

# DocPu Redmine plugin

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## 1 DocPu, Document publishing plugin



This plugin enables *PDF* export and generation for Redmine wiki pages using the LaTeX typesetting system. But it is even more than an simple

*PDF* exporter since it uses the LaTeX text and figure layout engine which produces extremely nice rendered page layouts.

**Features:**

- Merge multiple wiki pages to one single *PDF* document
- Automatically generate title page and table of content
- Automatically generate an index from all **strong** or *italic* words
- Wiki page references are translated to *PDF* links
- Code highlighting is supported for Redmine code block
- Solid table borders can be drawn
- Add chapter for every wiki page
- Remove Redmine macros, eg. `{{toc}}`
- Convert wiki footnotes to LaTeX footnotes
- Use floating or fixed images
- ...

DocPu uses and extends the RedCloth4 LaTeX export module, which is a converter for the Textile markup language.

## 1.1 Installation

Since DocPu uses LaTeX and RedCloth4, you have to install them first.

### 1.1.1 Installing RedCloth4

Currently Redmine uses RedCloth3, so you have to additionally install RedCloth4. The simplest solution is by typing `gem install RedCloth`, but this only works if you have a compiler set-up, since some parts are written in C code. For windows users a pre compiled gem package can be downloaded from the repository. Download it first and install it via eg. `gem install RedCloth-4.2.2-x86-mswin32-60.gem`

### 1.1.2 Installing LaTeX

On Windows machines you can download and install the MikTeX LaTeX distribution. For all other platforms see <http://www.latex-project.org/ftp.html>.

DocPu Requires the following LaTeX packages, be sure you have them installed as well:

- listings
- ulem
- graphicx
- float
- multirow
- makeidx
- hyperref

**Testing LaTeX** It's a good idea to test the LaTeX installation before using it with DocPu. Create an empty folder and copy the `article_en_tcfi.tex` file from the plugin template directory (`redmine_doc_pu/templates`) to it. Now create an empty file named `document.tex`, afterwards you can compile the document with `pdflatex article_en_tcfi.tex` (or `path_to_latex/pdflatex`). The file should compile successful with the message:

- 1 Output written on `article_en_tcfi.pdf` (1 page, 28874 bytes).

### 1.1.3 Installing DocPu plugin

To install DocPu, simply download it and extract its content into the Redmine plugin directory. Now run `rake db:migrate_plugins` from the Redmine directory and restart server. The more detailed installation guide can be found [here](#).

**Configure DocPu plugin** Goto Redmine administration and select *Plugins*. You should see the DocPu plugin installed. Now select *Configure* and fill in the correct LaTeX and makeindex binary paths.

Figure 1: DocPu settings

In this example, LaTeX and makindex binary paths are set in PATH environment variable. You can also specify the full path, eg. `C:\Program Files\MiKTeX 2.7\miktex\bin` on windows.

Now it's time to set *Roles and permissions* for the DocPu plugin in Redmine. Therefore, goto administration and select *Roles and permissions*. You will see a new category called *Document publishing*, within that category there are 3 different security settings:

- **View documents:** Shows all documents assigned to a project, if disabled the project menu *Publish* is not displayed.
- **Build documents:** Build a document, enables the permission to execute the LaTeX binary.
- **Edit documents:** Edit document, this also involves creating, editing and deleting documents.

The last step is to enable the *Document publishing* module in the project settings.

## 2 DocPu wiki syntax

DocPu mainly uses the Redmine/Textile wiki syntax with some minor extensions.

### 2.1 Font styles and enumeration

You can use all supported font styles from the Redmine wiki such as **bold**, *italic*, underlined or ~~deleted~~ text. Links such as [link](#) are also supported.

- An enumeration

- Another enumeration
  - A sub enumeration
  - Another sub enumeration

And all enumerations are supported.

1. Enumeration 1
2. Enumeration 2
3. Enumeration 3

- **Description:** A simple description text.
- **More description:** Another longer description text. Another longer description text. Another longer description text. Another longer description text.

## 2.2 Images

The image position can be fixed or floated. Fixed images occur at the text position where they are defined. Floating images will be laid out by LaTeX to best fit the page layout guidelines. Also a image caption is supported by using the alternative text field.



Figure 2: I am a floating image

- **Fixed images:** !image.jpg!
- **Floating images:** !>image.jpg!
- **Fixed images with caption:** !image.jpg(Caption text goes here)!



Figure 3: I am a fixed image

You can also create a reference to an image by writing `{{!image.jpg!}}`, see figure 2.

## 2.3 Tables

DocPu supports the Redmine/Textile table syntax with table span and heading.

```
1 | -. UserID | -. Name | -. Group |
2 | \3=.IT |
3 | \2=.IT | Test |
4 | 1| Artur Pirozhkov | /2. Users |
5 | 2| Vasya Rogov |
6 | 3| John Smith | Admin |
```

**Example:** This table was generated from the code above.

| UserID | Name            | Group |
|--------|-----------------|-------|
| IT     |                 |       |
| IT     |                 | Test  |
| 1      | Artur Pirozhkov | Users |
| 2      | Vasya Rogov     |       |
| 3      | John Smith      | Admin |

## 2.4 Code highlighting

Code highlighting is also supported using the LaTeX listings package. All CodeRay languages are supported.

```
i/pre¿
```

**Example:** This listing was generated from the code above.

```
1 # The Greeter class
2 class Greeter
3   def initialize(name)
4     @name = name.capitalize
5   end
6
7   def salute
8     puts "Hello #{@name}!"
9   end
10 end
```

## 2.5 Wiki page references and footnotes

Another feature of DocPu<sup>1</sup> is the generation of wiki page references. Simply write `[[WikiPage]]` or `[[WikiPage|My page name]]` to add a wiki page reference. For an example see section 3 or My page name 3.

## 3 DocPu sample page

This is a empty sample page!

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<sup>1</sup>This is a foonote.

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