

# Apache JSPWiki

# What Is Apache JSPWiki

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



# Short History

- Founded by Janne Jalakanen 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

Wiki	Language	Storage	Licence
MediaWiki	PHP	Database	GPL
DocuWiki	PHP	File System	GPL
TWiki	Perl	File System	GPL
XWiki	Java	Database	LGPL
JSPWiki	Java	File System	ASL

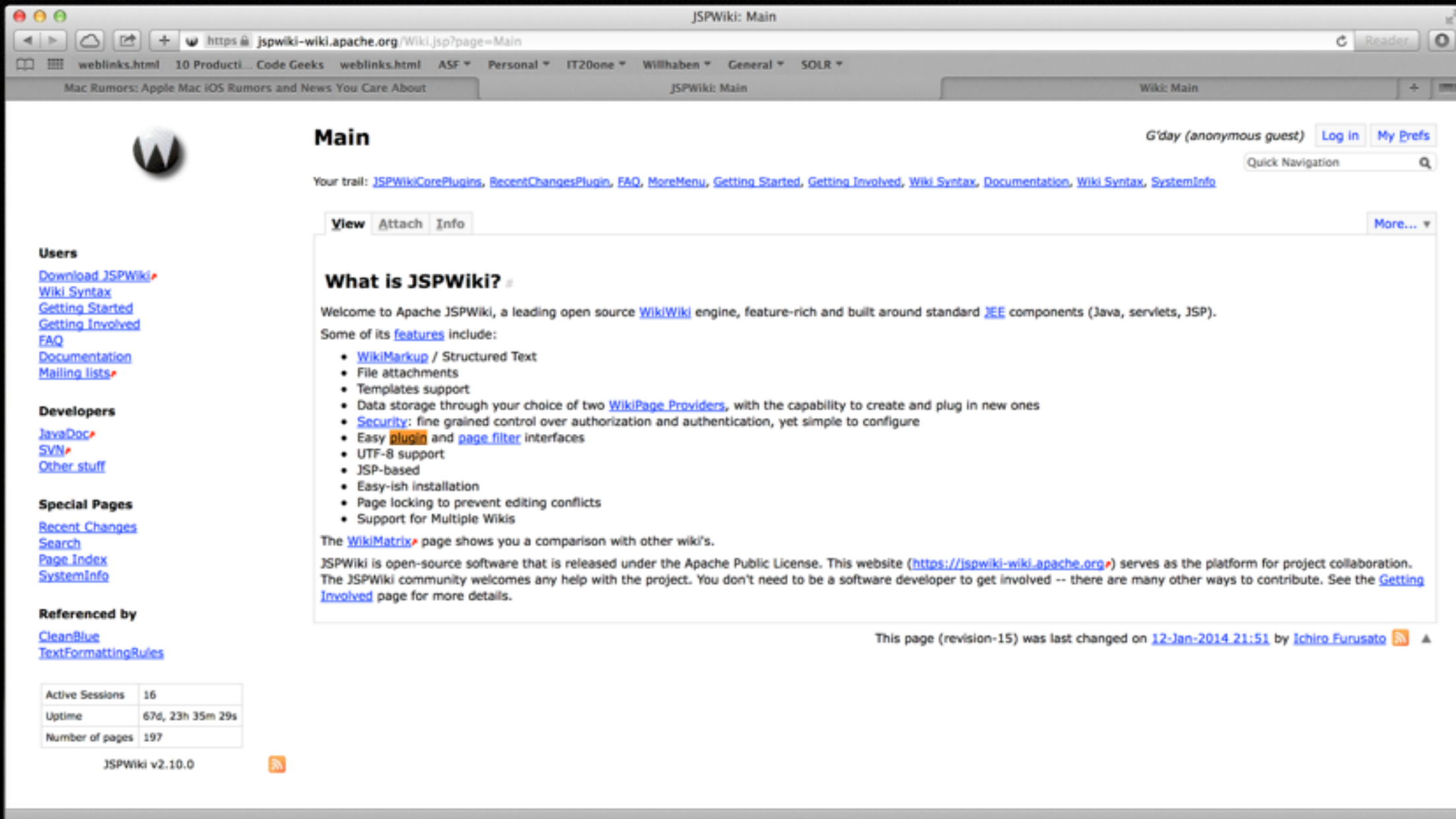
[www.wikimatrix.org](http://www.wikimatrix.org) list more than 100 different implementations

**„The most popular Wiki does  
not necessarily need to be the  
right Wiki for your needs!“**

Quote from [www.wikimatrix.org](http://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





Your trail: [Main](#), [WorkingOnTheCommandLine](#), [UsefulSSHCommands](#), [Main](#), [WorkingOnTheCommandLine](#), [UsefulShellCommands](#)

[View](#) [Attach](#) [Info](#)

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- [Unused pages](#)
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- [SystemInfo](#)

JSPWiki v2.10.1-svn-11

## Useful Git Commands #

### - Table of Contents

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### Setting up a Repository at GitHub #

In this example we create a 'jspwiki-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:sgoeschl/jspwiki-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 .
```



Save

Preview

Cancel

Change Note

## - Toolbar

H1 H2 H3

B I TT X<sup>2</sup> X<sub>2</sub> S

Undo

Redo

☐ Tab Completion (keyword+Tab) ☐ Smart Typing Pairs

Find

Replace

Replace

☐ Match Case

☐ RegExp

☒ Replace all

```
[{TableOfContents }]
```

```
!!! Generating a new SSH Key Pair
```

```
%%prettify
```

```
{{{
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
```

```
%%prettify
```

```
{{{
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

##### [Documentation](#)

- [CleanBlue](#)
- [Getting Started](#)
- [InstallingPlugins](#)
- [JSPWikiDocumentation](#)
- [LeftMenu](#)
- [NewIn2.10](#)

#### - Outgoing links

##### [Documentation](#)

- [Category.Documentation](#)
- [Getting Started](#)
- [Search](#)
- [Wiki Syntax](#)
- [Wiki.Admin.Security](#)
- [WikiFilters](#)

Version	Date Modified	Size	Author	Changes ...	Change note
( All ) ▾	( All ) ▾	( All ) ▾		( All ) ▾	( All ) ▾
<a href="#">7</a>	29-Mar-2014 17:36	3.078 kB	<a href="#">Harry Metske</a>	<a href="#">to previous</a>	<i>we dont have a jspwiki.properties anymore in the war</i>
<a href="#">6</a>	24-Feb-2014 18:07	3.471 kB	<a href="#">Harry Metske</a>	<a href="#">to previous</a>   <a href="#">to last</a>	<i>path =&gt; file</i>
<a href="#">5</a>	18-Jan-2014 09:03	3.471 kB	<a href="#">Harry Metske</a>	<a href="#">to previous</a>   <a href="#">to last</a>	<i>legacy link added (moved from main site)</i>
<a href="#">4</a>	05-Jan-2014 12:51	3.317 kB	<a href="#">Harry Metske</a>	<a href="#">to previous</a>   <a href="#">to last</a>	
<a href="#">3</a>	05-Jan-2014 12:33	3.272 kB	<a href="#">Harry Metske</a>	<a href="#">to previous</a>   <a href="#">to last</a>	
<a href="#">2</a>	04-Jan-2014 18:07	3.208 kB	<a href="#">Harry Metske</a>	<a href="#">to previous</a>   <a href="#">to last</a>	
<a href="#">1</a>	01-Jan-2014 13:23	3.201 kB	<a href="#">Harry Metske</a>	<a href="#">to last</a>	

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

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Only authorized users are allowed to delete pages.

[+ Incoming links](#)[+ Outgoing links](#)

- Difference between version  and

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).

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





Your trail: [Getting Involved](#), [JSPWikiCorePlugins](#), [RecentChangesPlugin](#), [FAQ](#), [MoreMenu](#), [Getting Started](#), [Getting Involved](#), [Wiki Syntax](#), [Documentation](#), [Wiki Syntax](#)

Enter your query here:

plugin

☐ Show details

Search Everywhere ▾

Find!

Go!

Search results for "plugin"

Try this same search on : [Google](#) | [Wikipedia](#)

Pagination: 1 2 3 Next all (Total items: 57 )

Page	Score
<a href="#">IfPlugin</a>	<div></div> 59
<a href="#">PluginTag</a>	<div></div> 57
<a href="#">JSPWikiPlugin</a>	<div></div> 53
<a href="#">WikiPlugin</a>	<div></div> 51
<a href="#">EvaluatePlugin</a>	<div></div> 51
<a href="#">SearchPlugin</a>	<div></div> 47
<a href="#">AbstractReferralPlugin</a>	<div></div> 46
<a href="#">OutlinePlugin</a>	<div></div> 46
<a href="#">SessionsPlugin</a>	<div></div> 46
<a href="#">ReferredPagesPlugin</a>	<div></div> 46
<a href="#">UndefinedPagesPlugin</a>	<div></div> 46

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





Your trail: [Main](#), [PageIndex](#), [SystemInfo](#)

**View** **Attach** **Inf**o

[Edit](#)

[More...](#) ▼

This is an alphabetical list of all pages in this Wiki.

[A](#) - [C](#) - [E](#) - [F](#) - [I](#) - [L](#) - [M](#) - [O](#) - [P](#) - [R](#) - [S](#) - [T](#) - [U](#) - [W](#)

## 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](#)

Your trail: [RecentChanges](#), [PageIndex](#), [LeftMenu](#), [Accordion Style](#), [LeftMenu](#), [UndefinedPagesPlugin](#), [JSPWikiCorePlugins](#), [UndefinedPagesPlugin](#), [LeftMenu](#), [UnusedPagesPlugin](#)

View

Attach

Info

More... ▼

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/photocollection.jar](#) 
- [ProgressBar/ProgressBar.java](#) 
- [ProgressBar/green.png](#) 

Your trail: [Main](#), [PageIndex](#)[View](#) [Attach](#) [Info](#)[More...](#) ▼

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.

**29.03.2014**

<a href="#">Getting Started</a>	<a href="#">17:41:23</a>	<a href="#">Harry Metske</a>	<i>we dont have a jspwiki.properties anymore in the war</i>
<a href="#">Documentation</a>	<a href="#">17:36:54</a>	<a href="#">Harry Metske</a>	<i>we dont have a jspwiki.properties anymore in the war</i>

**18.03.2014**

<a href="#">Testing JSPWIKI-830</a>	<a href="#">20:45:06</a>	<a href="#">Dirk Frederickx</a>	<i>more tests</i>
-------------------------------------	--------------------------	---------------------------------	-------------------

**28.02.2014**

<a href="#">HADDOCK Template/haddock.jpg</a> 	<a href="#">20:37:48</a>	<a href="#">Dirk Frederickx</a>	
<a href="#">HADDOCK Template</a>	<a href="#">20:34:53</a>	<a href="#">Dirk Frederickx</a>	
<a href="#">NewIn2.10</a>	<a href="#">20:28:20</a>	<a href="#">Dirk Frederickx</a>	

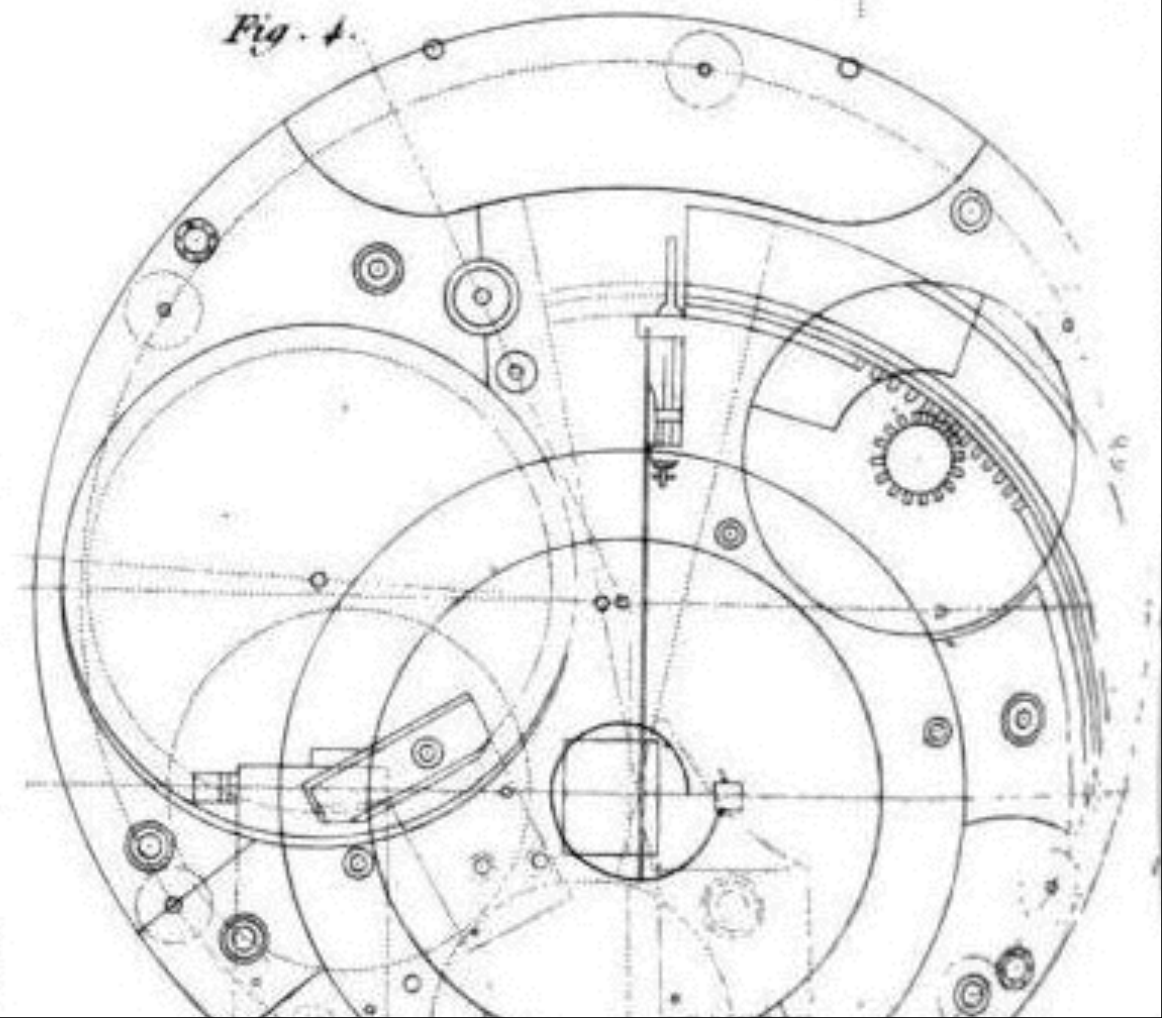
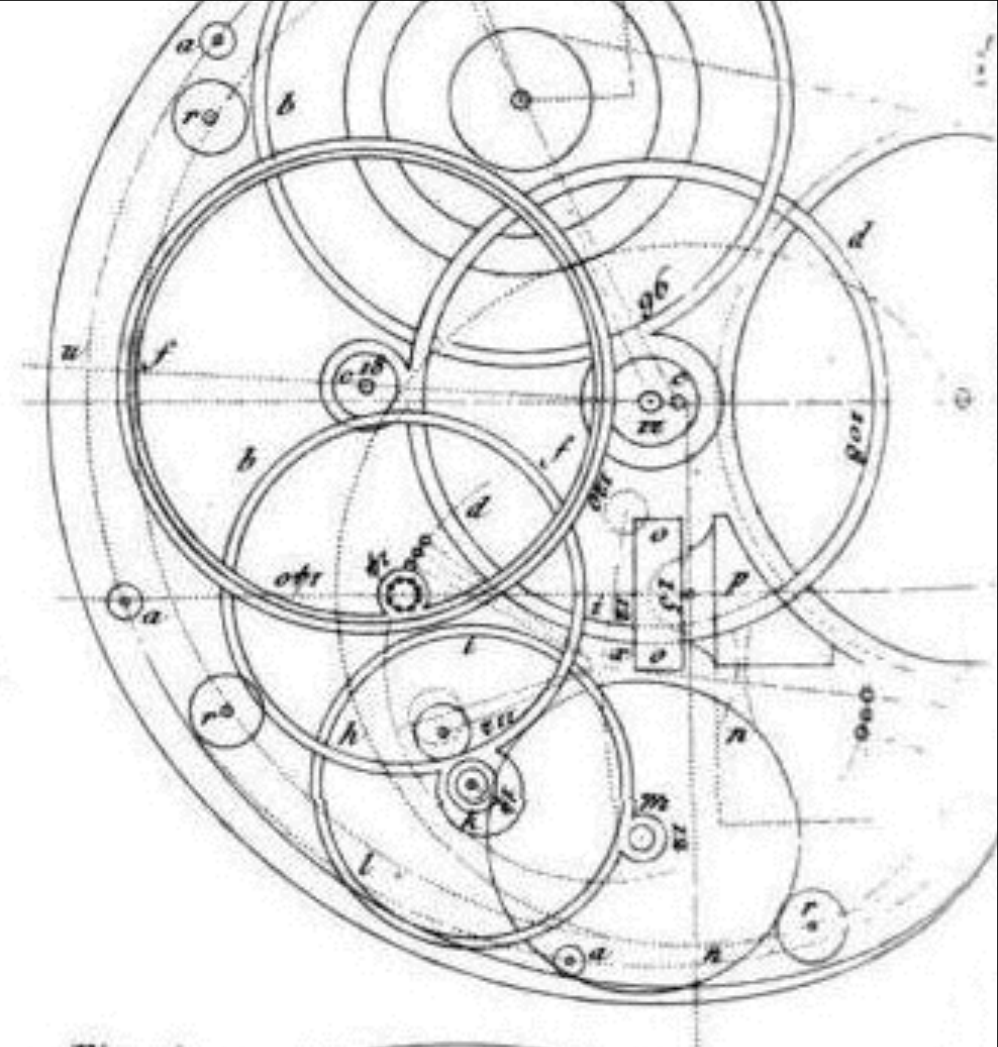
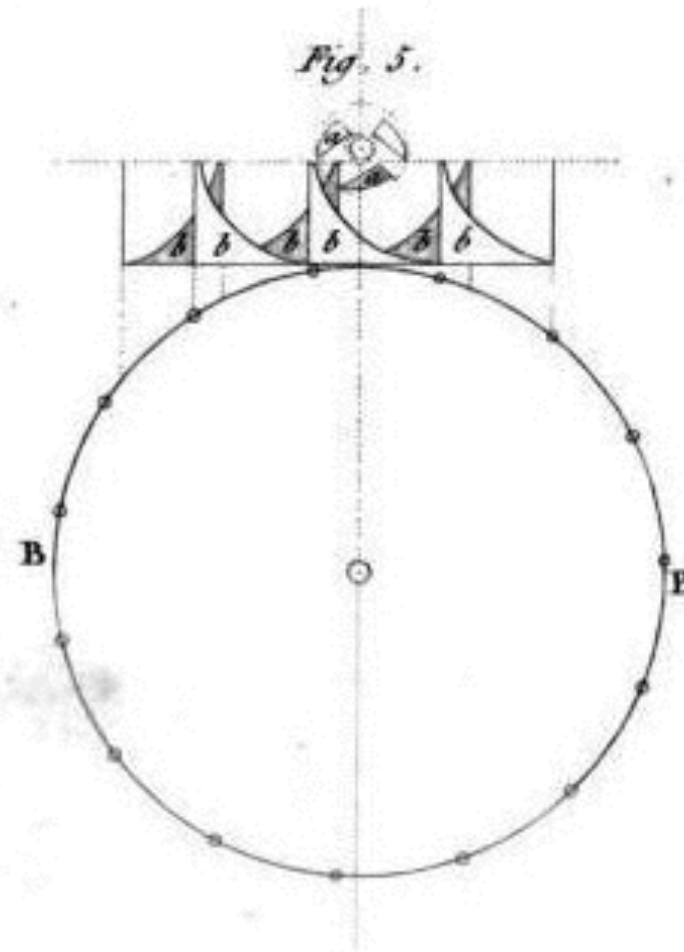
**20.02.2014**

<a href="#">PortableBinaries</a>	<a href="#">08:25:36</a>	Juan Pablo	
----------------------------------	--------------------------	------------	--

**12.02.2014**

<a href="#">Configuration</a>	<a href="#">13:33:02</a>	<a href="#">Dirk Frederickx</a>	<i>type on closing }}} bracket</i>
-------------------------------	--------------------------	---------------------------------	------------------------------------

# 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

[View](#)[Attach](#)[Info](#)[More...](#)

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.

## 31.03.2014

<a href="#">About</a>	<a href="#">13:07:16</a>	UnknownAuthor
<a href="#">Approval Required For Page Changes</a>	<a href="#">13:07:16</a>	UnknownAuthor
<a href="#">Approval Required For User Profiles</a>	<a href="#">13:07:16</a>	UnknownAuthor

# 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-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



# Portable JSPWiki

- Ready-to-use JSPWiki installation
- Apache Tomcat 7.0.52 as servlet container
  - ▶ Configured for small memory foot print
- 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

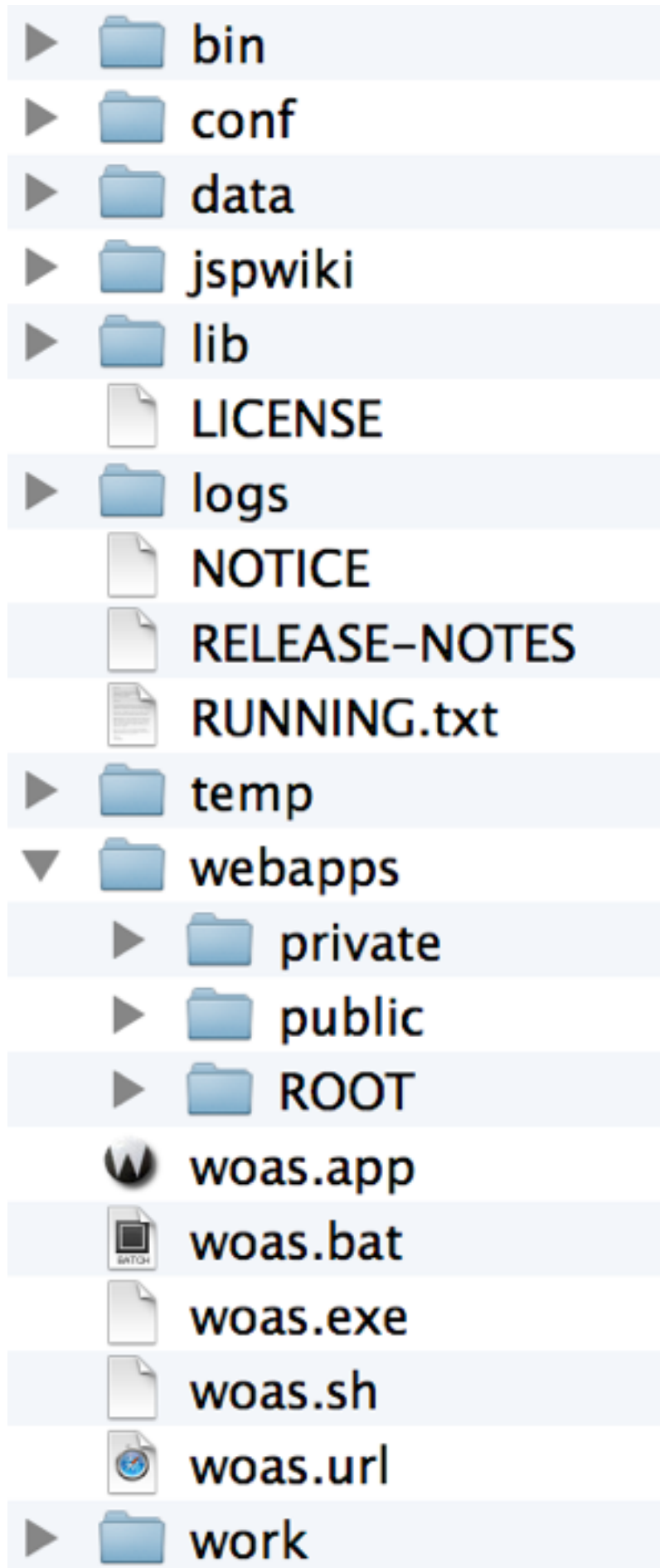
# The Private Wiki

- 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” , “IEtMeIn”
  - ▶ “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/](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

Anzeigen Anhänge (2) Info

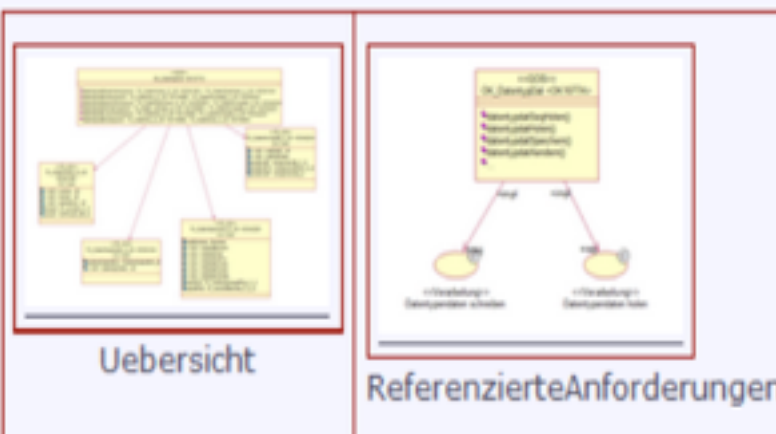
### Komponente <<OK>> OK\_Datentypendaten #

- 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 #


- [Analysemodell](#)
- [Prozesse](#)
- [Systeme](#)
- [Vorlagen](#)

### Design #

- [Typen](#)
- [Systeme](#)
  - [ESZ\\_Basissysteme](#)
    - [EF\\_Partnerverwaltung](#)
    - [EF\\_Berechtigung](#)
    - [EF\\_SEP-Referenz](#)
      - [AWG\\_FrameworkTest](#)
      - [GO\\_Framework-Test-Services](#)
      - [SG\\_FrameworkTest](#)
        - [OK\\_Datentypenda](#)







Anzeigen Info

 Zurück zu [OK\\_Datentypdaten 4BD7F31100A4](#) (Ursprungsseite)




## BOB Navigator #

- [Intro](#)
- [Aktuelle Informationen](#)
- [Statistik](#)

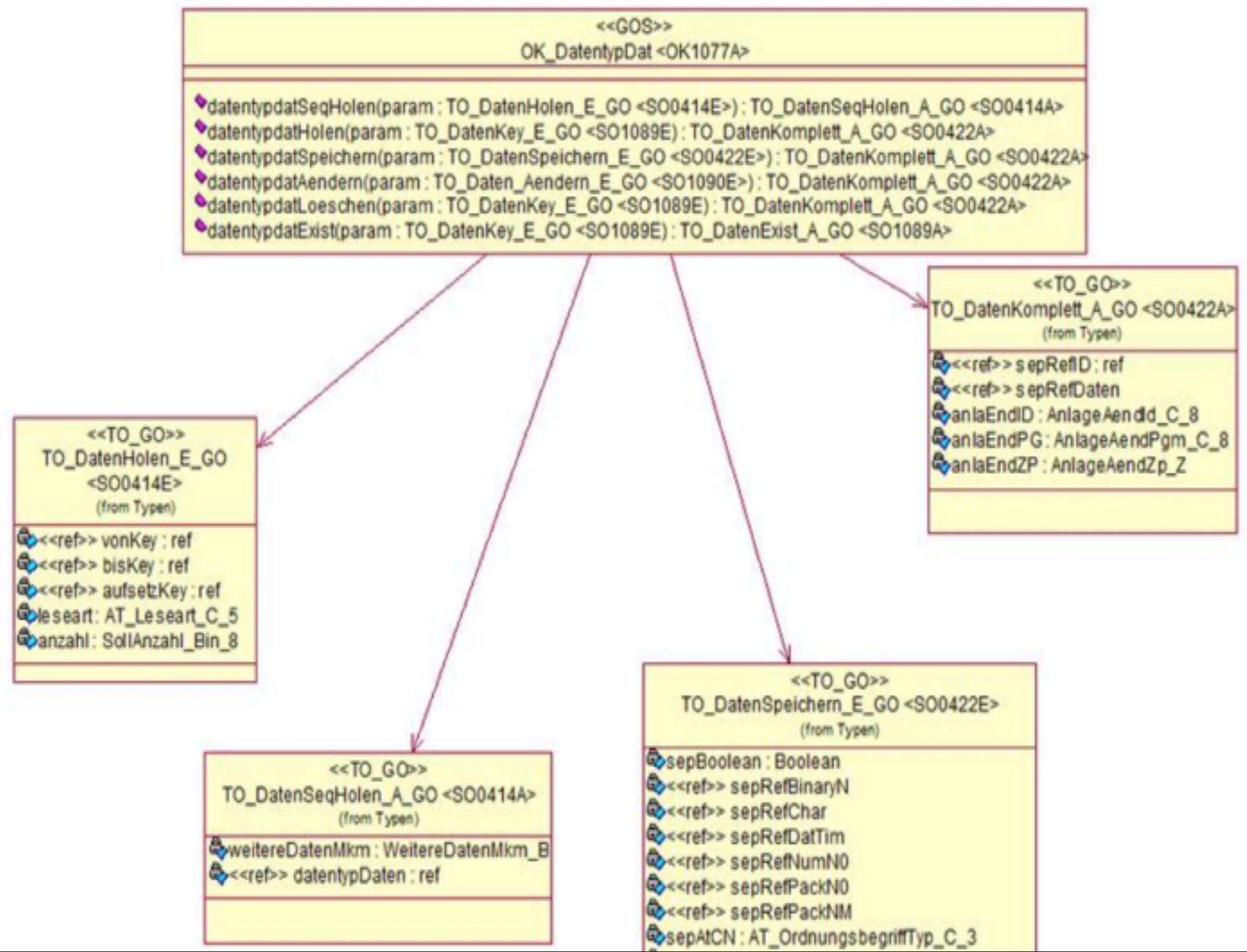
## Anforderungen #

-  [Analysemodell](#)
-  [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 Download - <http://people.apache.org/~sgoeschl/download/wikionastick/>
- JSPWiki Portable Git Repo - <https://github.com/sgoeschl/apache-jspwiki>
- JSPWiki Image Plugin - <https://jspwiki-wiki.apache.org/Wiki.jsp?page=Image>
- Wiki Matrix - <http://www.wikimatrix.org>
- nvAlt - <http://brettterpstra.com/projects/nvalt/>





Siegfried GOESCHL  
<http://people.apache.org/~sgoeschl/>

# 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 samplelink]	= 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]	= make a reference to a footnote numbered 1.
[#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'