

Li-Pro.Net Sphinx Primer

Version 0.0.3+RTDEXT

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Sep 11, 2020

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Summary of Li-Pro.Net Sphinx Primer

Abstract This document has documentation of the Li–Pro.Net community which is a effort to improve the technical writing of any kind of documents and publishings. In short words: How to write Li-Pro.Net documentation with Sphinx.

Involved Components

- Sphinx
- Docutils
- reStructuredText

Audience

- Project members / maintainer
- Hard- and software developer
- Integrators and testers
- Technical writer / editor

Status preliminary (some mature, much in progress)

Version 0.0.3

Release 0.0.3+RTDEXT

Date Sep 11, 2020

Authors The LP/N Documentation Team

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Version history of Li-Pro.Net Sphinx Primer

Version	Change	Passed	Date
0.0.3	initial content in chapters "Extensions"	Stephan Linz	2020-09-11
0.0.2	initial content in chapters "Cheat Sheet" and	Stephan Linz	2020-09-08
	"Themes"		
0.0.1	base document skeleton	Stephan Linz	2020-09-08
0.0	preliminary, project created	Stephan Linz	2020-09-05

Table 1: Li-Pro.Net Sphinx Primer Document Revisions

PREAMBLE

How to write Li-Pro.Net documentation with Sphinx.

Excerpts from the Sphinx Tutorial by Eric Holscher C and Documentation Style Guide by Bareos GmbH & Co. KG and others C. See [juh2019swdocwspx] for an introduction to Sphinx.

This documentation is built using *Sphinx*, a static-site generator designed to create structured, semantic, and internally consistent documentation. Source documents are written in *reStructuredText*, a semantic, extensible markup syntax similar to Markdown.

- reStructuredText Primer C Introduction to reStructuredText
 - reStructuredText Quick Reference 🗹
 - reStructuredText 1-page cheat sheet I
- Sphinx Markup C Detailed guide to Sphinx's markup concepts and reStructuredText extensions

Note: *Sphinx* and *reStructuredText* can be very flexible. For the sake of consistency and maintainability, this how to guide is *highly opinionated* about how documentation source files are organized and marked up.

Concepts

1

Section author: Stephan Linz <linz@li-pro.net 🗷>

t.b.d.

2 Extensions

Section author: Stephan Linz <linz@li-pro.net C>

2.1 Spelling Checker

PyPI Package https://pypi.org/project/sphinxcontrib-spelling/

Documentation https://sphinxcontrib-spelling.readthedocs.io/

Git Repository https://github.com/sphinx-contrib/spelling

Spelling checker for Sphinx. It uses *PyEnchant* to produce a report showing misspelled words.

Features

- 1. Supports multiple source languages using the standard enchant dictionaries.
- 2. Supports project-specific dictionaries for localized jargon and other terminology that may not appear in the global dictionaries.
- 3. Suggests alternatives to words not found in the dictionary, when possible.

It consists:

2.1.1 Private Dictionaries

For more details, see Configuration Options C section Private Dictionaries.

.. spelling::

The .. spelling:: directive can be used to create a list of words known to be spelled correctly within a single file. For example, if a document refers to a person or project by name, the name can be added to the list of known words for just that single document.

When a more common list of words is needed, related to check multiple document at once, the *spelling word list filename* (page 10) variable should be set properly.

spelling_word_list_filename

That is a list specifying files containing a list of words known to be spelled correctly but that do not appear in the refered language dictionary. The files should contain one word per line. Refer to the *PyEnchant* tutorial for details.

2.2 BibTeX Citations

PyPI Package https://pypi.org/project/sphinxcontrib-bibtex/

Documentation https://sphinxcontrib-bibtex.readthedocs.org/

Git Repository https://github.com/mcmtroffaes/sphinxcontrib-bibtex

Allowing *BibTeX* citations to be inserted into documentation via a .. bibliography:: directive, and a :cite: role, which work similarly to *LaTeX*'s \begin{thebibliography} ... \ end{thebibliography} environment and \cite{cite_key} command. It consists:

- sphinxcontrib.bibtex ⊡: Sphinx interface
- sphinxcontrib.bibtex.roles ♂: Doctree roles
- sphinxcontrib.bibtex.nodes ☑: Doctree nodes
- sphinxcontrib.bibtex.directives ♂: Doctree directives
- sphinxcontrib.bibtex.transforms ☑: Doctree transforms
- sphinxcontrib.bibtex.cache ⊡: Cached information

Create a citation to a bibliographic entry.

Todo: activate "BibTeX Citations" extension.

```
.. rst:role:: cite
For more details, see :rst:role:`scbibtex:cite` role.
:the example:
    .. code-block:: rst
    :linenos:
    See :cite:`juh2014swdocwspx` for an introduction to Sphinx.
:which gives:
```

```
See :cite:`juh2014swdocwspx` for an introduction to Sphinx.
For this sample you will need a corresponding bibliography for all cited
references.
.. rst:directive:: bibliography
  For more details, see :rst:dir:`scbibtex:bibliography` directive.
   :the example:
      .. code-block:: rst
         :linenos:
         .. bibliography:: bibliography.bibtex
            :style: kcsalpha
            :encoding: utf
            :all:
   :which gives:
      .. only:: html or man or texinfo or text
         .. rubric:: Documentation with Sphinx
      .. only:: latex
         All entries in the central document bibliography list, mostly on the
         end of the document.
      .. bibliography:: bibliography.bibtex
         :style: kcsalpha
         :encoding: utf
         :all:
   :which needs:
     The example above processed the following BibTeX file content:
      .. literalinclude:: bibliography.bibtex
         :caption: BibTeX example file (bibliography.bibtex)
         :language: bibtex
         :emphasize-lines: 1
         :start-at: @book
         :linenos:
```

.. spelling::

Hasecke

2.3 LinuxDoc

Documentation https://return42.github.io/linuxdoc/

Git Repository https://github.com/return42/linuxdoc

The LinuxDoc library with extensions of the Linux-Kernel documentation, you can use these extensions in common Sphinx projects. It consists:

- linuxdoc.rstFlatTableC: the .. flat-table:: reST-directive
- linuxdoc.rstKernelDoc 🗷: the .. kernel-doc:: reST-directive
- linuxdoc.kernel_includeC: the .. kernel-include:: reST-directive
- linuxdoc.manKernelDoc ∠: the **kernel-doc-man** builder
- linuxdoc.cdomain ⊡: replacement for the sphinx C-domain
- linuxdoc.kfigure[™]: implements scalable image handling

Todo: activate "LinuxDoc" extension.

2.3.1 Flat list table

.. flat-table::

See also:

About tables 🖙: flat-table 🖙

The .. flat-table::` (FlatTable) is a double-stage list similar to the .. list-table::` with some additional features:

- column-span: with the role :cspan:`num` a cell can be extended through additional columns
- row-span: with the role : rspan: `num` a cell can be extended through additional rows

 auto-span: rightmost cell of a table row over the missing cells on the right side of that tablerow. With Option :fill-cells: this behavior can changed from auto span to auto fill, which automatically inserts (empty) cells instead of spanning the last cell.

Options

:header-rows: (integer)
 count of header rows
:stub-columns: (integer)
 count of stub columns
:widths: (list of integer)
 widths of columns
:fill-cells:
 instead of auto-span missing cells, insert missing cells
Roles
:cspan:
 (integer): additional columns (morecols)
:rspan:
 (integer): additional rows (morerows)

The example below shows how to use this markup. The first level of the staged list is the *table-row*. In the *table-row* there is only one markup allowed, the list of the cells in this *table-row*. Exception are *comments* (\ldots) and *targets* (e.g. a ref to row 2 of table's body \bigcirc).

the example

Attention: line 2: The option : class: longtable will not interpreted from directive . . flat-table:: and has no effects.

```
.. flat-table:: LinuxDoc :rst:`.. flat-table::` example (table title)
1
       :class: longtable
2
       :widths: 15 15 15 15 40
3
       :header-rows: 2
       :stub-columns: 1
5
       * - :rspan:`1` head / stub
7
         - :cspan:`3` head 1.1-4
8
9
       * - head 2.1
10
         - head 2.2
11
12
         - head 2.3
         - head 2.4
13
```

```
14
       * .. row body 1 / this is a comment
15
16
         - row 1
17
         - :rspan:`2` cell 1-3.1
18
         - cell 1.2
19
         - cell 1.3
20
         - cell 1.4
21
22
       * .. Comments and targets are allowed on *table-row* stage.
23
         .. _`row body 2`:
24
25
         - row 2
26
         - cell 2.2
27
         - :rspan:`1` :cspan:`1`
28
           cell 2.3 with a span over
29
30
           * col 3-4 &
31
           * row 2-3
32
33
       * - row 3
34
         - cell 3.2
35
36
       * - row 4
37
         - cell 4.1
38
         - cell 4.2
39
         - cell 4.3
40
         - cell 4.4
41
42
       * - row 5
43
         - cell 5.1 with automatic span to right end
44
45
       * - row 6
46
         - cell 6.1
47
         - .. empty cell 6.2 with automatic span to right end
48
```

:which gives:

.. include:: linuxdoc-flat-table-example.rsti

2.4 Program Output

PyPI Package https://pypi.org/project/sphinxcontrib-programoutput/

Documentation https://sphinxcontrib-programoutput.readthedocs.org/

Git Repository https://github.com/NextThought/sphinxcontrib-programoutput

Literally insert the output of arbitrary commands into documents, helping you to keep your command examples up to date. It consists:

• sphinxcontrib.programoutput ⊡: insert command output

Todo: activate "Program Output" extension.

2.4.1 Complete output

To include the output of a command into your document, use the .. program-output:: directive provided by this extension.

.. program-output::

For more details, see program-output C directive.

The example

```
1 .. program-output:: python --version
```



The whole output of python --version, including any messages on standard error, is inserted into the current document, formatted as literal text without any syntax highlighting. You can omit the content of the standard error stream with the :nostderr: option.

By default, commands are executed in the top-level source directory. You can choose an alternate working directory with the :cwd: option. The argument of this option is either a path relative to the current source file, or a absolute path which means that it is relative to the top level source directory.

2.4.2 Shortening the output

Lengthy output can be shortened with the :ellipsis: option. Its value denotes lines to omit when inserting the output of the command. Instead, a single ellipsis ... is inserted.

the example If used with a single number, all lines after the specified line are omitted:

```
1 .. program-output:: python --help
2 :ellipsis: 2
```

```
:which gives:
The above omits all lines after the second one:
.. program-output:: python --help
:ellipsis: 2
```

Negative numbers count from the last line backwards, thus replacing 2 with -2 in the above example would only omit the last two lines.

the example If used with two comma-separated line numbers, all lines in between the specified lines are omitted. Again, a negative number counts from the last line backwards:

```
1 .. program-output:: python --help
2 :ellipsis: 2,-2
```

:which gives:

The above omits all lines except the first two and the last two lines:

```
.. program-output:: python --help
    :ellipsis: 2,-2
```

2.4.3 Mimicking shell input

You can mimic shell input with the .. command-output:: directive¹. This directive inserts the command along with its output into the document.

```
.. command-output::
```

For more details, see command-output C directive.

The example

```
This directive is just an alias for the .. program-output:: directive with the :prompt: option set.
```

1 .. command-output:: python --version

```
:which gives:
```

.. command-output:: python --version

The appearance of this output can be configured with programoutput_prompt_template. When used in conjunction with :ellipsis:, the command itself and any additional text is *never* omitted. :ellipsis: always refers to the *immediate output* of the command.

the example

```
1 .. command-output:: python --help
2 :ellipsis: 2
```

```
:which gives:
    .. command-output:: python --help
    :ellipsis: 2
```

2.4.4 Command execution and shell expansion

Normally the command is splittet according to the POSIX shell syntax (see shlex), and executed directly. Thus special shell features like expansion of environment variables will not work.

the example

1

```
.. command-output:: echo "$USER"
```

```
:which gives:
    .. command-output:: echo "$USER"
```

To enable these features, enable the : shell: option. With this option, the command is literally passed to the system shell.

the example

```
1 .. command-output:: echo "$USER"
2 :shell:
```

```
which gives:
```

```
.. command-output:: echo "$USER"
    :shell:
```

Other shell features like process expansion consequently work, too.

the example

```
.. command-output:: ls -l $(which grep)
..shell:
```

:which gives:

1

2

```
.. command-output:: ls -l $(which grep)
    :shell:
```

Warning: Remember to use : shell: carefully to avoid unintended interpretation of shell syntax and swallowing of fatal errors!

2.4.5 Error handling

If an unexpected exit code (also known as *return code*) is returned by a command, it is considered to have failed. In this case, a build warning is emitted to help you to detect misspelled commands or similar errors. By default, a command is expected to exit with an exit code of 0, all other codes indicate an error. In some cases however, it may be reasonable to demonstrate failed programs. To avoid a (superfluous) warning in such a case, you can specify the expected return code of a command with the :returncode: option.

the example

1

2

```
.. command-output:: python -c 'import sys, platform; print(sys.

→version); sys.exit(1)'

:returncode: 1
```

```
:which gives:
    ... command-output:: python -c 'import sys, platform; print(sys.version); sys.
    ...exit(1)'
        :returncode: 1
```

The above command returns the exit code 1 (as given to sys.exit()), but no warning will be emitted. On the contrary, a warning will be emitted, should the command return 0!

Note: Upon fatal errors which even prevent the execution of the command neither return code nor command output are available. In this case an error message is inserted into the document instead.

If : shell: is set however, most of these fatal errors are handled by the system shell and turned into return codes instead. In this case the error message will only appear in the output of the shell. If you're

using : shell:, double-check the output for errors. Best avoid : shell:, if possible.

2.5 Mathematical Plots

Attention: Matplotlib does not support labels and auto-references. You can not refer to a equation and you will never see an entry to ... mathmpl:: expressions in the list of equations.

 PyPI Package https://pypi.org/project/matplotlib/C

 Project Home https://matplotlib.org/C

 Documentation https://matplotlib.org/contents.htmlC

 Git Repository https://github.com/matplotlib/matplotlibC

Documentation https://matplotlib.org/sampledoc/index.html

Git Repository https://github.com/matplotlib/sampledoc

Matplotlib is a comprehensive library for creating static, animated, and interactive visualizations in Python. It consists:

- matplotlib.sphinxext.mathmpl: Matplotlib math-text in a Sphinx document
- matplotlib.sphinxext.plot_directive C: Matplotlib plot in a Sphinx document

Todo: activate "Mathematical Plots" extension.

2.5.1 Expressions

See the Writing mathematical expressions *C* for lots more information how to writing mathematical expressions in matplotlib.

```
With matplotlib in Sphinx you can include inline math
:mathmpl:`(\alpha^{ic} > \beta_{ic})` (as role
:rst:`:mathmpl:`(\alpha^{ic} > \beta_{ic})``) or display math:
.. mathmpl::
   \sum_{i=0}^\infty x_i
```

.. mathmpl::

The example

1 .. mathmpl::
2
3 \left(\frac{5 - \frac{1}{x}}{4}\right)

:which gives:

.. include:: matplotlib-mathmpl-example.rsti

2.5.2 Plots

.. plot::

See the matplotlib Pyplot tutorial 🖓 and the Gallery 🖓 for lots of examples of matplotlib plots. The source code for the plot may be included in one of three ways:

inline content

the example

```
.. plot::
1
      :align: center
2
      :scale: 75
3
4
      import matplotlib.pyplot as plt
5
      import matplotlib.image as mpimg
6
      import numpy as np
7
      img = mpimg.imread('https://github.com/matplotlib/matplotlib/raw/
8
   →master/doc/_static/stinkbug.png')
      imgplot = plt.imshow(img)
9
```

:which gives:

.. include:: matplotlib-inline-example.rsti

doctest content

the example

```
1 .. plot::
2 :format: doctest
3 :align: center
4 :scale: 75
5 5
6 >>> import matplotlib.pyplot as plt
7 >>> plt.plot([1, 2, 3], [4, 5, 6]) # doctest: +ELLIPSIS
8 [<matplotlib.lines.Line2D object at 0x...>]
```

:which gives:

.. include:: matplotlib-doctest-example.rsti

source file content

When a path to a source file is given, the Sphinx configuration option plot_basedir will respect. It is the base directory, to which ... plot:: file names are relative to. If **None or empty**, file names are **relative** to the directory where the file containing the directive is.

```
.. ifconfig:: not plot_basedir
    :plot_basedir: **None or empty**, file names are **relative**
.. ifconfig:: plot_basedir
    :plot_basedir: currently set to :file:`{plot_basedir}`.
```

the example

```
1 .. plot:: ellipses.py
2 :include-source:
3 :encoding: utf
4 :format: python
5 :align: center
6 :scale: 75
```

:which gives:

.. include:: matplotlib-srcfile-example.rsti

3D-Plots

See mplot3d ☑, mplot3d FAQ ☑, and mplot3d API ☑.

the example

```
.. plot::
1
      :format: python
2
      :align: center
3
      :scale: 75
      import matplotlib.pyplot as plt
      from matplotlib import cm
7
      from mpl_toolkits.mplot3d import axes3d
8
      fig = plt.figure()
10
      ax = fig.gca(projection='3d')
11
      X, Y, Z = axes3d.get_test_data(0.005)
12
      ax.plot_surface(X, Y, Z, rstride=8, cstride=8, alpha=0.3)
13
      cset = ax.contourf(X, Y, Z, zdir='z', offset=-100, cmap=cm.coolwarm)
14
      cset = ax.contourf(X, Y, Z, zdir='x', offset=-40, cmap=cm.coolwarm)
15
      cset = ax.contourf(X, Y, Z, zdir='y', offset=40, cmap=cm.coolwarm)
16
17
      ax.set_xlabel('X'); ax.set_xlim(-40, 40)
18
      ax.set ylabel('Y'); ax.set ylim(-40, 40)
19
      ax.set_zlabel('Z'); ax.set_zlim(-100, 100)
20
21
      plt.show()
22
```

:which gives:

.. include:: matplotlib-mplot3d-example.rsti

2.6 PGF/TikZ LaTeX Pictures

Attention: Only practicable and usable for HTML and LaTeX builder.

PyPI Package https://pypi.org/project/sphinxcontrib-tikz/

Documentation http://sphinxcontrib-tikz.readthedocs.io/

Git Repository https://bitbucket.org/philexander/tikz

Sphinx extension, which enables the use of the *PGF/TikZ LaTeX* package to draw nice pictures.

This extension relies on two software packages being installed on your computer:

- 1. latex with the tikz and the amsmath packages
- 2. A software package that is able to convert a PDF to an image. Currently, four different ways of doing this conversion are supported, called conversion "suites". Below is a list for each suite what must be installed on your computer. Only one such suite need to be installed:
 - pdf2svg suite: pdf2svg (preferred, default)
 - Netpbm suite: pdftoppm (part of the Poppler PDF library) and pnmtopng (part of the Netpbm package)
 - ImageMagick suite: pdftoppm (part of the Poppler PDF library) and convert (part of the ImageMagick package)
 - GhostScript suite: ghostscript

See Configuration \square in the extension documentation for more details.

Todo: activate "PGF/TikZ LaTeX Pictures" extension.

:tikz:

For more details, see $Usage \mathbb{C}$ in the extension documentation.

inline content

The example

```
1 An example role :tikz:`[thick] \node[blue,draw] (a) {A};
```

2 \node[draw,dotted,right of=a] {B} edge[<-] (a);`</pre>

:which gives:

.. include:: tikz-inline-example.rsti

.. tikz::

For more details, see $Usage \mathbb{C}^{r}$ in the extension documentation.

explicit markup

The example

```
1 .. rst-class:: centered
2 .. tikz:: [>=latex',dotted,thick] \draw[->] (0,0) -- (1,1) -- (1,0)
3 -- (2,0);
4 :libs: arrows
```

:which gives:

```
.. include:: tikz-explicit-example.rsti
```

from source file

The example

```
1 .. rst-class:: centered
2 .. tikz:: Control system principles (PGF/TikZ example)
3 :include: tikz/ctrloop.tikz
4 :libs: arrows,shapes
```

:which gives:

.. include:: tikz-srcfile-example.rsti

Which needs The example above comes from the Control system principles web page and processed the following TikZ file content:

Listing 2.1: TikZ example file (ctrloop.tikz)

```
[auto, node distance=2cm,>=latex']
1
   \tikzstyle{block} = [draw, fill=blue!20, rectangle,
2
                        minimum height=3em, minimum width=6em]
3
   \tikzstyle{sum} = [draw, fill=blue!20, circle, node distance=1cm]
4
   \tikzstyle{input} = [coordinate]
5
   \tikzstyle{output} = [coordinate]
6
   \tikzstyle{pinstyle} = [pin edge={to-,thin,black}]
7
   % placing the blocks
8
   \node [input, name=input] {};
9
   \node [sum, right of=input] (sum) {};
10
   \node [block, right of=sum] (controller) {Controller};
11
   \node [block, right of=controller, pin=
12

→{[pinstyle]above:Disturbances},
```

```
node distance=3cm] (system) {System};
13
   % draw an edge between the controller and system block to calculate
14
   % the coordinate -- need it to place the measurement block
15
   \draw [->] (controller) -- node[name=u] {$u$} (system);
16
   \node [output, right of=system] (output) {};
17
   \node [block, below of=u] (measurements) {Measurements};
18
   % once the nodes are placed, connecting them is easy
19
   \draw [draw,->] (input) -- node {$r$} (sum);
20
   \draw [->] (sum) -- node {$e$} (controller);
21
   \draw [->] (system) -- node [name=y] {$y$}(output);
22
   \draw [->] (y) |- (measurements);
23
   \draw [->] (measurements) -| node[pos=0.99] {$-$}
24
                                  node [near end] {$y_m$} (sum);
25
26
   %Local variables:
27
   % coding: utf-8
28
   % mode: text
29
   % mode: rst
30
   % End:
31
   % vim: fileencoding=utf-8 filetype=tex :
32
```

2.7 Block Diagram Family

Todo: activate "Block Diagram Family" extensions.

blockdiag 🗹 and its family generate diagram images from simple text files:

```
.. blockdiag::
    blockdiag {
        blockdiag -> generates -> "block-diagrams";
        blockdiag -> is -> "very easy!";
        blockdiag [color = "greenyellow"];
        "block-diagrams" [color = "pink"];
        "very easy!" [color = "orange"];
    }
```

Features

- 1. Supports many types of diagrams
 - block diagram (w/ blockdiag ☑)

- sequence diagram (w/ seqdiag ^I)
- activity diagram (w/ actdiag ☑)
- logical network diagram (w/ nwdiag ^I)
- rack-structure diagram (w/ rackdiag ^C)
- packet header diagram (w/ packetdiag ^I)
- 2. Generates beautiful diagram images from simple text format (similar to Graphviz's dot format)
- 3. Layouts diagram elements automatically
- 4. Embeds to many documentations; Sphinx, Trac, Redmine, and some Wikis

2.7.1 Block Diagram

sphinxcontrib-blockdiag C is a Sphinx extension for embedding block diagrams. You can embed block diagrams with the ... blockdiag:: directive.

PyPI Package https://pypi.org/project/sphinxcontrib-blockdiag/

Documentation http://blockdiag.com/en/blockdiag/sphinxcontrib.html

Git Repository https://github.com/blockdiag/sphinxcontrib-blockdiag

Sphinx extension for embedding block diagrams using blockdiag

Features

- 1. Generate block-diagram from dot like text (basic feature).
- 2. Multilingualism for node-label (utf-8 only).

Todo: activate "Block Diagram" extension.

Directive Body Diagram

.. blockdiag::

For more details, see sphinxcontrib-blockdiag C in the extension demonstration and the README. rst in the extension Git repository.

The example

```
5 A -> B -> C;
6 B -> D;
7 }
```

:which gives:

.. **include**:: blockdiag-directive-body-example.rsti

Description Table

the example

```
.. blockdiag::
1
       :align: center
2
       :desctable:
3
4
      blockdiag {
5
           A -> B -> C;
6
           A [description = "browsers in each client"];
7
           B [description = "web server"];
8
          C [description = "database server"];
9
      }
10
```

:which gives:

.. include:: blockdiag-description-table-example.rsti

Include Diagram

the example

```
:which gives:
```

.. blockdiag:: block.diag
 :caption: Style attributes to nodes and edges (Block Diagram example)
 :align: center
 :width: 640

which needs The example above comes from the original Sample diagrams C web page and processed the following file content:

Listing 2.2:	Block Diagram	example file	(block.diag)
--------------	---------------	--------------	--------------

```
blockdiag {
1
       // Set boder-style, backgroun-color and text-color to nodes.
2
       A [style = dotted];
3
       B [style = dashed];
4
       C [color = pink, style = "3,3,3,3,15,3"]; //dashed_array format_
5
   →style
       D [shape = circle, color = "#8888888", textcolor="#FFFFFF"];
6
7
       // Set border-style and color to edges.
8
       A -> B [style = dotted];
9
       B -> C [style = dashed];
10
       C -> D [color = "red", style = "3,3,3,3,15,3"]; //dashed_array_
11
   → format style
12
       // Set numbered-badge to nodes.
13
       E [numbered = 99];
14
15
       // Set background image to nodes (and erase label).
16
       F [label = "", background = "https://github.com/sphinx-doc/sphinx/
17
   →raw/master/doc/ static/sphinx.png"];
       G [label = "", background = "https://www.python.org/static/
18
   H [icon = "https://github.com/blockdiag/blockdiag.com/raw/master/
19
   →sources/en/_static/help-browser.png"];
       I [icon = "https://github.com/blockdiag/blockdiag.com/raw/master/
20

sources/en/_static/internet-mail.png"];

       J [shape = actor]
21
22
       // Set arrow direction to edges.
23
       E -> F [dir = none, label = edge];
24
       F -> G [dir = forward];
25
       G -> H [dir = back];
26
27
       group {
28
           orientation = portrait;
29
           color = lightgray;
30
           H -> I [dir = both];
31
       }
32
33
       // Set width and height to nodes.
34
       K [width = 192]; // default value is 128
35
       L [shape = square, height = 64]; // default value is 40
36
                                                           (continues on next page)
```

37
38
39
39
40
40
41
}
// Use thick line
J -> K [thick]
K -> L;
41
}

2.7.2 Sequence Diagram

sphinxcontrib-seqdiag is a Sphinx extension for embedding sequence diagrams. You can embed sequence diagrams with the . . seqdiag:: directive.

PyPI Package https://pypi.org/project/sphinxcontrib-seqdiag/

Documentation http://blockdiag.com/en/seqdiag/sphinxcontrib.html

Git Repository https://github.com/blockdiag/sphinxcontrib-seqdiag

Sphinx extension for embedding sequence diagrams using seqdiag

Features

- 1. Generate sequence-diagram from dot like text (basic feature).
- 2. Multilingualism for node-label (utf-8 only).

Todo: activate "Sequence Diagram" extension.

Directive Body Diagram

.. seqdiag::

For more details, see sphinxcontrib-seqdiag C in the extension demonstration and the README. rst in the extension Git repository.

The example

```
.. seqdiag::
1
       :align: center
2
3
      seqdiag {
4
           # define order of elements
5
           # seqdiag sorts elements by order they appear
6
           browser; database; webserver;
7
8
           browser -> webserver [label = "GET /index.html"];
9
           browser <-- webserver;</pre>
10
```

```
browser -> webserver [label = "POST /blog/comment"];
11
                        webserver -> database [label = "INSERT comment
12
    →"];
                        webserver <-- database;</pre>
13
           browser <-- webserver;</pre>
14
      }
```

:which gives:

15

.. include:: seqdiag-directive-body-example.rsti

Description Table

the example

```
.. seqdiag::
1
      :align: center
2
      :desctable:
3
4
      seqdiag {
5
          A -> B -> C;
6
          A [description = "browsers in each client"];
7
          B [description = "web server"];
8
          C [description = "database server"];
9
      }
10
```

:which gives:

.. include:: seqdiag-description-table-example.rsti

Include Diagram

the example

```
.. seqdiag:: seq.diag
1
      :caption: Style attributes to diagram and edges (Sequence Diagram,
2
   \rightarrowexample)
      :align: center
3
      :height: 640
4
```

:which gives:

```
.. seqdiag:: seq.diag
    :caption: Style attributes to diagram and edges (Sequence Diagram example)
    :align: center
    :height: 640
```

which needs The example above comes from the original Sample diagrams \square web page and processed the following file content:

Listing 2.3: Sequence Diagram example file (seq.diag)

```
seqdiag {
1
       // Set edge metrix.
2
       edge_length = 300; // default value is 192
3
       span_height = 80; // default value is 40
4
5
       // Set fontsize.
6
       default_fontsize = 16; // default value is 11
7
8
       // Do not show activity line
       activation = none;
10
11
       // Numbering edges automaticaly
12
       autonumber = True;
13
14
       // Change note color
15
       default_note_color = lightgreen;
16
17
       browser -> webserver [label = "GET \n/index.html"];
18
       browser <-- webserver [note = "Apache works!"];</pre>
19
20
       // Separator
21
       === Separator line ===
22
23
       // color of edge
24
       browser -> webserver [label = "misformatted", color = red];
25
26
       // failed edge
27
       browser -> webserver [label = "failed browser", failed];
28
   }
29
```

2.7.3 Activity Diagram

sphinxcontrib-actdiag C is a Sphinx extension for embedding activity diagrams. You can embed activity diagrams with the .. actdiag::` directive.

PyPI Package https://pypi.org/project/sphinxcontrib-actdiag/

Documentation http://blockdiag.com/en/actdiag/sphinxcontrib.html

Git Repository https://github.com/blockdiag/sphinxcontrib-actdiag

Sphinx extension for embedding activity diagrams using actdiag \mathbb{C} .

Features

- 1. Generate activity-diagram from dot like text (basic feature).
- 2. Multilingualism for node-label (utf-8 only).

Todo: activate "Activity Diagram" extension.

Directive Body Diagram

.. actdiag::

For more details, see sphinxcontrib-actdiag \square in the extension demonstration and the README. rst in the extension Git repository.

The example

1	actdiag::
2	:align: center
3	:scale: 75
4	
5	actdiag {
6	A -> B -> C -> D;
7	
8	lane foo {
9	A; B;
10	}
11	lane bar {
12	C; D;
13	}
14	}

:which gives:

.. include:: actdiag-directive-body-example.rsti

Description Table

the example

```
.. actdiag::
1
       :align: center
2
       :scale: 75
3
       :desctable:
4
5
      actdiag {
6
            A -> B -> C;
7
            A [description = "browsers in each client"];
8
            B [description = "web server"];
9
            C [description = "database server"];
10
      }
11
```

```
:which gives:
```

.. include:: actdiag-description-table-example.rsti

Include Diagram

the example

:which gives:

```
.. actdiag:: act.diag
    :caption: Style attributes to frames and nodes (Activity Diagram example)
    :align: center
    :scale: 75
    :width: 640
```

which needs The example above comes from the original Sample diagrams **C** web page and processed the following file content:

```
actdiag {
1
       write -> convert -> image;
2
3
       lane user {
4
             label = "User";
5
             write [label = "Writing reST"];
6
             image [label = "Get diagram IMAGE"];
7
       }
8
       lane actdiag {
9
             convert [label = "Convert reST to Image"];
10
       }
11
   }
12
```

Listing 2.4: Activity Diagram example file (act.diag)

2.7.4 Network Diagram

sphinxcontrib-nwdiag C is a Sphinx extension for embedding network diagrams. You can embed network diagrams with the ... nwdiag::, ... rackdiag:: and ... packetdiag:: directives.

PyPI Package https://pypi.org/project/sphinxcontrib-nwdiag/

Documentation http://blockdiag.com/en/nwdiag/sphinxcontrib.html

Git Repository https://github.com/blockdiag/sphinxcontrib-nwdiag

Sphinx extension for embedding network diagrams using nwdiag

Features

- 1. Generate network-diagram from dot like text (basic feature).
- 2. Multilingualism for node-label (utf-8 only).

Todo: activate "Network Diagram" extension.

Directive Body Diagram

.. nwdiag::

For more details, see sphinxcontrib-nwdiag \mathbb{C} in the extension demonstration and the README . rst in the extension Git repository.

The example

```
.. nwdiag::
1
       :align: center
2
       :scale: 75
3
4
       nwdiag {
5
           network dmz {
6
                web01;
7
                web02;
8
           }
9
       }
10
```

```
:which gives:
```

.. include:: nwdiag-directive-body-example.rsti

Description Table

the example

```
.. nwdiag::
1
       :align: center
2
       :scale: 75
3
       :desctable:
4
5
       nwdiag {
6
           network dmz {
7
               web01 [address = "192.168.0.1", description = "web server01
8
    ⇔"];
               web02 [address = "192.168.0.2", description = "web server02
9
    ⇔"];
           }
10
           network internal {
11
               web01 [address = "172.0.0.1"];
12
               db01 [address = "172.0.0.2,172.0.0.20", description =
13
    \rightarrow "database server"];
           }
14
      }
15
```

:which gives: ... include:: nwdiag-description-table-example.rsti

Include Diagram

Network

the example

```
1 .. nwdiag:: nw.diag
2 caption: Peer networks and grouping nodes (Network Diagram example)
3 calign: center
4 cscale: 75
5 width: 640
```

:which gives:

```
.. nwdiag:: nw.diag
.. nwdiag:: nw.diag
..caption: Peer networks and grouping nodes (Network Diagram example)
.align: center
.scale: 75
.width: 640
```

which needs The example above comes from the original Sample diagrams: nwdiag web page and processed the following file content:

```
nwdiag {
1
        inet [shape = cloud];
2
        inet -- router;
3
4
        network front {
5
             address = "192.168.0.0/24";
6
             router;
7
             web01;
8
             web02;
10
             // define network using defined nodes
11
             group db {
12
                 web01;
13
                 web02;
14
             }
15
        }
16
17
   }
```

Listing 2.5: Network Diagram example file (nw.diag)

Rack

.. rack::

For more details, see sphinxcontrib-nwdiag \mathbb{C} in the extension demonstration and the README . rst in the extension Git repository.

The example

:which gives:

```
.. rackdiag:: rack.diag
    :caption: Multiple racks with multiple and blocked units (Rack Diagram」
    example)
        :align: center
        :height: 480
```

Which needs The example above comes from the original Sample diagrams: rackdiag web page and processed the following file content:

```
rackdiag {
1
        default_fontsize = 10;
2
3
        // define 1st (height) rack
4
        rack {
5
            16U;
6
7
            // define rack items
8
            1: UPS [2U, fontsize = 14];
9
            3: DB Server;
10
            // put 2 units to rack-level 4
11
            4: Web\nServer 1;
12
            4: Web\nServer 2;
13
            5: Web\nServer 3;
14
            5: Web\nServer 4;
15
            7: Load Balancer;
16
            8: L3 Switch;
17
        }
18
19
        // define 2nd rack
20
        rack {
21
            12U;
22
23
            // define rack items
24
            1: UPS [2U, fontsize = 14];
25
            3: DB Server;
26
            4: Web Server;
27
            5: Web Server;
28
            6: Web Server;
29
            7: Load Balancer;
30
            8: L3 Switch;
31
        }
32
33
        // define 3rd rack (with not available units)
34
        rack {
35
            12U;
36
37
            1: Server;
38
            2: Server;
39
            3: Server;
40
            4: Server;
41
            5: N/A [8U, fontsize = 14];
42
        }
43
44
   }
```

Listing 2.6: Rack Diagram example file (rack.diag)

Packet

.. packet::

For more details, see sphinxcontrib-nwdiag \square in the extension demonstration and the README. rst in the extension Git repository.

The example

```
1 .. packetdiag:: packet.diag
2 caption: Structure of TCP Header (Packet Diagram example)
3 calign: center
4 :width: 640
```

:which gives:

```
.. packetdiag:: packet.diag
    :caption: Structure of TCP Header (Packet Diagram example)
    :align: center
    :width: 640
```

Which needs The example above comes from the original Sample diagrams: packetdiag web page and processed the following file content:

Listing 2.7: Packet Diagram example file (packet.diag)

```
packetdiag {
1
        colwidth = 32;
2
        node height = 40;
3
        default_fontsize = 12;
4
5
        0-15: Source Port;
6
        16-31: Destination Port;
7
        32-63: Sequence Number;
8
        64-95: Acknowledgment Number;
9
        96-99: Data\nOffset;
10
        100-105: Reserved;
11
        106: URG [rotate = 270];
12
        107: ACK [rotate = 270];
13
        108: PSH [rotate = 270];
14
        109: RST [rotate = 270];
15
        110: SYN [rotate = 270];
16
        111: FIN [rotate = 270];
17
        112-127: Window;
18
        128-143: Checksum;
19
        144-159: Urgent Pointer;
20
        160-191: (Options and Padding);
21
        192-223: Data [colheight = 3];
22
```

2.8 Tabbed Content

23 }

Attention: Only practicable and usable for HTML builder.

PyPI Package https://pypi.org/project/sphinx-tabs/

Documentation https://sphinx-tabs.readthedocs.io/

Git Repository https://github.com/executablebooks/sphinx-tabs

Create tabbed content in Sphinx documentation when building HTML.

Features

- 1. Basic and nested tabs.
- 2. Grouped Tabs.
- 3. Code Tabs.

Todo: activate "Tabbed Content" extension.

```
.. tabs::
```

.. tab::

For more details, see Simple Tabs C in the extension demonstration and the README.md in the extension Git repository.

The example

```
.. tabs::
1
2
       .. tab:: **Apples**
3
4
          Apples are green, or sometimes red.
5
6
       .. tab:: **Pears**
7
8
          Pears are green.
9
10
       .. tab:: **Oranges**
11
```

```
(continued from previous page)

<sup>12</sup>

<sup>13</sup> Oranges are orange.
```

:which gives:

Г

.. include:: sphinx-tabs-example.rsti

Nested tabs are also possible.

The example

1	tabs::
2	
3	tab:: Stars
4	
5	tabs::
6	
7	tab:: The Sun
8	
9	The closest star to us.
10	tab:: Proxima Centauri
11 12	
	The second closest star to us.
13	
14 15	tab:: Polaris
16	
17	The North Star.
18	
19	tab:: Moons
20	
21	tabs::
22	
23	tab:: The Moon
24	
25	Orbits the Earth
26	
27	tab:: Titan
28	
29	Orbits Jupiter

```
:which gives:
```

.. include:: sphinx-tabs-nested-example.rsti

.. group-tab::

Also tabs can stick together in groups.

The example

```
.. rubric:: operating systems
1
2
   .. tabs::
3
4
       .. group-tab:: Linux
5
6
         **Linux** is Unix-like, but was developed without any Unix
7
    →code.
         The Linux kernel originated in 1991, as a project of Linus
8
         Torvalds, while a university student in Finland.
9
10
      .. group-tab:: Mac OS X
11
12
         **Mac OS X** is a line of open core graphical operating
13
    →systems
         developed, marketed, and sold by Apple Inc.
14
15
      .. group-tab:: Microsoft Windows
16
17
         **Microsoft Windows** is a family of proprietary operating.
18
    →systems
         designed by Microsoft Corporation and primarily targeted to
19
         Intel architecture based computers.
20
21
   .. rubric:: integrated development environments
22
23
   .. tabs::
24
25
      .. group-tab:: Linux
26
27
         **There is no dedicated or default integrated development
28
         environment (IDE)** on *Linux*. `Here is a list`_ of IDEs
29
         which will run natively on *Linux*.
30
31
      .. group-tab:: Mac OS X
32
33
         **Xcode** is an integrated development environment (IDE) for
34
         *Mac OS X* containing a suite of software development tools
35
          developed by Apple Inc.
36
37
       .. group-tab:: Microsoft Windows
38
39
          **Microsoft Visual Studio** is an integrated development
40
         environment (IDE) from Microsoft Corporation. It is used to
41
                                                           (continues on next page)
```

```
42 develop computer programs uses Microsoft software development
43 platforms such as *Windows API*, *Windows Forms*, *Windows
44 Presentation Foundation*, *Windows Store* and *Microsoft
45 Silverlight*.
46
47 ..._`Here is a list`:
48 https://en.wikipedia.org/wiki/Category:Linux_integrated_
→development_environments
```

:which gives:

.. include:: sphinx-tabs-group-example.rsti

2.9 Paneled Content

Attention: Only practicable and usable for HTML builder.

PyPI Package https://pypi.org/project/sphinx-panels/

Documentation https://sphinx-panels.readthedocs.io/

Git Repository https://github.com/executablebooks/sphinx-panels

Create paneled content in Sphinx documentation when building HTML.

Features

- 1. Panels in grid or cards layout.
- 2. Panels with click-able link-button.
- 3. Panels with toggle-able content by drop-downs.
- 4. Panels with styling: header, footer, images, icons, badges, animations

For more details, see sphinx-panels \mathbb{C}^{2} in the extension demonstration and the README . md in the extension Git repository.

Todo: activate "Paneled Content" extension.

.. panels::

For more details, see Panels Usage

.. dropdown::

For more details, see Dropdown Usage \mathbb{C} .

2.9. Paneled Content

- .. link-button:: For more details, see Link Buttons C.
- .. div:: For more details, see Div Directive C.
- :badge:
- :link-badge:

For more details, see Link Badges ∠.

:opticon:

:fa:

For more details, see Inline Icons \mathbb{C} .

Extension not applicable

This Sphinx extension is quite new and is under constant development. The current behavior disturbs the integration, so the extension is disabled for now (see conf.py). Currently known bugs are:

- annoying side effects with the *Tabbed Content* (page 42) extension by the automatically integrated and delivered Bootstrap 4.0 CSS
- no proper and practical LaTeX builder support

2.10 Email Obfuscate

Attention: Only practicable and usable for HTML builder.

PyPI Package https://pypi.org/project/sphinxcontrib-email/

Documentation https://github.com/sphinx-contrib/email/blob/master/README.rst

Git Repository https://github.com/sphinx-contrib/email

Python 3 Fixes https://github.com/rexut/sphinxcontrib-email/tree/python3-fixes

Todo: activate "Email Obfuscate" extension.

To obfuscate an email address use something like:

:email:`Name Surname <user@myplace.org>`
:email:`Name Surname (user@myplace.org)`

That renders as Name Surname with the appropriate mailto link.

```
:email:`user@myplace.org`
```

That renders as user@myplace.org with the appropriate mailto link.

:email:

The example

1 * :email:`Name Surname <user@myplace.org>`
2 * :email:`Name Surname (user@myplace.org)`
3 * :email:`user@myplace.org`

:which gives:

```
.. include:: email-example.rsti
```

Section author: Stephan Linz <linz@li-pro.net C>

Let's decorate the project documentation. There are a lot of themes for the Sphinx HTML builder available on the Sphinx Themes Demo Page \mathbb{Z} .

This documentation use the Read the Docs Sphinx Theme \mathbb{C} as demonstrate at the Sphinx RTD Theme Demo Page \mathbb{C} .

Another interesting and actively developed theme is The Sphinx Book Theme , the theme by The Executable Book Project .

3.1 Read the Docs Sphinx Theme

PyPI Package https://pypi.org/project/sphinx-rtd-theme/

Documentation https://sphinx-rtd-theme.readthedocs.io/

Git Repository https://github.com/readthedocs/sphinx_rtd_theme

This theme is primarily focused to be used on Read the Docs \square but can work with your own sphinx projects. You can find a working demo of the theme in the theme documentation \square .

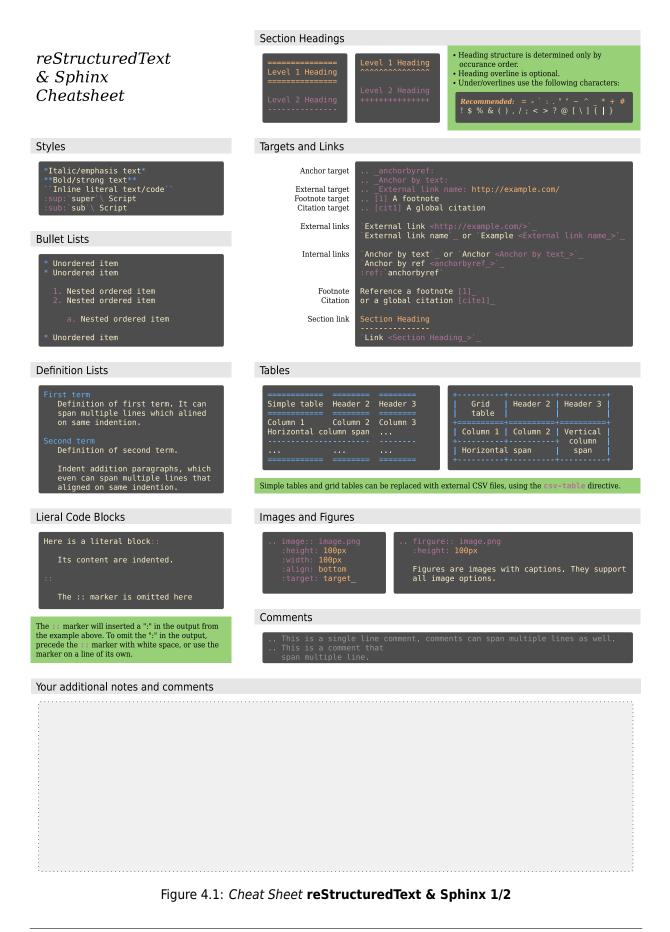


Cheat Sheet

4

Section author: Stephan Linz <linz@li-pro.net C>

We have made a cheat sheet for helping you remember the syntax for *reStructuredText* & *Sphinx* programs. The basic reStructuredText Cheat Sheet C could also be very helpful.



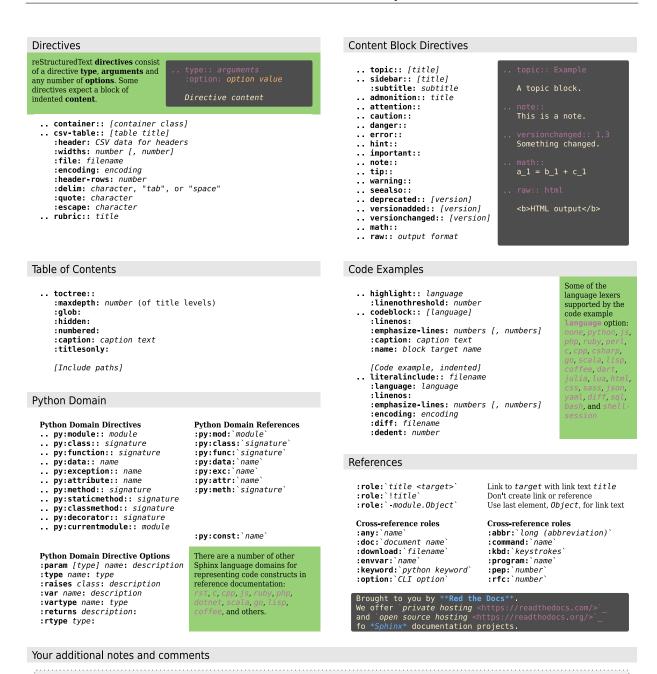


Figure 4.2: Cheat Sheet reStructuredText & Sphinx 2/2



Appendix

Section author: Stephan Linz <linz@li-pro.net C>

A.1 License

Listing 1.1: License text of the Li-Pro.Net Sphinx Prime
--

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1. Definitions

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B.1 Terms

B.1.1 Commons

Docutils Docutils is an open-source text processing system for processing plaintext documentation into useful formats, such as HTML, LaTeX, man-pages, open-document or XML. It includes *reStructuredText*, the easy to read, easy to use, what-you-see-is-what-you-get plaintext markup language.

See also:

- English Wikipedia: reStructuredText
- **LaTeX** LaTeX C is a document preparation system for high-quality typesetting. It is most often used for medium-to-large technical or scientific documents but it can be used for almost any form of publishing. LaTeX uses the *TeX* typesetting program for formatting its output, and is itself written in the *TeX* macro language.

See also:

• English Wikipedia: LaTeX 🗹

PyEnchant PyEnchant **C** is a Python binding for *Enchant*.

reStructuredText reStructuredText **C** (**RST**, **ReST**, or **reST**) is a file format for textual data used primarily in the Python programming language community for technical documentation. It is part of the *Docutils* project of the Python Doc-SIG (Documentation Special Interest Group)

See also:

English Wikipedia: reStructuredText I

Sphinx Sphinx C is a documentation generator written and used by the Python community. It is written in Python, and also used in other environments. Sphinx converts reStructuredText files into HTML websites and other formats including PDF, EPub, Texinfo and man.

reStructuredText is extensible, and Sphinx exploits its extensible nature through a number of extensions-for autogenerating documentation from source code, writing mathematical notation or highlighting source code, etc.

See also:

• English Wikipedia: Sphinx (documentation generator)

B.1.2 Technologies

BibTeX BibTeX **C** is a widely used bibliography management tool in *LaTeX*, with BibTeX the bibliography entries are kept in a separate file and then imported into the main document.

See also:

- English Wikipedia: BibTeX 🗹
- **Enchant** Enchant C is a free software project developed as part of the AbiWord word processor with the aim of unifying access to the various existing spell-checker software.

See also:

• English Wikipedia: Enchant (software) 🗹

PGF

TikZ

- **PGF/TikZ** PGF/TikZ **C** is a pair of languages for producing vector graphics (for example: technical illustrations and drawings) from a geometric/algebraic description, with standard features including the drawing of points, lines, arrows, paths, circles, ellipses and polygons. PGF, the *Portable Graphic Format*, is a lower-level language, while TikZ, which is written in *TeX*, is a set of higher-level macros that use PGF.
 - English Wikipedia: PGF/TikZ 🗹
- **TeX** TeX is a computer language designed for use in typesetting system; in particular, for typesetting math and other technical material. It has been noted as one of the most sophisticated digital typographical systems and is also used for many other typesetting tasks, especially in the form of *LaTeX*, ConTeXt, and other macro packages.
 - English Wikipedia: TeX 🗹

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List of Issues (To-Do)

Todo: activate "BibTeX Citations" extension.

(The original entry (page 10) is located in /home/docs/checkouts/readthedocs.org/user_builds/lpn-docsphinx-primer/checkouts/0.0.3/source/extensions/bibtex.rst, line 28.)

Todo: activate "Block Diagram Family" extensions.

(The original entry (page 27) is located in /home/docs/checkouts/readthedocs.org/user_builds/lpn-docsphinx-primer/checkouts/0.0.3/source/extensions/blockdiag.rst, line 9.)

Todo: activate "Activity Diagram" extension.

(The original entry (page 34) is located in /home/docs/checkouts/readthedocs.org/user_builds/lpn-docsphinx-primer/checkouts/0.0.3/source/extensions/blockdiag/actdiag.rst, line 25.)

Todo: activate "Block Diagram" extension.

(The original entry (page 28) is located in /home/docs/checkouts/readthedocs.org/user_builds/lpn-docsphinx-primer/checkouts/0.0.3/source/extensions/blockdiag/blockdiag.rst, line 25.)

Todo: activate "Network Diagram" extension.

(The original entry (page 36) is located in /home/docs/checkouts/readthedocs.org/user_builds/lpn-doc-sphinx-primer/checkouts/0.0.3/source/extensions/blockdiag/nwdiag.rst, line 25.)

Todo: activate "Sequence Diagram" extension.

(The original entry (page 31) is located in /home/docs/checkouts/readthedocs.org/user_builds/lpn-doc-sphinx-primer/checkouts/0.0.3/source/extensions/blockdiag/seqdiag.rst, line 25.)

Todo: activate "Email Obfuscate" extension.

(The original entry (page 46) is located in /home/docs/checkouts/readthedocs.org/user_builds/lpn-doc-sphinx-primer/checkouts/0.0.3/source/extensions/email.rst, line 18.)

Todo: activate "LinuxDoc" extension.

(The original entry (page 12) is located in /home/docs/checkouts/readthedocs.org/user_builds/lpn-doc-sphinx-primer/checkouts/0.0.3/source/extensions/linuxdoc.rst, line 22.)

Todo: activate "Mathematical Plots" extension.

(The original entry (page 19) is located in /home/docs/checkouts/readthedocs.org/user_builds/lpn-docsphinx-primer/checkouts/0.0.3/source/extensions/matplotlib.rst, line 30.)

Todo: activate "Program Output" extension.

(The original entry (page 15) is located in /home/docs/checkouts/readthedocs.org/user_builds/lpn-doc-sphinx-primer/checkouts/0.0.3/source/extensions/programoutput.rst, line 18.)

Todo: activate "Paneled Content" extension.

(The original entry (page 45) is located in /home/docs/checkouts/readthedocs.org/user_builds/lpn-doc-sphinx-primer/checkouts/0.0.3/source/extensions/sphinx-panels.rst, line 29.)

Todo: activate "Tabbed Content" extension.

(The original entry (page 42) is located in /home/docs/checkouts/readthedocs.org/user_builds/lpn-docsphinx-primer/checkouts/0.0.3/source/extensions/sphinx-tabs.rst, line 25.)

Todo: activate "PGF/TikZ LaTeX Pictures" extension.

(The original entry (page 25) is located in /home/docs/checkouts/readthedocs.org/user_builds/lpn-doc-sphinx-primer/checkouts/0.0.3/source/extensions/tikz.rst, line 39.)

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[juh2019swdocwspx] Jan Ulrich Hasecke. Software-Dokumentation mit Sphinx. CreateSpace (was part of Amazon.com Inc.), today Kindle Direct Publishing (KDP), Seattle, United States of America, 2. edition, 2019. ISBN 1793008779. ISBN-10: 1-79300-877-9, ISBN-13: 978-1793008770, OCLC: 889425279, URL: https://www.amazon.com/dp/1793008779 C (March 2020).

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