


Smart text field use cases


The list below contains some use cases that can be realized using **Smart text fields**.


Make sure to come by once in a while since the number of use cases will grow over time.

For all examples marked with a , you do not even have to copy and paste the code. Simply search for the field in the [expression editor](#).








Use cases and examples

Use case	Built-in	Parsing mode	Expression
All email addresses mentioned in the issue description		General	<pre>%{findPattern(%{issue.description}, "(?<=mailto:)([a-zA-Z0-9._-]+@[a-zA-Z0-9._-]+\.[a-zA-Z0-9_-]+)")}</pre>
Assignee groups		Jira expression	<pre>issue.assignee?.groups ""</pre>
Attachment authors		Jira expression	<pre>issue?.attachments?.reduce((result,att) => result.set(att.author.displayName,""), new Map()).entries().flatten().filter(entry => entry != "")</pre>
Attachment filenames 		General	<pre>%{issue.attachments}</pre>
Attachment mimetypes		Jira expression	<pre>issue?.attachments?.reduce((result,att) => result.set(att.mimeType,""), new Map()).entries().flatten().filter(entry => entry != "")</pre>
Comment authors		Jira expression	<pre>issue.comments.reduce((result, comment) => result.set(comment.author.displayName, ""), new Map()).entries().flatten().filter(entry => entry != "")</pre>
Components from all sub-tasks		General	<pre>%{distinct(fieldValue(%{issue.components}, subtasks()))}</pre>

Creation date of the linked epic	Jira expression	<pre>issue?.epic ? issue?.epic.created.toCalendarDate().toString() : ""</pre>
Field value validation	General	<pre>%{matches(%{issue.cfnnnnn}, "6 7 8 9") ? "Valid":"Invalid"}</pre> <p>The values entered as arguments in the <i>matches()</i> parser function can be replaced with different values or with a regular expressions to validate differently the value of the custom field.</p> <p>Please, note that it is necessary to replace <i>nnnnn</i> with the ID of the custom field.</p>
First comment	Jira expression	<pre>issue?.comments[0]?.body?.plainText == null ? '' : issue?.comments[0]?.body?.plainText</pre> <p>The text will be returned using wiki markup, e.g. bold text will be shown as <i>*bold text*</i>.</p>
First comment author	Jira expression	<pre>issue?.comments[0]?.author?.displayName</pre>
Historical due dates	Jira expression	<pre>issue.changelogs.filter(changelog => changelog.items.some(item => item.fieldId == 'duedate' && item.from != null)).map(changelog => {duedateentry: changelog.items.filter(item => item.fieldId == 'duedate' })).map(e => new CalendarDate(e.duedateentry[0].from).toString()).join(", ")</pre>
Issue ID	 General	<pre>%{issue.id}</pre>
Issue type description	Jira expression	<pre>issue?.issueType?.description</pre>
Keys of linked issues in current project	General	<pre>%{filterByProject(linkedIssues(), %{issue.project.key})}</pre>
Keys of non-estimated sub-tasks	Jira expression	<pre>issue.subtasks.filter(s => s?.originalEstimate == null && s?.customfield_nnnnn == null).map(i => i.key).join(", ")</pre> <p>Please, note that it is necessary to replace <i>nnnnn</i> with the ID of the custom field displaying the original estimate or story points.</p>

Last assignee change author		Jira expression	<pre>issue.changelogs.filter(changelog => changelog.items.some(item => item.fieldId == 'assignee')).map(changelog => changelog.author.displayName)[0] ""</pre>
Last comment	✓	General	<pre>%{issue.lastComment}</pre>
Last comment author		Jira expression	<pre>issue?.comments[issue?.comments?.length-1]?.author?.displayName ""</pre>
Last status change author		Jira expression	<pre>issue.changelogs.filter(c=>c.items.some(i=>i.field=="status"))[0]?.author?.displayName ""</pre>
Last status change date		Jira expression	<pre>issue.changelogs.filter(changelog => changelog.items.some(item => item.fieldId == 'status')).map(changelog => changelog.created).concat(issue.created)[0].toString()</pre>
Lowest date and time from linked issues		Jira expression	<pre>let minDate = issue?.links.map(link => link.linkedIssue.customfield_nnnnn).filter(d => d != null); minDate.length > 0 ? new Date(minDate.reduce((a, b) => a < b ? a : b)).toString() : ""</pre>
			Please, replace <i>nnnnn</i> with the ID of a Date Time Picker custom field.
Lowest date from linked issues		Jira expression	<pre>let minDate = issue?.links.map(link => link.linkedIssue.customfield_nnnnn).filter(d => d != null); minDate.length > 0 ? new CalendarDate(minDate.reduce((a, b) => a < b ? a : b)).toString() : ""</pre>
			Please, replace <i>nnnnn</i> with the ID of a Date Picker custom field.
Parent assignee	✓	General	<pre>%{parent.assignee.displayName}</pre>
Parent priority	✓	General	<pre>%{parent.priority}</pre>
Parent reporter	✓	General	<pre>%{parent.reporter.displayName}</pre>

Parent status		General	<code>%{parent.status}</code>
Percentage of completed child issues		Jira expression	<pre>let children = (issue.isEpic ? issue.stories : issue.subtasks); children.length ? (children.filter(child => child.resolution).length / children.length * 100 + '').slice(0, 4) + '%' : ''</pre>
Previous assignee		Jira expression	<pre>issue.changelogs.map(i=>i.items).flatten().filter(i=>i.field=="assignee").length>0 ? issue.changelogs.map(i=>i.items).flatten().filter(i=>i.field=="assignee").map(a=>a.fromString)[0] : ""</pre>
Previous issue status		General	<code>%{issue.status.previous}</code>
Previous reporter		Jira expression	<pre>let reporters= issue.changelogs.map(i=>i.items).flatten().filter(i=>i.field=="reporter"); reporters.length>0 ? reporters.map(a=>a.fromString)[0] == null ? "" :reporters.map(a=>a.fromString)[0]</pre>
Priority description		Jira expression	<code>issue?.priority?.description</code>
Project category of issue		General	<code>%{issue.project.category}</code>
Project description		General	<code>%{issue.project.description}</code>
Project lead		General	<code>%{issue.project.leadDisplayName}</code>
Status description		Jira expression	<code>issue?.status?.description</code>
Sub-task assignees		General	<code>%{distinct(fieldValue(%{issue.assignee.displayName}, subtasks()))}</code>
Sub-task labels		General	<code>%{distinct(fieldValue(%{issue.labels}, subtasks()))}</code>

Sub-task reporters	General	<pre>%{distinct(fieldValue(%{issue.reporter.displayName}, subtasks()))}</pre>
Timely resolution assessment	General	<pre>%{{issue.resolutionDate} != null AND {issue.dueDate} != null ? ({issue.resolutionDate} <= {issue.dueDate} ? "Yes" : "No") : (datePart({system.currentDateTime}, RUN_AS_LOCAL) > {issue. dueDate} ? "No" : "")}</pre>