
sphinx Documentation

Release 1.0.0

zhujian

Nov 09, 2019

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1.1 sphinx

SPHINX

sphinx

1. HTMLLaTeXePubTextinfomanual pagesplain text
- 2.
- 3.
- 4.
5. Pygments
6. PythonAPI
7. 50PyPI

sphinxreStructuredTextmarkdown()

1.1.1

Installing Sphinx

sphinxPython

```
pip install -U Sphinx
```

sphinx

1.2 Sphinx-bug

Sphinxmarkdown

Markdown\$...\$\$...\$\$

Sphinx

githubbugSphinx Markdown MathJax doesn't work correctly #5957

1.3

Getting Started

sphinx sphinx-quickstart

1.3.1 sphinx-quickstart

sphinx-quickstart

```
zhujiang@zhujiang-virtual-machine:~/doc/first$ sphinx-quickstart
Welcome to the Sphinx 1.8.2 quickstart utility.
```

```
Please enter values for the following settings (just press Enter to
accept a default value, if one is given in brackets).
```

```
Selected root path: .
```

```
You have two options for placing the build directory for Sphinx output.
Either, you use a directory "_build" within the root path, or you separate
"source" and "build" directories within the root path.
> Separate source and build directories (y/n) [n]:
```

```
Inside the root directory, two more directories will be created; "_templates"
for custom HTML templates and "_static" for custom stylesheets and other static
files. You can enter another prefix (such as ".") to replace the underscore.
> Name prefix for templates and static dir [_]:
```

```
'_templates'HTML'_static' '_'
```

```
The project name will occur in several places in the built documentation.
> Project name:
> Author name(s):
> Project release []:
```

```
If the documents are to be written in a language other than English,
you can select a language here by its language code. Sphinx will then
translate text that it generates into that language.
```

```
For a list of supported codes, see
http://sphinx-doc.org/config.html#confval-language.
> Project language [en]:
```

zh_CN

The file name suffix **for** source files. Commonly, this **is** either ".txt" **or** ".rst". Only files **with** this suffix are considered documents.
 > Source file suffix [.rst]:

' .txt' '.rst'

One document **is** special **in** that it **is** considered the top node of the "contents tree", that **is**, it **is** the root of the hierarchical structure of the documents. Normally, this **is** "index", but **if** your "index" document **is** a custom template, you can also **set** this to another filename.
 > Name of your master document (without suffix) [index]:

'index' 'index'

Indicate which of the following Sphinx extensions should be enabled:
 > autodoc: automatically insert docstrings **from** modules (y/n) [n]: y
 > doctest: automatically test code snippets **in** doctest blocks (y/n) [n]: y
 > intersphinx: link between Sphinx documentation of different projects (y/n) [n]: y
 > todo: write "todo" entries that can be shown **or** hidden on build (y/n) [n]: y
 > coverage: checks **for** documentation coverage (y/n) [n]: y
 > imgmath: include math, rendered **as** PNG **or** SVG images (y/n) [n]: y
 > mathjax: include math, rendered **in** the browser by MathJax (y/n) [n]: y
 > ifconfig: conditional inclusion of content based on config values (y/n) [n]: y>
 ↪ viewcode: include links to the source code of documented Python objects (y/n) [n]: y
 > githubpages: create .nojekyll file to publish the document on GitHub pages (y/n)
 ↪ [n]: y
 Note: imgmath **and** mathjax cannot be enabled at the same time. imgmath has been
 ↪ deselected.

```
1. autodoc:
2. doctest:
3. intersphinx: sphinx
4. todo: 'todo'
5. coverage:
6. imgmath: PNGSVG
7. mathjax: MathJax
8. ifconfig: conditional inclusion of content based on config values
9. viewcode: Python
10. githubpages: .nojekyllgithub

imgmathmathjax
```

A Makefile and a Windows command file can be generated for you so that you only have to run e.g. 'make html' instead of invoking sphinx-build directly.
 > Create Makefile? (y/n) [y]:
 > Create Windows command file? (y/n) [y]:

MakefileWindowssphinx-build

```
Creating file ./conf.py.
Creating file ./index.rst.
Creating file ./Makefile.
Creating file ./make.bat.
```

Finished: An initial directory structure has been created.

You should now populate your master file `./index.rst` **and** create other documentation source files. Use the Makefile to build the docs, like so:

`make builder`

where **"builder"** **is** one of the supported builders, e.g. `html`, `latex` **or** `linkcheck`.

1.3.2

```
zhujian@zhujian-virtual-machine:~/doc/first$ ls
_build  conf.py  index.rst  make.bat  Makefile  _static  _templates
zhujian@zhujian-virtual-machine:~/doc/first$ tree
```

```
.
├── _build
├── conf.py
├── index.rst
├── make.bat
├── Makefile
├── _static
└── _templates
```

3 directories, 4 files

```
zhujian@zhujian-virtual-machine:~/doc/sphinx$ ls
build  make.bat  Makefile  source
zhujian@zhujian-virtual-machine:~/doc/sphinx$ tree
```

```
.
├── build
├── make.bat
├── Makefile
└── source
    ├── conf.py
    ├── index.rst
    ├── _static
    └── _templates
```

4 directories, 4 files

`build(_build)`

`Makefile/make.bat`

`source(conf.py)`

1.3.3

`Makefilemake`


```
make builder
```

```
builderhtml,latex
```

```
zhujiang@zhujiang-virtual-machine:~/doc/sphinx$ make html
Running Sphinx v1.8.2
making output directory...
building [mo]: targets for 0 po files that are out of date
building [html]: targets for 1 source files that are out of date
updating environment: 1 added, 0 changed, 0 removed
reading sources... [100%] index
looking for now-outdated files... none found
pickling environment... done
checking consistency... done
preparing documents... done
writing output... [100%] index
generating indices... genindex
writing additional pages... search
copying static files... done
copying extra files... done
dumping search index in English (code: en) ... done
dumping object inventory... done
build succeeded.
```

The HTML pages are in build/html.

```
./build/htmlindex.html
```

first

导航

快速搜索

转向

Welcome to first's documentation!

Indices and tables

- [索引](#)
- [模块索引](#)
- [搜索页面](#)

©2018, zhujiang. | Powered by [Sphinx 1.8.2](#) & [Alabaster 0.7.10](#) | [Page source](#)

```
_build
```

```
zhujiang@zhujiang-virtual-machine:~/doc/first$ make html
Running Sphinx v1.8.2
...
The HTML pages are in _build/html.
```

```
sphinx-build
```

```
sphinx-build -b html sourcedir builddir
```

```
sourcedirbuilddir-b html
```

1.4 sphinx

Directives

Defining document structure

1.4.1

reStructuredtext

```
.. directive_name::arguments
   :option1:
   :option2:

   content
```

directive_name

arguments

options

content

```
.. toctree::
   :maxdepth: 2

   usage/installation
   usage/quickstart
```

1.4.2 toctree

sphinx-quickstartindex.rst

```
.. sphinx documentation master file, created by
sphinx-quickstart on Sun Dec 16 15:27:21 2018.
You can adapt this file completely to your liking, but it should at least
contain the root `toctree` directive.
```

```
Welcome to sphinx's documentation!
```

```
=====
```

```
.. toctree::
   :maxdepth: 2
   :caption: Contents:
```

```
Indices and tables
```

```
=====
```

(continues on next page)

(continued from previous page)

```
* :ref:`genindex`
* :ref:`modindex`
* :ref:`search`
```

toctreetable of content tree

toctree

```
.. toctree::
   :maxdepth: 2
   :caption: Contents:

   Sphinx - html
   zj_rst
```

Sphinx - htmlzj_rst

1

2

maxdepth

maxdepthmaxdepth=1maxdepth=2

```
:maxdepth: 1
```

```
Contents:

Sphinx - html
zj_rst
```

```
:maxdepth: 2
```

```
Contents:

Sphinx - html
    *
    *
    *
zj_rst
```

caption

captionContent“”

```
:

Sphinx - html
zj_rst
```

1.5 reStructuredtext

sphinxreStructuredtext

-
-
-
-
-
-

1.5.1

..

..

```
.. 1
   2
   3
```

1.5.2

```
* This is a bulleted list.
* It has two items, the second
item uses two lines.
```

```
1. This is a numbered list.
2. It has two items too.
```

```
#. This is a numbered list.
#. It has two items too.
```

1.5.3

```
* this is
* a list

    * with a nested list
    * and some subitems

* and here the parent list continues
```

1.5.4

'==' ==

```
=====
```

```
*****
```

```
^^^^^^
```

```
-----
```

```
>>>>>>>
```

```
::::::::::
```

一级标题

二级标题

三级标题

四级标题

五级标题

六级标题

1.5.5

```
.. include::
```

1.5.6

```
#  
—  
#  
.. _:
```

```
—  
#  
.. _:
```

```
* hexo.io_  
* `hexojs/hexo`_  
  
.. _hexo.io: https://hexo.io/  
  
.. _`hexojs/hexo`: https://github.com/hexojs/hexo/
```

参考

- hexo.io
- [hexojs/hexo](https://github.com/hexojs/hexo/)

1

2

1.6 html

1.6.1

sphinxalabaster - builtin-themes

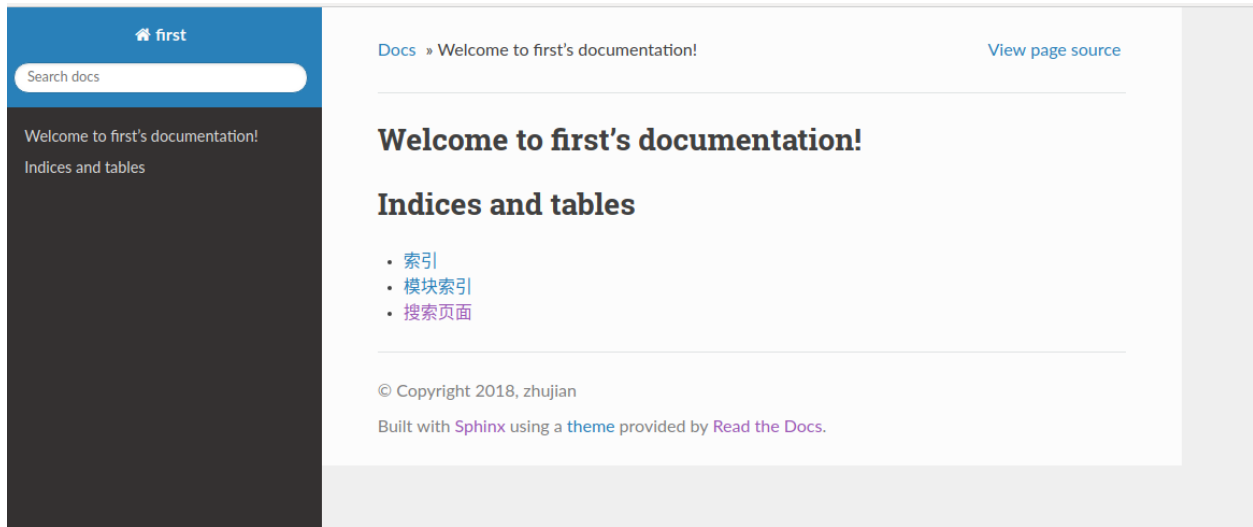
1.6.2

conf.pyhtml_theme

```
# The theme to use for HTML and HTML Help pages.  See the documentation for  
# a list of builtin themes.  
#  
html_theme = 'sphinx_rtd_theme'
```

readthedocs

```
pip install sphinx_rtd_theme
```



1.6.3

sphinx - using-a-theme

1.7 markdown

sphinxmarkdownCommonMark

1.7.1

recommonmark

```
pip install recommonmark
```

conf.py

```
source_parsers = {
    '.md': 'recommonmark.parser.CommonMarkParser',
}
```

```
'.md'
```

```
source_suffix = ['.rst', '.md']
```

1.8 MathJax

Math support for HTML outputs in Sphinx

Creating equations in Sphinx

Sphinxmathjax
markdownindex.rst

`:math:\sigma_1``

readthedocs

$$\begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 3 & 2 & 1 \\ 6 & 5 & 4 \\ 9 & 8 & 7 \end{bmatrix} \rightarrow \begin{bmatrix} 9 & 8 & 7 \\ 6 & 5 & 4 \\ 3 & 2 & 1 \end{bmatrix}$$

1.8.1 MathJax

sphinxmarkdownmathjax

$\dots \left(\dots \right)$

\dots

CHAPTER 2

[pandoc]

- Markdown+Pandoc+Sphinx+ Git pandoc - -pandoc

2.1 Ubuntu

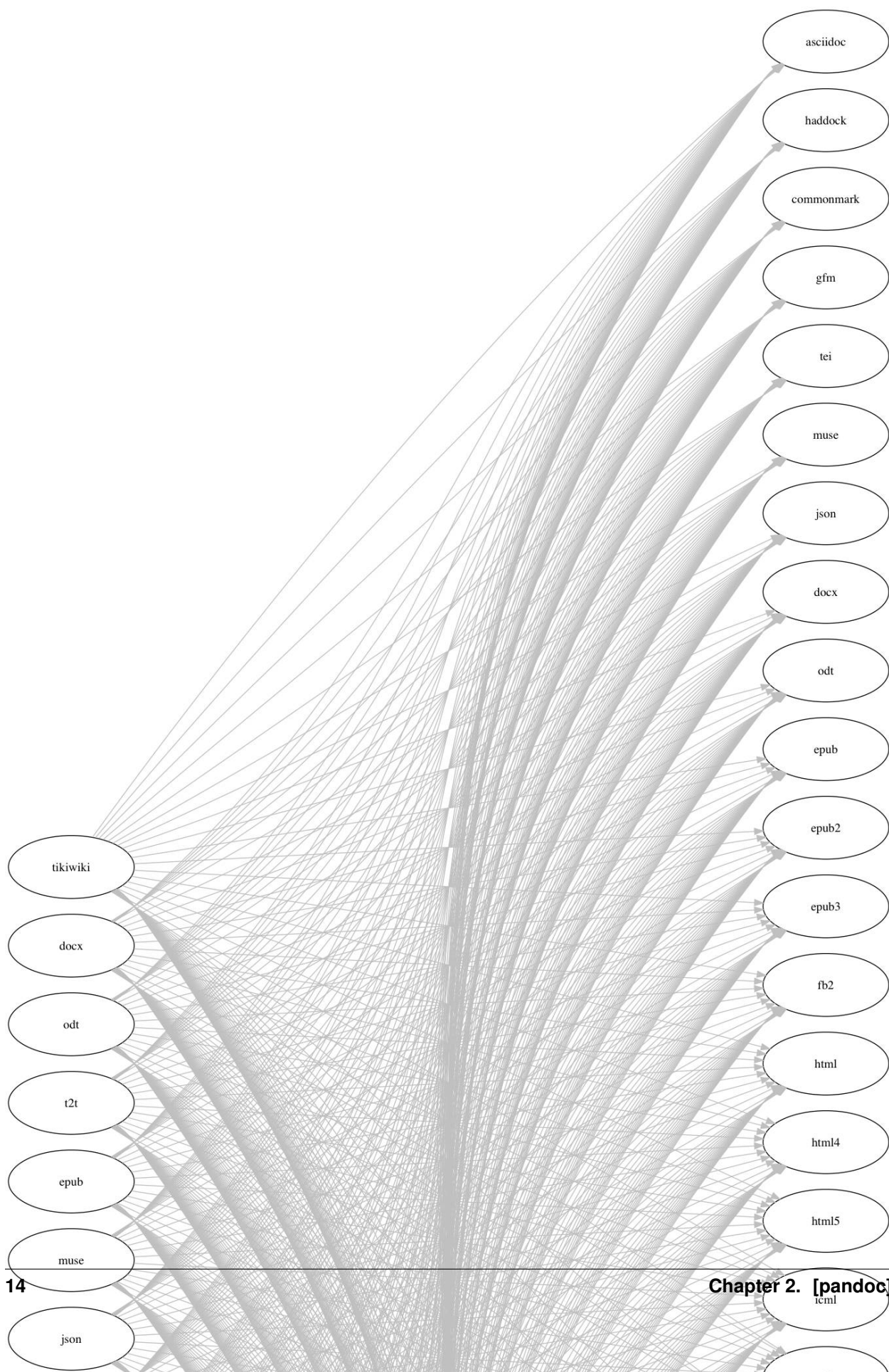
deb

```
sudo dpkg -i pandoc*.deb
sudo apt-get install -f
```

```
$ pandoc -v
pandoc 1.19.2.1
Compiled with pandoc-types 1.17.0.4, texmath 0.9, skylighting 0.1.1.4
Default user data directory: /home/zj/.pandoc
Copyright (C) 2006-2016 John MacFarlane
Web: http://pandoc.org
This is free software; see the source for copying conditions.
There is no warranty, not even for merchantability or fitness
for a particular purpose.
```

2.2

pandocmarkdownjsonhtmlluaStructuredText



markdownrst

```
pandoc test.md -f markdown -t rst -s -o test1.rst
```

- test.md
- -f
- -t
- -s
- -o

sphinxmarkdown

3.1 ReadtheDocs

Read the Docs

Read the DocsReadtheDocs+Github+Sphinx

SphinxGithubReadtheDocs

3.1.1

ReadtheDocs

Sign Up

github

3.2

sphinxgithubreadthedocs

readthedocsgithub

rtfd/template

Welcome to Read the Docs Template's documentation!

3.2.1

Importing Your Documentation

```
import
```

```
github
```

```
buildreadthedocs
```

```
githubreadthedocs
```

3.2.2

Build Process

```
sphinxreadthedocsdocdocsconf.py
```

```
readthedocs
```

- githubcheck out
- sphinx html
-

UnicodeDecodeError: 'ascii' codec can't decode byte 0xe5 in position 108: ordinal not in range(128)

Python3-AttributeError: module 'sys' has no attribute 'setdefaultencoding'

```
conf.py
```

```
Running Sphinx v1.7.9
WARNING: the config value 'epub_title' is set to a string with non-ASCII characters;
↳this can lead to Unicode errors occurring. Please use Unicode strings, e.g. u
↳'Content'.
WARNING: the config value 'project' is set to a string with non-ASCII characters;
↳this can lead to Unicode errors occurring. Please use Unicode strings, e.g. u
↳'Content'.
loading translations [en]... done
making output directory...

...
...
UnicodeDecodeError: 'ascii' codec can't decode byte 0xe5 in position 0: ordinal not
↳in range(128)

Encoding error:
'ascii' codec can't decode byte 0xe5 in position 0: ordinal not in range(128)
The full traceback has been saved in /tmp/sphinx-err-VIWOpI.log, if you want to
↳report the issue to the developers.
```

```
python2conf.pyutf-8
```

```
import sys
reload(sys)
sys.setdefaultencoding('utf8')
```

readthedocsAdmin->Advanced Settings->Python interpreter:

CPython 3.x

3.3

3.3.1 conf.py

UnicodeDecodeError: 'ascii' codec can't decode byte 0xe5 in position 108: ordinal not in range(128)

Python3-AttributeError: module 'sys' has no attribute 'setdefaultencoding'

conf.py

```
Running Sphinx v1.7.9
WARNING: the config value 'epub_title' is set to a string with non-ASCII characters;
↳ this can lead to Unicode errors occurring. Please use Unicode strings, e.g. u
↳ 'Content'.
WARNING: the config value 'project' is set to a string with non-ASCII characters;
↳ this can lead to Unicode errors occurring. Please use Unicode strings, e.g. u
↳ 'Content'.
loading translations [en]... done
making output directory...

...
...
UnicodeDecodeError: 'ascii' codec can't decode byte 0xe5 in position 0: ordinal not
↳ in range(128)

Encoding error:
'ascii' codec can't decode byte 0xe5 in position 0: ordinal not in range(128)
The full traceback has been saved in /tmp/sphinx-err-VIWOpI.log, if you want to
↳ report the issue to the developers.
```

python2conf.pyutf-8

```
import sys
reload(sys)
sys.setdefaultencoding('utf8')
```

readthedocsAdmin->Advanced Settings->Python interpreter:

CPython 3.x

3.3.2 pdflatex

pdflatex:

```
pdflatex -interaction=nonstopmode /home/docs/checkouts/readthedocs.org/user_builds/zj-
↳ computer-foundation/checkouts/latest/docs/source/_build/latex/sphinx.tex
```

:

```
This is pdfTeX, Version 3.14159265-2.6-1.40.16 (TeX Live 2015/Debian) (preloaded_
↵format=pdflatex)
restricted \write18 enabled.
entering extended mode
(/home/docs/checkouts/readthedocs.org/user_builds/zj-computer-foundation/checko
uts/latest/docs/source/_build/latex/sphinx.tex
LaTeX2e <2016/02/01>
Babel <3.9q> and hyphenation patterns for 81 language(s) loaded.
...
...
(/usr/share/texlive/texmf-dist/tex/generic/oberdiek/gettitlestring.sty))
(/usr/share/texlive/texmf-dist/tex/latex/psnfss/tlphv.fd)

! Package inputenc Error: Unicode char (U+8BA1)
(inputenc) not set up for use with LaTeX.

See the inputenc package documentation for explanation.
Type H <return> for immediate help.
...

1.74 \sphinxtableofcontents
```

pdfTexpdfAdmin->Advanced Settingspdf

Create a PDF version of your documentation **with** each build.

3.4 ReadtheDocs -

Badges

ReadtheDocs(status badges)

->(Overview)

Projects >

hexo-guide

View Docs

Overview

Downloads

Search

Builds

Versions

Admin

Versions

latest

Public

Edit

Build a version

latest

Build version

Description

hexo建站指南 - 包括生成网站、github pages、域名操作和主题操作

Repository

<https://github.com/zjZSTU/hexo-guide.git>

Project Slug


hexo-guide

Last Built


3 minutes ago

passed

Maintainers



Badge

docs passing 

Tags

Project has no tags. Add some in your [project settings](#).

Project Privacy Level

Public

BadgeGet this badge

