moban Documentation

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Contents

1 Installation 3

2 Quick start 5

3 Usage 7

4 Special Filters 9

5 Tutorial 11

6 Change log 17

7 Indices and tables 21

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Issues http://github.com/moremoban/moban/issues

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moban brings the high performance template engine (JINJA2) for web into static text generation. It is used in pyexcel project to keep documentation consistent across the documentations of individual libraries.

CHAPTER 1

Installation

You can install it via pip:

```
$ pip install moban
```

or clone it and install it:

```
$ git clone http://github.com/moremoban/moban.git
$ cd moban
$ python setup.py install
```

CHAPTER 2

Quick start

Here is a simple example:

```
$ moban -c data.yml -t my.template
$ cat moban.output
```

Given data.yml as:

```
hello: world
```

and my.template as:

```
{{hello}}
```

moban.output will contain:

```
world
```

the tutorial has more use cases.

CHAPTER 3

Usage

usage: moban [-h] [-cd CONFIGURATION_DIR] [-c CONFIGURATION] [-td [TEMPLATE_DIR [TEMPLATE_DIR . . .]]] [-t TEMPLATE] [–template_type TEMPLATE_TYPE] [-o OUTPUT] [-f] [-m MOBANFILE]

Yet another jinja2 cli command for static text generation

3.1 optional arguments

- *-h, –help* show this help message and exit
- *-cd CONFIGURATION_DIR –configuration_dir CONFIGURATION_DIR* the directory for configuration file lookup
- *-c CONFIGURATION, –configuration CONFIGURATION* the dictionary file
- *-td [TEMPLATE_DIR [TEMPLATE_DIR . . .]], –template_dir [TEMPLATE_DIR [TEMPLATE_DIR . . .]]* the directories for template file lookup
- *-t TEMPLATE, –template TEMPLATE* the template file
- *–template_type TEMPLATE_TYPE* the template type, default is jinja2
- *-o OUTPUT, –output OUTPUT* the output file
- *-f* force moban to template all files despite of .moban.hashes
- *-m MOBANFILE, –mobanfile MOBANFILE* custom moban file

3.2 exit codes

- 0 : no changes
- 1 : has changes

- 2 : error occured

CHAPTER 4

Special Filters

4.1 split_length

It breaks down the given string into a fixed length paragraph. Here is the syntax:

```
{% for line in your_string | split_length(your_line_with) %}
{{line}}
{% endfor %}
```

It is used to keep changelog formatted in CHANGELOG.rst.jjs in pypi-mobans project

4.2 github_expand

It expands simple hashtags into github issues. Here is the syntax:

```
{{ your_github_string | github_expand }}
```

It makes it easy to mention github reference in change log in all projects. Here is the place it is applied: CHANGELOG.rst.jjs in pypi-mobans project

Here is Grammar in the changelog.yml:

```
=============== ==============================
Syntax          Meaning
=============== ==============================
`#1`            moban issues 1
`PR#1`          moban pull request 1
`pyexcel#1`     other project issues 1
`pyexcel#PR#1`  other project pulll request 1
=============== ==============================
```

More details can be found in moban's changelog.yml

CHAPTER 5

Tutorial

Please clone the moban repository as the data mentioned in the tutorial are stored in examples folder.

5.1 Level 1 Jinja2 on command line

moban reads data in yaml format, renders a template file in jinja2 format and outputs it to *moban.output*. By default, it looks for *data.yml* as its data file

5.1.1 Evaluation

Please clone the moban project and install moban:

$ git clone **https://github.com/chfw/moban.git** $ cd moban $ python setup.py install

Then go to *docs/level-1-jinja2-cli*. here are different commands to evaluate it:

```
moban -c data.yml -t a.template
```

'moban.output' is the generated file.

```
moban -c data.yml -t a.template -o my.output
```

-o my.output will override the default name

Note: You may simply type the short form:

```
moban -t a.template
```

because moban looks for *data.yml* by default

5.2 Level 2: template inheritance

Template inheritance is a feature in Jinja2. This example show how it was done. *a.template* inherits *base.jj2*, which is located in *.moban.td*, the default template directory.

5.2.1 Evaluation

Please go to *docs/level-2-template-inheritance*, here is the command to launch it:

```
moban -c data.yaml -t a.template
```

a.template inherits *.moban.td/base.jj2*.

5.3 Level 3: data override

What *moban* bring on the table is data inheritance by introducing *overrides* key word in the yaml file:

```
overrides: data.base.yaml
....
```

And *.moban.cd* is the default directory where the base data file can be placed.

5.3.1 Evaluation

Please change directory to *docs/level-3-data-override* directory.

In this example, *data.yaml* overrides *.moban.cd/data.base.yaml*, here is the command to launch it:

```
moban -c data.yaml -t a.template
```

'a.output' is the generated file:

```
========header============

world

shijie

========footer============
```

5.4 Level 4: single command

If you use moban regularly and operates over a number of files, you may consider write a *.moban.yml*, which is a mini script file that commands *moban* to iterate through a number of files

5.4.1 Evaluation

Please go to *docs/level-4-single-command* directory.

Here is the *.moban.yml*, whihc replaces the command in level 3:

```
targets:
  - a.output: a.template
```

where *targets* should lead an array of dictionaries.

Here is how to launch it .. code-block:: bash

moban

'a.output' is the generated file:

```
========header============

world

shijie

========footer============
```

5.5 Level 5: custom configuration

With *.moban.yml*, you can even change default data directory *.moban.cd* and default template directory *.moan.td*. Read this example:

```
configuration:
  configuration_dir: 'custom-config'
  template_dir:
    - custom-templates
    - cool-templates
    - '.'
targets:
  - a.output: a.template
```

where *configuration* lead a dictionary of key words:

1. *configuration_dir* - the new configuration directory
2. *template_dir* - an array of template directories

5.5.1 Evaluation

Please go to *docs/level-5-custom-configuration* directory.

Here is the command to launch it:

```
moban
```

'a.output' is the generated file:

```
========header============

world

shijie
```

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```
this demonstrations jinja2's include statement

========footer============
```

5.6 Level 6: Complex Configuration

On top of level 5, you could have a common template, where data and output change. In the following example:

```
configuration:
  configuration_dir: 'custom-config'
  template_dir:
    - custom-templates
    - cool-templates
    - '.'
  template: a.template
targets:
  - output: a.output
    configuration: data.yml
  - output: a.output2
    configuration: data2.yml
```

where *template* under *confiugration* needs a template file, which will be a default template across *targets*. And in this example, the expand form of *targets* is illustrated:

{ "output": 'an output file', "configuration": 'data file', "template": "the template file"

}

5.6.1 Evaluation

Please go to *docs/level-6-complex-configuration* directory.

Here is the command to launch it:

```
moban
```

'a.output' is the generated file:

```
========header============

world

shijie

this demonstrations jinja2's include statement

========footer============
```

a.output2 is:

```
========header============

world2
```

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```
shijie

this demonstrations jinja2's include statement

========footer============
```

For more complex use case, please look at its usage in pyexcel project

CHAPTER 6

Change log

6.1 0.1.4 - 29-May-2018

6.1.1 Updated

1. #21: targets become optional
2. #19: transfer symlink's target file's file permission under unix/linux systems
3. #16: introduce copy key word in mobanfile

6.2 0.1.3 - 12-Mar-2018

6.2.1 Updated

1. handle unicode on python 2

6.3 0.1.2 - 10-Jan-2018

6.3.1 Added

1. #13: strip off new lines in the templated file

6.4 0.1.1 - 08-Jan-2018

6.4.1 Added

1. the ability to present a long text as multi-line paragraph with a custom upper limit
2. speical filter expand github references: pull request and issues
3. #15: fix templating syntax to enable python 2.6

6.5 0.1.0 - 19-Dec-2017

6.5.1 Added

1. #14, provide shell exit code

6.6 0.0.9 - 24-Nov-2017

6.6.1 Added

1. #11, recognize .moban.yaml as well as .moban.yml.
2. #9, preserve file permissions of the source template.
3. *-m* option is added to allow you to specify a custom moban file. kinda related to issue 11.

6.6.2 Updated

1. use explicit version name: *moban_file_spec_version* so that *version* can be used by users. #10 Please note: moban_file_spec_version is reserved for future file spec upgrade. For now, all files are assumed to be '1.0'. When there comes a new version i.e. 2.0, new moban file based on 2.0 will have to include 'moban_file_spec_version: 2.0'

6.7 0.0.8 - 18-Nov-2017

6.7.1 Added

1. #8, verify the existence of custom template and configuration directories. default .moban.td, .moban.cd are ignored if they do not exist.

6.7.2 Updated

1. Colorize error messages and processing messages. crayons become a dependency.

6.8 0.0.7 - 19-Jul-2017

6.8.1 Added

1. Bring the visibility of environment variable into jinja2 templating process: #7

6.9 0.0.6 - 16-Jun-2017

6.9.1 Added

1. added '-f' flag to force moban to template all files despite of .moban.hashes

6.9.2 Updated

1. moban will not template target file in the situation where the changes occured in target file than in the source: the template file + the data configuration after moban has been applied. This new release will remove the change during mobanization process.

6.10 0.0.5 - 17-Mar-2017

6.10.1 Added

1. Create a default hash store when processing a moban file. It will save unnecessary file write to the disc if the rendered content is not changed.
2. Added summary reports

6.11 0.0.4 - 11-May-2016

6.11.1 Updated

1. Bug fix #5, should detect duplicated targets in *.moban.yml* file.

6.12 0.0.3 - 09-May-2016

6.12.1 Updated

1. Bug fix #4, keep trailing new lines

6.13 0.0.2 - 27-Apr-2016

6.13.1 Updated

1. Bug fix #1, failed to save utf-8 characters

6.14 0.0.1 - 23-Mar-2016

6.14.1 Added

1. Initial release

CHAPTER 7

Indices and tables

- genindex
- modindex
- search