


Smart number field use cases

The list below contains some use cases that can be realized using **Smart number 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
Average time since creation of sub-tasks		General	<pre>{floor(avg(toNumberList(jiraExpression("issue.subtasks.map(i=>(Number(new Date())-Number(i.created))/1000/60/60/24)"))))}</pre>
Completion percentage by status		General	<pre>%{%{issue.status} = "Open" ? 0 : (%{issue.status} = "Planning" ? 0.15 : (%{issue.status} = "In Progress" ? 0.6 : (%{issue.status} = "In Review" ? 0.6 : (%{issue.status} = "Implementing" ? 0.85 : 1)))) }</pre>
Please, replace the status names as well as the completion percentages with the ones of your choice. Any status not included in the sequence will return 1.			
Difference between the current day and the earliest sub-task due date		General	<pre>{max(fieldValue({issue.dueDate},subtasks())) != null ? ceil((min(filterByValue(fieldValue({issue.dueDate},subtasks()),!=, null)) - {system.currentDateTime}) / DAY) : null}</pre>
Elapsed time between creation and resolution		General	<pre>%{{issue.resolutionDate} != null ? (({issue.resolutionDate} - {issue.created}) / DAY) : null}</pre>
The duration can be returned in years, weeks, days, hours or minutes if the DAY keyword is replaced in the above expression with the corresponding time constant .			
Highest value out of several fields		General	<pre>{max([{issue.cfAAAAA}, {issue.cfBBBBB}, {issue.cfCCCCC}, {issue.cfDDDDD}, {issue.cfEEEEEE}])}</pre>
Please, replace the field codes with the ones of your choice.			

ICE score	Jira expression	<pre>(issue?.customfield_IIIII 0) * (issue?.customfield_CCCCC 0) * (issue?.customfield_EEEEE 0)</pre> <p>Replace the IDs with the ones of your number custom fields Impact (IIIII), Confidence (CCCCC) and Ease (EEEEEE).</p>
Months elapsed	General	<pre>%{{issue.cfnnnnn} != null ? ((year({system.currentDateTime}, RUN_AS_LOCAL) - year({issue.cfnnnnn}, RUN_AS_LOCAL))*12 + month({system.currentDateTime}, RUN_AS_LOCAL) - (month({issue.cfnnnnn}, RUN_AS_LOCAL))) : null}</pre> <p>Please, replace both <i>nnnnn</i> in the above expression with the ID of your Date Picker custom field.</p>
Number of affected versions 	General	<pre>%{issue.versions.length}</pre>
Number of assignee changes	Jira expression	<pre>issue.changelogs.filter(changelog => changelog.items.some(item => item.fieldId == 'assignee')).length</pre>
Number of attachment authors	Jira expression	<pre>issue.attachments.map(attachment => attachment.author.accountId).reduce((a, b) => a.includes(b) ? a : a.concat(b), []).length</pre>
Number of attachments 	General	<pre>%{issue.attachments.length}</pre>
Number of attachments in sub-tasks	Jira expression	<pre>issue.subtasks.map(subtask => subtask.attachments.length).reduce((a, b) => a + b, 0)</pre>
Number of comment authors	Jira expression	<pre>issue.comments.map(comment => comment.author.displayName).reduce((a, b) => a.includes(b) ? a : a.concat(b), []).length</pre>
Number of comments	Jira expression	<pre>issue?.comments?.length</pre>
Number of components	Jira expression	<pre>issue.components.length</pre>

Number of days in previous status	Jira expression	<pre>let statusChangelogs = issue.changelogs.filter(changelog => changelog.items.some(item => item.fieldId == 'status')); statusChangelogs[0] ? (statusChangelogs[0].created.getTime() - (statusChangelogs[1] ? statusChangelogs[1].created : issue.created).getTime()) / (24*60*60*1000) : null</pre>
Number of fix versions	General	<pre>%{issue.fixVersions.length}</pre>
Number of incoming issue links	Jira expression	<pre>issue?.links?.filter(link => link.direction == "inward").length</pre>
Number of issues under epic	Jira expression	<pre>issue.stories?.length</pre>
Number of issues under epic including sub-tasks	General	<pre>%{%{issue.issueType} = "Epic" ? count(append(issuesUnderEpic(), subtasks(issuesUnderEpic()))) : null }</pre>
Number of issues with the same fix versions	General	<pre>%{%{issue.fixVersions} != null ? count(issuesFromJQL("fixVersion in ('" + jiraExpression("issue?.fixVersions?.map(v => v?.name).join('\\','\\\") + "') ") : null}</pre>
Number of labels 	General	<pre>%{issue.labels.length}</pre>
Number of linked issues 	General	<pre>%{issue.links.length}</pre>
Number of open child issues	General	<pre>%{count(issuesFromJQL("statusCategory in ('To Do','In Progress') and parent = " + %{issue.key})))}</pre>
Number of outgoing issue links	Jira expression	<pre>issue?.links?.filter(link => link.direction == "outward").length</pre>
Number of status changes	Jira expression	<pre>issue.changelogs.filter(changelog => changelog.items.some(item => item.fieldId == 'status')).length</pre>
Number of sub-tasks 	General	<pre>%{issue.subtasks.length}</pre>

Number of sub-tasks based on status	General	<pre>%{count(filterByStatus(subtasks(), "Done, Completed"))}</pre>
		<p>Please, note that by changing "Done, Completed" into other statuses and resolutions you can adapt this use case for your needs.</p>
Number of sub-tasks based on status and issue type	General	<pre>%{count(filterByIssueType(filterByStatus(subtasks(), "Done, Completed"), "Sub-task, Sub-story"))}</pre>
		<p>Please, note that by changing "Done, Completed" into other statuses and "Sub-task, Sub-story" into other issue types, you can adapt this use case for your needs.</p>
Number of times issue was changed to the current status	Jira expression	<pre>issue.changelogs.filter(changelog => changelog.items.some(item => item.fieldId == 'status' && item.toString == issue?.status?.name)).length</pre>
Number of times that a custom field has been changed	Jira expression	<pre>issue.changelogs.filter(changelog => changelog.items.some(item => item.fieldId == 'customfield_nnnnn')).length</pre>
		<p>Please, replace <i>nnnnn</i> with the ID of your custom field in the above expression.</p>
Number of times that an issue was rejected	Jira expression	<pre>issue.changelogs.filter(changelog => changelog.items.some(item => item.fieldId == 'resolution' && item.toString == 'Rejected')).length</pre>
		<p>In case you have other statuses and resolutions, feel free to change these arguments: " item.fieldId == resolution && item.toString == Rejected"</p>
Number of unresolved blocking issues	General	<pre>%{count(filterByResolution(linkedIssues("is blocked by"), ""))}</pre>
Operations with field values from sub-tasks	Jira expression	<pre>issue.subtasks.length && issue.subtasks.map(s => (s.customfield_nnnnn 0) * (s.customfield_ppppp 0)).reduce((a, b) => a + b)</pre>
		<p>Please, replace <i>nnnnn</i> and <i>ppppp</i> in the above expression with the IDs of the Number fields.</p>

Priority assessment based on field values	General	<pre>%{sum([%{issue.cfnnnnn} = "Option 1" ? 1 : 0, %{issue.cfppppp} = "Option 1" ? 1 : 0])}</pre>
		Please, replace <i>nnnnn</i> and <i>ppppp</i> with the IDs of the custom fields, e.g. Select List (single choice).
Remaining budget	General	<pre>%{{issue.cfnnnnn} = null ? null : {issue.cfnnnnn} - sum(append(fieldValue({issue.cfppppp}, subtasks()), [0]))}</pre>
Sum of field values from issues in JQL query	General	<pre>%{sum(fieldValue({issue.cfnnnnn},issuesFromJQL("project = DEMO and 'fieldName' is not empty")))}</pre>
		Please, replace <i>nnnnn</i> in the above expression with the ID of the Number custom field and <i>fieldName</i> with its name.
Sum of original estimates of issues under epic's parent	General	<pre>%{%{issue.issueType} = "Initiative" ? sum(append(fieldValue({issue.originalEstimate} , union(issuesFromJQL("issuekey in portfolioChildIssuesOf("+ %{issue.key} +")"), issuesUnderEpic (issuesFromJQL("issuekey in portfolioChildIssuesOf("+ %{issue.key} +")"))), [0])) / 60 : null}</pre>
		We consider the epic's parent to be a Initiative in this expression, but it could differ depending on the Advanced Roadmaps issue type hierarchy. To adapt to your issue type hierarchy change the following part of the expression: " %{issue.issueType} = "Your Custom Issue Type" "
Sum of story points of completed child issues	General	<pre>%{sum(fieldValue({issue.cfnnnnn},issuesFromJQL("statusCategory = Done AND 'parent' = "+%{issue.key})))}</pre>
		Replace "nnnnn" with the ID of the story points field. Keep in mind, that this smart fields should be displayed on a parent issue.
Sum of story points of completed sibling issues	General	<pre>%{sum(fieldValue({issue.cfnnnnn},issuesFromJQL("statusCategory = Done AND 'parent' = "+%{parent.key})))}</pre>
		Replace "nnnnn" with the ID of the story points field. Keep in mind, that this smart fields should be displayed on a child issue.

Sum of time spent of blocking issues	General	<pre>%{sum(append(fieldValue({issue.timeSpent},linkedIssues("is blocked by")), [0]))/60}</pre>
		<p>If the resulting number from the expression contains too many decimal numbers, feel free to select one of the available display formats or to configure it manually.</p>
Sum of time spent of epic and issues under it	General	<pre>%{%{issue.issueType} = "Epic" ? (sum(append(fieldValue({issue.timeSpent}, issuesUnderEpic()), [{issue.timeSpent}])) / 60) : null}</pre>
		<p>If the resulting number from the expression contains too many decimal numbers, feel free to select one of the available display formats or to configure it manually.</p>
Sum of time spent of linked issues under epic	General	<pre>%{%{issue.issueType} = "Epic" ? sum(append(fieldValue({issue.timeSpent}, issuesUnderEpic()), [0])) / 60 : null}</pre>
		<p>If the resulting number from the expression contains too many decimal numbers, feel free to select one of the available display formats or to configure it manually.</p>
Sum of time spent of linked issues	General	<pre>%{sum(append(fieldValue({issue.timeSpent}, linkedIssues()), [0])) / 60}</pre>
Sum of time spent of the current and linked issues	General	<pre>%{sum(append(fieldValue({issue.timeSpent}, union(linkedIssues(), issueKeysToIssueList(%{issue.key})), [0])) / 60}</pre>
Time left until due date	General	<pre>%{{issue.dueDate} != null ? max({issue.dueDate} - {system.currentDateTime}, 0) / DAY : null}</pre>
Time since creation	General	<pre>%{floor(({system.currentDateTime} - {issue.created})/DAY)}</pre>
		<p>The duration can be returned in years, weeks, days, hours or minutes if the DAY keyword is replaced in the above expression with the corresponding time constant.</p>
Time spent ratio	General	<pre>%{%{issue.originalEstimate} != null AND %{issue.timeSpent} != null ? {issue.timeSpent} / {issue.originalEstimate} * 100 : null}</pre>
Total attachment size in MB	Jira expression	<pre>issue.attachments.reduce((result, att) => result + att.size, 0) / 1024 / 1024</pre>

Total original estimate of blocking issues	General	<pre>%{sum(fieldValue({issue.originalEstimate},linkedIssues("is blocked by")))/60}</pre>
		<p>If the resulting number from the expression contains too many decimal numbers, feel free to select one of the available display formats or to configure it manually.</p>
Total remaining estimate of blocking issues	General	<pre>%{sum(append(fieldValue({issue.remainingEstimate},linkedIssues("is blocked by")),[0]))/60}</pre>
		<p>If the resulting number from the expression contains too many decimal numbers, feel free to select one of the available display formats or to configure it manually.</p>
Total remaining estimate of issues under epic	General	<pre>%{%{issue.issueType} = "Epic" ? sum(append(fieldValue({issue.remainingEstimate}, issuesUnderEpic()), [0])) / 60 : null}</pre>
Total remaining estimate of issues under epic and sub-tasks	General	<pre>%{%{issue.issueType} = "Epic" ? sum(append(fieldValue({issue.remainingEstimate}, union(issuesUnderEpic(), subtasks(issuesUnderEpic()))), [0])) / 60 : null}</pre>
Total story points of issues in an epic	General	<pre>%{sum(fieldValue({issue.cfNNNNN}, issuesUnderEpic()))}</pre>
		<p>Replace the ID with the one of your 'Story Points' custom field.</p>