Gadgets





Google Search I'm Feeling Lucky

Advanced Search Search Preferences Language Tools

Change theme from Classic | Add stuff »

- + Home
- + Recomme...
- + Develop...
- + Testing
- + Chat
 - Search, add, or invite
 - Tim Moore
 - Sign into chat

Weather

San Francisco, CA

52°F Current: Partly Cloudy
Wind: NW at 14 mph
Humidity: 81%

Mon 61° | 49° Tue 70° | 52° Wed 67° | 52° Thu 70° | 52°

Washington D.C., DC

71°F Current: Overcast
Wind: NE at 4 mph
Humidity: 92%

Mon 81° | 63° Tue 68° | 59° Wed 74° | 67° Thu 79° | 67°

Top Stories

[US military: No doubt of North Korea nuclear test](#)
Los Angeles Times - [all 5627 related »](#)

[Police: Mike Tyson's daughter on life support](#)
The Associated Press - [all 544 related »](#)

[President lays wreath at Tomb of Unknowns](#)
The Associated Press - [all 999 related »](#)

[Explosion Rocks a Starbucks on the Upper East Side](#)
New York Times - [all 547 related »](#)

[Vienna clashes spark India riots](#)
Aljazeera.net - [all 1173 related »](#)

[Cyclone claims 2 lives in Kolkata](#)
Indian Express - [all 249 related »](#)

[Sri Lanka to add soldiers to prevent Tiger return](#)
The Associated Press - [all 2089 related »](#)

[More Than One Way to Diversify the Supreme Court](#)
Washington Post - [all 1434 related »](#)

[Man, police officer hurt saving 2 from train crash](#)
The Associated Press - [all 602 related »](#)

Google Reader (22)

All items (22) [refresh all as read](#)

- Welcome to the iTunes App Store! from [Call Me Fishmeal](#).
- Our soon-to-be outdated beliefs from [kottke.org](#)
- They're calling you stupid from [Some Guy With a Website](#) by
- Belgian city to 'go veggie' one day a from [BBC News | News Front Page](#) |
- Twitter Co-Founder Seeks Veggie from [Vegan.com Blog](#)

Google Calendar

« **May 2009** »

S	M	T	W	T	F	S
26	27	28	29	30	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Gadget Benefits

Gadget Benefits

- Easy!

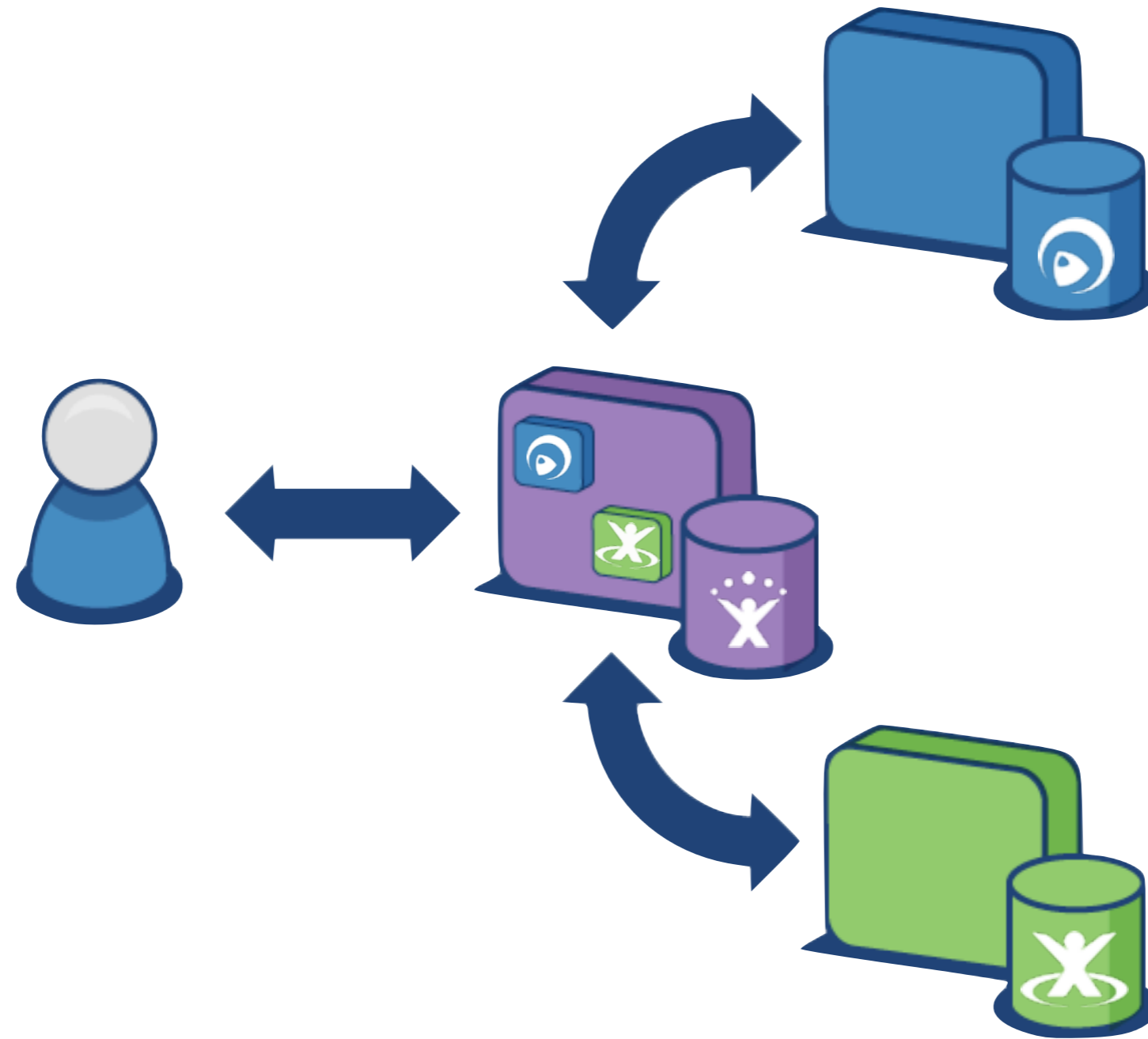
Gadget Benefits

- Easy!
- Safe

Gadget Benefits

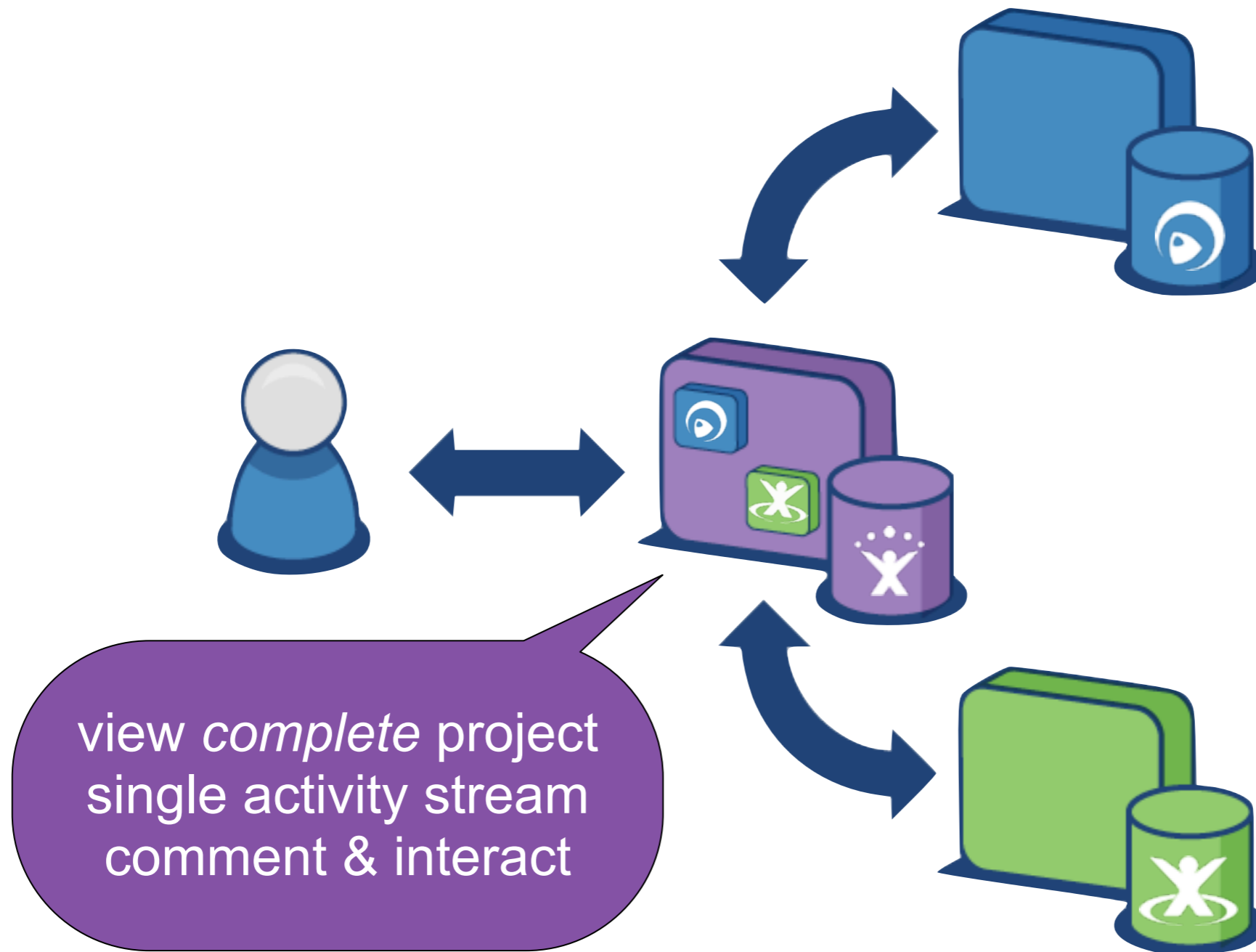
- Easy!
- Safe
- Write Once, Display Everywhere

Gadgets are a Great Solution for Dashboards



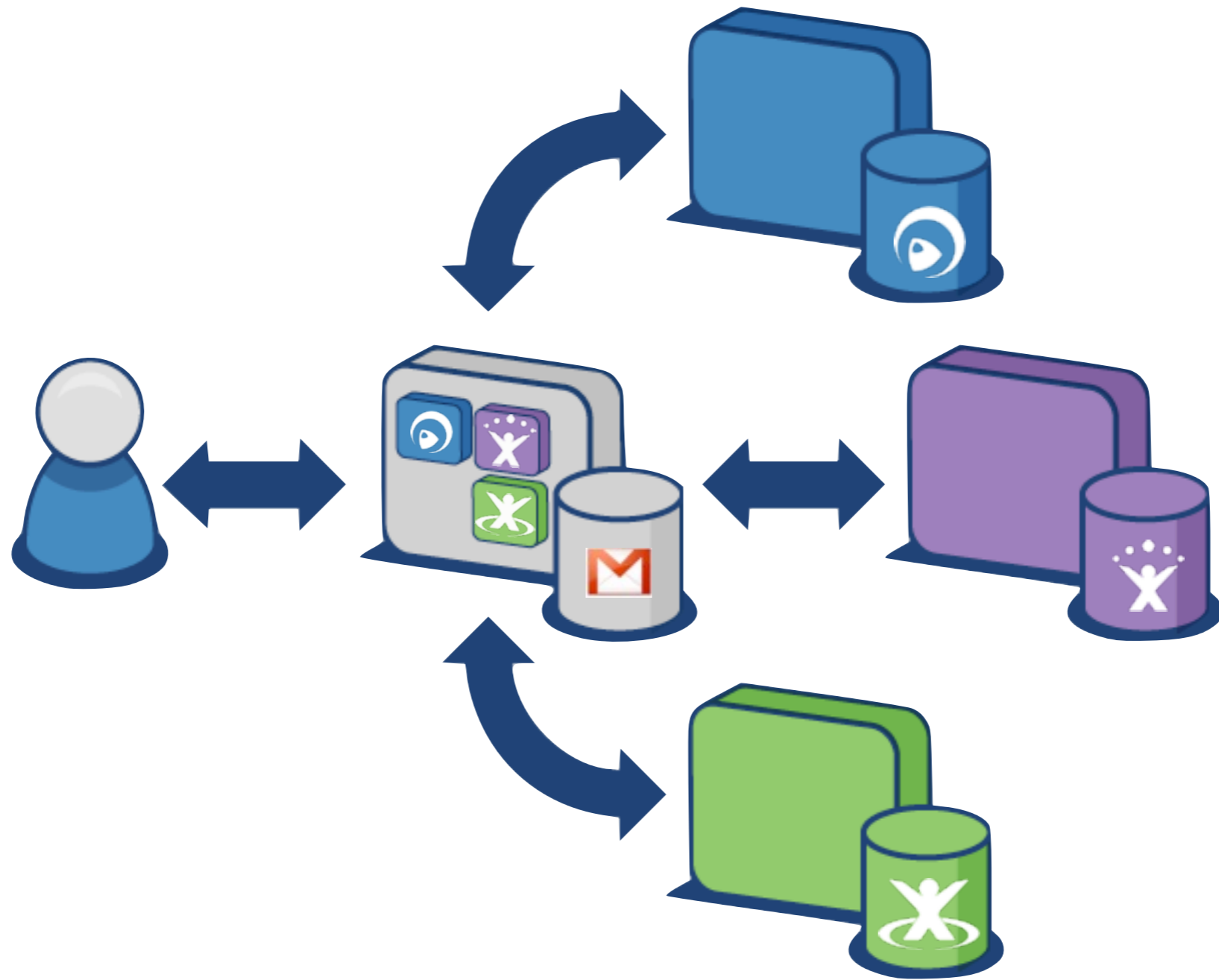
OpenSocial

Open standard for enterprise application connection



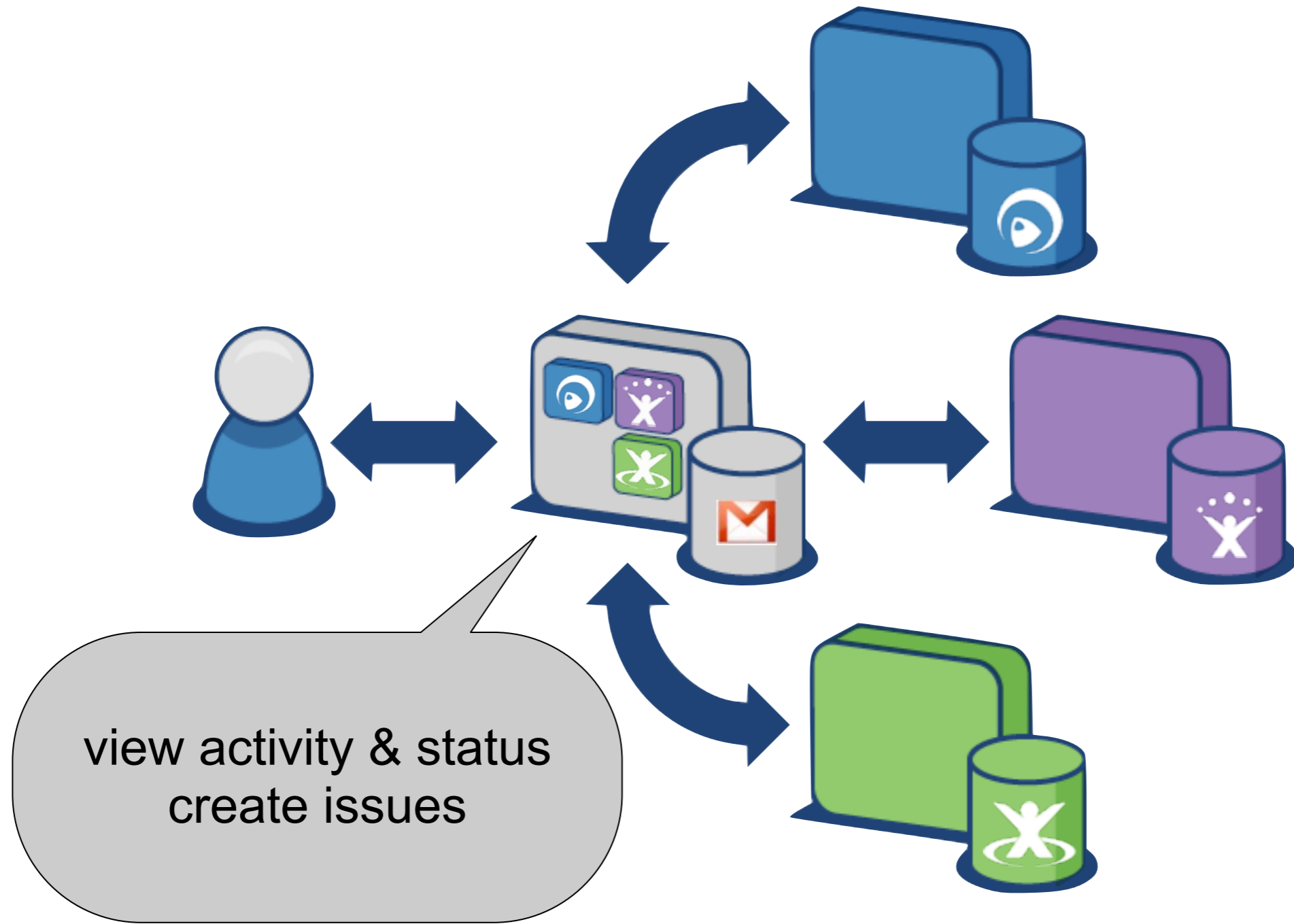
OpenSocial

Open standard for enterprise
application connection



Managers Do Email

Not just about portals,
or *internal* applications.



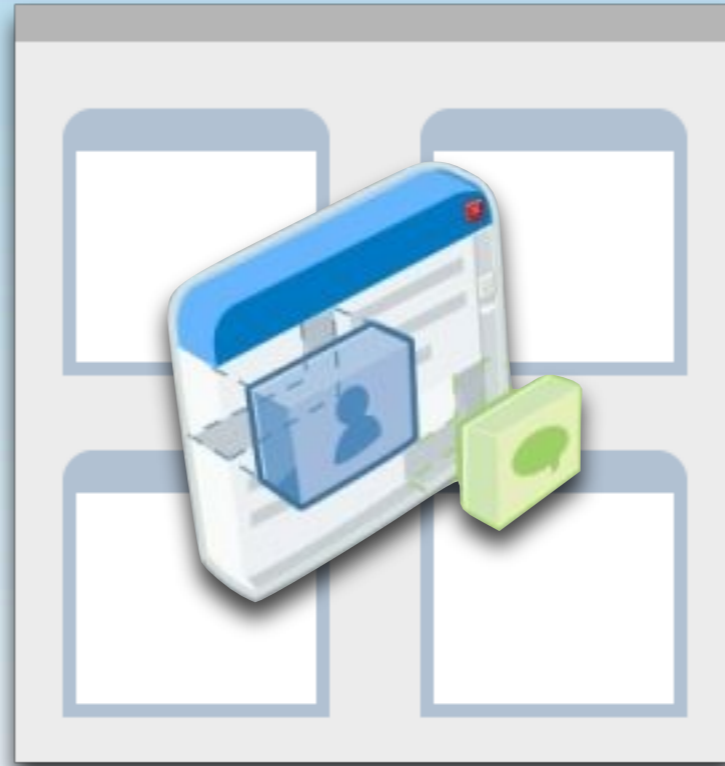
Managers Do Email

Not just about portals,
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Open Standards, Industry Support

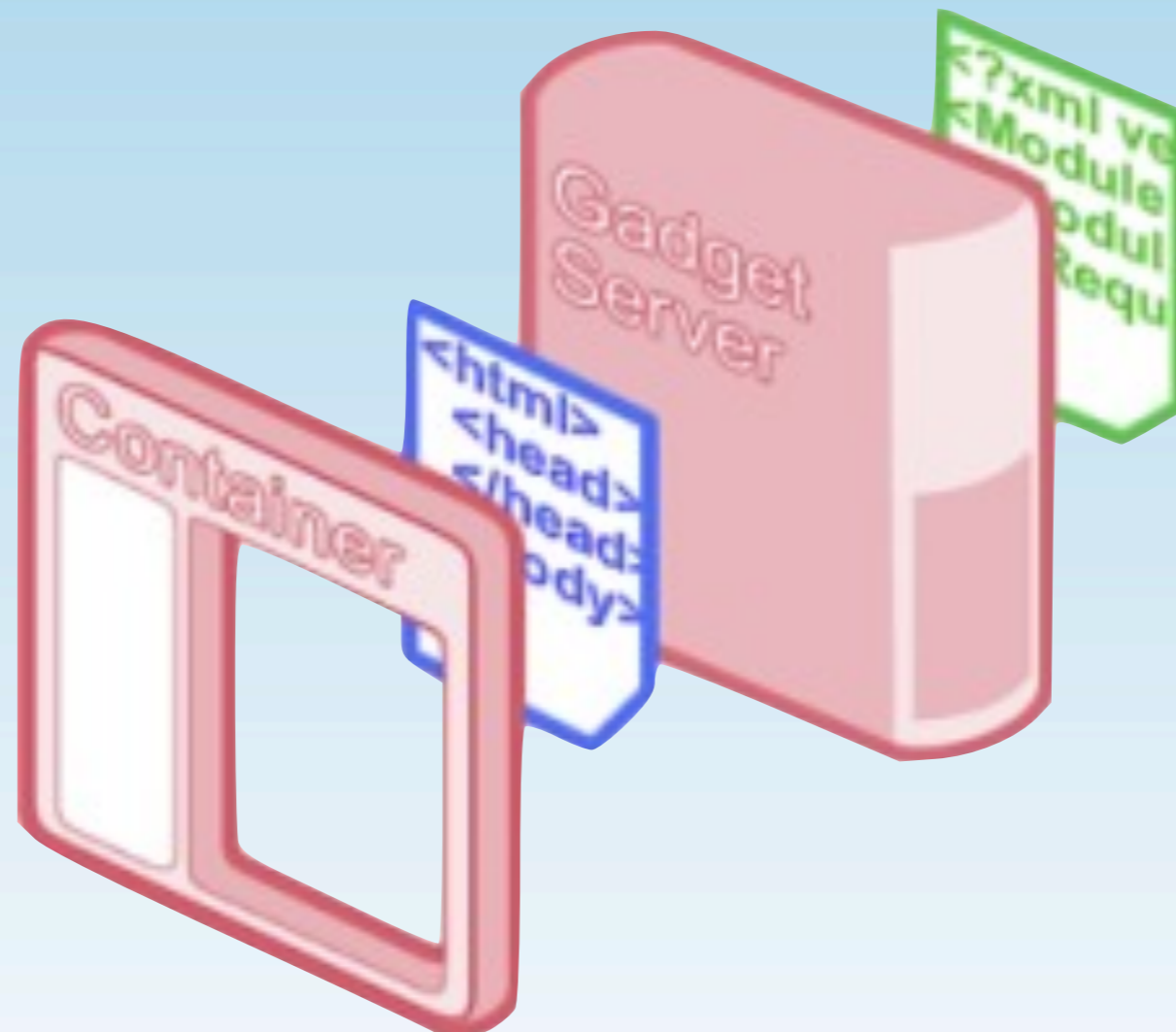
Google™

Linked ®



ebay®

Apache Shindig



Anatomy of a Gadget

Anatomy of a Gadget

- XML Spec File
 - Metadata, HTML Content, and JavaScript

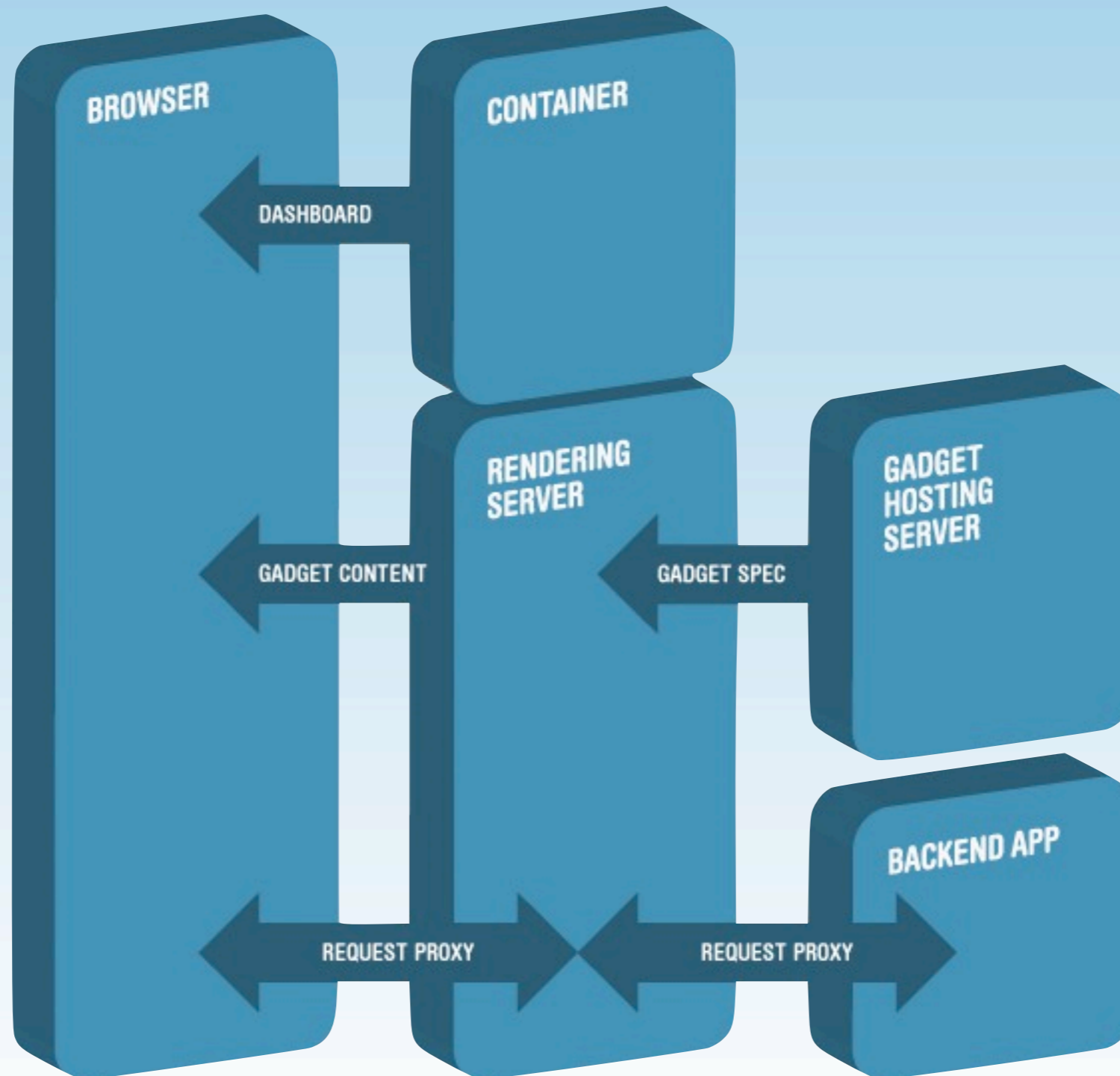
Anatomy of a Gadget

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 - Metadata, HTML Content, and JavaScript
- Core JavaScript API
 - Access Preferences, Make Requests

Anatomy of a Gadget

- XML Spec File
 - Metadata, HTML Content, and JavaScript
- Core JavaScript API
 - Access Preferences, Make Requests
- Gadget Features
 - Additional, Optional Capabilities & APIs

Architecture



XML Spec File

```
<?xml version="1.0" encoding="UTF-8" ?>
<Module>
  <ModulePrefs
    title="JIRA Issues"
    author="Atlassian"
    thumbnail="jira-issues-thumbnail.png"
    description="A list of recently created JIRA Issues">

    <Require feature="minimessage" />
    <Require feature="dynamic-height" />

  </ModulePrefs>

  <UserPref
    name="show_date"
    display_name="Show Dates?"
    datatype="bool"
    default_value="true"/>
  <UserPref
    name="show_summ"
    display_name="Show Summaries?"
    datatype="bool"
    default_value="true"/>
  <UserPref
    name="num_entries"
    display_name="Number of Entries:"
    default_value="5"
    required="true"/>

  <Content type="html"><![CDATA[
    <link rel="stylesheet"
      href="http://labs.atlassian.com/svn/GADGETS/trunk/jira-issues/basic/jira-issues.css">

    <div id="content_div"></div>

    <script type="text/javascript"
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  ]]></Content>
</Module>
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```

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```

```
</ModulePrefs>
```



JIRA Issues

[Gadget URL](#)

By [Atlassian](#)

A list of recently created JIRA Issues

Add it now

Remove

<ModulePrefs>

```
<?xml version="1.0" encoding="UTF-8" ?>
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The screenshot shows a dialog box titled "JIRA Issues" with a blue header bar. Inside the dialog, there are three settings: "Show Dates?" with a checked checkbox, "Show Summaries?" with a checked checkbox, and "Number of Entries:" with a text input field containing the number "5". Below the input field, the text "(required)" is displayed. At the bottom of the dialog, there are two buttons: "Save" and "Cancel".

<UserPref>

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<Content>

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JavaScript

```
// Create minimessage factory  
var msg = new gadgets.Minimessage();  
// Show a small loading message to the user
```

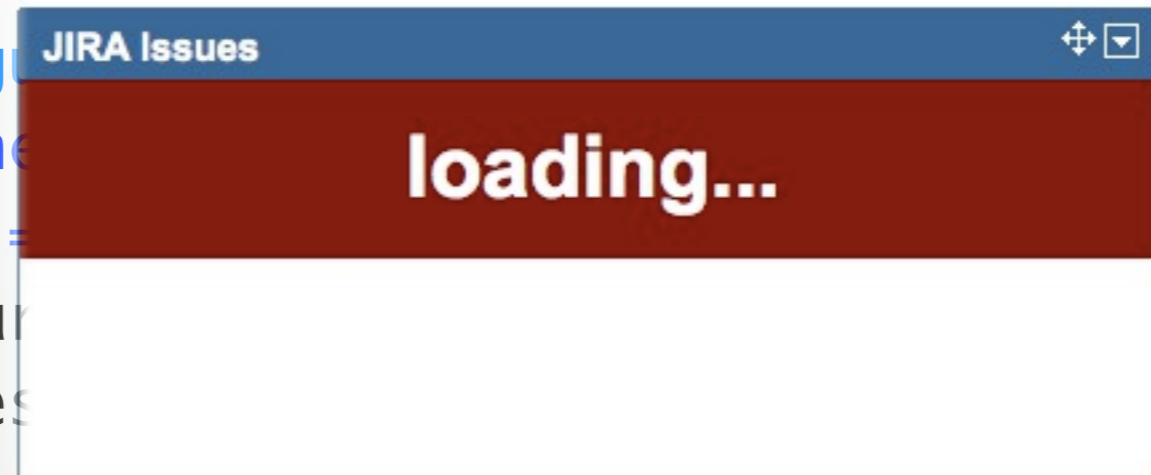
```
// Create minimessage factory  
var msg = new gadgets.Minimessage();  
// Show a small loading message to the user  
var loadMessage = msg.createStaticMessage("loading...");  
  
// Get configured user prefs  
var prefs = new gadgets.Prefs();  
var showDate = prefs.getBool("show_date");  
var showSummary = prefs.getBool("show_summ");  
var numEntries = prefs.getInt("num_entries");  
  
// Fetch issues when the gadget loads  
gadgets.util.registerOnLoadHandler(fetchIssues);
```

JavaScript

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// Create minimessage factory  
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```
// Create minimessage factory  
var msg = new gadgets.Minimessage();  
// Show a small loading message to the user  
var loadMessage = msg.createStaticMessage("loading...");
```

```
// Get configuration  
var prefs = gadgets.config.getPrefs();  
var showDate = prefs.showDate;  
var showSummary = prefs.showSummary;  
var numEntries = prefs.numEntries;
```



```
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JavaScript

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Requesting Data from Web Services

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- **AJAX + DOM**

Requesting Data from Web Services

- AJAX + DOM
- Request Proxy

Requesting Data from Web Services

- AJAX + DOM
- Request Proxy
- OAuth

gadgets.io.makeRequest()

What Can You Call?

What Can You Call?

- Any URL

What Can You Call?

- Any URL
- XML and JSON are the most useful

What Can You Call?

- Any URL
- XML and JSON are the most useful
- REST-style APIs are the most convenient

Fetching Issues

```
// Create minimessage factory  
var msg = new gadgets.Minimessage();  
// Show a small loading message to the user
```

```
function fetchIssues() {  
  var url = "http://jira.atlassian.com/sr/" +  
    "jira.issueviews:searchrequest-xml" +  
    "/temp/SearchRequest.xml?" +  
    "created%3Aprevious=-1w&resolution=-1" +  
    "&sorter/field=issuekey&sorter/order=DESC" +  
    "&sorter/field=created&sorter/order=DESC" +  
    "&tempMax=20";  
  
  var params = {};  
  params[gadgets.io.RequestParameters.CONTENT_TYPE] =  
    gadgets.io.ContentType.DOM;  
  
  gadgets.io.makeRequest(url, handleResponse, params);  
}
```

Handling the Response

```
// Create minimessage factory  
var msg = new gadgets.Minimessage();  
// Show a small loading message to the user
```

```
function handleResponse(obj) {  
    var domData = obj.data;  
  
    var jiraIssues = {  
        title : getTitle(domData),  
        items : getItems(domData)  
    };  
    renderJiraIssues(jiraIssues);  
  
    msg.dismissMessage(loadMessage);  
    gadgets.window.adjustHeight();  
}
```

```
"&sorter/field=created&sorter/order=DESC&tempMax=20";
```

Handsonse

```
function handl
var domData

var jiraIssu
title :
items :
};
renderJiraIs
msg.dismissM
gadgets.winc
}
```

JIRA Issues

Atlassian JIRA

[\[JRA-17441\] REST endpoints still don't return an array if there's only a single value](#)
Wed, 27 May 2009 19:28:52 -0500 (CDT)
undefined

[\[CONF-15944\] Certain users unable to search for certain pages despite viewing rights](#)
Wed, 27 May 2009 17:05:52 -0500 (CDT)
When searching for a page name (called "Macros"), certain users do not get any results - whereas some users do, despite users having viewing/editing/creating rights within the page restrictions.

[\[CONF-15943\] Job done](#)
Wed, 27 May 2009 16:55:20 -0500 (CDT)
Job done
Created from crucible comment by Peter Moore:
<https://svn.atlassian.com/atlaseye/cru/CR-CONF-294#9469>

[\[BAM-3973\] Create common macros for notification templates](#)
Wed, 27 May 2009 16:50:33 -0500 (CDT)
undefined

[\[JRA-17440\] Extend the JiraSoapAPI to provide ways to create and modify filters.](#)
Wed, 27 May 2009 15:19:03 -0500 (CDT)
As part of our in-house application release cycle, we need to select issues for release notes. However, our development process does not lend itself to using versions. Instead we use filters with date filters. We would want to create a filter as part of the build automation process but the current JiraSoapAPI does not provide such a capability.
An API similar to the Hibernate way of creating HQL criterias would be very useful

SC&tempMax=20";

Challenges

Enterprise Readiness

Enterprise Readiness

- SSO/Security

Enterprise Readiness

- SSO/Security
- Assumes big container, little app servers

Enterprise Readiness

- SSO/Security
- Assumes big container, little app servers
- Low awareness of enterprise needs

Running Behind the Firewall

Running Behind the Firewall

- Deployment issues

Running Behind the Firewall

- Deployment issues
- Portable gadgets

Running Behind the Firewall

- Deployment issues
- Portable gadgets
- Google Analytics in gadgets

Immaturity

Immaturity

- No 1.0 spec yet

Immaturity

- No 1.0 spec yet
- Shindig still incubating

Immaturity

- No 1.0 spec yet
- Shindig still incubating
- Compatibility:
more theory than reality

What's Next?

OpenSocial 1.0

OpenSocial 1.0

- In progress now

OpenSocial 1.0

- In progress now
- Focus on clean up & clarification

OpenSocial 1.0

- In progress now
- Focus on clean up & clarification
- Compliance tests

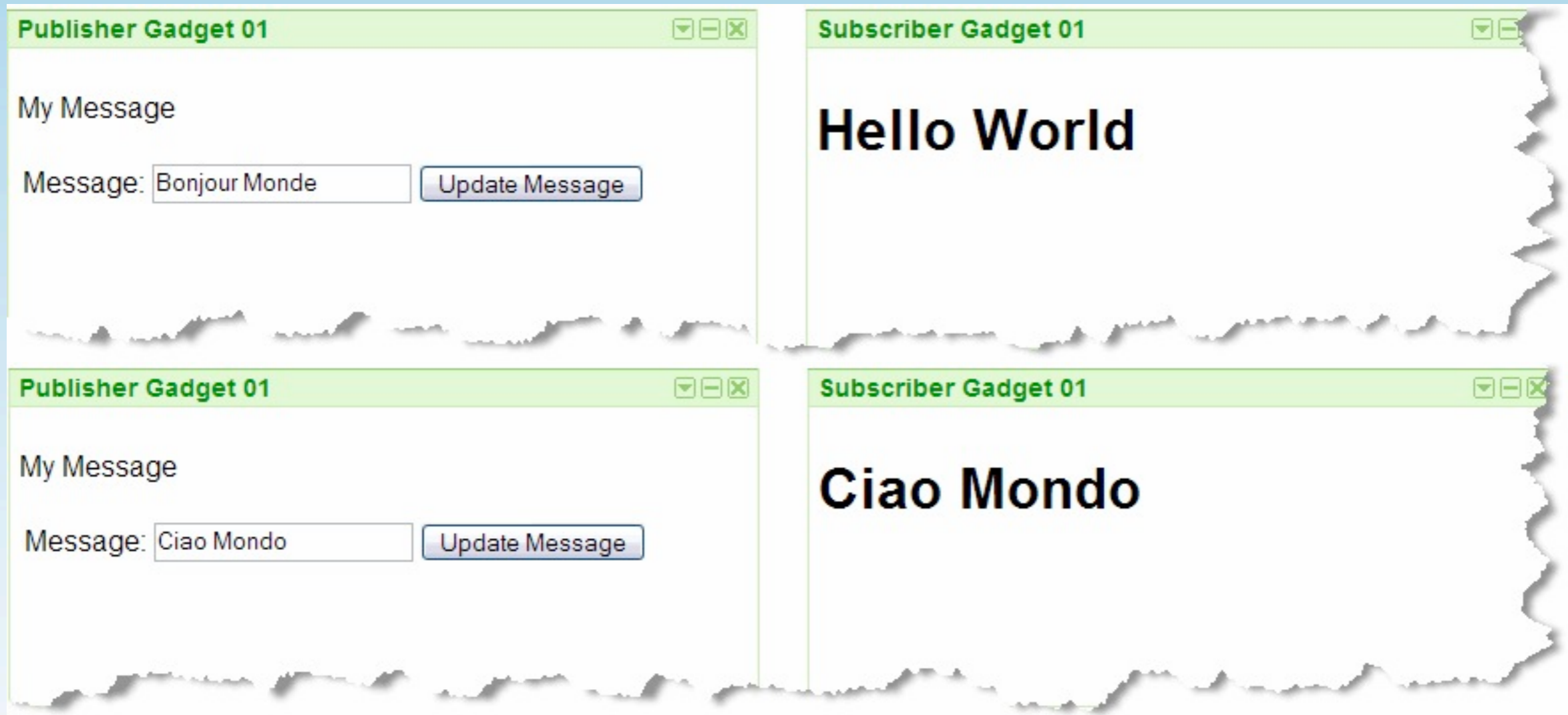
OpenSocial 1.0

- In progress now
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- You can join in

PubSub



Caja

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- Helps prevent phishing, script injection, history sniffing, etc.

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- Safer JavaScript & CSS
- Helps prevent phishing, script injection, history sniffing, etc.
- In production, but still tricky to use

Questions?