Customize Plugin

Documentation

Revision 0.1.3

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1. Custom cover page

You can create a custom cover page using a jinja2 or html file.



Note

You should store the custom cover template file in the directory used for the custom_template_path.

The plugin provides the following variables which you can use in your custom Jinja template:

- cover_title
- cover_subtitle
- cover_image
- author
- author_logo
- copyright
- disclaimer
- site_url
- revision
- custom variables from the extra: setting in your mkdocs.yml
- and all the options you provide under local pdf metadata of a Markdown file.

Using jinja2 syntax, you can access all the data above. E.g. use {{ author }} to get the value for the author option:

```
plugins:
    - pdf-generate:
     author: Duodu Randy
```

1.1. Using custom cover template

You can specify the cover page to use for your PDF by following these steps:

Step 1

Set the custom_template_path option for the plugin to the directory you want to store the cover template file.

Step 2



Under the directory you set as <code>custom_template_path</code>, create a custom template file. The custom template's filename can either be <code>cover</code> or the document type.

E.g. cover.html, cover.html.j2, or if the document type is manual then manual.html, manual.html.j2.

In the cover template file, write your preferred template syntax into it.

Example of a cover template file using Jinja2 syntax:

```
<article id="doc-cover">
   {% if cover_image is defined %}
       <div class="wrapper upper">
           <div class="logo" style="background-image: url('{{ cover_image | to_url }}');"></</pre>
div>
       </div>
   {% else %}
       <div class="wrapper"></div>
   {% endif %}
    <div class="wrapper">
       <h1>{{ cover_title | e }}</h1>
       <h2>{{ cover_subtitle | e }}</h2>
       {% if revision %}
           <h3>Revision {{ revision | e }}</h3>
       {% endif %}
   </div>
    <div class="properties">
       <address>
           {% if author %}
               {{ author | e }}
           <a href="{{ site_url }}" id="project_logo" title="Resource Centre">
               <img src="{{ author_logo }}" alt="Company Logo"</pre>
               style="width:80px;height:30px"/>
           </a>
       </address>
    </div>
    <div class="reserved_rights">
       <address>
           {% if copyright %}
               {{ copyright | e }}
           {% endif %}
           {% if disclaimer %}
               {{ disclaimer | e }}
           {% endif %}
       </address>
   </div>
</article>
```

Step 3

Save the file changes and rebuild your MkDocs project.

2. Adjusting the output

The resulting PDF can be customized easily by adding a custom stylesheet such as the following:

```
Opage {
    size: a4 portrait;
    margin: 25mm 10mm;
```



For this to take effect, you need to create a custom.css file.



Note

You should store the custom.css file in the directory used for the custom_template_path.

The plugin provides the following CSS variables and named strings which you can use in your custom.css file:

- –title
- -subtitle
- -author
- -author-logo
- -copyright
- -type
- -site_url
- -revision
- -filename
- chapter

Using the var() CSS function, you can access all the CSS variables provided by the plugin. E.g. use var(--author) to get the value for the author option.

You can also use the string() function to access the value of a named string. E.g. use string(chapter) to get the value for a chapter.

The custom CSS is appended to the MkDocs stylesheets so, you can override rules by using the !important CSS keyword but be cautious about it.

2.1. Changing the orientation of a page

The plugin allows you to change the orientation of a page to fit the content on that page.



For example, if you have a table on a page, and it is too wide to fit the current orientation used by the page, you can change the page orientation of the individual page by doing the following:

- Wrap the markdown content in a div html element. The div element should have a markdown attribute and a class attribute set to "rotated-page". E.g. <div markdown class="rotated-page">PLACE CONTENT HERE</div>
- Create a custom.css file and set these CSS variables under a :root {} CSS selector:
 - --base-page-orientation default page orientation to use and
 - --rotated-page-orientation page orientation to use for rotated pages.

E.g. :root {--base-page-orientation: a4 portrait; --rotated-page-orientation: a4 landscape;}



2.1.1. Example

In this example, we are going to change the page orientation for this subsection.



Download the generated pdf to see the result.

Header / Pin	Symbol	Туре	Description
Header1 - 1	GND	Power	Module / System GND
Header1 - 2	103	1/0	GPIO – Capabilities are Module Dependent
Header1 - 3	102	1/0	GPIO – Capabilities are Module Dependent
Header1 - 4	101	1/0	GPIO – Capabilities are Module Dependent
Header1 - 5	3V3 OUT	Power	3.3V Power Output for User
Header2 - 1	RESET	I	System Reset, Active Low



In the example above, the example section is wrapped inside a div like below:

```
<div markdown class="rotated-page">
#### Example
In this example, we are going to change the page orientation for [this subsection](#example).
!!! note
   Download the generated pdf to see the result.
| Header / Pin | Symbol | Type | Description
|:----|:----:|:-----:|:-------|
| Header1 - 1 | GND | Power | Module / System GND
\mid Header1 - 2 \mid IO3 \mid I/O \mid GPIO - Capabilities are Module Dependent
| Header1 - 3 | IO2 | I/O | GPIO - Capabilities are Module Dependent
| Header1 - 4 | IO1 | I/O | GPIO - Capabilities are Module Dependent
| Header1 - 5 | 3V3 OUT | Power | 3.3V Power Output for User
| Header2 - 1 | RESET | I | System Reset, Active Low
| Header2 - 2 | GND | Power | Module / System GND
| Header2 - 3 | RX | I | Asynchronous Serial UART Receive Pin (TX from Host)
| Header2 - 4 | TX | 0 | Asynchronous Serial UART Transmit Pin (RX from Host) |
| Header2 - 5 | 5V | Power | Module 5V Input, Main Power
</div>
```

and the custom.css file contains this code:

```
:root {
    --base-page-orientation: a4 portrait;
    --rotated-page-orientation: a4 landscape;
}
```

Note

You can write your own custom CSS to handle page orientation but you must use the named page approach like below:

```
/* Named page \psi */
@page rotated {
    size: A3 landscape;
}

.rotated-page {
    page: rotated;
    page-break-before: always;
    page-break-after: always;
}
```