



# **Li-Pro.Net Sphinx Primer**

***Version 0.0.2-dirty***

**The LP/N Documentation Team**

**Sep 08, 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*)

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**Version history of Li-Pro.Net Sphinx Primer**

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

<b>Version</b>	<b>Change</b>	<b>Passed</b>	<b>Date</b>
<b>0.0.2</b>	initial content in chapters “Cheat Sheet” and “Themes”	Stephan Linz	2020-09-08
<b>0.0.1</b>	base document skeleton	Stephan Linz	2020-09-08
<b>0.0</b>	preliminary, project created	Stephan Linz	2020-09-05





## PREAMBLE

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

Excerpts from the [Sphinx Tutorial](#) by Eric Holscher and [Documentation Style Guide](#) by Bareos GmbH & Co. KG and others. See [\[juh2019swdocwsp\]](#) 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](#) - Introduction to reStructuredText
  - [reStructuredText Quick Reference](#)
  - [reStructuredText 1-page cheat sheet](#)
- [Sphinx Markup](#) - Detailed guide to Sphinx's markup concepts and reStructuredText extensions

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**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.

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Let's decorate the project documentation. There are a lot of themes for the Sphinx HTML builder available on the [Sphinx Themes Demo Page](#).

This documentation use the [Read the Docs Sphinx Theme](#) as demonstrate at the [Sphinx RTD Theme Demo Page](#).

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](https://github.com/readthedocs/sphinx_rtd_theme)

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

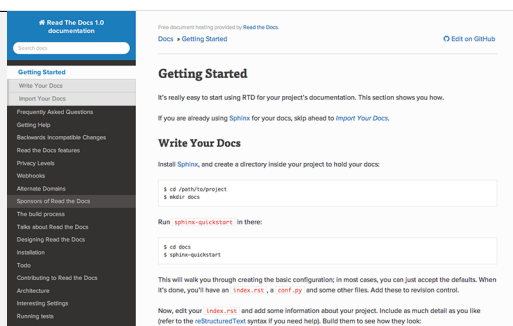


Figure 3.1: Sphinx RTD theme on Desktop

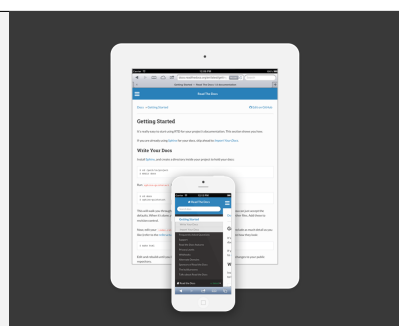


Figure 3.2: Sphinx RTD theme on Mobiles

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

## reStructuredText & Sphinx Cheatsheet

### Styles

```
*Italic/emphasis text*
**Bold/strong text**
``Inline literal text/code``
:sup: super \ Script
:sub: sub \ Script
```

### Bullet Lists

```
* Unordered item
* Unordered item

1. Nested ordered item
2. Nested ordered item

    a. Nested ordered item

* Unordered item
```

### Definition Lists

```
First term
Definition of first term. It can
span multiple lines which alined
on same indentation.

Second term
Definition of second term.

    Indent additional paragraphs, which
    even can span multiple lines that
    aligned on same indentation.
```

### Lieral Code Blocks

```
Here is a literal block::

    Its content are indented.

::

    The :: marker is omitted here
```

The `::` marker will inserted a ":" in the output from the example above. To omit the ":" in the output, precede the `::` marker with white space, or use the marker on a line of its own.

### Your additional notes and comments

### Section Headings

```
=====
Level 1 Heading
=====

Level 2 Heading
-----
```

```
.. Level 1 Heading
   ~~~~~~

.. Level 2 Heading
   ++++++
```

- Heading structure is determined only by occurrence order.
- Heading overline is optional.
- Under/overlines use the following characters:

**Recommended:** = - ` : . ' " ~ ^ \* + #  
! \$ % & ( ) , / ; < > ? @ [ \ ] { | }

### Targets and Links

Anchor target  
External target  
Footnote target  
Citation target

```
.. _anchorbyref:
.. _Anchor by text:
.. _External link name: http://example.com/
.. [1] A footnote
.. [cit1] A global citation
```

External links

```
External link <http://example.com/>`
External link name`_ or `Example <External link name>`_
```

Internal links

```
`Anchor by text`_ or `Anchor <Anchor by text>`_
`Anchor by ref <anchorbyref>`_
:ref: anchorbyref`
```

Footnote

```
Reference a footnote [1]_
or a global citation [citel]_
```

Citation

Section link

```
Section Heading
-----
Link <Section Heading>`_
```

### Tables

```
=====
Simple table  Header 2  Header 3
=====
Column 1     Column 2  Column 3
Horizontal column span ...
...          ...       ...
=====
```

```
+-----+-----+-----+
| Grid  | Header 2 | Header 3 |
| table |          |          |
+-----+-----+-----+
| Column 1 | Column 2 | Vertical |
|          |          | column  |
+-----+-----+-----+
| Horizontal span |          | span |
+-----+-----+-----+
```

Simple tables and grid tables can be replaced with external CSV files, using the `csv-table` directive.

### Images and Figures

```
.. image:: image.png
   :height: 100px
   :width: 100px
   :align: bottom
   :target: target_
```

```
.. firgure:: image.png
   :height: 100px
```

Figures are images with captions. They support all image options.

### Comments

```
.. This is a single line comment, comments can span multiple lines as well.
.. This is a comment that
   span multiple line.
```

Figure 4.1: Cheat Sheet reStructuredText & Sphinx 1/2

## Directives

reStructuredText **directives** consist of a directive **type**, **arguments** and any number of **options**. Some directives expect a block of indented **content**.

```
.. type:: arguments
   :option: option value

Directive content
```

```
.. container:: [container class]
.. csv-table:: [table title]
   :header: CSV data for headers
   :widths: number [, number]
   :file: filename
   :encoding: encoding
   :header-rows: number
   :delim: character, "tab", or "space"
   :quote: character
   :escape: character
.. rubric:: title
```

## Content Block Directives

```
.. topic:: [title]
.. sidebar:: [title]
   :subtitle: subtitle
.. admonition:: title
.. attention::
.. caution::
.. danger::
.. error::
.. hint::
.. important::
.. note::
.. tip::
.. warning::
.. seealso::
.. deprecated:: [version]
.. versionadded:: [version]
.. versionchanged:: [version]
.. math::
.. raw:: output format
```

```
.. topic:: Example

A topic block.

.. note::
    This is a note.

.. versionchanged:: 1.3
    Something changed.

.. math::
    a_1 = b_1 + c_1

.. raw:: html

<b>HTML output</b>
```

## Table of Contents

```
.. toctree::
   :maxdepth: number (of title levels)
   :glob:
   :hidden:
   :numbered:
   :caption: caption text
   :titlesonly:

[Include paths]
```

## Python Domain

**Python Domain Directives**

```
.. py:module:: module
.. py:class:: signature
.. py:function:: signature
.. py:data:: name
.. py:exception:: name
.. py:attribute:: name
.. py:method:: signature
.. py:staticmethod:: signature
.. py:classmethod:: signature
.. py:decorator:: signature
.. py:currentmodule:: module
```

**Python Domain Directive Options**

```
:param [type] name: description
:type name: type
:raises class: description
:var name: description
:vartype name: type
:returns description:
:rtype type:
```

**Python Domain References**

```
:py:mod:`module`
:py:class:`signature`
:py:func:`signature`
:py:data:`name`
:py:exc:`name`
:py:attr:`name`
:py:meth:`signature`
```

```
:py:const:`name`
```

There are a number of other Sphinx language domains for representing code constructs in reference documentation: *rst*, *c*, *cpp*, *js*, *ruby*, *php*, *dotnet*, *scala*, *go*, *lisp*, *coffee*, and others.

## Code Examples

```
.. highlight:: language
.. linenothreshold: number
.. codeblock:: [language]
   :linenos:
   :emphasize-lines: numbers [, numbers]
   :caption: caption text
   :name: block target name

[Code example, indented]
.. literalinclude:: filename
   :language: language
   :linenos:
   :emphasize-lines: numbers [, numbers]
   :encoding: encoding
   :diff: filename
   :dedent: number
```

Some of the language lexers supported by the code example **language** option: *none*, *python*, *js*, *php*, *ruby*, *perl*, *c*, *cpp*, *csharp*, *go*, *scala*, *lisp*, *coffee*, *dart*, *julia*, *lua*, *html*, *css*, *sass*, *json*, *yaml*, *diff*, *sql*, *bash*, and *shell-session*.

## References

```
:role:`title <target>`      Link to target with link text title
:role:`!title`              Don't create link or reference
:role:`-module.Object`      Use last element, Object, for link text
```

**Cross-reference roles**

```
:any:`name`
:doc:`document name`
:download:`filename`
:envvar:`name`
:keyword:`python keyword`
:option:`CLI option`
```

**Cross-reference roles**

```
:abbr:`long (abbreviation)`
:command:`name`
:kbd:`key strokes`
:program:`name`
:pep:`number`
:rfc:`number`
```

```
Brought to you by **Red the Docs**.
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```

## Your additional notes and comments

Figure 4.2: Cheat Sheet reStructuredText &amp; Sphinx 2/2





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## B.1 Terms

### B.1.1 Commons

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- [English Wikipedia: reStructuredText](#)

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