

## Redmine - Defect #33432

### Rendering of Macros with (empty) text parameter different in preview and non preview mode

2020-05-11 13:57 - Holger Mößinger

<b>Status:</b>	Confirmed	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>	Text formatting	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	Candidate for next minor release	<b>Affected version:</b>	4.0.0
<b>Resolution:</b>			

#### Description

Macros with empty text parameter are rendered differently in preview mode vs. non preview mode.

The preview mode seems to parse the the closing double curly brackets as text parameter and does not stop until the next macros double curly brackets, while the non preview mode parses an empty text parameter.

The sample code below shows demonstrates this with the collapse macro, but it happens for any macro which allows a text parameter and the two attached images.

This might be an issue with a greedy regular expression.

Test code for the bug in Redmine 4.x

```
{{collapse(Collapse 1)}}
```

Above is a empty collapse macro which renders correctly in preview and in wiki view.

```
{{collapse(Collapse 2)
}}
```

Above is a empty collapse macro which renders correctly in wiki view but this text (and the following macro up to its closing curly brackets) will not be visible in preview mode.

```
{{collapse(Collapse 3)
This is a block of text that is collapsed by default.
It can be expanded by clicking a link.
}}
```

Above is a non empty collapse macro which renders correctly in preview and in wiki view.

Test code for the bug in Redmine 4.x

```
{{collapse(Collapse 1)}}
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{{collapse(Collapse 2)
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}}
```

Above is a non empty collapse macro witch renders correctly in preview and in wiki view.

Redmine%204.x%20preview%20render.PNG

Redmine%204.x%20wiki%20render.PNG

#### Environment:

Redmine version	4.1.1.stable
Ruby version	2.6.6-p146 (2020-03-31) [x86_64-linux]
Rails version	5.2.4.2
Environment	production
Database adapter	PostgreSQL
Mailer queue	ActiveJob::QueueAdapters::AsyncAdapter
Mailer delivery	smtp

#### SCM:

Subversion	1.10.4
Git	2.20.1
Filesystem	
Xitolite	2.20.1

#### Redmine plugins:

additional	2.0.24-master
redmine_advancedimage	0.0.4
redmine_agile	1.5.3
redmine_checklists	3.1.16
redmine_filelinks	0.0.0
redmine_git_hosting	4.0.2
redmine_latex_mathjax	0.4.0
redmine_lightbox2	0.5.1
redmine_local_avatars	1.0.0
redmine_mentions	1.0.0
redmine_postgresql_search	1.0.6
redmine_recurring_tasks	0.3.4
redmine_reporting	2.0.6
redmine_wiki_lists	0.0.9
redmine_wikiapproval	0.0.0
redmine_wikiforms	0.0.0
redmineup_tags	2.0.8
sidebar_hide	0.0.8-fix

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## History

### #1 - 2020-05-16 05:28 - Go MAEDA

- Category changed from Wiki to Text formatting

- Status changed from New to Confirmed

### #2 - 2020-05-21 05:00 - Yuichi HARADA

- File 33432.patch added

It seems that the line break code is different between preview mode and non-preview mode.  
So preview mode doesn't seem to match the regular expression `ApplicationHelper::MACROS_RE`.

preview mode(Linebreak: "\n"). Since the input value is posted via JavaScript, the line break code is replaced from "\r\n" to "\n".

```
"Test code for the bug in Redmine 4.x\n\n{{collapse(Collapse 1)}}\n\nAbove is a empty collapse macro which renders correctly in preview and  
in wiki view.\n\n{{collapse(Collapse 2)\n}}\n\nAbove is a empty collapse macro which renders correctly in wiki view but this text (and the  
following macro up to its closing curly brackets) will not be visible in preview mode.\n\n{{collapse(Collapse 3)\n}}\n\nThis is a block of text that is  
collapsed by default.\n\nIt can be expanded by clicking a link.\n\n}}\n\nAbove is a non empty collapse macro which renders correctly in preview  
and in wiki view."
```

non-preview mode(Linebreak: "\r\n")

```
"Test code for the bug in Redmine 4.x\r\n\r\n{{collapse(Collapse 1)}}\r\n\r\nAbove is a empty collapse macro which renders correctly in preview  
and in wiki view.\r\n\r\n{{collapse(Collapse 2)\r\n}}\r\n\r\nAbove is a empty collapse macro which renders correctly in wiki view but this text (and  
the following macro up to its closing curly brackets) will not be visible in preview mode.\r\n\r\n{{collapse(Collapse 3)\r\n}}\r\n\r\nThis is a block of text  
that is collapsed by default.\r\n\r\nIt can be expanded by clicking a link.\r\n\r\n}}\r\n\r\nAbove is a non empty collapse macro which renders correctly in  
preview and in wiki view."
```

Fixed the regular expression. I think this will solve the problem.

```
diff --git a/app/helpers/application_helper.rb b/app/helpers/application_helper.rb
index bf55e05a5..5bcdca29f 100644
--- a/app/helpers/application_helper.rb
+++ b/app/helpers/application_helper.rb
@@ -1277,8 +1277,8 @@ module ApplicationHelper
  (
    \{\{          # opening tag
    ([\w]+)      # macro name
-    (\{([\^\\\r]*?)\})? # optional arguments
-    ([\n\r].*?[\n\r])? # optional block of text
+    (\{([\^\\\R]*?)\})? # optional arguments
+    (\R.*?\R)?       # optional block of text
    \}\}        # closing tag
  )
)/mx unless const_defined?(:MACROS_RE)
```

### #3 - 2020-05-24 09:33 - Go MAEDA

Yuichi HARADA wrote:

```
| It seems that the line break code is different between preview mode and non-preview mode.
| So preview mode doesn't seem to match the regular expression ApplicationHelper::MACROS_RE.
```

Thank you for posting the patch. But I think the patch needs some fix.

I think the following line does not work as expected because the metacharacter `\R` cannot be put into `[]`. `[\^\\\R]` is actually equivalent to `[\^R]`.

```
(\{([\^\\\R]*?)\})? # optional arguments
```

See the test result below.

```
irb(main):001:0> /^[^nr]/ =~ "\n"  
=> nil  
irb(main):002:0> /^[^R]/ =~ "\n"  
=> 0  
irb(main):003:0> /^[^R]/ =~ "R"  
=> nil
```

**#4 - 2020-05-26 02:39 - Yuichi HARADA**

- File 33432-v2.patch added

Go MAEDA wrote:

*I think the following line does not work as expected because the metacharacter \R cannot be put into []. [^R] is actually equivalent to [^R].*

*[...]*

*See the test result below.*

*[...]*

Thank you for your report.

I confirmed that the negative match /^[^R]/ doesn't work with the line break code.

Fixed the patch.

**#5 - 2020-06-02 15:09 - Go MAEDA**

- Target version set to Candidate for next minor release

**#6 - 2020-06-06 08:32 - Go MAEDA**

- File 33432-test.patch added

Attaching test code for the patch.

**#7 - 2020-06-09 07:58 - Go MAEDA**

- Target version changed from Candidate for next minor release to 4.0.8

- Affected version changed from 4.1.1 to 4.0.0

Setting the target version to 4.0.8.

**#8 - 2020-06-14 06:40 - Go MAEDA**

- Target version changed from 4.0.8 to Candidate for next minor release

The actual cause of the problem is that the regular expression expects that there are two line terminators between "macroname{" and "}". The reason why there appears to be no problem when a line terminator is "\r\n" is that "\r" is parsed as the first line terminator and "\n" is parsed as the second line terminator.

So, even after applying the patch attachment:33432-v2.patch, the macro in the following text is not detected in the Preview tab.

```
collapse{{
}}
```

The code below can test it.

Index: test/helpers/application\_helper\_test.rb

=====

--- test/helpers/application\_helper\_test.rb (リビジョン 19814)

+++ test/helpers/application\_helper\_test.rb (☐☐ コピー)

@@ -1937,6 +1937,13 @@

end

end

+ def test\_catch\_macros\_should\_allow\_empty\_text\_block

+ macros = catch\_macros("+{{collapse\r\n}}")

+ assert\_equal "{{collapse\r\n}}", macros[0]

+ macros = catch\_macros("+{{collapse\n}}")

+ assert\_equal "{{collapse\n}}", macros[0]

+ end

+

private

def wiki\_links\_with\_special\_characters

## Files

Redmine 4.x preview render.PNG	26.4 KB	2020-05-11	Holger Mößinger
Redmine 4.x wiki render.PNG	27.6 KB	2020-05-11	Holger Mößinger
33432.patch	785 Bytes	2020-05-21	Yuichi HARADA
33432-v2.patch	700 Bytes	2020-05-26	Yuichi HARADA
33432-test.patch	735 Bytes	2020-06-06	Go MAEDA