

reStructuredText & Sphinx Cheatsheet

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

Styles

```
*Bold text*
**Italic text**
``Inline literal/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.

Second term
    Definition of second term.

    Indent additional paragraphs.
```

Literal Code Blocks

```
Here is a literal block::

    Its contents are indented.

::

    The :: marker is omitted here
```

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

Targets and Links

```
Anchor target .. _anchorbyref:
External target .. _Anchor link by text:
Footnote target .. _External link name: http://example.com
Citation target .. [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 link by text`_ or `Anchor <Anchor link by text>`_
                `Anchor link by ref <anchorbyref>`_
                :ref:`anchorbyref`

Footnote       Reference a footnote [1]_
Citation        or a global citation [cit1]_

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_
```

```
.. figure:: 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.
```

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
```

Table of Contents

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

       [Include paths]
```

Python Domain

Domain directives expect a domain **directive type**, the **construct name** as a directive argument, and optionally, **domain directive options**.

```
.. py:method:: MyClass.foo(args)
       :param args: Arguments
       :type args: list

       Link to :py:meth:`MyClass.foo`.
```

| Python Domain Directives | Python Domain References |
|--------------------------------|--------------------------|
| .. py:module:: module | :py:mod:`module` |
| .. py:class:: signature | :py:class:`signature` |
| .. py:function:: signature | :py:func:`signature` |
| .. py:data:: name | :py:data:`name` |
| .. py:exception:: name | :py:exc:`name` |
| .. py:attribute:: name | :py:attr:`name` |
| .. py:method:: signature | :py:meth:`signature` |
| .. py:staticmethod:: signature | |
| .. py:classmethod:: signature | |
| .. py:decorator:: signature | |
| .. py:currentmodule:: module | :py:const:`name` |

| Python Domain Directive Options | |
|---------------------------------|---|
| :param [type] name: description | 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. |
| :type name: type | |
| :raises class: description | |
| :var name: description | |
| :vartype name: type | |
| :returns description: | |
| :rtype type: | |

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:: Examples

       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>
```

Code Examples

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

       [Code example, indented]
.. literalinclude:: filename
       :language: language
       :emphasize-lines: number [, number]
       :linenos:
       :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 <i>target</i> with link text <i>title</i> |
| :role:`!title` | Don't create link or reference |
| :role:`-module.Object` | Use last element, <i>Object</i> , for link text |
| Cross-reference roles | |
| :any:`name` | :abbr:`long (abbreviation)` |
| :doc:`document name` | :command:`name` |
| :download:`filename` | :kbd:`keystrokes` |
| :envvar:`name` | :program:`program` |
| :keyword:`python keyword` | :pep:`number` |
| :option:`CLI option` | :rfc:`number` |

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