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JIRA Plugin

Display JIRA issues using JQL search

JIRA issues can be displayed as a TWiki table, based on a JQL [🔗](#) (JIRA Query Language).

Introduction

JQL is JIRA Query Language for advanced search, which "allows you to use structured queries to search for JIRA issues." See the documentation [🔗](#) at the Atlassian's website for details.










With this plugin, you can specify any JQL and display the issues found by the search.

Example

```
%JIRA{
  "http://my-jira-server/jira"
  jql="project = xyz and status in (resolved, closed) "
}%
```

The specified URL should be the common prefix of all the contents in your JIRA server. For example, if a project's "browse" URL is `http://server/path/to/jira/browse/XYZ`, the common URL is likely to be `http://server/path/to/jira`.

The above example will generate a table of issues found by the JQL:

Type	Key	Assignee	Summary	Status	Priority
 Bug	XYZ-3	abcdef	A bug reported by a user	 Resolved	 Major
 Issue	XYZ-2	abcdef	A minor issue	 Closed	 Minor
 New Feature	XYZ-1	ghijkl	A new feature	 Resolved	 Minor

Fields

The columns to display can be selected by `fields` parameter.

```
%JIRA{
  "%JIRAURL%"
  jql="project = xyz and status in (resolved, closed) "
  fields="key, summary, updated"
}%
```

Key	Summary	Updated
XYZ-3	A bug reported by a user	17/Oct/2011
XYZ-2	A minor issue	12/Oct/2011
XYZ-1	A new feature	30/Sep/2011

The `fields` parameter accepts comma-separated list of the available fields below:

Name	Type	Name	Type	Name	Type
priority	Icon+Text	timeEstimate	Integer	timeEstimate	Text
status	Icon+Text	timeOriginalEstimate	Integer	timeOriginalEstimate	Text
project	LinkedText	timeSpent	List	timeSpent	Text
components	List	affectsVersions	List	aggregateTimeEstimate	Text
attachmentNames	List	description	Text	aggregateTimeOriginalEstimate	Text
reporter	UserName	environment	Text	aggregateTimeSpent	Text
key	LinkedText	date	Date		
assignee	UserName	resolution	Text		
summary	Text	type	Icon+Text		
updated	Date	duedate	Date		

💡 Custom fields such as "customfield_12345" can also be used as field names.

💡 "all" can be used as a field name to indicate all the fields including custom fields. This is useful to temporarily display the table to see all the available fields. If "all" is used together with any other fields (e.g. fields="id, status, all"), the "all" portion indicates all the *other* fields than the explicitly specified fields.

Field options

Each field name can be followed by an option to control the display format. For example, the type field is displayed as both icon and text like "🐛 Bug" by default, and it can be written as type_icon to display only the icon, or type_text to display only the text.

Below are all the available field options. In addition to these, for any of the fields, _raw or _id can be specified to use the raw value provided by the server.

Icon+Text

Option	Description
_mixed (default)	Icon + Text
_icon	Icon only
_text	Text only
_id or _raw	Integer ID

LinkedText

Option	Description
_mixed (default)	[[URL]][Text]
_url or _href	URL only
_text	Text only

UserName


Option	Description
_mixed (default)	[[URL]][FullName]
_url or _href	URL only
_text	FullName only
_id or _raw	UserName only

Date

Option	Description
_date (default)	DD/MMM/YYYY (e.g. 05/May/2011)
_long	YYYY-MM-DD HH:mm 'ZZZ'
_full	YYYY-MM-DD HH:mm:ss 'ZZZ'
_ts	Integer timestamp
_id or _raw	YYYY-MM-DD'T'HH:mm:ss.uuu'Z' (e.g. 2011-09-21T03:58:35.000Z), based on GMT

For the fields of the Date type, dateformat parameter can also be used to control how the dates are displayed (unless the explicit options such as _date, _full, etc. are used).

The date format follows the rule of strftime. In addition, since the percent sign (%) tends to collide with the TWiki syntax, the dollar sign (\$) can also be used instead of each percent sign. (For example, dateformat="\$Y-\$m-\$d \$H:\$M:\$S" or dateformat="\$F \$T")


 The timezone is based on the JIRA server, so that all the dates look the same as what are displayed in the JIRA pages.

Format

The way each JIRA issue is displayed can be customized by `header`, `format`, and `footer` parameters. The `format` parameter will be applied for each JIRA issue one by one.

In the parameters, a dollar sign (\$) followed by a field name (such as `$varname`; see above for field names) can be used as a variable that will be replaced by the actual value of the field. The format options such as `_icon` and `_mixed` can also be used.

```
%JIRA{
  "%JIRAURL%"
  jql="project = xyz and status in (resolved, closed)"
  format="---++++ $type_icon $key $n      * $summary $n      * $status $n"
}%
```

 You can omit `fields` parameter because the variables in `format` tell the plugin which fields you need.

The generated format will look as below:


XYZ-3

- A bug reported by a user
-  Resolved

XYZ-2

- A minor issue
-  Resolved

XYZ-1

- A new feature
-  Resolved

Special variables

In addition to the field variables, special variables are available:

Context	Variable	Description	*Type*	*Key*	...	=, <i>not</i> including the line break)
Anywhere	<code>\$header</code>	Represents a table header based on the fields (such as =				
Each issue	<code>\$row</code>	Represents a table row that would be generated by default (such as =	=, <i>not</i> including the line break)	
Each issue	<code>\$all</code>	Represents a table row corresponding to the special field name "all" (see the previous section for details). Any fields excluded from the field "all" (because				

Context	Variable	Description
		they are explicitly specified next to "all") will also be excluded from \$all.
Each issue	\$url	URL for browsing the issue
Anywhere	\$n	A line break
Anywhere	\$dollar	A dollar sign (\$)
Anywhere	\$percent	A percent sign (%)

Pagination

The JQL search results can be paginated, utilizing TWiki:TWiki.SearchResultsPagination.

```
%INCLUDE{"%SYSTEMWEB%.SearchResultsPagination" section="preamble"}%<nop>
%CALCULATE{$SET(limit, %URLPARAM{"limit" default="10"})}%<nop>
%JIRA{
  "http://my-jira-server/jira"
  jql="project = xyz"
  start="%CALCULATE{$GET(start)}%"
  limit="%CALCULATE{$GET(limit)}%"
  footer="$percentCALCULATE{$SET(ntopics, $total)}$percent"
}%
%INCLUDE{"%SYSTEMWEB%.SearchResultsPagination" section="postamble"}%<nop>
```

The two parameters `start` and `limit` control the pagination. (Default: `limit="10"` `start="0"`)

Pagination-related variables are available for `format`, `header`, `footer`, etc. as below:

Variable	Description
\$start	Starting index (0-based). Same as the <code>start</code> parameter.
\$end	Ending index (usually <code>start + limit</code> , except for the last page)
\$total	Total hits found by the JQL. It can be greater than <code>limit</code> .
\$result	Number of issues returned by the server for the current search (<code>limit</code> or less).
\$count	Number of issues in each group, if used in the <code>groupby</code> context. Otherwise, it is the same as <code>\$result</code> .

Grouping issues by a field

The JIRA issues found by JQL can be classified into multiple groups with `groupby` parameter. This parameter takes one field name, followed by an optional keyword `"asc"` or `"desc"` to specify the order (ascending or descending, respectively). If the ordering keyword is not specified, the result is based on the order of occurrence in the JQL result.

If the `groupby` parameter is specified, custom format can be specified by `groupheader` and `groupfooter` parameters, similarly to `header` and `footer` parameters.



In each of the group formatting parameters, the variable name for the `groupby` field can be used. For example (below), the variable `$status` can be used in the `groupheader` parameter because `groupby` is set to `"status"`. The field options such as `_icon` and `_text` are also available in the group formatting parameters.

Any issues that do not have the `groupby` field value will be excluded. In order to include those issues, `groupdefault` parameter can be specified as the default value (e.g. `groupby="version"` `groupdefault="(no version)"`).

```
%JIRA{
```

```
%JIRAURL%
jql="project = xyz"
fields="type_icon, key, summary, priority"
groupby="status asc"
groupheader="---++++ $status $n $header"
}%
```



In Progress

Type	Key	Summary	Priority
	XYZ-4	An improvement	 Major

Resolved

Type	Key	Summary	Priority
	XYZ-3	A bug reported by a user	 Major
	XYZ-1	A new feature	 Minor

Closed

Type	Key	Summary	Priority
	XYZ-2	A minor issue	 Minor

Troubleshooting

General troubles

If you encounter any troubles with your JQL query (e.g. if you see **400 Bad Request**), please try visiting your JIRA site and pasting the query in the *advanced search*. It might show you some useful error message.

The search form is found if you navigate from *Issues* -> *Search for Issues*, and then click on "advanced searching" (if you are in the "simple searching" mode).

Issues are not found

Sometimes, JQL may not seem to work with something simple like `type = Bug` and `status in (Resolved, Completed)`. It is probably because your JIRA instance uses custom values, such as "Task Completed", "Intermittent Bug", etc., which may *seem* to be the same things as `Completed`, `Bug`, etc. but are not the same.

When you have difficulty, try using the `fields="all"` to dump the matched results temporarily in your TWiki page. Alternatively, visit your JIRA site and paste the query in the advanced search, as it is likely you can find more information there (see above on how to try the advanced search).

As documented in the Atlassian's website, the safest way is to use an integer value (no matter how it looks cryptic). If you think your custom values will not change that often, you can use the text value in full, but remember that, if somebody ever modifies the custom value on the JIRA side, then your JQL query will stop working all of a sudden.

Double quotes in JQL


Although the "advanced search" may suggest to use double quotes for multi-word values, TWiki does not allow you to use it inside the `jql="..."` parameter.

Please either escape the double quotes, or use single quotes instead:

```
%JIRA{... jql="status = \"blah blah blah\""}%
%JIRA{... jql="status = 'blah blah blah'"}%
```

WikiName breaks a hyperlink

If any of the value contains a WikiName (such as "ReOpened"), it may be converted in an unintended way:

Status
 ReOpened"/> 0 - ReOpened

In this case, please use the <noautolink> tag:

```
<noautolink>
%JIRA{
  ...
}%
</noautolink>
```

Parameter Reference

Query parameters

Name	Description
(default) *	Common URL prefix for the JIRA server. The above example demonstrates how to specify the correct URL.
jql *	JQL query (see Advanced Searching for details)
limit	Limit the number of JIRA issues found by the JQL. (default = "10")
start	Offset index (0-based) for pagination. (default = "0")
timeout	Timeout in seconds for retrieving the results from the JIRA server. (default = "20")

* denotes required fields.

Formatting parameters

Name	Description
fields	Comma-separated list of field names to specify columns (default = "type, key, assignee, summary, status, priority")
header	Header format. (default = "\$header" unless format is provided)
format	Record format, applied for each row of a JIRA issue
footer	Footer format.
separator	Separator between each row. (default = "\$n" unless format ends with "\$n"; otherwise default = "")
dateformat	Date format (strftime), where the dollar sign (\$) can also be used instead of each percent sign (%)
icons	Specify "off" to turn off icons unless <code>_icon</code> or <code>_mixed</code> options are explicitly used. (default = "on")

Grouping parameters

Name	Description
groupby	Comma-separated list of field names to group the results by
grouplimit	Limit the number of issues in each group. (default = no limit; i.e. limit is only based on the <code>limit</code> parameter)
groupheader	Header format for each group

Name	Description
groupfooter	Footer format for each group
groupseparator	Separator between each group of rows
groupdefault	Default value for the field given for groupby, so as not to exclude issues that do not have the values

Installation Instructions

Note: You do not need to install anything on the browser to use this plugin. The following instructions are for the administrator who installs the plugin on the TWiki server.

Show details  Hide details 

- For an **automated installation**, run the configure script and follow "Find More Extensions" in the in the **Extensions** section.
 - ♦ See the installation supplement [on TWiki.org](#) for more information.

- Or, follow these **manual installation** steps:
 - ♦ Download the ZIP file from the Plugins home (see below).
 - ♦ Unzip **JiraPlugin.zip** in your twiki installation directory. Content:

File:	Description:
data/TWiki/JiraPlugin.txt	Plugin topic
data/TWiki/VarJIRA.txt	JIRA variable documentation topic
lib/TWiki/Plugins/JiraPlugin.pm	Plugin Perl module
lib/TWiki/Plugins/JiraPlugin/Handler.pm	Perl module
lib/TWiki/Plugins/JiraPlugin/Client.pm	Perl module
lib/TWiki/Plugins/JiraPlugin/Field.pm	Perl module
pub/TWiki/JiraPlugin/*gif	Image files

- ♦ Set the ownership of the extracted directories and files to the webserver user.
- ♦ Install the dependencies.
- Plugin **configuration and testing**:
 - ♦ Run the configure script and enable the plugin in the **Plugins** section.
 - ♦ Configure additional plugin settings in the **Extensions** section if needed.
 - ♦ Test if the installation was successful using the example above.
- **Documentation hook**:
 - ♦ Set JIRAPLUGIN_SUPPLEMENT variable to a topic name to **include** the topic as a supplemental documentation at the top of this page (e.g. intranet-specific notice). It is expected to configure the JIRAPLUGIN_SUPPLEMENT variable in the preference topic of `$cfg{LocalSitePreferences}` (or `Main.TWikiPreferences` by default) so that it is effective when this documentation is displayed.

Plugin Info

One line description for extensions repository catalog:

- Set SHORTDESCRIPTION = Display JIRA issues using JQL search

Many thanks to the following sponsors for supporting this work:

- Morgan Stanley [↗](#)

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Show Change History [▶](#) Hide Change History [▼](#)

Change History:	
2013-03-15:	TWikibug:Item7194 ↗ : Search result pagination -- TWiki:Main.MahiroAndo ↗
2013-03-08:	TWikibug:Item7154 ↗ : Fix a minor doc bug -- TWiki:Main.MahiroAndo ↗
2013-02-01:	TWikibug:Item6991 ↗ : Fix a minor issue in error message when a wrong URL is specified -- TWiki:Main.MahiroAndo ↗
2012-11-13:	TWikibug:Item7020 ↗ : Categorize TWiki Variable JIRA -- TWiki:Main.PeterThoeny ↗
2012-10-31:	TWikibug:Item6991 ↗ : Use updated <code>TWiki::Func::getExternalResource()</code> instead - TWiki:Main.MahiroAndo ↗
2012-10-16:	TWikibug:Item6991 ↗ : Leverage <code>TWiki::Func::getLWPRequest()</code> - TWiki:Main.MahiroAndo ↗
2012-10-05:	TWikibug:Item6953 ↗ : Add VarJIRA
2012-09-21:	TWikibug:Item6940 ↗ : Initial version
Dependencies:	CPAN:Date::Parse ↗ , CPAN:DateTime ↗ , CPAN:LWP::UserAgent ↗ , CPAN:Sort::Versions ↗ , CPAN:XML::LibXML ↗
Plugin Home:	http://twiki.org/cgi-bin/view/Plugins/JiraPlugin ↗
Feedback:	http://twiki.org/cgi-bin/view/Plugins/JiraPluginDev ↗
Appraisal:	http://twiki.org/cgi-bin/view/Plugins/JiraPluginAppraisal ↗

Related Topics: [VarJIRA](#), [TWikiPlugins](#), [DeveloperDocumentationCategory](#), [AdminDocumentationCategory](#), [TWikiPreferences](#)

This topic: [TWiki > JiraPlugin](#)

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