What Is Apache JSPWiki

- Open source WikiWiki engine
- Built around standard JEE components
  - Java 1.6
  - Servlets
  - JSP
Short History

- Founded by Janne Jalkanen in 2001
- Entered Apache Incubator in 2008
- Apache top-level project since July 2013
Why I’m Standing Here

• Long-standing interest in knowledge management and information sharing tools
• Met Janne Jalkanen at ApacheCon 2008
• Contributed “Wiki On A Stick” distribution
• Birth of a Feather Talk at ApacheCon 2010
• Became JSPWiki mentor in 2012
Knowledge Management
Information Sharing
- Hard to update
- Hard to search
- Hard to share
- Hard to backup
More Modern Approaches

- Plain old text files
- nvAlt
- Evernote
- SharePoint Server
## Choosing A Wiki

<table>
<thead>
<tr>
<th>Wiki</th>
<th>Language</th>
<th>Storage</th>
<th>Licence</th>
</tr>
</thead>
<tbody>
<tr>
<td>MediaWiki</td>
<td>PHP</td>
<td>Database</td>
<td>GPL</td>
</tr>
<tr>
<td>DocuWiki</td>
<td>PHP</td>
<td>File System</td>
<td>GPL</td>
</tr>
<tr>
<td>TWiki</td>
<td>Perl</td>
<td>File System</td>
<td>GPL</td>
</tr>
<tr>
<td>XWiki</td>
<td>Java</td>
<td>Database</td>
<td>LGPL</td>
</tr>
<tr>
<td>JSPWiki</td>
<td>Java</td>
<td>File System</td>
<td>ASL</td>
</tr>
</tbody>
</table>

[www.wikimatrix.org](http://www.wikimatrix.org) list more than 100 different implementations
„The most popular Wiki does not necessarily need to be the right Wiki for your needs!“

Quote from www.wikimatrix.org
My Personal Needs

- Personal and department usage
- Need to work offline
- Wiki spaces to separate content
- File-based textual wiki content
  - Dropbox
  - Version control
  - Content migration
What is JSPWiki?
Welcome to Apache JSPWiki, a leading open source WikiWiki engine, feature-rich and built around standard JEE components (Java, servlets, JSP).

Some of its features include:
- WikiMarkup / Structured Text
- File attachments
- Templates support
- Data storage through your choice of two WikiPage Providers, with the capability to create and plug in new ones
- Security: fine grained control over authorization and authentication, yet simple to configure
- Easy [RichText][1] and page filter interfaces
- UTF-8 support
- JSP-based
- Easy-ish installation
- Page locking to prevent editing conflicts
- Support for Multiple Wikis

The WikiMatrix page shows you a comparison with other wikis.

JSPWiki is open-source software that is released under the Apache Public License. This website (https://jspwiki.wiki.apache.org) serves as the platform for project collaboration. The JSPWiki community welcomes any help with the project. You don't need to be a software developer to get involved -- there are many other ways to contribute. See the Getting Involved page for more details.

This page (revision-15) was last changed on 12-Jan-2014 21:51 by Ichiru Furusato [edit]
Useful Git Commands

- Table of Contents

Useful Git Commands
- Setting up a Repository at GitHub
- Pushing Changes to GitHub
- Cloning a Remote Git Repository
- Pulling the Changes from a Remote Repository
- Show branches, tags in git log
- Show changes of the current directory
- Revert the uncommitted local changes
- Undo your the last commit
- Create and work on a branch
- Useful GIT Aliases

Setting up a Repository at GitHub

In this example we create a 'jswiki-personal' project on github and add our personal wiki found at "WikiOnAStick/data/wiki".

$ cd data/wiki
$ git init
$ git add .
$ git status
$ git commit -m 'Initial import'
$ git remote add origin git@github.com:sgoeschi/jswiki-personal.git
$ git push origin master

Pushing Changes to GitHub

In this example we update the page "UsefulGitCommands" and would like to commit the changes locally and push the changes to GitHub

$ git status
$ git add .
Generating a new SSH Key Pair

```bash
%%% pretty
{{
ssh-keygen -t rsa -C "siegfried.goeschl@gmail.com"
}}
```

SSH Config Example

Using SSH config file is the only way to stay sane when working with multiple SSH connections

```bash
%%% pretty
{{
Host isg
   HostName 94.142.161.122
   Port 9999
   IdentityFile ~/.ssh/siegfried.goeschl@gmail.com
}}
```
This page (revision-7) was last changed on **29-Mar-2014 17:36** by Harry Metske

This page was created on **01-Jan-2014 13:23** by Harry Metske

Only authorized users are allowed to rename pages.

Only authorized users are allowed to delete pages.

### Incoming links
- [CleanBlue]
- [Getting Started]
- [InstallingPlugins]
- [JSPWikiDocumentation]
- [LeftMenu]
- [NewIn2.10]

### Outgoing links
- [Documentation]
  - [Category.Documentation]
  - [Getting Started]
  - [Search]
  - [Wiki Syntax]
  - [Wiki.Admin.Security]
  - [WikiFilters]

<table>
<thead>
<tr>
<th>Version</th>
<th>Date Modified</th>
<th>Size</th>
<th>Author</th>
<th>Changes ...</th>
<th>Change note</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>29-Mar-2014 17:36</td>
<td>3.078 kB</td>
<td>Harry Metske</td>
<td>to previous</td>
<td>we don't have a jspwiki.properties anymore in the war</td>
</tr>
<tr>
<td>6</td>
<td>24-Feb-2014 18:07</td>
<td>3.471 kB</td>
<td>Harry Metske</td>
<td>to previous</td>
<td>path =&gt; file</td>
</tr>
<tr>
<td>5</td>
<td>18-Jan-2014 09:03</td>
<td>3.471 kB</td>
<td>Harry Metske</td>
<td>to previous</td>
<td>legacy link added (moved from main site)</td>
</tr>
<tr>
<td>4</td>
<td>05-Jan-2014 12:51</td>
<td>3.317 kB</td>
<td>Harry Metske</td>
<td>to previous</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>05-Jan-2014 12:33</td>
<td>3.272 kB</td>
<td>Harry Metske</td>
<td>to previous</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>04-Jan-2014 18:07</td>
<td>3.208 kB</td>
<td>Harry Metske</td>
<td>to previous</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>01-Jan-2014 13:23</td>
<td>3.201 kB</td>
<td>Harry Metske</td>
<td>to last</td>
<td></td>
</tr>
</tbody>
</table>
Welcome to Apache JSPWiki, a leading open source [WikiWiki] engine, feature-rich and built around standard JEE components (Java, servlets, JSP).

This page (revision-15) was last changed on 12-Jan-2014 21:51 by Ichiro Furusato
This page was created on 02-Oct-2013 18:55 by Harry Metske
Only authorized users are allowed to rename pages.
Only authorized users are allowed to delete pages.

+ Incoming links + Outgoing links

- Difference between version 15 and 14

At line 3 changed one line

Welcome to Apache JSPWiki, a leading open source [WikiWiki] engine, feature-rich and built around standard JEE components (Java, servlets, JSP).

Welcome to Apache JSPWiki, a leading open source WikiWiki engine, feature-rich and built around standard JEE components (Java, servlets, JSP).

<table>
<thead>
<tr>
<th>Version</th>
<th>Date Modified</th>
<th>Size</th>
<th>Author</th>
<th>Changes ...</th>
<th>Change note</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>12-Jan-2014 21:51</td>
<td>1.319 kB</td>
<td>Ichiro Furusato</td>
<td>to previous</td>
<td>added JEE link</td>
</tr>
<tr>
<td>14</td>
<td>12-Jan-2014 20:31</td>
<td>1.317 kB</td>
<td>Ichiro Furusato</td>
<td>to previous</td>
<td>added link to WikiWiki</td>
</tr>
<tr>
<td>13</td>
<td>07-Jan-2014 12:18</td>
<td>1.315 kB</td>
<td>Juan Pablo</td>
<td>to last</td>
<td>added link to [WikiFilters]</td>
</tr>
<tr>
<td>12</td>
<td>07-Jan-2014 12:14</td>
<td>1.284 kB</td>
<td>Juan Pablo</td>
<td>to last</td>
<td>added link to [JSPWikiPlugin]</td>
</tr>
<tr>
<td>11</td>
<td>06-Jan-2014 14:54</td>
<td>1.268 kB</td>
<td>Juan Pablo</td>
<td>to previous</td>
<td>merged first two sentences (almost equal) + added [Getting Involved] paragraph</td>
</tr>
<tr>
<td>10</td>
<td>06-Jan-2014 00:31</td>
<td>0.996 kB</td>
<td>Juan Pablo</td>
<td>to last</td>
<td>added link from list item to existing page</td>
</tr>
<tr>
<td>9</td>
<td>06-Jan-2014 00:27</td>
<td>0.976 kB</td>
<td>Juan Pablo</td>
<td>to last</td>
<td>added links from list items to existing pages</td>
</tr>
<tr>
<td>8</td>
<td>05-Jan-2014 12:33</td>
<td>0.95 kB</td>
<td>Harry Metske</td>
<td>to last</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>03-Jan-2014 14:02</td>
<td>0.886 kB</td>
<td>Juan Pablo</td>
<td>to last</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>01-Jan-2014 11:04</td>
<td>0.869 kB</td>
<td>Harry Metske</td>
<td>to last</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>23-Nov-2013 16:23</td>
<td>0.305 kB</td>
<td>Harry Metske</td>
<td>to last</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>23-Nov-2013 13:09</td>
<td>0.539 kB</td>
<td>Harry Metske</td>
<td>to last</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>02-Oct-2013 19:07</td>
<td>0.476 kB</td>
<td>Harry Metske</td>
<td>to last</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>02-Oct-2013 19:04</td>
<td>0.442 kB</td>
<td>Harry Metske</td>
<td>to last</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>02-Oct-2013 18:55</td>
<td>0.48 kB</td>
<td>Harry Metske</td>
<td>to last</td>
<td></td>
</tr>
</tbody>
</table>

This page (revision-15) was last changed on 12-Jan-2014 21:51 by Ichiro Furusato
## Search results for “plugin”

<table>
<thead>
<tr>
<th>Page</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>IfPlugin</td>
<td>59</td>
</tr>
<tr>
<td>PluginTag</td>
<td>57</td>
</tr>
<tr>
<td>JSPWikiPlugin</td>
<td>53</td>
</tr>
<tr>
<td>WikiPlugin</td>
<td>51</td>
</tr>
<tr>
<td>EvaluatePlugin</td>
<td>51</td>
</tr>
<tr>
<td>SearchPlugin</td>
<td>47</td>
</tr>
<tr>
<td>AbstractReferralPlugin</td>
<td>46</td>
</tr>
<tr>
<td>OutlinePlugin</td>
<td>46</td>
</tr>
<tr>
<td>SessionsPlugin</td>
<td>46</td>
</tr>
<tr>
<td>ReferredPagesPlugin</td>
<td>46</td>
</tr>
<tr>
<td>UndefinedPagesPlugin</td>
<td>46</td>
</tr>
</tbody>
</table>
A JSPWiki plugin is a software component installed as part of the wiki that can automate actions on wiki pages. Some of JSPWiki's features are implemented as plugins. These JSPWiki Core Plugins are available in all out-of-the-box installations. The well known PageIndex or RecentChanges pages contain little more than a plugin!

JSPWiki lets you create your own plugins. These are just simply Java classes that implement the org.apache.wiki.api.plugin.WikiPlugin interface and can be found somewhere in your classpath. The plugins work so that when you reference a plugin on a wiki page, the plugin is invoked and its output is inserted verbatim into the page.

**Usage**

The long formal form to insert a plugin in a wiki page is:

```
[[INSERT <plugin class> WHERE <param1=value1>,<param2=value2>,...]]
```

If a parameter contains spaces, you can use single quotes (') around the parameter. INSERT and WHERE are optional and can be omitted:

```
[[<plugin class> <param1=value1>,<param2=value2>,...]]
```

such as:

```
[[CurrentTimePlugin format='yyyy.MM.dd G \'at\' hh:mm:ss z']]`
```

whose output is:

2014.04.06 AD at 11:07:39 UTC
This is an alphabetical list of all pages in this Wiki.

A
About, ApprovalRequiredForPageChanges, ApprovalRequiredForUserProfiles

C
Community, CopyrightNotice

E
EditFindAndReplaceHelp, EditPageHelp

F
FullRecentChanges

I
InstallationTips

L
LeftMenu, LeftMenuFooter, LoginHelp

M
Main, MoreMenu

O
OneMinuteWiki

P
PageAlias, PageIndex
The following are all pages that are not currently referred to by any other page:

CleanBlue/CleanBlue-TrueType.zip
CleanBlue/JSPWiki-logo-07.svg
CleanBlue/nerd-venn-diagram.jpg
DELETEME
EvaluatePlugin/Evaluate.java
EvaluatePlugin/Expression.java
Filtered Tables/vanilla-tablefilter1.jpg
Filtered Tables/vanilla-tablefilter2.jpg
Harry Metske
Ichiro Furusato
InsertPageTest
InsertPageTest_WithUnderscore
JSPWikiDocumentation
Jim Willeke
Keith Davidson
NewIn2.10
NewIn2.8
NewIn2.9
OutlinePlugin/Outline.java
PagesWithDeadLinks
PhotoCollectionPlugin/add_these_to_jspwiki-custom.properties
PhotoCollectionPlugin/make_your_own_Header_jsp
PhotoCollectionPlugin/make_your_own_jspwiki_css
PhotoCollectionPlugin/phocollection.jar
ProgressBar/ProgressBar.java
ProgressBar/green.png
These are changes made to pages during the last 60 days. Check the [FullRecentChanges](#) for a complete list of all changed pages.
This server lives on Coordinated Universal Time and the time here is 21:41 on 04-Apr-2014.

<table>
<thead>
<tr>
<th>Date</th>
<th>Page</th>
<th>Time</th>
<th>Author</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>29.03.2014</td>
<td>Getting Started</td>
<td>17:41:23</td>
<td>Harry Metske</td>
<td>we don't have a jspwiki.properties anymore in the war</td>
</tr>
<tr>
<td></td>
<td>Documentation</td>
<td>17:36:54</td>
<td>Harry Metske</td>
<td>we don't have a jspwiki.properties anymore in the war</td>
</tr>
<tr>
<td>18.03.2014</td>
<td>Testing JSPwiki-830</td>
<td>20:45:06</td>
<td>Dirk Frederickx</td>
<td>more tests</td>
</tr>
<tr>
<td></td>
<td>HADDOCK Template</td>
<td>20:34:53</td>
<td>Dirk Frederickx</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NewIn2.10</td>
<td>20:28:20</td>
<td>Dirk Frederickx</td>
<td></td>
</tr>
<tr>
<td>20.02.2014</td>
<td>PortableBinaries</td>
<td>08:25:36</td>
<td>Juan Pablo</td>
<td></td>
</tr>
<tr>
<td>12.02.2014</td>
<td>Configuration</td>
<td>13:33:02</td>
<td>Dirk Frederickx</td>
<td>type on closing {{{}} bracket</td>
</tr>
</tbody>
</table>
Internals of JSPWiki
Core Abstraction

- Plugins
  - Called when a page is rendered
    - ImagePlugin, RecentChangesPlugin
- Filters
  - Pre- and post-processing of content
- Providers
  - Search and page providers
Plugin Example

These are the changes made to these pages during the last 30 days. Check the FullRecentChanges for a complete list of all changed pages.

This server lives on Mountain Daylight Time and the time here is 18:59 on 05-Apr-2014.

<table>
<thead>
<tr>
<th>31.03.2014</th>
<th>13:07:16</th>
<th>UnknownAuthor</th>
</tr>
</thead>
<tbody>
<tr>
<td>About</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approval Required For Page Changes</td>
<td>13:07:16</td>
<td>UnknownAuthor</td>
</tr>
<tr>
<td>Approval Required For User Profiles</td>
<td>13:07:16</td>
<td>UnknownAuthor</td>
</tr>
</tbody>
</table>
Plugin Example

These are the changes made to these pages during the last 30 days. Check the [FullRecentChanges] for a complete list of all changed pages.

This server lives on [{INSERT CurrentTimePlugin format=zzzz}] and the time here is [{INSERT CurrentTimePlugin format='HH:mm \'on\' dd-MMM-yyyy'}].

[{INSERT org.apache.wiki.plugin.RecentChangesPlugin since=30}]
Search Providers

- BasicSearchProvider
  - Regexp-ing through wiki files
- LuceneSearchProvider
  - Provides full-text search
  - Lucene index in `${jspwiki.workDir}`
Page Providers

- FileSystemProvider
  - File storage without version information
- VersioningFileProvider
  - File storage with version information
Basic Configuration

- Defaults in "jspwiki.properties"
- Overwrites in "WEB-INF/classes/jspwiki-custom.properties"
jspwiki.applicationName=private
jspwiki.baseURL=http://localhost:9627/private/
jspwiki.basicAttachmentProvider.storageDir=./data/private
jspwiki.fileSystemProvider.pageDir=./data/private
jspwiki.workDir=./temp/private

jspwiki.attachment.forbid=.html .htm .php .asp .exe .sh .dll .bat
jspwiki.attachment.maxsize=4000000
jspwiki.breakTitleWithSpaces=true
jspwiki.pageProvider=VersioningFileProvider
jspwiki.searchProvider=BasicSearchProvider
jspwiki.security=jaas
Authentication

- Out-of-the-box authentication
  - Java Authentication and Authorization Service (JAAS)
  - Credentials stored in "userdatabase.xml"
- Container authentication
  - Provides authentication and credentials
  - E.g. use Tomcat’s JNDIRealm and an LDAP user database
Authorization

• JAAS uses a “WEB-INF/jspwiki.policy”
• Each user has a role and permission
  ‣ Anonymous user
  ‣ Asserted user
  ‣ Authenticated user
  ‣ Admin user
What’s Missing Now?!

- Moron-proof setup
- Useable with *PortableApps*
- Wiki spaces to separate content
Portable JSPWiki

- Ready-to-use JSPWiki installation
- Apache Tomcat 7.0.52 as servlet container
  - Configured for small memory footprint
- Wiki spaces implemented using a web application for each wiki
  - Shared JSPWiki libraries
  - Each wiki uses its own configuration
Portable JSPWiki

• Ships with the usual shell scripts
• Native Windows & Mac OS launchers
• Listens on HTTP port 9627
• Comes with two pre-configured wikis
  ‣ private
  ‣ public
The Private Wiki

- Blue-print for de-centralised personal wiki
- No login required for editing
- Content sync over Dropbox
- BasicSearchProvider reg-exp grepping
- No page versioning
The Public Wiki

- Anonymous users with read-only access
- Registered users with read/write access
  - "admin", "lEtMeIn"
  - "user", "user"
- Using VersioningFileProvider
- LuceneSearchProvider
  - Only picks up changes through JSPWiki
Cloning In Action

- Copy an existing wiki in the “webapps” directory
- Update the “jspwiki-custom” properties files
- Add a link to index.html in ROOT
JSPWiki On A Stick

Your Private Wiki

Your Public Wiki
JSPWiki Portable ToDos

• Native Mac OS X launcher for Oracle JDK
  › Currently only Apple JDK 1.6
• Separating configuration from web app
  › E.g. user credentials live in WEB-INF
• Pre-compiling JSPs
  › Can be slow for new deployments
Personal Tips & Tricks

- ImagePlugin for PDF printing
  - Most of my paper work uses JSPWiki
- Text editor for lengthy wiki documents
  - Helpful for table markup
  - JSPWiki does not reformat your markup
https://github.com/sgoeschl/apache-jspwiki

http://people.apache.org/~sgoeschl/download/wikionastick/
JSPWiki As Integration Platform
Integration Platform?! 

- Servlet-based application
- User management
- Open Source and business-friendly
- Displays structured text and images
- Extensible using plugins written in Java
JSPWiki UML Model Viewer

- Custom extensions for visualising and navigating through UML models
- Daily export of UML model
  - 9465 images and 20522 pages
  - JSPWiki markup & directory structure
OK_Datentypendaten 4BD7F31100A4

Bisher besucht: Intro, SG_Saldierung_Kundenkonto 4B1616800264, OK_SaldierungKundenkonto 45A20B0C026F, OV_DatentypDat 4BDAC

Komponente <<OK>> OK_Datentypendaten

- Modellkontext: Design
- Kurzname: OK_Datentypendaten
- Anwendungsstruktur: Design::ESZ Basissysteme::EF SEP-Referenz::GO_Framework-Test-Services::SG_FrameworkTest
- Modellpfad: Design::Systeme::ESZ Basissysteme::EF SEP-Referenz::GO_Framework-Test-Services::SG_FrameworkTest
- Wiki-Suche nach OK_Datentypendaten
- Issues-Suche nach OK_Datentypendaten

Im Modell nicht dokumentiert.

Angehängte Dokumente

Diagramme

Untergeordnete Komponenten
BOB Navigator
- Intro
- Aktuelle Informationen
- Statistik

Anforderungen
- Analysemödell
- Prozesse
- Systeme
- Vorlagen

Design
- Typen
- Systeme
- Vorlagen

Modell: bob_modell
Stand: Mittwoch, 2. April 2014
JSPWiki v2.8.4
Things To Take Home
Things To Take Home

- JSPWiki is a perfect fit for a personal and/or department wiki
- Portable JSPWiki is really cool for running personal wikis
- JSPWiki is easily extendable if you would like to do something really fancy
Questions & Answers
Additional Resources

- JSPWiki Homepage - http://jspwiki.apache.org
- JSPWiki Portable Git Repo - https://github.com/sgoeschl/apache-jspwiki
- Wiki Matrix - http://www.wikimatrix.org
The Image Plugin

**src = 'Image source'**
This can either be a full URL (http://.) or a WikiAttachment name. Required.

**align = 'left|right|center'**
The image alignment.

**height = 'integer'**
Force the height of the image.

**width = 'integer'**
Force the width of the image.

**alt = 'alt text'**
The alt text of an image. This is very useful when doing pages that can be navigated with text-only browsers.

**caption = 'caption text'**
The text that should be shown as a caption under the image.

**link = 'hyperlink'**
A hyperlink (http://.). In the future, you can also use WikiPages.

**border = 'integer'**
Size of the image border.

**style = 'style info'**
Any style markup you would like to apply to the table surrounding the image.

**class = 'class name'**
Redefine the default class for this image, which is "imageplugin".
JSPWiki Markup

--- = make a horizontal ruler. Extra '-' is ignored.
\ = force a line break

[link] = create a hyperlink to an internal WikiPage called 'Link'.
[this is also a link] = create a hyperlink to an internal WikiPage called 'ThisIsAlsoALink' but show the link as typed with spaces.
[a sample!link] = create a hyperlink to an internal WikiPage called 'Link', but display the text 'a sample' to the user instead of 'Link'.
~NoLink = disable link creation for the word in CamelCase.
[#1] = mark the footnote number 1.
[[link]] = create text '[link]'.

!heading = small heading with text 'heading'
!!heading = medium heading with text 'heading'
!!!heading = large heading with text 'heading'

''text'' = print 'text' in italic.
__text__ = print 'text' in bold.
{{text}}} = print 'text' in monospaced font.
* text = make a bulleted list item with 'text'
# text = make a numbered list item with 'text'
;term:ex = make a definition for 'term' with the explanation 'ex'