
pyRestTable Documentation

Release

2017.2.0+1.g3e477f6.dirty<2017-09-08T16:58:52-0500>

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Sep 08, 2017

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Format a nice table in reST (reStructuredText) from Python.

Each cell may have multiple lines, separated by a newline. The content of each cell will be rendered as `str(cell)`. At present, *pyRestTable* only supports tables with content that does not span any cells (no rowspans or columnspans).

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docs <http://pyRestTable.readthedocs.io>

URL <https://github.com/prjemian/pyRestTable>

PyPI <https://pypi.python.org/pypi/pyRestTable/>

TODO list <https://github.com/prjemian/pyRestTable/issues>

build

coverage

version 2017.2.0+1.g3e477f6.dirty

release 2017.2.0+1.g3e477f6.dirty<2017-09-08T16:58:52-0500>

published Sep 08, 2017

pyRestTable provides support for writing tables in the format of reStructured Text¹ from Python programs. (It provides no command-line or GUI program itself – no “entry points”; it should be used within a Python program.)

- Import the `pyRestTable` package
- Create the `Table` instance
- Set the list of column labels (either `labels.append()` or `addLabel()`)
- Append the list of column cells for each row (either `rows.append([])` or `addRow()`)
- Render the table with `reST()` (default table format is `simple`)

Examples are provided to demonstrate usage.

¹ <http://docutils.sourceforge.net/docs/ref/rst/restructuredtext.html>

CHAPTER 2

Installation

available for installation from PyPI via standard installers for Python 2.7 or Python 3.0+:

```
$ pip install pyRestTable
```

or:

```
$ easy_install -U pyRestTable
```

or download the tarball from GitHub and use `setuptools` to install:

```
$ tar xzf pyRestTable-2015-1111-1.tar.gz
$ cd pyRestTable-2015-1111-1
$ python setup.py install
```


Examples are provided to demonstrate usage.

Interactive example with *ipython*

```
1 In [1]: import pyRestTable
2
3 In [2]: pyRestTable.__long_description__
4
5 Out[2]: 'Format a nice table in reST (reStructuredText ) from Python'
6
7 In [3]: pyRestTable.__version__
8
9 Out[3]: '2015-1111-1'
10
11 In [4]: t = pyRestTable.Table()
12
13 In [5]: t.labels = ['x', 'y']
14
15 In [6]: t.rows.append([1,2])
16
17 In [7]: print(t.reST())
18
19 = =
20 x y
21 = =
22 1 2
23 = =
```

which displays as:

x	y
1	2

The same table may be rendered in the *grid* reST format:

```

1 In [8]: print(t.reST(fmt='grid'))
2
3 +---+---+
4 | x | y |
5 +===+===+
6 | 1 | 2 |
7 +---+---+
```

which displays as:

x	y
1	2

The same table may be rendered in the *list-table* reST format:

```

1 In [9]: print(t.reST(fmt='list-table'))
2
3 .. list-table::
4    :header-rows: 1
5    :widths: 1 1
6
7    * - x
8      - y
9    * - 1
10     - 2
```

which displays as:

x	y
1	2

simple (default)

see <http://docutils.sourceforge.net/docs/ref/rst/directives.html#tables>

These python commands:

```

1 import pyRestTable
2 t = pyRestTable.Table()
3 t.labels = ('one', 'two', 'three' )
4 t.rows.append( ['1,1', '1,2', '1,3',] )
5 t.rows.append( ['2,1', '2,2', '2,3',] )
6 t.rows.append( ['3,1', '3,2', '3,3',] )
7 t.rows.append( ['4,1', '4,2', '4,3',] )
8 print(t.reST())
```

build this table source code:

```

1 === === =====
2 one two three
3 === === =====
4 1,1 1,2 1,3
5 2,1 2,2 2,3
6 3,1 3,2 3,3
7 4,1 4,2 4,3
8 === === =====
```

which is rendered as:

one	two	three
1,1	1,2	1,3
2,1	2,2	2,3
3,1	3,2	3,3
4,1	4,2	4,3

plain

These python commands:

```

1 import pyRestTable
2 t = pyRestTable.Table()
3 t.labels = ('one', 'two', 'three' )
4 t.rows.append( ['1,1', '1,2', '1,3',] )
5 t.rows.append( ['2,1', '2,2', '2,3',] )
6 t.rows.append( ['3,1', '3,2', '3,3',] )
7 t.rows.append( ['4,1', '4,2', '4,3',] )
8 print(t.reST(fmt='plain'))

```

build this table source code:

```

1 one two three
2 1,1 1,2 1,3
3 2,1 2,2 2,3
4 3,1 3,2 3,3
5 4,1 4,2 4,3

```

The *plain* format is useful when generating very compact tables as text.

grid (complex)

see <http://docutils.sourceforge.net/docs/ref/rst/restructuredtext.html#grid-tables>

These python commands:

```

1 import pyRestTable
2 t = pyRestTable.Table()
3 t.labels = ('one', 'two', 'three' )
4 t.rows.append( ['1,1', '1,2', '1,3',] )
5 t.rows.append( ['2,1', '2,2', '2,3',] )
6 t.rows.append( ['3,1', '3,2', '3,3',] )
7 t.rows.append( ['4,1', '4,2', '4,3',] )
8 print(t.reST(fmt='grid'))

```

build this table in reST source code:

```

1 +-----+-----+-----+
2 | one | two | three |
3 +=====+=====+=====+
4 | 1,1 | 1,2 | 1,3   |
5 +-----+-----+-----+

```

```

6 | 2,1 | 2,2 | 2,3 |
7 +-----+-----+-----+
8 | 3,1 | 3,2 | 3,3 |
9 +-----+-----+-----+
10 | 4,1 | 4,2 | 4,3 |
11 +-----+-----+-----+

```

which is rendered as:

one	two	three
1,1	1,2	1,3
2,1	2,2	2,3
3,1	3,2	3,3
4,1	4,2	4,3

Note: API Changes

- version 2015.1111.01

In versions previous to 2015.1111.01, the `complex` output table format was supported:

```
print t.reST(fmt='complex')
```

The `complex` output format has been aliased `grid` to be consistent with the docutils¹ documentation:

```
print(t.reST(fmt='grid'))
```

The two commands are identical (except the latter is upgraded for compatibility with Python v3). To preserve existing code, no plans are made to deprecate the `complex` name.

list-table

see <http://docutils.sourceforge.net/docs/ref/rst/directives.html#list-table>

These python commands:

```

1 import pyRestTable
2 t = pyRestTable.Table()
3 t.labels = ('one', 'two', 'three' )
4 t.rows.append( ['1,1', '1,2', '1,3',] )
5 t.rows.append( ['2,1', '2,2', '2,3',] )
6 t.rows.append( ['3,1', '3,2', '3,3',] )
7 t.rows.append( ['4,1', '4,2', '4,3',] )
8 print(t.reST(fmt='list-table'))

```

build this table source code:

```

1 .. list-table::
2    :header-rows: 1
3    :widths: 3 3 5
4

```

¹ docutils: <http://docutils.sourceforge.net/docs/ref/rst/restructuredtext.html>

```

5  * - one
6  - two
7  - three
8  * - 1,1
9  - 1,2
10 - 1,3
11 * - 2,1
12 - 2,2
13 - 2,3
14 * - 3,1
15 - 3,2
16 - 3,3
17 * - 4,1
18 - 4,2
19 - 4,3

```

which is rendered as:

one	two	three
1,1	1,2	1,3
2,1	2,2	2,3
3,1	3,2	3,3
4,1	4,2	4,3

Complicated example

These python commands setup the table:

```

1  import pyRestTable
2  t = pyRestTable.Table()
3  t.addLabel('Name\nand\nAttributes')
4  t.addLabel('Type')
5  t.addLabel('Units')
6  t.addLabel('Description\n(and Occurrences)')
7  t.addRow( ['one,\ntwo', "buckle my", "shoe.\n\n\nthree,\nfour", "..."] )
8  t.addRow( ['class', 'NX_FLOAT', '', None, ] )
9  t.addRow( range(0,4) )
10 t.addRow( [None, {'a': 1, 'b': 'dreamy'}, 1.234, range(3)] )
11 t.setLongtable()
12 t.setTabularColumns(True, 'l l c r'.split())

```

Here, we assert more control over the table format using `setLongtable()` and `setTabularColumns()` configuration options.

Format: `print(t.reST(fmt='simple'))`

this reST code:

```

1  .. tabularcolumns:: |l|L|c|r|
2     :longtable:
3
4  =====
5  Name          Type                               Units  Description
6  and                                     (and Occurrences)

```

```

7 Attributes
8 =====
9 one,      buckle my          shoe.  ...
10 two
11
12                three,
13                four
14 class    NX_FLOAT          None
15 0         1                2      3
16 None     {'a': 1, 'b': 'dreamy'} 1.234 [0, 1, 2]
17 =====

```

is rendered as:

Name	Type	Units	Description
and			(and Occurrences)
Attributes			
one,	buckle my	shoe.	...
two		three, four	
class	NX_FLOAT		None
0	1	2	3
None	{'a': 1, 'b': 'dreamy'}	1.234	[0, 1, 2]

Format: `print(t.reST(fmt='grid'))`

this reST code:

```

1 .. tabularcolumns:: |l|L|c|r|
2   :longtable:
3
4 +-----+-----+-----+-----+
5 | Name      | Type                | Units | Description |
6 | and       | |                   | |         | (and Occurrences) |
7 | Attributes | |                   | |         | |
8 +-----+-----+-----+-----+
9 | one,      | buckle my          | shoe. | ...         |
10 | two       | |                   | |         | |
11 |           | |                   | |         | |
12 |           | |                   | three, | |
13 |           | |                   | four  | |
14 +-----+-----+-----+-----+
15 | class     | NX_FLOAT          | |         | None        |
16 +-----+-----+-----+-----+
17 | 0         | 1                | 2      | 3          |
18 +-----+-----+-----+-----+
19 | None      | {'a': 1, 'b': 'dreamy'} | 1.234 | [0, 1, 2]  |
20 +-----+-----+-----+-----+

```

is rendered as:

Name and Attributes	Type	Units	Description (and Occurrences)
one, two	buckle my	shoe. three, four	...
class	NX_FLOAT		None
0	1	2	3
None	{'a': 1, 'b': 'dreamy'}	1.234	[0, 1, 2]

Format: `print(t.reST(fmt='list-table'))`

this reST code:

```

1 .. list-table::
2   :header-rows: 1
3   :widths: 10 23 6 17
4
5   * - Name
6     and
7     Attributes
8   - Type
9   - Units
10  - Description
11    (and Occurrences)
12
13  * - one,
14    two
15    - buckle my
16      shoe.
17
18    three,
19    four
20  - ...
21
22  * - class
23    - NX_FLOAT
24
25  * - 0
26    - 1
27    - 2
28    - 3
29
30  * - None
31    - {'a': 1, 'b': 'dreamy'}
32    - 1.234
33    - [0, 1, 2]

```

is rendered as:

Name and Attributes	Type	Units	Description (and Occurrences)
one, two	buckle my	shoe. three, four	...
class	NX_FLOAT		
0	1	2	3
None	{'a': 1, 'b': 'dreamy'}	1.234	[0, 1, 2]

Example using XML source data from a URL

Another example (*cansas.py* in the source distribution) shows how content can be scraped from a URL that provides XML (using the *lxml* package) and written as a reST table. This particular XML uses a namespace which we setup in the variable `nsmmap`:

```

1 #!/usr/bin/env python
2
3 import io

```

```

4 import sys
5 from lxml import etree
6 try:
7     # python 3
8     from urllib.request import urlopen
9 except ImportError as _exc:
10    # python 2
11    from urllib2 import urlopen
12 sys.path.insert(0, '..')
13 from pyRestTable import Table
14
15 SVN_BASE_URL = 'http://www.cansas.org/svn/ldwg/trunk'
16 GITHUB_BASE_URL = 'https://raw.githubusercontent.com/canSAS-org/ldwg/master'
17 CANSAS_URL = '/'.join((GITHUB_BASE_URL, 'examples/cs_af1410.xml'))
18
19
20 def main():
21     nsmmap = dict(cs='urn:cansasld:1.1')
22
23     r = urlopen(CANSAS_URL).read().decode("utf-8")
24     doc = etree.parse(io.StringIO(r))
25
26     node_list = doc.xpath('//cs:SASentry', namespaces=nsmmap)
27     t = Table()
28     t.labels = ['SASentry', 'description', 'measurements']
29     for node in node_list:
30         s_name, count = '', ''
31         subnode = node.find('cs>Title', namespaces=nsmmap)
32         if subnode is not None:
33             s = etree.tostring(subnode, method="text")
34             s_name = node.attrib['name']
35             count = len(node.xpath('cs:SASdata', namespaces=nsmmap))
36             title = s.strip().decode()
37             t.rows += [[s_name, title, count]]
38
39     return t
40
41
42 if __name__ == '__main__':
43     table = main()
44     # use "complex" since s_name might be empty string
45     print(table.reST(fmt='complex'))

```

The output from this code:

```

1 10 SASentry elements in http://www.cansas.org/svn/ldwg/trunk/examples/cs_af1410.xml
2
3 +-----+-----+-----+
4 | entry      | description                               | measurements |
5 +-----+-----+-----+
6 | AF1410:10 | AF1410-10 (AF1410 steel aged 10 h)      | 2            |
7 +-----+-----+-----+
8 | AF1410:8h | AF1410-8h (AF1410 steel aged 8 h)       | 2            |
9 +-----+-----+-----+
10 | AF1410:qu | AF1410-qu (AF1410 steel aged 0.25 h)    | 2            |
11 +-----+-----+-----+
12 | AF1410:cc | AF1410-cc (AF1410 steel aged 100 h)     | 2            |
13 +-----+-----+-----+

```

```

14 | AF1410:2h | AF1410-2h (AF1410 steel aged 2 h) | 2 |
15 +-----+-----+-----+-----+
16 | AF1410:50 | AF1410-50 (AF1410 steel aged 50 h) | 2 |
17 +-----+-----+-----+-----+
18 | AF1410:20 | AF1410-20 (AF1410 steel aged 20 h) | 1 |
19 +-----+-----+-----+-----+
20 | AF1410:5h | AF1410-5h (AF1410 steel aged 5 h) | 2 |
21 +-----+-----+-----+-----+
22 | AF1410:1h | AF1410-1h (AF1410 steel aged 1 h) | 2 |
23 +-----+-----+-----+-----+
24 | AF1410:hf | AF1410-hf (AF1410 steel aged 0.5 h) | 2 |
25 +-----+-----+-----+-----+

```

The resulting table is shown:

10 SASentry elements in http://www.cansas.org/svn/1dwg/trunk/examples/cs_af1410.xml

entry	description	measurements
AF1410:10	AF1410-10 (AF1410 steel aged 10 h)	2
AF1410:8h	AF1410-8h (AF1410 steel aged 8 h)	2
AF1410:qu	AF1410-qu (AF1410 steel aged 0.25 h)	2
AF1410:cc	AF1410-cc (AF1410 steel aged 100 h)	2
AF1410:2h	AF1410-2h (AF1410 steel aged 2 h)	2
AF1410:50	AF1410-50 (AF1410 steel aged 50 h)	2
AF1410:20	AF1410-20 (AF1410 steel aged 20 h)	1
AF1410:5h	AF1410-5h (AF1410 steel aged 5 h)	2
AF1410:1h	AF1410-1h (AF1410 steel aged 1 h)	2
AF1410:hf	AF1410-hf (AF1410 steel aged 0.5 h)	2

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version 2017.2.0+1.g3e477f6.dirty

release 2017.2.0+1.g3e477f6.dirty<2017-09-08T16:58:52-0500>

published Sep 08, 2017

source code documentation

Format a nice table in reST (restructured text)

User Interface	Description
<i>Table</i>	Construct a table in reST
<code>addLabel()</code>	add label for one additional column
<code>addRow()</code>	add list of items for one additional row
<code>setLongtable()</code>	set <i>longtable</i> attribute
<code>setTabularColumns()</code>	set <i>use_tabular_columns</i> & <i>alignment</i> attributes
<code>reST()</code>	render the table in reST format

class `pyRestTable.rest_table.Table`

Construct a table in reST (no row or column spans).

Parameters

- **use_tabular_columns** (*bool*) – if True, embed table in Sphinx ‘`. tabularcolumns:: |%s|’ % alignment`’ role
- **alignment** (*[str]*) – with *use_tabular_columns*, each list item is a column format string, as specified by LaTeX *tabulary* package format: <http://sphinx-doc.org/markup/misc.html?highlight=tabularcolumns#directive-tabularcolumns>
- **longtable** (*bool*) – with *use_tabular_columns*, if True, add Sphinx `:longtable:` directive

addLabel (*text*)

add label for one additional column

Parameters **text** (*str*) – column label text

Return int number of labels

addRow (*list_of_items*)

add list of items for one additional row

Parameters **list_of_items** (*[obj]*) – list of items for one complete row

Return int number of rows

find_widths ()

measure the maximum width of each column, considering possible line breaks in each cell

grid_table (*indentation=''*)

render the table in *grid* reST format

list_table (*indentation=''*)

render the table in *list-table* reST format:

See <http://docutils.sourceforge.net/docs/ref/rst/directives.html>

Table 4.1: Frozen Delights!

Treat	Quantity	Description
Albatross	2.99	On a stick!
Crunchy Frog	1.49	If we took the bones out, it wouldn't be crunchy, now would it?
Gannet Ripple	1.99	On a stick!

plain_table (*indentation=''*)

render the table in *plain* reST format

reST (*indentation='', fmt='simple'*)

render the table in reST format

setLongtable (*state=True*)

set *longtable* attribute

Parameters **longtable** (*bool*) – True | False

setTabularColumns (*state=True, column_spec=None*)

set *use_tabular_columns* & *alignment* attributes

Parameters

- **state** (*bool*) – True | False
- **column_spec** (*[str]*) – list of column specifications

simple_table (*indentation=''*)

render the table in *simple* reST format

`pyRestTable.rest_table.example_basic()`

basic example table

`pyRestTable.rest_table.example_complicated()`

complicated example table

`pyRestTable.rest_table.example_minimal()`

minimal example table

Production

2017.2.0

- #9 provide default rendering: `t = Table(); ...; str(t)`
- #8 add a plain table output

2016.1024.0 unit tests, repaired python 3 support

2016.1003.1 support python 3 AND python 2

2015.1115.0 add support methods, such as *addLabel* and *addRow*

2015.1111.01 support output as ReST *list-table* directive

2014.0710.01 provide docs at <http://pyRestTable.readthedocs.org>

2014.0430.01 release after forking from previous home

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CHAPTER 7

Features

- create *simple*, *plain*, *grid* (also known as *complex*), and *list-table* reST formatted tables
- defines table cells through Python lists, row-by-row
- use with Python 2 or Python 3

see <http://docutils.sourceforge.net/docs/ref/rst/restructuredtext.html#tables>

CHAPTER 8

Indices and tables

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