

Redmine - Feature #17570

use rbpdf gem instead of bundled rfpdf

2014-07-28 17:55 - Jun NAITOH

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Toshi MARUYAMA	% Done:	0%
Category:	PDF export	Estimated time:	0.00 hour
Target version:	2.6.0		
Resolution:	Fixed		

Description

I updated rfpdf base version to TCPDF 5.1.002 from 1.53.0.TC031 for Redmine trunk.

main feature

- Use UTF-8 encoding.
- RTL (Right-To-Left) languages support was added.
- HTML tag inside table supported.
- CSS minimum support.
- Bookmark support.
- Adhoc Thai language support. (Bold font not support)
- Image
  - 8bit PNG image support without RMagick library.
  - 16bit PNG image support. (use RMagick library)
  - Alpha channel PNG image adhoc support. (use RMagick library)
  - JPEG image support. (use RMagick library)
  - GIF image support. (use RMagick library)

fixed issues

- [#8753](#) : RTL languages supooorted.
- [#14466](#) : This patch fixed.
- [#13860](#) : This patch fixed.
- [#13589](#) : default\_table\_columns parameter is invalid now.
- [#14599](#) : Support 16-bit depth PNG images with RMagick library.
- [#12934](#) : Support images in tables.
- [#14917](#) : Supported style of center at Table.

fixed issues (adhoc)

- [#12934](#) : Supported style of text-align right/center/left attribute, but no vertical-align attribute, yet.
- [#12447](#) : Convert alpha channel to black.

Gem file

gem install rfpdf

patch

- lib\_redmine.rb\_r13333.patch : Gantt/Issues list/Issue/Wiki PDF export patch.
- config\_locales\_r13333.patch : general\_pdf\_encoding is set UTF-8 locale.

my testing environment

- Redmine trunk ([r13333](#))
- Ruby 1.8.7-p352/1.9.3-p392/2.0.0-p247/2.1.2
- CentOS 6/Windows 7

Thanks!

Related issues:

Related to Redmine - Defect #13781: CJK(Chinese/Japanese/Korean) characters a...	<b>Closed</b>
Related to Redmine - Defect #13642: PDF bookmark not displayed when contain a...	<b>Closed</b>

## Associated revisions

### Revision 13357 - 2014-08-28 10:26 - Toshi MARUYAMA

ensure issue pdf test has relations (#17570)

### Revision 13358 - 2014-08-28 12:23 - Toshi MARUYAMA

use rbpdf gem instead of bundled rfpdf (#17570)

Contributed by Jun NAITOH.

### Revision 13359 - 2014-08-28 12:23 - Toshi MARUYAMA

remove general\_pdf\_encoding from lib/redmine/export/pdf.rb (#17570)

### Revision 13360 - 2014-08-28 12:24 - Toshi MARUYAMA

remove general\_pdf\_encoding from locale yamls (#17570)

### Revision 13409 - 2014-09-16 04:18 - Toshi MARUYAMA

Gemfile: update rbpdf version to 1.18.1 (#17570)

## History

### #1 - 2014-07-29 01:06 - Jun NAITOH

I forgot the following additional procedure, Sorry.

- remove lib/plugins/rfpdf/

### #2 - 2014-07-29 16:51 - Etienne Massip

- *Target version set to Candidate for next major release*

Thank you very much, because I looked for working on this I know it's a lot of work. Very nice.

Do you have some way to keep the new code updated compared to TCPDF, like some howto/instructions that could be shared?

Just one thing, the rfpdf name should be definitely removed if the code is no more based upon this deprecated library.

### #3 - 2014-07-31 15:09 - Felix Schäfer

Thank your for the patch. I can confirm that many things work, for example images in a table, unfortunately png images with an alpha channel seem to still be problematic.

We have tried out the patch for one of our customers at [Planio](#), they have png images that currently do not work at all. With the patch, the pdf is rendered with the space for the image, but depending on the pdf viewer it will either show empty space (for example Preview.app on a Mac) or a greyscale distorted version of the png (Chromium on a Mac).

Jun, would it help you to have an image that has the above problems with which you can try it out? I will try to see with our customer if we can generate a problematic png that we can share.

### #4 - 2014-07-31 15:53 - Felix Schäfer

- *File planio\_logo\_button\_250\_no\_shadow.png added*

In fact our own logo with an alpha channel shows the same problem. I have attached it to this issue, feel free to use it to test, thanks.

### #5 - 2014-07-31 16:40 - Jun NAITOH

Etienne Massip wrote:

Do you have some way to keep the new code updated compared to TCPDF, like some howto/instructions that could be shared?

It is the following three that I thought as important.

- Maintain the state of operating.
- Update only the required range.

- A PDF output result should become the same as that of TCPDF.  
Therefore, I translated into Ruby, pursuing the repository revision history of TCPDF.

Just one thing, the rfpdf name should be definitely removed if the code is no more based upon this deprecated library.

OK, I change the rfpdf gem name into another name.  
Thank you for the advice.

#### #6 - 2014-07-31 17:06 - Jun NAITOH

Felix Schäfer wrote:

unfortunately png images with an alpha channel seem to still be problematic.

Yes, I agree with you.

Jun, would it help you to have an image that has the above problems with which you can try it out?

Yes, I'll try it.

#### #7 - 2014-08-18 01:10 - Jun NAITOH

- File *config\_localise\_r13339.patch* added

- File *lib\_redmine.rb\_r13339.patch* added

I updated patch and gem.

- rfpdf product name and TCPDF class name changed to RBPdf.
- PNG alpha channel image support. (need RMagick.)

### Gem file

```
gem install rbpdf
```

### patch

- *lib\_redmine.rb\_r13333.patch* : Gantt/Issues list/Issue/Wiki PDF export patch.
- *config\_localise\_r13333.patch* : *general\_pdf\_encoding* is set UTF-8 locale.
- remove *lib/plugins/rfpdf/*

#### #8 - 2014-08-19 07:58 - Felix Schäfer

Jun NAITOH wrote:

I updated patch and gem.

Thanks!

- PNG alpha channel image support. (need RMagick.)

I cannot confirm, my 2 png test files with alpha channel did not get rendered into the PDF at all. Have you tried it with the file attached to note 4? If the file attached in file 4 gets rendered to PDF for you, I would try to see why it doesn't work for me.

#### #9 - 2014-08-19 23:33 - Jun NAITOH

- File *rbpdf\_example042.pdf* added

- PNG alpha channel image support. (need RMagick.)

I cannot confirm, my 2 png test files with alpha channel did not get rendered into the PDF at all.  
Have you tried it with the file attached to note 4?

Yes. Please show *rbpdf\_example042.pdf*

Please tell me, your environment.

- Ruby version
- OS (Windows/Linux/etc.. )
- RMagick version

my testing environment for this rbpdf\_example042.pdf

- CentOS Linux release 6.0 (i386)
- Ruby 1.8.7-p374/ruby-1.9.2-p290/1.9.3-p392/2.0.0-p247/2.1.2
- rmagick 2.13.2

**#10 - 2014-08-21 10:56 - Felix Schäfer**

Jun NAITOH wrote:

Yes. Please show rbpdf\_example042.pdf

That looks good indeed. Is this just rbpdf or from a Redmine wiki page? My test was trying to export a PNG with alpha channel transparency included in a wiki page in Redmine, can you confirm this works too for you?

Please tell me, your environment.

- Ruby version
- OS (Windows/Linux/etc.. )
- RMagick version

ruby 2.1.2p95  
OS X 10.9.4  
rmagick (2.13.2)

**#11 - 2014-08-21 10:57 - Felix Schäfer**

I will try to see where in the Redmine code it fails on my machine.

**#12 - 2014-08-28 09:41 - Toshi MARUYAMA**

- *Tracker changed from Patch to Feature*
- *Subject changed from rfpdf gem patch to use rbpdf gem instead of bundled rfpdf*

**#13 - 2014-08-28 12:28 - Toshi MARUYAMA**

- *Target version changed from Candidate for next major release to 2.6.0*

**#14 - 2014-08-28 12:35 - Toshi MARUYAMA**

- *Related to Defect #13781: CJK(Chinese/Japanese/Korean) characters are not shown in PDF on non CJK locales added*

**#15 - 2014-08-28 12:37 - Toshi MARUYAMA**

I have committed in trunk from [r13357](#) to [r13360](#).

Jun, can you fix [#13781](#)?

**#16 - 2014-08-28 22:36 - Jun NAITOH**

Toshi MARUYAMA wrote:

I have committed in trunk from [r13357](#) to [r13360](#).

Thanks!

Jun, can you fix [#13781](#)?

I commented to [#13781#note-10](#)  
I will solve this problem, if there is a font setting function.

However, the comment of [#4787#note-9](#) worries me.

**#17 - 2014-09-03 18:16 - Felix Schäfer**

Jun, I was able to test this a little more and the error I get is caused by an endless loop. The error is:

```
pdf: Image: error: File name too long @ rb_sysopen - /some/path/redmine/tmp/20140903-35375-hkom8b_20140903-35375-hi2xft_20140903-35375-vt1h15_20140903-35375-11px1pc_20140903-35375-2peiit_20140903-35375-1qg1410_20140903-35375-1q2be3d_20140903-35375-1mwkgqu_140731155010_planio_logo_button_250_no_shadow.png.png.png.png.png.png.png.png.png.png.png
```

It seems rmagick on my system (OS X 10.9.4, ruby-2.1.2, rmagick-2.13.3, ImageMagick 6.8.9-5 Q16 x86\_64 2014-07-25) creates png images with an alpha channel even if it is not needed. The tempfile\_plain created in <https://github.com/naitoh/rbpdf/blob/1.18.0/lib/rbpdf.rb#L5191-L5204> still has an alpha channel:

```
% identify -format '%[channels]' /some/path/redmine/tmp/20140903-36796-4vbykd_140731155010_planio_logo_button_250_no_shadow.png.png
srgba
```

(the 2 files were from 2 different runs, but you get the idea)

This in turn causes <https://github.com/naitoh/rbpdf/blob/1.18.0/lib/rbpdf.rb#L5199> to try to remove the alpha channel again and to go into a loop where #Image will call #ImagePngAlpha and #ImagePngAlpha will call #Image.

Is there more information or a test I can do to help you?

#### #18 - 2014-09-05 17:29 - Jun NAITOH

Felix Schäfer wrote:

Jun, I was able to test this a little more and the error I get is caused by an endless loop.

OK, this problem ([#note-17](#) and [#note-4](#)) reproduced in my environment. (MAC OS X 10.8.5/ruby 2.1.2/rmagick 2.13.3).

I think that the cause of this problem is RMagick of Mac.

This in turn causes <https://github.com/naitoh/rbpdf/blob/1.18.0/lib/rbpdf.rb#L5199> to try to remove the alpha channel again and to go into a loop where #Image will call #ImagePngAlpha and #ImagePngAlpha will call #Image.

Yes.

Is there more information or a test I can do to help you?

No.

I understood this problem, now.  
Thanks!

I will fix this problem in the possible range.  
Please wait several days.

#### #19 - 2014-09-05 17:38 - Felix Schäfer

Jun NAITOH wrote:

Felix Schäfer wrote:

Jun, I was able to test this a little more and the error I get is caused by an endless loop.

OK, this problem ([#note-17](#) and [#note-4](#)) reproduced in my environment. (MAC OS X 10.8.5/ruby 2.1.2/rmagick 2.13.3).  
I understood this problem, now.  
Thanks!

Great to hear!

Please wait several days.

No pressure, thanks for the hard work on the PDF exports.

#### #20 - 2014-09-16 01:29 - Jun NAITOH

I released rbpdf 1.18.1 gem.

[#note-17](#) and [#note-4](#) problem fixed.

Thanks!

**#21 - 2014-10-05 00:33 - Filou Centrinov**

- Related to Defect #13642: PDF bookmark not displayed when contain a non-ascii character added

**#22 - 2014-10-18 12:18 - Jean-Philippe Lang**

- Assignee set to Toshi MARUYAMA

Toshi, can we close this one?

**#23 - 2014-10-18 13:18 - Toshi MARUYAMA**

Jean-Philippe Lang wrote:

Toshi, can we close this one?

I think we can close this issue.

But, I don't know why [#12934](#) and [#12447](#) are adhoc in description.

Jun, could you post status in each issues?

**#24 - 2014-10-18 14:09 - Jun NAITOH**

## Status Update.

### main feature

- Use UTF-8 encoding.
- RTL (Right-To-Left) languages support was added.
- HTML tag inside table supported.
- CSS minimum support.
- Bookmark support.
- Adhoc Thai language support. (Bold font not support)
- Image
  - 8bit PNG image support without RMagick library.
  - 16bit PNG image support. (use RMagick library)
  - Alpha channel PNG image support. (use RMagick library)
  - JPEG image support. (use RMagick library)
  - GIF image support. (use RMagick library)

### fixed issues

- [#8753](#) : RTL languages supported.
- [#14466](#) : This patch fixed.
- [#13860](#) : This patch fixed.
- [#13589](#) : default\_table\_columns parameter is invalid now.
- [#14599](#) : Support 16-bit depth PNG images with RMagick library.
- [#12934](#) : Support images in tables.
- [#14917](#) : Supported style of center at Table.
- [#12447](#) : Supported PNG alpha channel (by rbpdf 1.18.1)
- [#11788](#) : Supported style of text-align right/center/left attribute. (vertical-align attribute don't support.)

I think we can close this issue, too.

Jun NAITOH wrote:

### fixed issues (adhoc)

[#12934](#) : Supported style of text-align right/center/left attribute, but no vertical-align attribute, yet.

Sorry, I miswrote Issue ID. [#12934](#) is wrong, [#11788](#) is right.

[#12934](#) is already fixed.

And, I think to fixed [#11788](#) , too.

[#12447](#) : Convert alpha channel to black.

Already fixed by rbpdf 1.18.1

Thanks!

#25 - 2014-10-18 14:24 - Toshi MARUYAMA

- Status changed from New to Closed
- Resolution set to Fixed

Thank you!

#26 - 2014-11-29 16:16 - Ben Scott

- File issues.png added
- File gantt.png added

I update Redmine to 2.6.0  
PDF Export for Arabic and Persian language was cluttered.  
I attached exported files screenshots.

#27 - 2014-11-30 13:25 - Toshi MARUYAMA

m mahdi wrote:

I update Redmine to 2.6.0  
PDF Export for Arabic and Persian language was cluttered.  
I attached exported files screenshots.

Duplicate of [#10681](#) and [#16040](#).

Files			
lib_redmine.rb_r13333.patch	31.8 KB	2014-07-28	Jun NAITOH
config_localse_r13333.patch	2.78 KB	2014-07-28	Jun NAITOH
planio_logo_button_250_no_shadow.png	9.67 KB	2014-07-31	Felix Schäfer
config_localse_r13339.patch	2.78 KB	2014-08-17	Jun NAITOH
lib_redmine.rb_r13339.patch	32.1 KB	2014-08-17	Jun NAITOH
rbpdf_example042.pdf	93.9 KB	2014-08-19	Jun NAITOH
gantt.png	15.6 KB	2014-11-29	Ben Scott
issues.png	13.6 KB	2014-11-29	Ben Scott