rinohtype

Release 0.5.1

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Release v0.5.1. (Release History)

rinohtype is a Python library that transforms a structured document into a professionally typeset PDF guided by a document template and style sheet. It can be used to create any kind of document, but its focus is on complex documents such as technical manuals.

Included with rinohtype is the rinoh command line tool that renders reStructuredText and Markdown (CommonMark) documents. Support for DITA is available in the commercially supported Pro version.

rinohtype also includes support for Sphinx, which helps writing large structured documents and supports a multitude of different output formats including searchable HTML. rinohtype adds support to produce PDF output.

Here is a list of rinohtype's main features:

- a powerful page layout system supporting columns, running headers/footers, floatable elements and footnotes
- figures, large tables and automatically generated table of contents
- automatic numbering and cross-referencing of sections, figures and tables
- use one of the highly configurable included document templates or create your own custom template
- the intuitive style sheets make it easy to change the style of individual document elements
- modular design allowing for multiple frontends (such as reStructuredText, Markdown, DocBook, …) and backends (PDF, SVG, bitmap, …)
- handles OpenType, TrueType and Type1 fonts with support for advanced typographic features such as kerning, ligatures and small capitals
- embeds PDF, PNG and JPEG images, preserving transparency and color profiles
- easy to deploy; pure-Python with few dependencies
- built on Unicode; ready for non-latin languages

rinohtype is currently in a beta phase. We are working toward a first stable release.

rinohtype is open source software licensed under the GNU AGPL 3.0. Practically, this means you are free to use it in open-source software, but not in (commercial) closed-source software. For the latter, you need to obtain a commercial license. We are also available for consultancy projects involving rinohtype, so don't hesitate to contact us.

Introduction 1

rinohtype was initially conceived as a modern replacement for LaTeX. An important goal in the design of rinohtype is for documents to be much easier to customize than in LaTeX. By today's standards, the arcane TeX macro language upon which LaTeX is built makes customization unnecessarily difficult for one. Simply being built with Python makes rinohtype already much easier to approach than TeX. Additionally, rinohtype is built around the following core concepts to ensure customizability:

Document Templates These determine the page layout and (for longer documents) the different parts of your document. The templates included with rinohtype are highly configurable and allow changing margins, headers, footers, chapter titles, etc. If this is not sufficient, a custom template can be created.

Style Sheets The CSS-inspired style sheets determine the look of individual document elements. A style sheet assigns style attributes to each type of document element. For example, a paragraph's style is determined by the typeface, font weight, size and color, horizontal alignment of text etc.

Structured Input rinohtype renders a document from a document tree that does not describe any style aspects but only semantics. The style sheet maps specific style properties to the elements in this document tree. The document tree can be automatically generated from a structured document format such as reStructuredText and CommonMark using one of the included frontends, or it can be constructed manually.

rinohtype is implemented as a Python package and doubles as a high-level PDF library. Its modular design makes it easy to to customize and extend for specific applications. Moreover, because rinotype's source code is open, all of its internals can be inspected and even modified, making it customizable at all levels.

1.1 Usage Examples

rinohtype supports three modes of operation, which are discussed in more detail in the Quickstart guide. For each of these modes, you can choose to use one of the document templates included with rinohtype or a third-party template available from PyPI and optionally customize it to your needs. Or you can create a custom template from scratch. The same is true for the style sheet used to style the document elements.

1.1.1 Command-Line Renderer

rinohtype includes the rinoh command-line tool which renders structured text documents. Currently, reStructuredText and CommonMark documents are supported in the open-source version. Support for DITA is available in the commercially supported Pro version.

Rendering the reStructuredText demonstration article demo.txt (using the standard article template and style sheet) generates demo.pdf.

1.1.2 Sphinx Builder

Configuring rinohtype as a builder for Sphinx allows rendering a Sphinx project to PDF without the need for a LaTeX installation. This very document you are reading was rendered using rinohtype's Sphinx builder.

1.1.3 High-level PDF library

rinohtype can also be used as a Python library to generate PDF documents. Just like with rinoh and the Sphinx builder, you can select which document template and style sheet to use.

Additionally, you need to supply a document tree. This document tree can be parsed from a structured document format such as reStructuredText by using one of the provided frontends or built manually using building blocks provided by rinohtype. You can also write a frontend for a custom format such as an XML dialect.

All of these approaches allow for parts of the content to be fetched from a database or other data sources. When parsing the document tree from a structured document format, a templating engine like Jinja2 can be used.

Todo

sample documents

Installation 2

rinohtype supports Python 3.3 and up. Use pip to install the latest version of rinohtype and its dependencies:

```
pip install rinohtype
```

If you plan on using rinohtype as an alternative to LaTeX, you will want to install Sphinx as well:

```
pip install Sphinx
```

See Sphinx Builder in the Quickstart guide on how to render Sphinx documents with rinohtype.

2.1 Dependencies

For parsing reStructuredText and CommonMark documents, rinohtype depends on docutils and recommonmark respectively. pip takes care of these requirements automatically when you install rinohtype.

If you want to include images other than PDF, PNG or JPEG, you need to install Pillow additionally.

Quickstart 3

This section gets you started quickly, discussing each of the three modes of operation introduced in Introduction. If you want to customize the style of the PDF document, please refer to Basic Document Styling which introduces style sheets and document templates.

3.1 Command-Line Renderer

Installing rinohtype places the rinoh script in the PATH. This can be used to render structured documents such as demo.txt (reStructuredText):

```
rinoh --format reStructuredText demo.txt
```

After rendering finishes, you will find demo.pdf alongside the input file.

rinoh allows specifying the document template and style sheet to use when rendering the reStructuredText document. See its command-line options for details.

Two rendering passes are required to make sure that cross-references to page numbers are correct. After a document has been rendered, rinohtype will save the page reference data to a .rtc file. Provided the document (or the template or style sheet) doesn't change a lot, this can prevent the need to perform a second rendering pass.

3.2 Sphinx Builder

If your Sphinx project is already configured for the LaTeX builder, rinohtype will happily interpret latex_documents. Otherwise, you need to set the rinoh_documents configuration option:

```
rinoh_documents = [dict(doc='index',         # top-level file (index.rst)
                        target='manual')]    # output file (manual.pdf)
```

The dictionary accepts optional keys in addition to the required doc and target keys. See Sphinx Builder for details.

When building the documentation, select the rinoh builder by passing it to the sphinx-build -b option:

```
sphinx-build -b rinoh . _build/rinoh
```

Note that, just like the rinoh command line tool, the Sphinx builder requires two rendering passes.

3.3 High-level PDF Library

Note

The focus of rinohtype development is currently on the rinoh tool and Sphinx builder. Use as a Python library is possible, but documentation may be lacking. Please be patient.

The most basic way to use rinohtype in an application is to hook up an included frontend, a document template and a style sheet:

```
from rinoh.frontend.rst import ReStructuredTextReader
from rinoh.templates import Article

# the parser builds a rinohtype document tree
parser = ReStructuredTextReader()
with open('my_document.rst') as file:
    document_tree = parser.parse(file)

# render the document to 'my_document.pdf'
document = Article(document_tree)
document.render('my_document')
```

This basic application can be customized to your specific requirements by customizing the document template, the style sheet and the way the document's content tree is built. The basics of document templates and style sheets are covered in later sections.

The document tree returned by the ReStructuredTextReader in the example above can also be built manually. A DocumentTree is simply a list of Flowables, which can have child elements. These children in turn can also have children, and so on; together they form a tree.

Here is an example document tree of a short article:

```
from rinoh.document import DocumentTree
from rinoh.styleds import *

document_tree = DocumentTree(
                    [Paragraph('My Document', style='title'), # metadata!
                     Section([Heading('First Section'),
                              Paragraph('This is a paragraph with some '
                                        + StyledText('emphasized text',
                                                     style='emphasis')
                                        + ' and an '
                                        + InlineImage('image.pdf')),
                              Section([Heading('A subsection'),
                                       Paragraph('Another paragraph')
                                      ])
                             ]),
                     Section([Heading('Second Section'),
                              List([Paragraph('a list item'),
                                    Paragraph('another list item')
                                   ])
                             ])
                    ])
```

It is clear that this type of content is best parsed from a structured document format such as reStructuredText or XML. Manually building a document tree is well suited for short, custom

documents however.

Basic Document Styling 4

rinohtype allows for fine-grained control over the style of its output. Most aspects of a document's style can be controlled by style sheet files and template configuration files which are being introduced in this chapter. These files are plain text files that are easy to create, read and modify.

4.1 Style Sheets

A style sheet defines the look of each element in a document. For each type of document element, the style sheet assign values to the style properties available for that element. Style sheets are stored in plain text files using the Windows INI1 format with the .rts extension. Below is an excerpt from the Sphinx style sheet included with rinohtype.

```
[STYLESHEET]
name=Sphinx
description=Mostly a copy of the LaTeX style included with Sphinx
pygments_style=friendly

[VARIABLES]
mono_typeface=TeX Gyre Cursor
serif_typeface=TeX Gyre Pagella
sans_typeface=Tex Gyre Heros
fallback_typeface=DejaVu Serif
thin_black_stroke=0.5pt,#000
blue=#20435c

[default:Paragraph]
typeface=$(serif_typeface)
font_weight=REGULAR
font_size=10pt
line_spacing=fixed(12pt, leading(0))
indent_first=0
space_above=0
space_below=0
text_align=JUSTIFY
kerning=True
ligatures=True
hyphen_lang=en_US
hyphen_chars=4

[fallback]
```

1 see Supported INI File Structure in configparser

```
typeface=$(fallback_typeface)

[body]
base=default
space_above=5pt
space_below=0
text_align=justify

[emphasis]
font_slant=italic

[strong]
font_weight=BOLD

[literal emphasis]
base=emphasis
typeface=$(mono_typeface)
hyphenate=False
ligatures=False

[literal strong]
base=strong
typeface=$(mono_typeface)
hyphenate=False
ligatures=False

[inline math]
base=monospaced

[quote]
font_slant=italic
```

Except for [STYLESHEET] and [VARIABLES], each configuration section in a style sheet determines the style of a particular type of document element. The emphasis style, for example, determines the look of emphasized text, which is displayed in an italic font. This is similar to how HTML's cascading style sheets work. In rinohtype however, document elements are identified by means of a descriptive label (such as emphasis) instead of a cryptic selector. rinohtype also makes use of selectors, but these are collected in a matcher which maps them to descriptive names to be used by many style sheets. Unless you are using rinohtype as a PDF library to create custom documents, the default matcher should cover your needs.

The following two subsections illustrate how to extend an existing style sheet and how to create a new, independent style sheet. For more in-depth information on style sheets, please refer to Element Styling.

4.1.1 Extending an Existing Style Sheet

Starting from an existing style sheet, it is easy to make small changes to the style of individual document elements. The following style sheet file is based on the Sphinx stylesheet included with rinohtype.

```
[STYLESHEET]
name=My Style Sheet
description=Small tweaks made to the Sphinx style sheet
base=sphinx

[VARIABLES]
```

```
mono_typeface=Courier

[emphasis]
font_color=#00a

[strong]
base=DEFAULT_STYLE
font_color=#a00
```

By default, styles defined in a style sheet extend the corresponding style from the base style sheet. In this example, emphasized text will be set in an italic font (as configured in the base style sheet) and colored blue (#00a).

It is also possible to completely override a style definition. This can be done by setting the base of a style definition to DEFAULT_STYLE as illustrated by the strong style. This causes strongly emphasised text to be displayed in red (#a00) but not in a bold font as was defined in the base style sheet (the default for font_weight is Medium; see TextStyle). Refer to Default Matcher to find out which style attributes are accepted by each style (by following the hyperlink to the style class's documentation).

The style sheet also redefines the mono_typeface variable. This variable is used in the base style sheet in all style definitions where a monospaced font is desired. Redefining the variable in the derived style sheet affects all of these style definitions.

4.1.2 Starting from Scratch

If you don't specify a base style sheet in the [STYLESHEET] section, you create an independent style sheet. You should do this if you want to create a document style that is not based on an existing style sheet. If the style definition for a particular document element is not included in the style sheet, the default values for its style properties are used.

Todo

specifying a custom matcher for an INI style sheet

Unless a custom StyledMatcher is passed to StyleSheetFile, the default matcher is used. Providing your own matcher offers even more customizability, but it is unlikely you will need this. See Matchers.

Note

In the future, rinohtype will be able to generate an empty INI style sheet, listing all styles defined in the matcher with the supported style attributes along with the default values as comments. This generated style sheet can serve as a good starting point for developing a custom style sheet from scratch.

4.2 Document Templates

As with style sheets, you can choose to make use of a template provided by rinohtype and optionally customize it or you can create a custom template from scratch. This section discusses how you can configure an existing template. See Document Templates on how to create a custom template.

4.2.1 Configuring a Template

rinohtype provides a number of Standard Document Templates. These can be customized by means of a template configuration file; a plain text file in the INI1 format with the .rtt extension. Here is an example configuration for the article template:

```
[TEMPLATE_CONFIGURATION]
name = my article configuration
template = article

parts =
    title
    ;front_matter
    contents
stylesheet = sphinx_base14
language = fr
abstract_location = title

[SectionTitles]
contents = 'Contents'

[AdmonitionTitles]
caution = 'Careful!'
warning = 'Please be warned'

[VARIABLES]
paper_size = A5

[title]
page_number_format = lowercase roman
end_at_page = left

[contents]
page_number_format = number

[title_page]
top_margin = 2cm
```

The TEMPLATE_CONFIGURATION sections collects global template options. Set name to provide a short label for your template configuration. template identifies the document template to configure.

All document templates consist of a number of document parts. The Article template defines three parts: title, front_matter and contents. The order of these parts can be changed (although that makes little sense for the article template), and individual parts can optionally be hidden by setting the parts configuration option. The configuration above hides the front matter part (commented out using a semicolon), for example.

The template configuration also specifies which style sheet is used for styling document elements. The DocumentTemplate.stylesheet option takes the name of an installed style sheet (see rinoh --list-stylesheets) or the filename of a stylesheet file (.rts).

The language option sets the default language for the document. It determines which language is used for standard document strings such as section and admonition titles.

The Article template defines two custom template options. The abstract_location option determines where the (optional) article abstract is placed, on the title page or in the front matter part. table_of_contents allows hiding the table of contents section. Empty document parts will not be

included in the document. When the table of contents section is suppressed and there is no abstract in the input document or abstract_location is set to title, the front matter document part will not appear in the PDF.

The standard document strings configured by the language option described above can be overridden by user-defined strings in the SectionTitles and AdmonitionTitles sections of the configuration file. For example, the default title for the table of contents section (Table of Contents) is replaced with Contents. The configuration also sets custom titles for the caution and warning admonitions.

The others sections in the configuration file are the VARIABLES section, followed by document part and page template sections. Similar to style sheets, the variables can be referenced in the template configuration sections. Here, the paper_size variable is set, which is being referenced by by all page templates in Article (although indirectly through the page base page template).

For document part templates, page_number_format determines how page numbers are formatted. When a document part uses the same page number format as the preceding part, the numbering is continued.

The DocumentPartTemplate.end_at_page option controls at which page the document part ends. This is set to left for the title part in the example configuration to make the contents part start on a right page.

Each document part finds page templates by name. They will first look for specific left/right page templates by appending _left_page or _right_page to the document part name. If these page templates have not been defined in the template, it will look for the more general <document part name>_page template. Note that, if left and right page templates have been defined by the template (such as the book template), the configuration will need to override these, as they will have priority over the general page template defined in the configuration.

The example configuration only adjusts the top margin for the TitlePageTemplate, but many more aspects of the page templates are configurable. Refer to Standard Document Templates for details.

Todo

base for part template?

4.2.2 Using a Template Configuration File

A template configuration file can be specified when rendering using the command-line rinoh tool by passing it to the --template command-line option. When using the Sphinx Builder, you can set the rinoh_template option in conf.py.

To render a document using this template configuration programatically, load the template file using TemplateConfigurationFile:

```
import sys
from pathlib import Path

from rinoh.frontend.rst import ReStructuredTextReader
from rinoh.template import TemplateConfigurationFile

# the parser builds a rinohtype document tree
parser = ReStructuredTextReader()
with open('my_document.rst') as file:
    document_tree = parser.parse(file)

# load the article template configuration file
script_path = Path(sys.path[0]).resolve()
```

```
config = TemplateConfigurationFile(script_path / 'my_article.rtt')

# render the document to 'my_document.pdf'
document = config.document(document_tree)
document.render('my_document')
```

The TemplateConfigurationFile.document() method creates a document instance with the template configuration applied. So if you want to render your document using a different template configuration, it suffices to load the new configuration file.

Refer to the Article documentation to discover all of the options accepted by it and the document part and page templates.

Element Styling 5

This section describes how styles defined in a style sheet are applied to document elements. Understanding how this works will help you when designing a custom style sheet.

rinohtype's style sheets are heavily inspired by CSS, but add some additional functionality. Similar to CSS, rinohtype makes use of so-called selectors to select document elements in the document tree to style. Unlike CSS however, these selectors are not directly specified in a style sheet. Instead, all selectors are collected in a matcher where they are mapped to descriptive labels for the selected elements. A style sheet assigns style properties to these labels. Besides the usefulness of having these labels instead of the more cryptic selectors, a matcher can be reused by multiple style sheets, avoiding duplication.

Note

This section currently assumes some Python or general object-oriented programming knowledge. A future update will move Python-specific details to another section, making things more accessible for non-programmers.

5.1 Document Tree

A Flowable is a document element that is placed on a page. It is usually a part of a document tree. Flowables at one level in a document tree are rendered one below the other.

Here is schematic representation of an example document tree:

```
|- Section
|   |- Paragraph
|   \- Paragraph
\- Section
    |- Paragraph
    |- List
    |   |- ListItem
    |   |   |- Paragraph (item label; a number or bullet symbol)
    |   |   \- StaticGroupedFlowables (item body)
    |   |       \- Paragraph
    |   \- ListItem
    |       \- Paragraph
    |   |   \- StaticGroupedFlowables
    |   |       \- List
    |   |           |- ListItem
    |   |           |   \- ...
    |   |           \- ...
    \- Paragraph
```

This represents a document consisting of two sections. The first section contains two paragraphs. The second section contains a paragraph followed by a list and another paragraph. All of the elements in this tree are instances of Flowable subclasses.

Section and List are subclasses of GroupedFlowables; they group a number of flowables. In the case of List, these are always of the ListItem type. Each list item contains an item number (ordered list) or a bullet symbol (unordered list) and an item body. For simple lists, the item body is typically a single Paragraph. The second list item contains a nested List.

A Paragraph does not have any Flowable children. It is however the root node of a tree of inline elements. This is an example paragraph in which several text styles are combined:

```
Paragraph
 |- SingleStyledText('Text with ')
 |- MixedStyledText(style='emphasis')
 |    |- SingleStyledText('multiple ')
 |    \- MixedStyledText(style='strong')
 |         |- SingleStyledText('nested ')
 |         \- SingleStyledText('styles', style='small caps')
 \- SingleStyledText('.')
```

The visual representation of the words in this paragraph is determined by the applied style sheet. Read more about how this works in the next section.

Besides SingleStyledText and MixedStyledText elements (subclasses of StyledText), paragraphs can also contain InlineFlowables. Currently, the only inline flowable is InlineImage.

The common superclass for flowable and inline elements is Styled, which indicates that these elements can be styled using the style sheets.

5.2 Selectors

Selectors in rinohtype select elements of a particular type. The class of a document element serves as a selector for all instances of the class (and its subclasses). The Paragraph class is a selector that matches all paragraphs in the document, for example:

```
Paragraph
```

As with CSS selectors, elements can also be matched based on their context. For example, the following matches any paragraph that is a direct child of a list item or in other words, a list item label:

```
ListItem / Paragraph
```

Python's ellipsis can be used to match any number of levels of elements in the document tree. The following selector matches paragraphs at any level inside a table cell:

```
TableCell / ... / Paragraph
```

To help avoid duplicating selector definitions, context selectors can reference other selectors defined in the same matcher using SelectorByName:

```
SelectorByName('definition term') / ... / Paragraph
```

Selectors can select all instances of Styled subclasses. These include Flowable and StyledText, but also TableSection, TableRow, Line and Shape. Elements of some of the latter classes only appear as children of other flowables (such as Table).

Similar to a HTML element's class attribute, Styled elements can have an optional style attribute which can be used when constructing a selector. This one selects all styled text elements with

the emphasis style, for example:

```
StyledText.like('emphasis')
```

The Styled.like() method can also match arbitrary attributes of elements by passing them as keyword arguments. This can be used to do more advanced things such as selecting the background objects on all odd rows of a table, limited to the cells not spanning multiple rows:

```
TableCell.like(row_index=slice(0, None, 2), rowspan=1) / TableCellBackground
```

The argument passed as row_index is a slice object that is used for extended indexing2. To make this work, TableCell.row_index is an object with a custom __eq__() that allows comparison to a slice.

Rinohtype borrows CSS's concept of specificity to determine the "winning" selector when multiple selectors match a given document element. Each part of a selector adds to the specificity of a selector. Roughly stated, the more specific selector will win. For example:

```
ListItem / Paragraph                        # specificity (0, 0, 0, 0, 2)
```

wins over:

```
Paragraph                                   # specificity (0, 0, 0, 0, 1)
```

since it matches two elements instead of just one.

Specificity is represented as a 5-tuple. The last four elements represent the number of location (currently not used), style, attribute and class matches. Here are some selectors along with their specificity:

```
StyledText.like('emphasis')                 # specificity (0, 0, 1, 0, 1)
TableCell / ... / Paragraph                 # specificity (0, 0, 0, 0, 2)
TableCell.like(row_index=2, rowspan=1)      # specificity (0, 0, 0, 2, 1)
```

Specificity ordering is the same as tuple ordering, so (0, 0, 1, 0, 0) wins over (0, 0, 0, 5, 0) and (0, 0, 0, 0, 3) for example. Only when the number of style matches are equal, the attributes match count is compared and so on.

In practice, the class match count is dependent on the element being matched. If the class of the element exactly matches the selector, the right-most specificity value is increased by 2. If the element's class is a subclass of the selector, it is only increased by 1.

The first element of the specificity tuple is the priority of the selector. For most selectors, the priority will have the default value of 0. The priority of a selector only needs to be set in some cases. For example, we want the CodeBlock selector to match a CodeBlock instance. However, because CodeBlock is a Paragraph subclass, another selector with a higher specificity will also match it:

```
CodeBlock                                   # specificity (0, 0, 0, 0, 2)
DefinitionList / Definition / Paragraph     # specificity (0, 0, 0, 0, 3)
```

To make sure the CodeBlock selector wins, we increase the priority of the CodeBlock selector by prepending it with a + sign:

```
+CodeBlock                                  # specificity (1, 0, 0, 0, 2)
```

In general, you can use multiple + or - signs to adjust the priority:

```
++CodeBlock                                 # specificity (2, 0, 0, 0, 2)
---CodeBlock                                # specificity (-3, 0, 0, 0, 2)
```

2 Indexing a list like this lst[slice(0, None, 2)] is equivalent to lst[0::2].

5.3 Matchers

At the most basic level, a StyledMatcher is a dictionary that maps labels to selectors:

```
matcher = StyledMatcher()
...
matcher['emphasis'] = StyledText.like('emphasis')
matcher['chapter'] = Section.like(level=1)
matcher['list item number'] = ListItem / Paragraph
matcher['nested line block'] = (GroupedFlowables.like('line block')
                                / GroupedFlowables.like('line block'))
...
```

Rinohtype currently includes one matcher which defines labels for all common elements in documents:

```
from rinoh.stylesheets import matcher
```

5.4 Style Sheets

A StyleSheet takes a StyledMatcher to provide element labels to assign style properties to:

```
styles = StyleSheet('IEEE', matcher=matcher)
...
styles['strong'] = TextStyle(font_weight=BOLD)
styles('emphasis', font_slant=ITALIC)
styles('nested line block', margin_left=0.5*CM)
...
```

Each Styled has a Style class associated with it. For Paragraph, this is ParagraphStyle. These style classes determine which style attributes are accepted for the styled element. Because the style class can automatically be determined from the selector, it is possible to simply pass the style properties to the style sheet by calling the StyleSheet instance as shown above.

Style sheets are usually loaded from a .rts file using StyleSheetFile. An example style sheet file is shown in Style Sheets.

A style sheet file contains a number of sections, denoted by a section title enclosed in square brackets. There are two special sections:

- [STYLESHEET] describes global style sheet information (see StyleSheetFile for details)
- [VARIABLES] collects variables that can be referenced elsewhere in the style sheet

Other sections define the style for a document elements. The section titles correspond to the labels associated with selectors in the StyledMatcher. Each entry in a section sets a value for a style attribute. The style for enumerated lists is defined like this, for example:

```
[enumerated list]
margin_left=8pt
space_above=5pt
space_below=5pt
ordered=true
flowable_spacing=5pt
number_format=NUMBER
```

```
label_suffix=')'
```

Since this is an enumerated list, ordered is set to true. number_format and label_suffix are set to produce list items labels of the style 1), 2), …. Other entries control margins and spacing. See ListStyle for the full list of accepted style attributes.

Todo

base stylesheets are specified by name … entry points

5.4.1 Base Styles

It is possible to define styles which are not linked to a selector. These can be useful to collect common attributes in a base style for a set of style definitions. For example, the Sphinx style sheet defines the header_footer style to serve as a base for the header and footer styles:

```
[header_footer : Paragraph]
base=default
typeface=$(sans_typeface)
font_size=10pt
font_weight=BOLD
indent_first=0pt
tab_stops=50% CENTER, 100% RIGHT

[header]
base=header_footer
padding_bottom=2pt
border_bottom=$(thin_black_stroke)
space_below=24pt

[footer]
base=header_footer
padding_top=4pt
border_top=$(thin_black_stroke)
space_above=18pt
```

Because there is no selector associated with header_footer, the element type needs to be specified manually. This is done by adding the name of the relevant Styled subclass to the section name, using a colon (:) to separate it from the style name, optionally surrounded by spaces.

5.4.2 Custom Selectors

It is also possible to define new selectors directly in a style sheet file. This allows making tweaks to an existing style sheet without having to create a new StyledMatcher. However, this should be used sparingly. If a great number of custom selectors are required, it is better to create a new StyledMatcher

The syntax for specifying a selector for a style is similar to that when constructing selectors in a Python source code (see Matchers), but with a number of important differences. A Styled subclass name followed by parentheses represents a simple class selector (without context). Arguments to be passed to Styled.like() can be included within the parentheses.

```
[special text : StyledText('special')]
font_color=#FF00FF

[accept button : InlineImage(filename='images/ok_button.png')]
```

```
baseline=20%
```

Even if no arguments are passed to the class selector, it is important that the class name is followed by parentheses. If the parentheses are omitted, the selector is not registered with the matcher and the style can only be used as a base style for other style definitions (see Base Styles).

As in Python source code, context selectors are constructed using forward slashes (/) and the ellipsis (...). Another selector can be referenced in a context selector by enclosing its name in single or double quotes.

```
[admonition title colon : Admonition / ... / StyledText('colon')]
font_size=10pt

[chapter title : LabeledFlowable('chapter title')]
label_spacing=1cm
align_baselines=false

[chapter title number : 'chapter title' / Paragraph('number')]
font_size=96pt
text_align=right
```

5.4.3 Variables

Variables can be used for values that are used in multiple style definitions. This example declares a number of typefaces to allow easily replacing the fonts in a style sheet:

```
[VARIABLES]
mono_typeface=TeX Gyre Cursor
serif_typeface=TeX Gyre Pagella
sans_typeface=Tex Gyre Heros
thin_black_stroke=0.5pt,#000
blue=#20435c
```

It also defines the thin_black_stroke line style for use in table and frame styles, and a specific color labelled blue. These variables can be referenced in style definitions as follows:

```
[code block]
typeface=$(mono_typeface)
font_size=9pt
text_align=LEFT
indent_first=0
space_above=6pt
space_below=4pt
border=$(thin_black_stroke)
padding_left=5pt
padding_top=1pt
padding_bottom=3pt
```

Another stylesheet can inherit (see below) from this one and easily replace fonts in the document by overriding the variables.

5.4.4 Style Attribute Resolution

The style system makes a distinction between text (inline) elements and flowables with respect to how attribute values are resolved.

Text elements by default inherit the properties from their parent. Take for example the emphasis style definition from the example above. The value for style properties other than font_slant

(which is defined in the emphasis style itself) will be looked up in the style definition corresponding to the parent element, which can be either another StyledText instance, or a Paragraph. If the parent element is a StyledText that neither defines the style attribute, lookup proceeds recursively, moving up in the document tree.

For flowables, there is no fall-back to the parent's style by default. A base style can be specified explicitly however. If a style attribute is not present in a particular style definition, it is looked up in the base style. This can help avoid duplication of style information and the resulting maintenance difficulties. In the following example, the unnumbered heading level 1 style inherits all properties from heading level 1, overriding only the number_format attribute:

```
[heading level 1]
typeface=$(sans_typeface)
font_weight=BOLD
font_size=16pt
font_color=$(blue)
line_spacing=SINGLE
space_above=18pt
space_below=12pt
number_format=NUMBER
label_suffix=' '

[unnumbered heading level 1]
base=heading level 1
number_format=None
```

When a value for a particular style attribute is set nowhere in the style definition lookup hierarchy, its default value is returned. The default values for all style properties are defined in the class definition for each of the Style subclasses.

For text elements, it is possible to override the default behavior of falling back to the parent's style. Setting base to the label of a TextStyle or ParagraphStyle prevents fallback to the parent element's style.

For flowables, base can be set to PARENT_STYLE to enable fallback, but this requires that the current element type is the same or a subclass of the parent type, so it cannot be used for all styles.

5.5 Style Logs

When rendering a document, rinohtype will create a style log. It is written to disk using the same base name as the output file, but with a .stylelog extension. The information logged in the style log is invaluable when debugging your style sheet. It tells you which style maps to each element in the document.

The style log lists the document elements (as a tree) that have been rendered to each page, and for each element all matching styles are listed together with their specificity. No styles are listed when there aren't any selectors matching an element and the default values are used. The winning style is indicated with a > symbol. Styles that are not defined in the style sheet or its base(s) are marked with an x. If none of the styles are defined, rinohtype falls back to using the default style.

Here is an example excerpt from a style log:

```
...
  Paragraph('January 03, 2012', style='title page date')
       > (0,0,1,0,2) title page date
         (0,0,0,0,2) body
    SingleStyledText('January 03, 2012')
```

```
---------------------------------- page 3 ----------------------------------
#### ChainedContainer('column1')
  DocumentTree()
    Section(id='structural-elements')             demo.txt:62 <section>
         > (0,0,0,1,2) chapter
      Heading('1 Structural Elements')            demo.txt:62 <title>
           > (0,0,0,1,2) heading level 1
             (0,0,0,0,2) other heading levels
          MixedStyledText('1 Structural Elements')
            SingleStyledText('1')
            MixedStyledText(' ')
              SingleStyledText(' ')
            SingleStyledText('Structural Elements')
      Paragraph('A paragraph.')                   demo.txt:64 <paragraph>
           > (0,0,0,0,2) body
        MixedStyledText('A paragraph.')
          SingleStyledText('A paragraph.')
      List(style='bulleted')                      demo.txt:66 <bullet_list>
           > (0,0,1,0,2) bulleted list
        ListItem()
             x (0,0,1,0,4) bulleted list item
             > fallback to default style
          ListItemLabel('•')
               > (0,0,1,0,6) bulleted list item label
                 (0,0,0,0,2) list item label
              MixedStyledText('•')
                SingleStyledText('')
                SingleStyledText('•')
          StaticGroupedFlowables()                demo.txt:66 <list_item>
               > (0,0,0,0,3) list item body
...
```

Document Templates 6

When it is not possible to achieve a particular document style using one of the existing templates and a custom template configuration, you can create a new template. A new template is programmed in Python and therefor it is required that you are familiar with Python, or at least with general object-oriented programming.

6.1 Subclassing a Template

If you need to customize a template beyond what is possible by configuration, you can subclass a template class and override document part and page templates with custom templates. The following example subclasses Article.

```
from rinoh.attribute import OverrideDefault
from rinoh.template import DocumentPartTemplate, PageTemplate
from rinoh.templates import Article


class BibliographyPartTemplate(DocumentPartTemplate):
    ...


class MyTitlePageTemplate(PageTemplate):
    ...


class MyArticle(Article):
    parts = OverrideDefault(['title', 'contents', 'bibliography'])

    # default document part templates
    bibliography = BibliographyPartTemplate()

    # default page templates
    title_page = MyTitlePageTemplate(base='page')
    bibliography_page = PageTemplate(base='page')
```

MyArticle extends the Article template, adding the extra bibliography document part, along with the page template bibliography_page. The new document part is included in parts, while also leaving out front_matter by default. Finally, the template also replaces the title page template with a custom one.

6.2 Creating a Custom Template

A new template can be created from scratch by subclassing DocumentTemplate, defining all document parts, their templates and page templates.

The Article and Book templates are examples of templates that inherit directly from DocumentTemplate. We will briefly discuss the article template. The Article template overrides the default style sheet and defines the two custom template attributes discussed in Configuring a Template. The document parts title, front_matter and contents are listed the in parts attribute and part templates for each are provided along with page templates:

```
class Article(DocumentTemplate):
    stylesheet = OverrideDefault(sphinx_article)
    table_of_contents = Attribute(Bool, True,
                                  'Show or hide the table of contents')
    abstract_location = Attribute(AbstractLocation, 'front matter',
                                  'Where to place the abstract')

    parts = OverrideDefault(['title', 'front_matter', 'contents'])

    # default document part templates
    title = TitlePartTemplate()
    front_matter = ArticleFrontMatter()
    contents = ContentsPartTemplate()

    # default page templates
    page = PageTemplate(page_size=Var('paper_size'))
    title_page = TitlePageTemplate(base='page',
                                   top_margin=8*CM)
    front_matter_page = PageTemplate(base='page')
    contents_page = PageTemplate(base='page')
```

The custom ArticleFrontMatter template reads the values for the two custom template attributes defined in Article to determine which flowables are included in the front matter:

```
class ArticleFrontMatter(DocumentPartTemplate):
    toc_section = TableOfContentsSection()

    def _flowables(self, document):
        meta = document.metadata
        abstract_loc = document.get_option('abstract_location')
        if ('abstract' in meta
                and abstract_loc == AbstractLocation.FRONT_MATTER):
            yield meta['abstract']
        if document.get_option('table_of_contents'):
            yield self.toc_section
```

Have a look at the Book template source code for an example of a slightly more complex template that defines separate templates for left and right pages.

Reference 7

7.1 rinoh

Render a structured document to PDF.

```
usage: rinoh [-h] [-f FORMAT] [-o OPTION=VALUE] [-t NAME or FILENAME]
             [-s NAME or FILENAME] [-O FILENAME or DIRECTORY] [-p PAPER] [-i]
             [--list-templates] [--list-stylesheets] [--list-fonts
[FILENAME]]
             [--list-formats] [--list-options FRONTEND] [--version] [--docs]
             [input]
```

input the document to render

-h, --help show this help message and exit

-f <format>, --format <format>

the format of the input file (default: autodetect)

-o <option=value>, --option <option=value>

options to be passed to the input file reader

-t <name or filename>, --template <name or filename>

the document template or template configuration file to use (default: article)

-s <name or filename>, --stylesheet <name or filename>

the style sheet used to style the document elements (default: the template's default)

-O <filename or directory>, --output <filename or directory>

write the PDF output to FILENAME or to an existing DIRECTORY with a filename derived from the input filename (default: the current working directory)

-p <paper>, --paper <paper>

the paper size to render to (default: the template's default)

-i, --install-resources

automatically install missing resources (fonts, templates, style sheets) from PyPI

--list-templates list the installed document templates and exit

--list-stylesheets list the installed style sheets and exit

--list-fonts <filename>

list the installed fonts or, if FILENAME is given, write a PDF file displaying all the fonts

--list-formats list the supported input formats and exit

--list-options <frontend>

list the options supported by the given frontend and exit

--version show program's version number and exit

--docs open the online documentation in the default browser

7.2 Sphinx Builder

rinoh.frontent.sphinx is a Sphinx extension module. It provides a Sphinx builder with the name rinoh. The builder recognizes the following conf.py options. Of these, only rinoh_documents (or latex_documents) is required.

rinoh_documents Determines which PDF documents to build. Its format is a list of dictionaries, one for each document to be generated. The supported keys for these dictionaries are listed below. Two of them are required:

doc (required) String that specifies the name of the master document (typically index).

target (required) The name of the target PDF file without the extension.

The following keys allow overriding the content included on the document's title page and page headers/footers (depending on the template and its configuration). The values for text content can be plain text or StyledText.

logo (no default) Path (absolute or relative to the location of the conf.py file) to an image file, typically included on the title page.

title (default: "project documentation") The title of the document.

subtitle (default: "Release release") Subtitle of the document.

author (default: "author") The document's author.

date (default: determined from today and today_fmt) The document (build) date.

The remaining keys control what is included in the document and the document template (configuration) to use.

toctree_only (default: False) Must be True or False. If true, the document itself is not included in the output, only the documents referenced by it via TOC trees.

domain_indices (default: True) If true, generate domain-specific indices in addition to the general index. It is equivalent to the html_domain_indices and latex_domain_indices configuration variables.

template (default: Book) Determines the template used to render the document. It takes:

- the filename of a template configuration file,
- a TemplateConfiguration instance,
- the name of an installed template (see rinoh --list-templates), or

- a DocumentTemplate subclass

rinoh_documents will also accept other keys than those listed above. These items will be available as document metadata and can be used in a custom document template.

Example:

```
rinoh_documents = [
    dict(doc='index', target='manual', toctree_only=False,
         template='manual.rtt', logo='logo.pdf'),
    dict(doc='ref', target='reference', title='Reference
Manual',
         template='reference.rtt', stamp='DRAFT'),
]
```

7.2.1 Legacy Configuration Variables

The configuration variables below are no longer supported. Instead, their functionality can now be configured per document in rinoh_documents.

rinoh_template This configuration variable is no longer supported since the document template can be specified in rinoh_documents entries.

rinoh_stylesheet This configuration variable is no longer supported since it is not obvious which style sheet will be used when the template configuration also specifies a style sheet. Please specify the style sheet to use in your template configuration file:

```
[TEMPLATE_CONFIGURATION]
name = My Book
template = book
stylesheet = my_stylesheet.rts
```

rinoh_paper_size This configuration variable is no longer supported since it was not obvious which paper size was being used when the template configuration (rinoh_template) also specified a paper size. Please specify the paper_size to use in your template configuration file:

```
[TEMPLATE_CONFIGURATION]
name = My Book
template = book

[VARIABLES]
paper_size = A5
```

rinoh_logo This configuration variable is no longer supported since the logo can be specified in the rinoh_documents entries.

rinoh_domain_indices

This configuration variable is no longer supported since the domain_indices can be specified in the rinoh_documents entries.

rinoh_metadata This configuration variable is no longer supported. Metadata entries can now be added to rinoh_documents entries.

7.3 Style Sheets

7.3.1 Included Style Sheets

These style sheets are included with rinohtype:

rinoh.stylesheets.sphinx

Mostly a copy of the LaTeX style included with Sphinx

Entry point name: sphinx

rinoh.stylesheets.sphinx_article

The Sphinx stylesheet adjusted for the article template

Entry point name: sphinx_article

rinoh.stylesheets.sphinx_base14

The Sphinx stylesheet, but using the fonts from the PDF core set (yielding smaller PDF files)

Entry point name: sphinx_base14

Additional style sheets can be installed from PyPI. The installed style sheets can be listed using rinoh --list-stylesheets.

7.3.2 Default Matcher

The default matcher provides the selectors for the styles used in the standard style sheets.

rinoh.stylesheets.matcher

The default matcher defines the following styles

- title page rule: HorizontalRuleStyle
- title page logo: FlowableStyle
- title page title: ParagraphStyle
- title page subtitle: ParagraphStyle
- title page author: ParagraphStyle
- title page date: ParagraphStyle
- title page extra: ParagraphStyle
- front matter section title: ParagraphStyle
- body matter chapter label: ParagraphStyle
- body matter chapter number: TextStyle
- body matter chapter title: ParagraphStyle
- fallback: TextStyle
- italic: TextStyle

- bold: TextStyle
- monospaced: TextStyle
- emphasis: TextStyle
- strong: TextStyle
- literal emphasis: TextStyle
- literal strong: TextStyle
- inline math: TextStyle
- quote: TextStyle
- file path: TextStyle
- keystrokes: TextStyle
- regular expression: TextStyle
- code with variable: TextStyle
- mail header: TextStyle
- MIME type: TextStyle
- newsgroup: TextStyle
- command: TextStyle
- make variable: TextStyle
- program: TextStyle
- man page: TextStyle
- window title: TextStyle
- UI control: TextStyle
- UI control accelerator: TextStyle
- menu cascade: TextStyle
- draft comment: TextStyle
- title reference: TextStyle
- error: TextStyle
- linked reference: TextStyle
- unlinked reference: TextStyle
- internal hyperlink: TextStyle
- external hyperlink: TextStyle
- broken hyperlink: TextStyle
- glossary inline definition: TextStyle

- body: ParagraphStyle
- code block: ParagraphStyle
- code block caption: CaptionStyle
- math block: ParagraphStyle
- attribution: ParagraphStyle
- centered: ParagraphStyle
- line block: ParagraphStyle
- block quote: GroupedFlowablesStyle
- chapter: SectionStyle
- heading level 1: HeadingStyle
- unnumbered heading level 1: HeadingStyle
- heading level 2: HeadingStyle
- unnumbered heading level 2: HeadingStyle
- heading level 3: HeadingStyle
- unnumbered heading level 3: HeadingStyle
- heading level 4: HeadingStyle
- unnumbered heading level 4: HeadingStyle
- heading level 5: HeadingStyle
- unnumbered heading level 5: HeadingStyle
- other heading levels: HeadingStyle
- appendix: SectionStyle
- appendix heading level 1: HeadingStyle
- appendix heading level 2: HeadingStyle
- appendix heading level 3: HeadingStyle
- appendix heading level 4: HeadingStyle
- appendix heading level 5: HeadingStyle
- title: ParagraphStyle
- prerequisites: GroupedFlowablesStyle
- prerequisites title: ParagraphStyle
- post requirement: GroupedFlowablesStyle
- abstract: GroupedFlowablesStyle
- abstract paragraph: ParagraphStyle

- example: GroupedFlowablesStyle
- example title: ParagraphStyle
- topic: GroupedFlowablesStyle
- topic title: ParagraphStyle
- rubric: ParagraphStyle
- sidebar: GroupedFlowablesStyle
- sidebar title: ParagraphStyle
- sidebar subtitle: ParagraphStyle
- list item label: ListItemLabelStyle
- list item body: GroupedFlowablesStyle
- list item paragraph: ParagraphStyle
- enumerated list: ListStyle
- enumerated list item: LabeledFlowableStyle
- enumerated list item label: ListItemLabelStyle
- nested enumerated list: ListStyle
- (table) enumerated list: ListStyle
- (table) enumerated list item: LabeledFlowableStyle
- (table) enumerated list item label: ListItemLabelStyle
- bulleted list: ListStyle
- compact bulleted list: ListStyle
- bulleted list item: LabeledFlowableStyle
- bulleted list item label: ListItemLabelStyle
- nested bulleted list: ListStyle
- (table) bulleted list: ListStyle
- (table) bulleted list item: LabeledFlowableStyle
- (table) bulleted list item label: ListItemLabelStyle
- steps list: ListStyle
- steps list title: ParagraphStyle
- steps list item: LabeledFlowableStyle
- steps list item label: ListItemLabelStyle
- unordered steps list: ListStyle
- unordered steps list title: ParagraphStyle

- unordered steps list item: LabeledFlowableStyle
- unordered steps list item label: ListItemLabelStyle
- choices list: ListStyle
- choices list item: LabeledFlowableStyle
- choices list item label: ListItemLabelStyle
- definition list: GroupedFlowablesStyle
- definition list item: LabeledFlowableStyle
- definition term: GroupedFlowablesStyle
- definition term paragraph: ParagraphStyle
- definition term classifier: TextStyle
- definition: GroupedFlowablesStyle
- definition paragraph: ParagraphStyle
- related links: GroupedFlowablesStyle
- related links section title: ParagraphStyle
- related links list: ListStyle
- related links list item: LabeledFlowableStyle
- related links list item label: ListItemLabelStyle
- related links list item paragraph: ReferencingParagraphStyle
- related link title reference: TextStyle
- related link page reference: TextStyle
- related link number reference: TextStyle
- related link reference: TextStyle
- versionmodified: TextStyle
- object description: LabeledFlowableStyle
- object signatures: GroupedFlowablesStyle
- object signature: ParagraphStyle
- object name: TextStyle
- additional name part: TextStyle
- object type: TextStyle
- object returns: TextStyle
- object parentheses: TextStyle
- object parameter list: TextStyle

- object parameter: TextStyle
- object parameter (no emphasis): TextStyle
- object brackets: TextStyle
- object optional parameter: TextStyle
- object annotation: TextStyle
- object description content: GroupedFlowablesStyle
- object description content paragraph: ParagraphStyle
- production list: GroupedFlowablesStyle
- production: LabeledFlowableStyle
- token name: ParagraphStyle
- token definition: ParagraphStyle
- field list: GroupedFlowablesStyle
- field list item: LabeledFlowableStyle
- field name: ParagraphStyle
- option list: GroupedFlowablesStyle
- option list item: LabeledFlowableStyle
- option: ParagraphStyle
- option string: TextStyle
- option argument: TextStyle
- admonition: AdmonitionStyle
- admonition title: ParagraphStyle
- admonition inline title: TextStyle
- attention admonition: AdmonitionStyle
- attention admonition title: ParagraphStyle
- attention admonition inline title: TextStyle
- caution admonition: AdmonitionStyle
- caution admonition title: ParagraphStyle
- caution admonition inline title: TextStyle
- danger admonition: AdmonitionStyle
- danger admonition title: ParagraphStyle
- danger admonition inline title: TextStyle
- error admonition: AdmonitionStyle

- error admonition title: ParagraphStyle
- error admonition inline title: TextStyle
- hint admonition: AdmonitionStyle
- hint admonition title: ParagraphStyle
- hint admonition inline title: TextStyle
- important admonition: AdmonitionStyle
- important admonition title: ParagraphStyle
- important admonition inline title: TextStyle
- note admonition: AdmonitionStyle
- note admonition title: ParagraphStyle
- note admonition inline title: TextStyle
- tip admonition: AdmonitionStyle
- tip admonition title: ParagraphStyle
- tip admonition inline title: TextStyle
- warning admonition: AdmonitionStyle
- warning admonition title: ParagraphStyle
- warning admonition inline title: TextStyle
- seealso admonition: AdmonitionStyle
- seealso admonition title: ParagraphStyle
- seealso admonition inline title: TextStyle
- header: ParagraphStyle
- footer: ParagraphStyle
- footnote marker: NoteMarkerStyle
- citation marker: NoteMarkerStyle
- footnote paragraph: ParagraphStyle
- footnote label: ParagraphStyle
- image: FlowableStyle
- inline image: InlineFlowableStyle
- figure: FigureStyle
- figure image: FlowableStyle
- figure caption: CaptionStyle
- figure legend: GroupedFlowablesStyle

- figure legend paragraph: ParagraphStyle
- table of contents section: SectionStyle
- table of contents title: HeadingStyle
- table of contents: TableOfContentsStyle
- local table of contents: TableOfContentsStyle
- toc level 1: TableOfContentsEntryStyle
- toc level 2: TableOfContentsEntryStyle
- toc level 3: TableOfContentsEntryStyle
- L3 toc level 3: TableOfContentsEntryStyle
- toc linked reference: TextStyle
- list of figures section: SectionStyle
- list of figures: ListOfStyle
- list of figures entry: ListOfEntryStyle
- list of tables section: SectionStyle
- list of tables: ListOfStyle
- list of tables entry: ListOfEntryStyle
- table: TableStyle
- table with caption: TableWithCaptionStyle
- table caption: CaptionStyle
- choices table: TableStyle
- table cell: TableCellStyle
- table body cell background on even row: TableCellBackgroundStyle
- table body cell background on odd row: TableCellBackgroundStyle
- table body cell paragraph: ParagraphStyle
- table first column paragraph: ParagraphStyle
- table body cell list item number: ParagraphStyle
- table head cell: TableCellStyle
- table head cell paragraph: ParagraphStyle
- table cell left border: TableCellBorderStyle
- table cell top border: TableCellBorderStyle
- table cell right border: TableCellBorderStyle
- table cell bottom border: TableCellBorderStyle

- table top border: TableCellBorderStyle
- table bottom border: TableCellBorderStyle
- table left border: TableCellBorderStyle
- table right border: TableCellBorderStyle
- table head cell left border: TableCellBorderStyle
- table head cell right border: TableCellBorderStyle
- table head bottom border: TableCellBorderStyle
- table head left border: TableCellBorderStyle
- table head right border: TableCellBorderStyle
- table body top border: TableCellBorderStyle
- table body left border: TableCellBorderStyle
- table body right border: TableCellBorderStyle
- horizontal rule: HorizontalRuleStyle
- index: IndexStyle
- index section label: ParagraphStyle
- level 1 index entry: ParagraphStyle
- level 2 index entry: ParagraphStyle
- level 3 index entry: ParagraphStyle
- level 4 index entry: ParagraphStyle
- domain index entry name: TextStyle

7.3.3 Element Style Classes

These are the style classes corresponding to each type of document element. For each style class, the supported style attributes are listed along with the values that can be assigned to them in a style sheet.

draw.LineStyle	Style class for Line
draw.ShapeStyle	Style class for Shape
flowable.FlowableStyle	Style class for Flowable
flowable.LabeledFlowableStyle	Style class for LabeledFlowable
flowable.GroupedFlowablesStyle	Style class for GroupedFlowables
flowable.FloatStyle	Style class for Float
image.CaptionStyle	Style class for Caption
image.FigureStyle	Style class for Figure
index.IndexStyle	Style class for Index
paragraph.ParagraphStyle	Style class for Paragraph
text.TextStyle	Style class for Text

inline.InlineFlowableStyle	Style class for InlineFlowable
reference.ReferencingParagraphStyle	Style class for ReferencingParagraph
reference.NoteMarkerStyle	Style class for NoteMarker
structure.SectionStyle	Style class for Section
structure.HeadingStyle	Style class for Heading
structure.ListStyle	Style class for List
structure.ListItemLabelStyle	Style class for ListItemLabel
structure.TableOfContentsStyle	Style class for TableOfContents
structure.TableOfContentsEntryStyle	Style class for TableOfContentsEntry
structure.AdmonitionStyle	Style class for Admonition
structure.HorizontalRuleStyle	Style class for HorizontalRule
table.TableStyle	Style class for Table
table.TableCellStyle	Style class for TableCell
table.TableCellBorderStyle	Style class for TableCellBorder
table.TableCellBackgroundStyle	Style class for TableCellBackground

LineStyle

class rinoh.draw.LineStyle (base=None, **attributes)

Style class for Line

stroke Width and color used to draw the line

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: 1pt, #000

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

ShapeStyle

class rinoh.draw.ShapeStyle (base=None, **attributes)

Style class for Shape

fill_color Color to fill the shape

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: #e5e5e5

stroke Width and color used to draw the line (inherited from LineStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: 1pt, #000

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

FlowableStyle

class rinoh.flowable.FlowableStyle (base=None, **attributes)

Style class for Flowable

width Width to render the flowable at

Accepts FlowableWidth: auto, fill or a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: auto

horizontal_align Horizontal alignment of the flowable

Accepts HorizontalAlignment: left, right, center

Default: left

space_above Vertical space preceding the flowable

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

space_below Vertical space following the flowable

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_left Left margin

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_right Right margin

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding Padding

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_left Left padding

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_right Right padding

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_top Top padding

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_bottom Bottom padding

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

keep_with_next Keep this flowable and the next on the same page

Accepts Bool: true or false

Default: false

border Border surrounding the flowable

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_left Border left of the flowable

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_right Border right of the flowable

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_top Border above the flowable

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_bottom Border below the flowable

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

background_color

Color of the area within the flowable's borders

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: none

page_break Type of page break to insert before rendering this flowable

Accepts Break: none, any, left, right

Default: None

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

LabeledFlowableStyle

class rinoh.flowable.LabeledFlowableStyle (base=None, **attributes)

Style class for LabeledFlowable

label_min_width Minimum label width

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 12pt

label_max_width Maximum label width

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 80pt

label_spacing Spacing between a label and the labeled flowable

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 3pt

align_baselines Line up the baselines of the label and the labeled flowable

Accepts Bool: true or false

Default: true

wrap_label Wrap the label at label_max_width

Accepts Bool: true or false

Default: false

width Width to render the flowable at (inherited from FlowableStyle)

Accepts FlowableWidth: auto, fill or a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: auto

horizontal_align Horizontal alignment of the flowable (inherited from FlowableStyle)

Accepts HorizontalAlignment: left, right, center

Default: left

space_above Vertical space preceding the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

space_below Vertical space following the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_left Left margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_right Right margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding Padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_left Left padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_right Right padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_top Top padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_bottom Bottom padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

keep_with_next Keep this flowable and the next on the same page (inherited from FlowableStyle)

Accepts Bool: true or false

Default: false

border Border surrounding the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_left Border left of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_right Border right of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_top Border above the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_bottom Border below the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

background_color

Color of the area within the flowable's borders (inherited from FlowableStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: none

page_break Type of page break to insert before rendering this flowable

(inherited from FlowableStyle)

Accepts Break: none, any, left, right

Default: None

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

GroupedFlowablesStyle

class rinoh.flowable.GroupedFlowablesStyle (base=None, **attributes)

Style class for GroupedFlowables

width Overrides the default set in FlowableStyle

Accepts FlowableWidth: auto, fill or a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: fill

title Title to precede the flowables

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

flowable_spacing Spacing between flowables

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

horizontal_align Horizontal alignment of the flowable (inherited from FlowableStyle)

Accepts HorizontalAlignment: left, right, center

Default: left

space_above Vertical space preceding the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

space_below Vertical space following the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_left Left margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_right Right margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding Padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_left Left padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_right Right padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_top Top padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_bottom Bottom padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

keep_with_next Keep this flowable and the next on the same page (inherited from FlowableStyle)

Accepts Bool: true or false

Default: false

border Border surrounding the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_left Border left of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_right Border right of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_top Border above the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_bottom Border below the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

background_color

Color of the area within the flowable's borders (inherited from FlowableStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: none

page_break Type of page break to insert before rendering this flowable (inherited from FlowableStyle)

Accepts Break: none, any, left, right

Default: None

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

FloatStyle

class rinoh.flowable.FloatStyle (base=None, **attributes)

Style class for Float

float Float the flowable to the top or bottom of the page

Accepts Bool: true or false

Default: false

width Width to render the flowable at (inherited from FlowableStyle)

Accepts FlowableWidth: auto, fill or a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: auto

horizontal_align Horizontal alignment of the flowable (inherited from FlowableStyle)

Accepts HorizontalAlignment: left, right, center

Default: left

space_above Vertical space preceding the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

space_below Vertical space following the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_left Left margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_right Right margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding Padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_left Left padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_right Right padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_top Top padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_bottom Bottom padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

keep_with_next Keep this flowable and the next on the same page (inherited from FlowableStyle)

Accepts Bool: true or false

Default: false

border Border surrounding the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_left Border left of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_right Border right of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_top Border above the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_bottom Border below the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

background_color

Color of the area within the flowable's borders (inherited from FlowableStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: none

page_break Type of page break to insert before rendering this flowable (inherited from FlowableStyle)

Accepts Break: none, any, left, right

Default: None

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

CaptionStyle

class rinoh.image.CaptionStyle (base=None, **attributes)

Style class for Caption

number_format Overrides the default set in ParagraphStyle

Accepts NumberFormat: none, number, symbol, lowercase character, uppercase character, lowercase roman, uppercase roman

Default: number

numbering_level Overrides the default set in ParagraphStyle

Accepts Integer: a natural number (positive integer)

Default: 1

width Width to render the flowable at (inherited from ParagraphStyle)

Accepts FlowableWidth: auto, fill or a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: fill

indent_first Indentation of the first line of text (inherited from ParagraphStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0pt

line_spacing Spacing between the baselines of two successive lines of text (inherited from ParagraphStyle)

Accepts LineSpacing: a predefined line spacing type or the name of a line spacing type followed by comma-separated arguments enclosed in braces: <spacing type>(<arg1>, <arg2>, ...)

Default: default

text_align Alignment of text to the margins (inherited from ParagraphStyle)

Accepts TextAlign: left, right, center, justify

Default: justify

tab_stops List of tab positions (inherited from ParagraphStyle)

Accepts TabStopList: a comma-seperated list of tab stops. A tab stop is specified as <position> [align] [fill string], where position (Dimension) is required and align (TabAlign) and fill string (string enclosed in quotes) are optional.

Default: (no value)

number_separator

Characters inserted between the number label of this element's parent and this element's own number label. If None, only show this item's number label. (inherited from ParagraphStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: '.'

horizontal_align Horizontal alignment of the flowable (inherited from FlowableStyle)

Accepts HorizontalAlignment: left, right, center

Default: left

space_above Vertical space preceding the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

space_below Vertical space following the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_left Left margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_right Right margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding Padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_left Left padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_right Right padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_top Top padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_bottom Bottom padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

keep_with_next Keep this flowable and the next on the same page (inherited from FlowableStyle)

Accepts Bool: true or false

Default: false

border Border surrounding the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_left Border left of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_right Border right of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_top Border above the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_bottom Border below the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

background_color

Color of the area within the flowable's borders (inherited from FlowableStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: none

page_break Type of page break to insert before rendering this flowable (inherited from FlowableStyle)

Accepts Break: none, any, left, right

Default: None

label_prefix Text to prepend to the label (inherited from LabelStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

label_suffix Text to append to the label (inherited from LabelStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

custom_label Use a custom label if specified (inherited from LabelStyle)

Accepts Bool: true or false

Default: false

typeface Typeface to set the text in (inherited from TextStyle)

Accepts Typeface: the name of a typeface. See rinoh --list-fonts for a list of the available typefaces.

Default: Times

font_weight Thickness of character outlines relative to their height (inherited from TextStyle)

Accepts FontWeight: hairline, thin, ultra-light, extra-light, light, regular, normal, book, roman, medium, semi-bold, demi-bold, bold, extra-bold, ultra-bold, black, heavy, extra-black, ultra-black

Default: 500

font_slant Slope style of the font (inherited from TextStyle)

Accepts FontSlant: upright, oblique, italic

Default: upright

font_width Stretch of the characters (inherited from TextStyle)

Accepts FontWidth: ultra-condensed, extra-condensed, condensed, semi-condensed, normal, medium, semi-expanded, expanded, extra-expanded, ultra-expanded

Default: 5

font_size Height of characters (inherited from TextStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 10pt

font_color Color of the font (inherited from TextStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: #000

font_variant Variant of the font (inherited from TextStyle)

Accepts FontVariant: normal, small capital, oldstyle figures

Default: normal

position Vertical text position (inherited from TextStyle)

Accepts TextPosition: normal, superscript, subscript

Default: normal

kerning Improve inter-letter spacing (inherited from TextStyle)

Accepts Bool: true or false

Default: true

ligatures Run letters together where possible (inherited from TextStyle)

Accepts Bool: true or false

Default: true

hyphenate Allow words to be broken over two lines (inherited from TextStyle)

Accepts Bool: true or false

Default: true

hyphen_chars Minimum number of characters in a hyphenated part of a word (inherited from TextStyle)

Accepts Integer: a natural number (positive integer)

Default: 2

hyphen_lang Language to use for hyphenation. Accepts locale codes such as 'en_US' (inherited from TextStyle)

Accepts Locale: locale identifier in the <language ID>_<region ID> format

Default: en_US

before Item to insert before this one (inherited from InlineStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

after Item to insert after this one (inherited from InlineStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

FigureStyle

class rinoh.image.FigureStyle (base=None, **attributes)

Style class for Figure

float Float the flowable to the top or bottom of the page (inherited from FloatStyle)

Accepts Bool: true or false

Default: false

width Width to render the flowable at (inherited from FlowableStyle)

Accepts FlowableWidth: auto, fill or a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: auto

horizontal_align Horizontal alignment of the flowable (inherited from FlowableStyle)

Accepts HorizontalAlignment: left, right, center

Default: left

space_above Vertical space preceding the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

space_below Vertical space following the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_left Left margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_right Right margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding Padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_left Left padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_right Right padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_top Top padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_bottom Bottom padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

keep_with_next Keep this flowable and the next on the same page (inherited from FlowableStyle)

Accepts Bool: true or false

Default: false

border Border surrounding the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_left Border left of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_right Border right of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_top Border above the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_bottom Border below the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

background_color

Color of the area within the flowable's borders (inherited from FlowableStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: none

page_break Type of page break to insert before rendering this flowable (inherited from FlowableStyle)

Accepts Break: none, any, left, right

Default: None

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

title Title to precede the flowables (inherited from GroupedFlowablesStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

flowable_spacing Spacing between flowables (inherited from

GroupedFlowablesStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

IndexStyle

class rinoh.index.IndexStyle (base=None, **attributes)

Style class for Index

initials Group index entries based on their first letter

Accepts Bool: true or false

Default: true

width Width to render the flowable at (inherited from GroupedFlowablesStyle)

Accepts FlowableWidth: auto, fill or a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: fill

title Title to precede the flowables (inherited from GroupedFlowablesStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

flowable_spacing Spacing between flowables (inherited from GroupedFlowablesStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

horizontal_align Horizontal alignment of the flowable (inherited from FlowableStyle)

Accepts HorizontalAlignment: left, right, center

Default: left

space_above Vertical space preceding the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

space_below Vertical space following the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_left Left margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_right Right margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in,

pc, mm, cm, %, /2, /4)

Default: 0

padding Padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_left Left padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_right Right padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_top Top padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_bottom Bottom padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

keep_with_next Keep this flowable and the next on the same page (inherited from FlowableStyle)

Accepts Bool: true or false

Default: false

border Border surrounding the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_left Border left of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_right Border right of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_top Border above the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_bottom Border below the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of

the stroke, separated by a comma (,)

Default: none

background_color

Color of the area within the flowable's borders (inherited from FlowableStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: none

page_break Type of page break to insert before rendering this flowable (inherited from FlowableStyle)

Accepts Break: none, any, left, right

Default: None

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

ParagraphStyle

class rinoh.paragraph.ParagraphStyle (base=None, **attributes)

Style class for Paragraph

width Overrides the default set in FlowableStyle

Accepts FlowableWidth: auto, fill or a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: fill

indent_first Indentation of the first line of text

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0pt

line_spacing Spacing between the baselines of two successive lines of text

Accepts LineSpacing: a predefined line spacing type or the name of a line spacing type followed by comma-separated arguments enclosed in braces: <spacing type>(<arg1>, <arg2>, ...)

Default: default

text_align Alignment of text to the margins

Accepts TextAlign: left, right, center, justify

Default: justify

tab_stops List of tab positions

Accepts TabStopList: a comma-seperated list of tab stops. A tab stop is specified as <position> [align] [fill string], where position (Dimension) is required and align (TabAlign) and fill string (string enclosed in quotes) are optional.

Default: (no value)

number_format Overrides the default set in NumberStyle

Accepts NumberFormat: none, number, symbol, lowercase character, uppercase character, lowercase roman, uppercase roman

Default: None

number_separator

Characters inserted between the number label of this element's parent and this element's own number label. If None, only show this item's number label.

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: '.'

numbering_level At which section level to restart numbering (positive: absolute, negative: relative)

Accepts Integer: a natural number (positive integer)

Default: (no value)

horizontal_align Horizontal alignment of the flowable (inherited from FlowableStyle)

Accepts HorizontalAlignment: left, right, center

Default: left

space_above Vertical space preceding the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

space_below Vertical space following the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_left Left margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_right Right margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding Padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_left Left padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_right Right padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_top Top padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_bottom Bottom padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

keep_with_next Keep this flowable and the next on the same page (inherited from FlowableStyle)

Accepts Bool: true or false

Default: false

border Border surrounding the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_left Border left of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_right Border right of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_top Border above the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_bottom Border below the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

background_color

Color of the area within the flowable's borders (inherited from FlowableStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: none

page_break Type of page break to insert before rendering this flowable (inherited from FlowableStyle)

Accepts Break: none, any, left, right

Default: None

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

label_prefix Text to prepend to the label (inherited from LabelStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

label_suffix Text to append to the label (inherited from LabelStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

custom_label Use a custom label if specified (inherited from LabelStyle)

Accepts Bool: true or false

Default: false

typeface Typeface to set the text in (inherited from TextStyle)

Accepts Typeface: the name of a typeface. See rinoh --list-fonts for a list of the available typefaces.

Default: Times

font_weight Thickness of character outlines relative to their height (inherited from TextStyle)

Accepts FontWeight: hairline, thin, ultra-light, extra-light, light, regular, normal, book, roman, medium, semi-bold, demi-bold, bold, extra-bold, ultra-bold, black, heavy, extra-black, ultra-black

Default: 500

font_slant Slope style of the font (inherited from TextStyle)

Accepts FontSlant: upright, oblique, italic

Default: upright

font_width Stretch of the characters (inherited from TextStyle)

Accepts FontWidth: ultra-condensed, extra-condensed, condensed, semi-condensed, normal, medium, semi-expanded, expanded, extra-expanded, ultra-expanded

Default: 5

font_size Height of characters (inherited from TextStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 10pt

font_color Color of the font (inherited from TextStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: #000

font_variant Variant of the font (inherited from TextStyle)

Accepts FontVariant: normal, small capital, oldstyle figures

Default: normal

position Vertical text position (inherited from TextStyle)

Accepts TextPosition: normal, superscript, subscript

Default: normal

kerning Improve inter-letter spacing (inherited from TextStyle)

Accepts Bool: true or false

Default: true

ligatures Run letters together where possible (inherited from TextStyle)

Accepts Bool: true or false

Default: true

hyphenate Allow words to be broken over two lines (inherited from TextStyle)

Accepts Bool: true or false

Default: true

hyphen_chars Minimum number of characters in a hyphenated part of a word (inherited from TextStyle)

Accepts Integer: a natural number (positive integer)

Default: 2

hyphen_lang Language to use for hyphenation. Accepts locale codes such as 'en_US' (inherited from TextStyle)

Accepts Locale: locale identifier in the <language ID>_<region ID> format

Default: en_US

before Item to insert before this one (inherited from InlineStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

after Item to insert after this one (inherited from InlineStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

TextStyle

class rinoh.text.TextStyle (base=None, **attributes)

Style class for Text

typeface Typeface to set the text in

Accepts Typeface: the name of a typeface. See rinoh --list-fonts for a list of the available typefaces.

Default: Times

font_weight Thickness of character outlines relative to their height

Accepts FontWeight: hairline, thin, ultra-light, extra-light, light, regular, normal, book, roman, medium, semi-bold, demi-bold, bold, extra-bold, ultra-bold, black, heavy, extra-black, ultra-black

Default: 500

font_slant Slope style of the font

Accepts FontSlant: upright, oblique, italic

Default: upright

font_width Stretch of the characters

Accepts FontWidth: ultra-condensed, extra-condensed, condensed, semi-condensed, normal, medium, semi-expanded, expanded, extra-expanded, ultra-expanded

Default: 5

font_size Height of characters

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 10pt

font_color Color of the font

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: #000

font_variant Variant of the font

Accepts FontVariant: normal, small capital, oldstyle figures

Default: normal

position Vertical text position

Accepts TextPosition: normal, superscript, subscript

Default: normal

kerning Improve inter-letter spacing

Accepts Bool: true or false

Default: true

ligatures Run letters together where possible

Accepts Bool: true or false

Default: true

hyphenate Allow words to be broken over two lines

Accepts Bool: true or false

Default: true

hyphen_chars Minimum number of characters in a hyphenated part of a word

Accepts Integer: a natural number (positive integer)

Default: 2

hyphen_lang Language to use for hyphenation. Accepts locale codes such as 'en_US'

Accepts Locale: locale identifier in the <language ID>_<region ID> format

Default: en_US

before Item to insert before this one (inherited from InlineStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

after Item to insert after this one (inherited from InlineStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

InlineFlowableStyle

class rinoh.inline.InlineFlowableStyle (base=None, **attributes)

Style class for InlineFlowable

baseline The location of the flowable's baseline relative to the bottom edge

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0pt

width Width to render the flowable at (inherited from FlowableStyle)

Accepts FlowableWidth: auto, fill or a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: auto

horizontal_align Horizontal alignment of the flowable (inherited from FlowableStyle)

Accepts HorizontalAlignment: left, right, center

Default: left

space_above Vertical space preceding the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

space_below Vertical space following the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_left Left margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_right Right margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding Padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_left Left padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_right Right padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_top Top padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_bottom Bottom padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

keep_with_next Keep this flowable and the next on the same page (inherited from FlowableStyle)

Accepts Bool: true or false

Default: false

border Border surrounding the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_left Border left of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_right Border right of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_top Border above the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_bottom Border below the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

background_color

Color of the area within the flowable's borders (inherited from FlowableStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: none

page_break Type of page break to insert before rendering this flowable (inherited from FlowableStyle)

Accepts Break: none, any, left, right

Default: None

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

before Item to insert before this one (inherited from InlineStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

after Item to insert after this one (inherited from InlineStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

ReferencingParagraphStyle

class rinoh.reference.ReferencingParagraphStyle (base=None, **attributes)

Style class for ReferencingParagraph

text The text content of this paragraph

Accepts ReferenceText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: '{TITLE}'

width Width to render the flowable at (inherited from ParagraphStyle)

Accepts FlowableWidth: auto, fill or a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: fill

indent_first Indentation of the first line of text (inherited from ParagraphStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0pt

line_spacing Spacing between the baselines of two successive lines of text (inherited from ParagraphStyle)

Accepts LineSpacing: a predefined line spacing type or the name of a line spacing type followed by comma-separated arguments enclosed in braces: <spacing type>(<arg1>, <arg2>, ...)

Default: default

text_align Alignment of text to the margins (inherited from ParagraphStyle)

Accepts TextAlign: left, right, center, justify

Default: justify

tab_stops List of tab positions (inherited from ParagraphStyle)

Accepts TabStopList: a comma-seperated list of tab stops. A tab stop is specified as <position> [align] [fill string], where position (Dimension) is required and align (TabAlign) and fill string (string enclosed in quotes) are optional.

Default: (no value)

number_format How numbers are formatted (inherited from ParagraphStyle)

Accepts NumberFormat: none, number, symbol, lowercase character, uppercase character, lowercase roman, uppercase roman

Default: None

number_separator

Characters inserted between the number label of this element's parent and this element's own number label. If None, only show this item's number label. (inherited from ParagraphStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: '.'

numbering_level At which section level to restart numbering (positive: absolute, negative: relative) (inherited from ParagraphStyle)

Accepts Integer: a natural number (positive integer)

Default: (no value)

horizontal_align Horizontal alignment of the flowable (inherited from FlowableStyle)

Accepts HorizontalAlignment: left, right, center

Default: left

space_above Vertical space preceding the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

space_below Vertical space following the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_left Left margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_right Right margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding Padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_left Left padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_right Right padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_top Top padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_bottom Bottom padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

keep_with_next Keep this flowable and the next on the same page (inherited from FlowableStyle)

Accepts Bool: true or false

Default: false

border Border surrounding the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_left Border left of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_right Border right of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_top Border above the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_bottom Border below the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

background_color

Color of the area within the flowable's borders (inherited from FlowableStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: none

page_break Type of page break to insert before rendering this flowable (inherited from FlowableStyle)

Accepts Break: none, any, left, right

Default: None

label_prefix Text to prepend to the label (inherited from LabelStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

label_suffix Text to append to the label (inherited from LabelStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

custom_label Use a custom label if specified (inherited from LabelStyle)

Accepts Bool: true or false

Default: false

typeface Typeface to set the text in (inherited from TextStyle)

Accepts Typeface: the name of a typeface. See rinoh --list-fonts for a list of the available typefaces.

Default: Times

font_weight Thickness of character outlines relative to their height (inherited from TextStyle)

Accepts FontWeight: hairline, thin, ultra-light, extra-light, light, regular, normal, book, roman, medium, semi-bold, demi-bold, bold, extra-bold, ultra-bold, black, heavy, extra-black, ultra-black

Default: 500

font_slant Slope style of the font (inherited from TextStyle)

Accepts FontSlant: upright, oblique, italic

Default: upright

font_width Stretch of the characters (inherited from TextStyle)

Accepts FontWidth: ultra-condensed, extra-condensed, condensed, semi-condensed, normal, medium, semi-expanded, expanded, extra-expanded, ultra-expanded

Default: 5

font_size Height of characters (inherited from TextStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 10pt

font_color Color of the font (inherited from TextStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: #000

font_variant Variant of the font (inherited from TextStyle)

Accepts FontVariant: normal, small capital, oldstyle figures

Default: normal

position Vertical text position (inherited from TextStyle)

Accepts TextPosition: normal, superscript, subscript

Default: normal

kerning Improve inter-letter spacing (inherited from TextStyle)

Accepts Bool: true or false

Default: true

ligatures Run letters together where possible (inherited from TextStyle)

Accepts Bool: true or false

Default: true

hyphenate Allow words to be broken over two lines (inherited from TextStyle)

Accepts Bool: true or false

Default: true

hyphen_chars Minimum number of characters in a hyphenated part of a word (inherited from TextStyle)

Accepts Integer: a natural number (positive integer)

Default: 2

hyphen_lang Language to use for hyphenation. Accepts locale codes such as 'en_US' (inherited from TextStyle)

Accepts Locale: locale identifier in the <language ID>_<region ID> format

Default: en_US

before Item to insert before this one (inherited from InlineStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

after Item to insert after this one (inherited from InlineStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

NoteMarkerStyle

class rinoh.reference.NoteMarkerStyle (base=None, **attributes)

Style class for NoteMarker

typeface Typeface to set the text in (inherited from TextStyle)

Accepts Typeface: the name of a typeface. See rinoh --list-fonts for a list of the available typefaces.

Default: Times

font_weight Thickness of character outlines relative to their height (inherited from TextStyle)

Accepts FontWeight: hairline, thin, ultra-light, extra-light, light, regular, normal, book, roman, medium, semi-bold, demi-bold, bold, extra-bold, ultra-bold, black, heavy, extra-black, ultra-black

Default: 500

font_slant Slope style of the font (inherited from TextStyle)

Accepts FontSlant: upright, oblique, italic

Default: upright

font_width Stretch of the characters (inherited from TextStyle)

Accepts FontWidth: ultra-condensed, extra-condensed, condensed, semi-condensed, normal, medium, semi-expanded, expanded, extra-expanded, ultra-expanded

Default: 5

font_size Height of characters (inherited from TextStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 10pt

font_color Color of the font (inherited from TextStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: #000

font_variant Variant of the font (inherited from TextStyle)

Accepts FontVariant: normal, small capital, oldstyle figures

Default: normal

position Vertical text position (inherited from TextStyle)

Accepts TextPosition: normal, superscript, subscript

Default: normal

kerning Improve inter-letter spacing (inherited from TextStyle)

Accepts Bool: true or false

Default: true

ligatures Run letters together where possible (inherited from TextStyle)

Accepts Bool: true or false

Default: true

hyphenate Allow words to be broken over two lines (inherited from TextStyle)

Accepts Bool: true or false

Default: true

hyphen_chars Minimum number of characters in a hyphenated part of a word (inherited from TextStyle)

Accepts Integer: a natural number (positive integer)

Default: 2

hyphen_lang Language to use for hyphenation. Accepts locale codes such as 'en_US' (inherited from TextStyle)

Accepts Locale: locale identifier in the <language ID>_<region ID> format

Default: en_US

before Item to insert before this one (inherited from InlineStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

after Item to insert after this one (inherited from InlineStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

number_format How numbers are formatted (inherited from NumberStyle)

Accepts NumberFormat: none, number, symbol, lowercase character, uppercase character, lowercase roman, uppercase roman

Default: number

label_prefix Text to prepend to the label (inherited from LabelStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

label_suffix Text to append to the label (inherited from LabelStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

custom_label Use a custom label if specified (inherited from LabelStyle)

Accepts Bool: true or false

Default: false

SectionStyle

class rinoh.structure.SectionStyle (base=None, **attributes)

Style class for Section

show_in_toc List this section in the table of contents

Accepts Bool: true or false

Default: true

width Width to render the flowable at (inherited from GroupedFlowablesStyle)

Accepts FlowableWidth: auto, fill or a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: fill

title Title to precede the flowables (inherited from GroupedFlowablesStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

flowable_spacing Spacing between flowables (inherited from GroupedFlowablesStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

horizontal_align Horizontal alignment of the flowable (inherited from FlowableStyle)

Accepts HorizontalAlignment: left, right, center

Default: left

space_above Vertical space preceding the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

space_below Vertical space following the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_left Left margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in,

pc, mm, cm, %, /2, /4)

Default: 0

margin_right Right margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding Padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_left Left padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_right Right padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_top Top padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_bottom Bottom padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

keep_with_next Keep this flowable and the next on the same page (inherited from FlowableStyle)

Accepts Bool: true or false

Default: false

border Border surrounding the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_left Border left of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_right Border right of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_top Border above the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the

stroke, separated by a comma (,)

Default: none

border_bottom Border below the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

background_color

Color of the area within the flowable's borders (inherited from FlowableStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: none

page_break Type of page break to insert before rendering this flowable (inherited from FlowableStyle)

Accepts Break: none, any, left, right

Default: None

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

HeadingStyle

class rinoh.structure.HeadingStyle (base=None, **attributes)

Style class for Heading

keep_with_next Overrides the default set in FlowableStyle

Accepts Bool: true or false

Default: true

numbering_level Overrides the default set in ParagraphStyle

Accepts Integer: a natural number (positive integer)

Default: -1

width Width to render the flowable at (inherited from ParagraphStyle)

Accepts FlowableWidth: auto, fill or a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: fill

indent_first Indentation of the first line of text (inherited from ParagraphStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0pt

line_spacing Spacing between the baselines of two successive lines of text (inherited from ParagraphStyle)

Accepts LineSpacing: a predefined line spacing type or the name of a line spacing type followed by comma-separated arguments enclosed in braces: <spacing type>(<arg1>, <arg2>, ...)

Default: default

text_align Alignment of text to the margins (inherited from ParagraphStyle)

Accepts TextAlign: left, right, center, justify

Default: justify

tab_stops List of tab positions (inherited from ParagraphStyle)

Accepts TabStopList: a comma-seperated list of tab stops. A tab stop is specified as <position> [align] [fill string], where position (Dimension) is required and align (TabAlign) and fill string (string enclosed in quotes) are optional.

Default: (no value)

number_format How numbers are formatted (inherited from ParagraphStyle)

Accepts NumberFormat: none, number, symbol, lowercase character, uppercase character, lowercase roman, uppercase roman

Default: None

number_separator

Characters inserted between the number label of this element's parent and this element's own number label. If None, only show this item's number label. (inherited from ParagraphStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: '.'

horizontal_align Horizontal alignment of the flowable (inherited from FlowableStyle)

Accepts HorizontalAlignment: left, right, center

Default: left

space_above Vertical space preceding the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

space_below Vertical space following the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_left Left margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_right Right margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding Padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_left Left padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_right Right padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_top Top padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_bottom Bottom padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

border Border surrounding the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_left Border left of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_right Border right of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_top Border above the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_bottom Border below the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

background_color

Color of the area within the flowable's borders (inherited from FlowableStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: none

page_break Type of page break to insert before rendering this flowable (inherited from FlowableStyle)

Accepts Break: none, any, left, right

Default: None

label_prefix Text to prepend to the label (inherited from LabelStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

label_suffix Text to append to the label (inherited from LabelStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

custom_label Use a custom label if specified (inherited from LabelStyle)

Accepts Bool: true or false

Default: false

typeface Typeface to set the text in (inherited from TextStyle)

Accepts Typeface: the name of a typeface. See rinoh --list-fonts for a list of the available typefaces.

Default: Times

font_weight Thickness of character outlines relative to their height (inherited from TextStyle)

Accepts FontWeight: hairline, thin, ultra-light, extra-light, light, regular, normal, book, roman, medium, semi-bold, demi-bold, bold, extra-bold, ultra-bold, black, heavy, extra-black, ultra-black

Default: 500

font_slant Slope style of the font (inherited from TextStyle)

Accepts FontSlant: upright, oblique, italic

Default: upright

font_width Stretch of the characters (inherited from TextStyle)

Accepts FontWidth: ultra-condensed, extra-condensed, condensed, semi-condensed, normal, medium, semi-expanded, expanded, extra-expanded, ultra-expanded

Default: 5

font_size Height of characters (inherited from TextStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 10pt

font_color Color of the font (inherited from TextStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: #000

font_variant Variant of the font (inherited from TextStyle)

Accepts FontVariant: normal, small capital, oldstyle figures

Default: normal

position Vertical text position (inherited from TextStyle)

Accepts TextPosition: normal, superscript, subscript

Default: normal

kerning Improve inter-letter spacing (inherited from TextStyle)

Accepts Bool: true or false

Default: true

ligatures Run letters together where possible (inherited from TextStyle)

Accepts Bool: true or false

Default: true

hyphenate Allow words to be broken over two lines (inherited from TextStyle)

Accepts Bool: true or false

Default: true

hyphen_chars Minimum number of characters in a hyphenated part of a word (inherited from TextStyle)

Accepts Integer: a natural number (positive integer)

Default: 2

hyphen_lang Language to use for hyphenation. Accepts locale codes such as 'en_US' (inherited from TextStyle)

Accepts Locale: locale identifier in the <language ID>_<region ID> format

Default: en_US

before Item to insert before this one (inherited from InlineStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

after Item to insert after this one (inherited from InlineStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

ListStyle

class rinoh.structure.ListStyle (base=None, **attributes)

Style class for List

ordered This list is ordered or unordered

Accepts Bool: true or false

Default: false

bullet Bullet to use in unordered lists

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: '•'

width Width to render the flowable at (inherited from GroupedFlowablesStyle)

Accepts FlowableWidth: auto, fill or a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: fill

title Title to precede the flowables (inherited from GroupedFlowablesStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

flowable_spacing Spacing between flowables (inherited from GroupedFlowablesStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

horizontal_align Horizontal alignment of the flowable (inherited from FlowableStyle)

Accepts HorizontalAlignment: left, right, center

Default: left

space_above Vertical space preceding the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

space_below Vertical space following the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_left Left margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_right Right margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding Padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_left Left padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_right Right padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_top Top padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_bottom Bottom padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

keep_with_next Keep this flowable and the next on the same page (inherited from FlowableStyle)

Accepts Bool: true or false

Default: false

border Border surrounding the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_left Border left of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_right Border right of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_top Border above the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_bottom Border below the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

background_color

Color of the area within the flowable's borders (inherited from FlowableStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: none

page_break Type of page break to insert before rendering this flowable (inherited from FlowableStyle)

Accepts Break: none, any, left, right

Default: None

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

number_format How numbers are formatted (inherited from NumberStyle)

Accepts NumberFormat: none, number, symbol, lowercase character, uppercase character, lowercase roman, uppercase roman

Default: number

label_prefix Text to prepend to the label (inherited from LabelStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

label_suffix Text to append to the label (inherited from LabelStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

custom_label Use a custom label if specified (inherited from LabelStyle)

Accepts Bool: true or false

Default: false

ListItemLabelStyle

class rinoh.structure.ListItemLabelStyle (base=None, **attributes)

Style class for ListItemLabel

width Width to render the flowable at (inherited from ParagraphStyle)

Accepts FlowableWidth: auto, fill or a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: fill

indent_first Indentation of the first line of text (inherited from ParagraphStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0pt

line_spacing Spacing between the baselines of two successive lines of text (inherited from ParagraphStyle)

Accepts LineSpacing: a predefined line spacing type or the name of a line spacing type followed by comma-separated arguments enclosed in braces: <spacing type>(<arg1>, <arg2>, ...)

Default: default

text_align Alignment of text to the margins (inherited from ParagraphStyle)

Accepts TextAlign: left, right, center, justify

Default: justify

tab_stops List of tab positions (inherited from ParagraphStyle)

Accepts TabStopList: a comma-seperated list of tab stops. A tab stop is specified as <position> [align] [fill string], where position (Dimension) is required and align (TabAlign) and fill string (string enclosed in quotes) are optional.

Default: (no value)

number_format How numbers are formatted (inherited from ParagraphStyle)

Accepts NumberFormat: none, number, symbol, lowercase character, uppercase character, lowercase roman, uppercase roman

Default: None

number_separator

Characters inserted between the number label of this element's parent and this element's own number label. If None, only show this item's number label. (inherited from ParagraphStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: '.'

numbering_level At which section level to restart numbering (positive: absolute, negative: relative) (inherited from ParagraphStyle)

Accepts Integer: a natural number (positive integer)

Default: (no value)

horizontal_align Horizontal alignment of the flowable (inherited from FlowableStyle)

Accepts HorizontalAlignment: left, right, center

Default: left

space_above Vertical space preceding the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

space_below Vertical space following the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_left Left margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_right Right margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding Padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_left Left padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_right Right padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_top Top padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_bottom Bottom padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

keep_with_next Keep this flowable and the next on the same page (inherited from FlowableStyle)

Accepts Bool: true or false

Default: false

border Border surrounding the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_left Border left of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_right Border right of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_top Border above the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_bottom Border below the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

background_color

Color of the area within the flowable's borders (inherited from FlowableStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: none

page_break Type of page break to insert before rendering this flowable (inherited from FlowableStyle)

Accepts Break: none, any, left, right

Default: None

label_prefix Text to prepend to the label (inherited from LabelStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

label_suffix Text to append to the label (inherited from LabelStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

custom_label Use a custom label if specified (inherited from LabelStyle)

Accepts Bool: true or false

Default: false

typeface Typeface to set the text in (inherited from TextStyle)

Accepts Typeface: the name of a typeface. See rinoh --list-fonts for a list of the available typefaces.

Default: Times

font_weight Thickness of character outlines relative to their height (inherited from TextStyle)

Accepts FontWeight: hairline, thin, ultra-light, extra-light, light, regular, normal, book, roman, medium, semi-bold, demi-bold, bold, extra-bold, ultra-bold, black, heavy, extra-black, ultra-black

Default: 500

font_slant Slope style of the font (inherited from TextStyle)

Accepts FontSlant: upright, oblique, italic

Default: upright

font_width Stretch of the characters (inherited from TextStyle)

Accepts FontWidth: ultra-condensed, extra-condensed, condensed, semi-condensed, normal, medium, semi-expanded, expanded, extra-expanded, ultra-expanded

Default: 5

font_size Height of characters (inherited from TextStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 10pt

font_color Color of the font (inherited from TextStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: #000

font_variant Variant of the font (inherited from TextStyle)

Accepts FontVariant: normal, small capital, oldstyle figures

Default: normal

position Vertical text position (inherited from TextStyle)

Accepts TextPosition: normal, superscript, subscript

Default: normal

kerning Improve inter-letter spacing (inherited from TextStyle)

Accepts Bool: true or false

Default: true

ligatures Run letters together where possible (inherited from TextStyle)

Accepts Bool: true or false

Default: true

hyphenate Allow words to be broken over two lines (inherited from TextStyle)

Accepts Bool: true or false

Default: true

hyphen_chars Minimum number of characters in a hyphenated part of a word (inherited from TextStyle)

Accepts Integer: a natural number (positive integer)

Default: 2

hyphen_lang Language to use for hyphenation. Accepts locale codes such as ‘en_US’ (inherited from TextStyle)

Accepts Locale: locale identifier in the <language ID>_<region ID> format

Default: en_US

before Item to insert before this one (inherited from InlineStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

after Item to insert after this one (inherited from InlineStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

TableOfContentsStyle

class rinoh.structure.TableOfContentsStyle (base=None, **attributes)

Style class for TableOfContents

depth The number of section levels to include in the table of contents

Accepts Integer: a natural number (positive integer)

Default: 3

width Width to render the flowable at (inherited from GroupedFlowablesStyle)

Accepts FlowableWidth: auto, fill or a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: fill

title Title to precede the flowables (inherited from GroupedFlowablesStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

flowable_spacing Spacing between flowables (inherited from GroupedFlowablesStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

horizontal_align Horizontal alignment of the flowable (inherited from FlowableStyle)

Accepts HorizontalAlignment: left, right, center

Default: left

space_above Vertical space preceding the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

space_below Vertical space following the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_left Left margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_right Right margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding Padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_left Left padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_right Right padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_top Top padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_bottom Bottom padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

keep_with_next Keep this flowable and the next on the same page (inherited from FlowableStyle)

Accepts Bool: true or false

Default: false

border Border surrounding the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_left Border left of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_right Border right of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_top Border above the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_bottom Border below the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

background_color

Color of the area within the flowable's borders (inherited from FlowableStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: none

page_break Type of page break to insert before rendering this flowable (inherited from FlowableStyle)

Accepts Break: none, any, left, right

Default: None

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

indent_first Indentation of the first line of text (inherited from ParagraphStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0pt

line_spacing Spacing between the baselines of two successive lines of text (inherited from ParagraphStyle)

Accepts LineSpacing: a predefined line spacing type or the name of a line spacing type followed by comma-separated arguments enclosed in braces: <spacing type>(<arg1>, <arg2>, ...)

Default: default

text_align Alignment of text to the margins (inherited from ParagraphStyle)

Accepts TextAlign: left, right, center, justify

Default: justify

tab_stops List of tab positions (inherited from ParagraphStyle)

Accepts TabStopList: a comma-seperated list of tab stops. A tab stop is specified as <position> [align] [fill string], where position (Dimension) is required and align (TabAlign) and fill string (string enclosed in quotes) are optional.

Default: (no value)

number_format How numbers are formatted (inherited from ParagraphStyle)

Accepts NumberFormat: none, number, symbol, lowercase character, uppercase character, lowercase roman, uppercase roman

Default: None

number_separator

Characters inserted between the number label of this element's parent and this element's own number label. If None, only show this item's number label. (inherited from ParagraphStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: '.'

numbering_level At which section level to restart numbering (positive: absolute, negative: relative) (inherited from ParagraphStyle)

Accepts Integer: a natural number (positive integer)

Default: (no value)

label_prefix Text to prepend to the label (inherited from LabelStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

label_suffix Text to append to the label (inherited from LabelStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

custom_label Use a custom label if specified (inherited from LabelStyle)

Accepts Bool: true or false

Default: false

typeface Typeface to set the text in (inherited from TextStyle)

Accepts Typeface: the name of a typeface. See rinoh --list-fonts for a list of the available typefaces.

Default: Times

font_weight Thickness of character outlines relative to their height (inherited from TextStyle)

Accepts FontWeight: hairline, thin, ultra-light, extra-light, light, regular, normal, book, roman, medium, semi-bold, demi-bold, bold, extra-bold, ultra-bold, black, heavy, extra-black, ultra-black

Default: 500

font_slant Slope style of the font (inherited from TextStyle)

Accepts FontSlant: upright, oblique, italic

Default: upright

font_width Stretch of the characters (inherited from TextStyle)

Accepts FontWidth: ultra-condensed, extra-condensed, condensed, semi-condensed, normal, medium, semi-expanded,

expanded, extra-expanded, ultra-expanded

Default: 5

font_size Height of characters (inherited from TextStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 10pt

font_color Color of the font (inherited from TextStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: #000

font_variant Variant of the font (inherited from TextStyle)

Accepts FontVariant: normal, small capital, oldstyle figures

Default: normal

position Vertical text position (inherited from TextStyle)

Accepts TextPosition: normal, superscript, subscript

Default: normal

kerning Improve inter-letter spacing (inherited from TextStyle)

Accepts Bool: true or false

Default: true

ligatures Run letters together where possible (inherited from TextStyle)

Accepts Bool: true or false

Default: true

hyphenate Allow words to be broken over two lines (inherited from TextStyle)

Accepts Bool: true or false

Default: true

hyphen_chars Minimum number of characters in a hyphenated part of a word (inherited from TextStyle)

Accepts Integer: a natural number (positive integer)

Default: 2

hyphen_lang Language to use for hyphenation. Accepts locale codes such as 'en_US' (inherited from TextStyle)

Accepts Locale: locale identifier in the <language ID>_<region ID> format

Default: en_US

before Item to insert before this one (inherited from InlineStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

after Item to insert after this one (inherited from InlineStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

TableOfContentsEntryStyle

class rinoh.structure.TableOfContentsEntryStyle (base=None, **attributes)

Style class for TableOfContentsEntry

text Overrides the default set in ReferencingParagraphStyle

Accepts ReferenceText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: '{NUMBER}' '\t' '{TITLE}' '\t' '{PAGE}'

width Width to render the flowable at (inherited from ParagraphStyle)

Accepts FlowableWidth: auto, fill or a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: fill

indent_first Indentation of the first line of text (inherited from ParagraphStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0pt

line_spacing Spacing between the baselines of two successive lines of text (inherited from ParagraphStyle)

Accepts LineSpacing: a predefined line spacing type or the name of a line spacing type followed by comma-separated arguments enclosed in braces: <spacing type>(<arg1>, <arg2>, ...)

Default: default

text_align Alignment of text to the margins (inherited from ParagraphStyle)

Accepts TextAlign: left, right, center, justify

Default: justify

tab_stops List of tab positions (inherited from ParagraphStyle)

Accepts TabStopList: a comma-seperated list of tab stops. A tab stop is specified as <position> [align] [fill string], where position (Dimension) is required and align (TabAlign) and fill string (string enclosed in quotes) are optional.

Default: (no value)

number_format How numbers are formatted (inherited from ParagraphStyle)

Accepts NumberFormat: none, number, symbol, lowercase character, uppercase character, lowercase roman, uppercase roman

Default: None

number_separator

Characters inserted between the number label of this element's parent and this element's own number label. If None, only show this item's number label. (inherited from ParagraphStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces:

'text string' (style name)

Default: '.'

numbering_level At which section level to restart numbering (positive: absolute, negative: relative) (inherited from ParagraphStyle)

Accepts Integer: a natural number (positive integer)

Default: (no value)

horizontal_align Horizontal alignment of the flowable (inherited from FlowableStyle)

Accepts HorizontalAlignment: left, right, center

Default: left

space_above Vertical space preceding the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

space_below Vertical space following the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_left Left margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_right Right margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding Padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_left Left padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_right Right padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_top Top padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_bottom Bottom padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

keep_with_next Keep this flowable and the next on the same page (inherited from FlowableStyle)

Accepts Bool: true or false

Default: false

border Border surrounding the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_left Border left of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_right Border right of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_top Border above the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_bottom Border below the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

background_color

Color of the area within the flowable's borders (inherited from FlowableStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: none

page_break Type of page break to insert before rendering this flowable (inherited from FlowableStyle)

Accepts Break: none, any, left, right

Default: None

label_prefix Text to prepend to the label (inherited from LabelStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

label_suffix Text to append to the label (inherited from LabelStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

custom_label Use a custom label if specified (inherited from LabelStyle)

Accepts Bool: true or false

Default: false

typeface Typeface to set the text in (inherited from TextStyle)

Accepts Typeface: the name of a typeface. See rinoh --list-fonts for a list of the available typefaces.

Default: Times

font_weight Thickness of character outlines relative to their height (inherited from TextStyle)

Accepts FontWeight: hairline, thin, ultra-light, extra-light, light, regular, normal, book, roman, medium, semi-bold, demi-bold, bold, extra-bold, ultra-bold, black, heavy, extra-black, ultra-black

Default: 500

font_slant Slope style of the font (inherited from TextStyle)

Accepts FontSlant: upright, oblique, italic

Default: upright

font_width Stretch of the characters (inherited from TextStyle)

Accepts FontWidth: ultra-condensed, extra-condensed, condensed, semi-condensed, normal, medium, semi-expanded, expanded, extra-expanded, ultra-expanded

Default: 5

font_size Height of characters (inherited from TextStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 10pt

font_color Color of the font (inherited from TextStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: #000

font_variant Variant of the font (inherited from TextStyle)

Accepts FontVariant: normal, small capital, oldstyle figures

Default: normal

position Vertical text position (inherited from TextStyle)

Accepts TextPosition: normal, superscript, subscript

Default: normal

kerning Improve inter-letter spacing (inherited from TextStyle)

Accepts Bool: true or false

Default: true

ligatures Run letters together where possible (inherited from TextStyle)

Accepts Bool: true or false

Default: true

hyphenate Allow words to be broken over two lines (inherited from TextStyle)

Accepts Bool: true or false

Default: true

hyphen_chars Minimum number of characters in a hyphenated part of a word (inherited from TextStyle)

Accepts Integer: a natural number (positive integer)

Default: 2

hyphen_lang Language to use for hyphenation. Accepts locale codes such as 'en_US' (inherited from TextStyle)

Accepts Locale: locale identifier in the <language ID>_<region ID> format

Default: en_US

before Item to insert before this one (inherited from InlineStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

after Item to insert after this one (inherited from InlineStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

AdmonitionStyle

class rinoh.structure.AdmonitionStyle (base=None, **attributes)

Style class for Admonition

inline_title Show the admonition's title inline with the body text, if possible

Accepts Bool: true or false

Default: true

width Width to render the flowable at (inherited from GroupedFlowablesStyle)

Accepts FlowableWidth: auto, fill or a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: fill

title Title to precede the flowables (inherited from GroupedFlowablesStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

flowable_spacing Spacing between flowables (inherited from GroupedFlowablesStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

horizontal_align Horizontal alignment of the flowable (inherited from FlowableStyle)

Accepts HorizontalAlignment: left, right, center

Default: left

space_above Vertical space preceding the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

space_below Vertical space following the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_left Left margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_right Right margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding Padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_left Left padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_right Right padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_top Top padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_bottom Bottom padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

keep_with_next Keep this flowable and the next on the same page (inherited from FlowableStyle)

Accepts Bool: true or false

Default: false

border Border surrounding the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_left Border left of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_right Border right of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_top Border above the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_bottom Border below the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

background_color

Color of the area within the flowable's borders (inherited from FlowableStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: none

page_break Type of page break to insert before rendering this flowable (inherited from FlowableStyle)

Accepts Break: none, any, left, right

Default: None

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

HorizontalRuleStyle

class rinoh.structure.HorizontalRuleStyle (base=None, **attributes)

Style class for HorizontalRule

width Width to render the flowable at (inherited from FlowableStyle)

Accepts FlowableWidth: auto, fill or a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: auto

horizontal_align Horizontal alignment of the flowable (inherited from FlowableStyle)

Accepts HorizontalAlignment: left, right, center

Default: left

space_above Vertical space preceding the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

space_below Vertical space following the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_left Left margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_right Right margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding Padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_left Left padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_right Right padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_top Top padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_bottom Bottom padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

keep_with_next Keep this flowable and the next on the same page (inherited from FlowableStyle)

Accepts Bool: true or false

Default: false

border Border surrounding the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_left Border left of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_right Border right of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_top Border above the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_bottom Border below the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

background_color

Color of the area within the flowable's borders (inherited from FlowableStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: none

page_break Type of page break to insert before rendering this flowable (inherited from FlowableStyle)

Accepts Break: none, any, left, right

Default: None

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

stroke Width and color used to draw the line (inherited from LineStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke,

separated by a comma (,)

Default: 1pt, #000

TableStyle

class rinoh.table.TableStyle (base=None, **attributes)

Style class for Table

column_widths Absolute or relative widths of each column

Accepts ColumnWidths: a whitespace-delimited list of column widths; Dimensions (absolute width), integers (relative width) and/or 'auto' (automatic width)

Default: none

split_minimum_rows

The minimum number of rows to display when the table is split across pages

Accepts Integer: a natural number (positive integer)

Default: (no value)

repeat_head Repeat the head when the table is split across pages

Accepts Bool: true or false

Default: false

width Width to render the flowable at (inherited from FlowableStyle)

Accepts FlowableWidth: auto, fill or a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: auto

horizontal_align Horizontal alignment of the flowable (inherited from FlowableStyle)

Accepts HorizontalAlignment: left, right, center

Default: left

space_above Vertical space preceding the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

space_below Vertical space following the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_left Left margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_right Right margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding Padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_left Left padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_right Right padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_top Top padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_bottom Bottom padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

keep_with_next Keep this flowable and the next on the same page (inherited from FlowableStyle)

Accepts Bool: true or false

Default: false

border Border surrounding the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_left Border left of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_right Border right of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_top Border above the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_bottom Border below the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

background_color

Color of the area within the flowable's borders (inherited from FlowableStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: none

page_break Type of page break to insert before rendering this flowable (inherited from FlowableStyle)

Accepts Break: none, any, left, right

Default: None

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

TableCellStyle

class rinoh.table.TableCellStyle (base=None, **attributes)

Style class for TableCell

vertical_align Vertical alignment of the cell contents within the available space

Accepts VerticalAlign: top, middle, bottom

Default: middle

width Width to render the flowable at (inherited from GroupedFlowablesStyle)

Accepts FlowableWidth: auto, fill or a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: fill

title Title to precede the flowables (inherited from GroupedFlowablesStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

flowable_spacing Spacing between flowables (inherited from GroupedFlowablesStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

horizontal_align Horizontal alignment of the flowable (inherited from FlowableStyle)

Accepts HorizontalAlignment: left, right, center

Default: left

space_above Vertical space preceding the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

space_below Vertical space following the flowable (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_left Left margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

margin_right Right margin (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding Padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_left Left padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_right Right padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_top Top padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

padding_bottom Bottom padding (inherited from FlowableStyle)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 0

keep_with_next Keep this flowable and the next on the same page (inherited from FlowableStyle)

Accepts Bool: true or false

Default: false

border Border surrounding the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_left Border left of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_right Border right of the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_top Border above the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

border_bottom Border below the flowable (inherited from FlowableStyle)

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

background_color

Color of the area within the flowable's borders (inherited from FlowableStyle)

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: none

page_break Type of page break to insert before rendering this flowable (inherited from FlowableStyle)

Accepts Break: none, any, left, right

Default: None

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

TableCellBorderStyle

class rinoh.table.TableCellBorderStyle (base=None, **attributes)

Style class for TableCellBorder

stroke Overrides the default set in LineStyle

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

TableCellBackgroundStyle

class rinoh.table.TableCellBackgroundStyle (base=None, **attributes)

Style class for TableCellBackground

fill_color Overrides the default set in ShapeStyle

Accepts Color: HEX string with optional alpha component (#RRGGBB, #RRGGBBAA, #RGB or #RGBA)

Default: none

stroke Overrides the default set in LineStyle

Accepts Stroke: the width (Dimension) and color (Color) of the stroke, separated by a comma (,)

Default: none

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

7.4 Standard Document Templates

Rinohtype includes a number of document templates. These are configurable and therefore should cater for most documents.

7.4.1 Article

The article template consists of a title page, an optional table of contents and the body text. By default, it uses a single numbering style for all pages and the same template for even and odd pages.

class rinoh.templates.article.Article (document_tree, configuration=None, backend=None)

stylesheet Overrides the default set in DocumentTemplate

Accepts StyleSheet: the name of an installed style sheet or the filename of a stylesheet file (with the .rts extension)

Default: sphinx_article (= rinoh.stylesheets.sphinx_article)

table_of_contents Show or hide the table of contents

Accepts Bool: true or false

Default: true

abstract_location Where to place the abstract

Accepts AbstractLocation: title, front matter

Default: front matter

parts Overrides the default set in DocumentTemplate

Accepts PartsList: a space-separated list of document part template names

Default: title front_matter contents

language The main language of the document (inherited from DocumentTemplate)

Accepts Language: the code of one of the supported languages

Default: EN (English)

strings Strings to override standard element names (inherited from DocumentTemplate)

Accepts Strings: strings need to be entered in INI sections named after the StringCollection subclasses

Default: none

title base: None

Type TitlePartTemplate

front_matter base: None

Type ArticleFrontMatter

contents base: None

Type ContentsPartTemplate

page base: None

Overrides these defaults:

- page_size = $(paper_size)

Type PageTemplate

title_page base: page

Overrides these defaults:

- top_margin = 8cm

Type TitlePageTemplate

front_matter_page

base: page

Type PageTemplate

contents_page base: page

Type PageTemplate

Configuration alias of rinoh.template.ArticleConfiguration

ConfigurationFile alias of rinoh.template.ArticleConfigurationFile

class rinoh.templates.article.AbstractLocation

Where to place the article's abstract

Accepts: title, front matter

7.4.2 Book

The book template consists of a title page, the table of contents, the body text and an index. The front matter pages are numbered using lowercase roman numerals. The template uses different templates for even and odd pages.

class rinoh.templates.book.Book (document_tree, configuration=None, backend=None)

stylesheet Overrides the default set in DocumentTemplate

Accepts StyleSheet: the name of an installed style sheet or the file-name of a stylesheet file (with the .rts extension)

Default: sphinx (= rinoh.stylesheets.sphinx)

parts Overrides the default set in DocumentTemplate

Accepts PartsList: a space-separated list of document part template names

Default: title front_matter contents back_matter

language The main language of the document (inherited from DocumentTemplate)

Accepts Language: the code of one of the supported languages

Default: EN (English)

strings Strings to override standard element names (inherited from DocumentTemplate)

Accepts Strings: strings need to be entered in INI sections named after the StringCollection subclasses

Default: none

cover base: None

Overrides these defaults:

- drop_if_empty = False
- page_number_format = None
- end_at_page = left

Type FixedDocumentPartTemplate

title base: None

Overrides these defaults:

- page_number_format = number
- end_at_page = left

Type TitlePartTemplate

front_matter base: None

Overrides these defaults:

- flowables = [TableOfContentsSection(), ListOfFiguresSection(), ListOfTablesSection()]
- page_number_format = lowercase roman
- end_at_page = left

Type FixedDocumentPartTemplate

contents base: None

Overrides these defaults:

- page_number_format = number
- end_at_page = left

Type ContentsPartTemplate

back_matter base: None

Overrides these defaults:

- page_number_format = number
- end_at_page = left

Type BackMatterTemplate

page base: None

Overrides these defaults:

- page_size = $(paper_size)
- left_margin = 1in
- right_margin = 1in
- top_margin = 1in
- bottom_margin = 1in

Type PageTemplate

cover_page base: page

Type PageTemplate

title_page base: page

Type TitlePageTemplate

front_matter_page

base: page

Overrides these defaults:

- header_footer_distance = 0
- header_text = None

Type PageTemplate

front_matter_right_page

base: front_matter_page

Overrides these defaults:

- footer_text = '\t' '\t' '{PAGE_NUMBER}'
- chapter_header_text = None
- chapter_footer_text = '\t' '\t' '{PAGE_NUMBER}'
- chapter_title_height = 2.5in
- chapter_title_flowables = [<rinoh.paragraph.Paragraph object at 0x7fee371c2610>]

Type PageTemplate

front_matter_left_page

base: front_matter_page

Overrides these defaults:

- footer_text = '{PAGE_NUMBER}'

Type PageTemplate

contents_page base: page

Overrides these defaults:

- header_footer_distance = 0

Type PageTemplate

contents_right_page

base: contents_page

Overrides these defaults:

- header_text = '\t' '\t' '{DOCUMENT_TITLE}' ', ' '{DOCUMENT_SUBTITLE}'
- footer_text = '{SECTION_NUMBER(2)}' '. ' '{SECTION_TITLE(2)}' '\t' '\t' '{PAGE_NUMBER}'
- chapter_header_text = None
- chapter_footer_text = '\t' '\t' '{PAGE_NUMBER}'
- chapter_title_height = 2.4in
- chapter_title_flowables = [<rinoh.paragraph.Paragraph object at 0x7fee371c2580>, <rinoh.paragraph.Paragraph object at 0x7fee371dbb50>]

Type PageTemplate

contents_left_page

base: contents_page

Overrides these defaults:

- header_text = '{DOCUMENT_TITLE}' ', ' '{DOCUMENT_SUBTITLE}'
- footer_text = '{PAGE_NUMBER}' '\t' '\t' '{SectionTitles.chapter}' ' ' '{SECTION_NUMBER(1)}' '. ' '{SECTION_TITLE(1)}'

Type PageTemplate

back_matter_page

base: page

Overrides these defaults:

- columns = 2
- header_footer_distance = 0

Type PageTemplate

back_matter_right_page

base: back_matter_page

Overrides these defaults:

- header_text = '\t' '\t' '{DOCUMENT_TITLE}' ', ' '{DOCUMENT_SUBTITLE}'
- footer_text = '{SECTION_TITLE(1)}' '\t' '\t' '{PAGE_NUMBER}'
- chapter_header_text = None

- chapter_footer_text = '\t' '\t' '{PAGE_NUMBER}'
- chapter_title_height = 2.5in
- chapter_title_flowables = [<rinoh.paragraph.Paragraph object at 0x7fee371c2610>]

Type PageTemplate

back_matter_left_page

base: back_matter_page

Overrides these defaults:

- header_text = '{DOCUMENT_TITLE}' ', ' '{DOCUMENT_SUBTITLE}'
- footer_text = '{PAGE_NUMBER}' '\t' '\t' '{SECTION_TITLE(1)}'

Type PageTemplate

Configuration alias of rinoh.template.BookConfiguration

ConfigurationFile alias of rinoh.template.BookConfigurationFile

API Documentation 8

Note

The API documentation is still incomplete.

8.1 Attribute (rinoh.attribute)

class rinoh.attribute.AcceptNoneAttributeType

Accepts ‘none’ (besides other values)

class rinoh.attribute.OptionSet

Accepts the values listed in values

Accepts:

class rinoh.attribute.Attribute (accepted_type, default_value, description)

Descriptor used to describe a style attribute

class rinoh.attribute.OverrideDefault (default_value)

Overrides the default value of an attribute defined in a superclass

class rinoh.attribute.AttributesDictionary (base=None, **attributes)

class rinoh.attribute.RuleSet (name, base=None, source=None, **kwargs)

class rinoh.attribute.RuleSetFile (filename, base=None, source=None, **kwargs)

property location Textual representation of this source

property root Directory path for resolving paths relative to this source

class rinoh.attribute.Bool

Expresses a binary choice

class rinoh.attribute.Integer

Accepts natural numbers

exception rinoh.attribute.ParseError

8.2 Color (rinoh.color)

class rinoh.color.Color (red, green, blue, alpha=1)

Color defined by component values

Parameters
- red (float) – red component (0 .. 1)
- blue (float) – blue component (0 .. 1)
- green (float) – green component (0 .. 1)
- alpha (float) – opacity (0 .. 1)

property rgba

classmethod parse_string (string, source)

classmethod doc_format ( )

class rinoh.color.HexColor (string)

Color defined as a hexadecimal string

Parameters string (str) – #RGBA or #RRGGBBAA (# and A are optional)

class rinoh.color.Gray (luminance, alpha=1)

Shade of gray

Parameters
- luminance (float) – brightness (0 .. 1)
- alpha (float) – opacity (0 .. 1)

8.3 Dimension (rinoh.dimension)

Classes for expressing dimensions: lengths, widths, line thickness, etc.

Each dimension is expressed in terms of a unit. Several common units are are defined here as constants. To create a new dimension, multiply number with a unit:

```
height = 100*PT
width = 50*PERCENT
```

Fractional dimensions are evaluated within the context they are defined in. For example, the width of a Flowable is evaluated with respect to the total width available to it.

class rinoh.dimension.Dimension (value=0, unit=None)

A simple dimension

Parameters
- value (int or float) – the magnitude of the dimension
- unit (DimensionUnit) – the unit this dimension is expressed in. Default: PT.

grow (value) Grow this dimension (in-place)

The value is interpreted as a magnitude expressed in the same unit as this dimension.

Parameters value (int or float) – the amount to add to the magnitude of this dimension

Returns Dimension – this (growed) dimension itself

rinoh.dimension.PT = DimensionUnit(1.0, 'pt')

PostScript points

rinoh.dimension.PICA = DimensionUnit(12.0, 'pc')

computer pica

rinoh.dimension.INCH = DimensionUnit(72.0, 'in')

imperial/US inch

rinoh.dimension.MM = DimensionUnit(2.8346456692913384, 'mm')

millimeter

rinoh.dimension.CM = DimensionUnit(28.346456692913385, 'cm')

centimeter

rinoh.dimension.PERCENT = FractionUnit(100, '%')

fraction of 100

rinoh.dimension.QUARTERS = FractionUnit(4, '/4')

fraction of 4

8.4 Document (rinoh.document)

class rinoh.document.DocumentTree (flowables, options=None)

Holds the document's contents as a tree of flowables

Parameters

- flowables (list[Flowable]) – the list of top-level flowables
- source_root (Path) – path used to locate images and include in logging and error and warnings.
- options (Reader) – frontend-specific options

class rinoh.document.Document (document_tree, stylesheet, language, strings=None, backend=None)

Renders a document tree to pages

Parameters

- document_tree (DocumentTree) – a tree of the document's contents
- stylesheet (StyleSheet) – style sheet used to style document elements
- language (Language) – the language to use for standard strings
- strings (Strings) – overrides localized strings provided by language
- backend – the backend used for rendering the document

render (filename_root=None, file=None)

Render the document repeatedly until the output no longer changes due to cross-references that need some iterations to converge.

8.4.1 Pages

class rinoh.document.Page (document_part, number, paper, orientation='portrait')

A single page in a document.

A Page is a Container, so other containers can be added as children.

Parameters
- document_part (DocumentPart) – the document part this page is part of
- number (int) – the 1-based index of this page in the document part
- paper (Paper) – determines the dimensions of this page
- orientation (PageOrientation) – the orientation of this page

property page Returns the page itself.

render ( ) Render the contents of this container to its canvas.

Note that the rendered contents need to be place()d on the parent container's canvas before they become visible.

place ( ) Place this container's canvas onto the parent container's canvas.

class rinoh.document.PageOrientation

Accepts: portrait, landscape

class rinoh.document.PageType

Accepts: left, right, any

8.5 Drawing Primitives (rinoh.draw)

class rinoh.draw.Stroke (width, color)

The display properties of a line

Parameters
- width (Dimension) – the width of the line
- color (Color) – the color of the line

class rinoh.draw.Line (start, end, style=None, parent=None)

Draws a line

Parameters
- start (2-tuple) – coordinates for the start point of the line
- end (2-tuple) – coordinates for the end point of the line

style_class alias of rinoh.draw.LineStyle

class rinoh.draw.Shape (style=None, parent=None)

Base class for closed shapes

style_class alias of rinoh.draw.ShapeStyle

class rinoh.draw.Polygon (points, style=None, parent=None)

class rinoh.draw.Rectangle (bottom_left, width, height, style=None, parent=None)

8.6 Flowable (rinoh.flowable)

class rinoh.flowable.Flowable (align=None, width=None, id=None, style=None, parent=None, source=None)

A document element that can be "flowed" into a container on the page.

A flowable can adapt to the width of the container, or it can horizontally align itself in the container.

Parameters
- align (HorizontalAlignment) – horizontal alignment of the flowable
- width (FlowableWidth or DimensionBase) – the width of the flowable.

class rinoh.flowable.FlowableState (flowable, _initial=True)

Stores a flowable's rendering state, which can be copied.

This enables saving the rendering state at certain points in the rendering process, so rendering can later be resumed at those points, if needed.

8.6.1 No-Output Flowables

These flowables do not directly place anything on the page. All except DummyFlowable do have side-effects however. Some of these side-effects affect the rendering of the document in an indirect way.

class rinoh.flowable.DummyFlowable (id=None, parent=None)

A flowable that does not directly place anything on the page.

Subclasses can produce side-effects to affect the output in another way.

class rinoh.flowable.AnchorFlowable (id=None, parent=None)

A dummy flowable that registers a destination anchor.

Places a destination for the flowable's ID at the current cursor position.

class rinoh.flowable.SetMetadataFlowable (parent=None, **metadata)

A dummy flowable that stores metadata in the document.

The metadata is passed as keyword arguments. It will be available to other flowables during the rendering stage.

class rinoh.flowable.WarnFlowable (message, parent=None)

A dummy flowable that emits a warning during the rendering stage.

Parameters message (str) – the warning message to emit

class rinoh.flowable.PageBreak (page_break='any')

8.6.2 Labeled Flowables

class rinoh.flowable.LabeledFlowable (label, flowable, id=None, style=None, parent=None)

A flowable with a label.

The flowable and the label are rendered side-by-side. If the label exceeds the label_max_width style attribute value, the flowable is rendered below the label.

Parameters
- label (Flowable) – the label for the flowable
- flowable (Flowable) – the flowable to label

style_class alias of rinoh.flowable.LabeledFlowableStyle

prepare (flowable_target)

Determine number labels and register references with the document

render (container, last_descender, state, label_column_width=None, space_below=0, **kwargs)

Renders the flowable's content to container, with the flowable's top edge lining up with the container's cursor. descender is the descender height of the preceding line or None.

class rinoh.flowable.LabeledFlowableState (flowable, content_flowable_state, _initial=True)

8.6.3 Grouping Flowables

class rinoh.flowable.GroupedFlowables (align=None, width=None, id=None, style=None, parent=None, source=None)

Groups a list of flowables and renders them one below the other.

Makes sure that a flowable for which keep_with_next is enabled is not seperated from the flowable that follows it.

Subclasses should implement flowables().

style_class alias of rinoh.flowable.GroupedFlowablesStyle

flowables (container)

Generator yielding the Flowables to group

render (container, descender, state, first_line_only=False, **kwargs)

Renders the flowable's content to container, with the flowable's top edge lining up with the container's cursor. descender is the descender height of the preceding line or None.

class rinoh.flowable.GroupedFlowablesState (groupedflowables, flowables, first_flowable_state=None, _initial=True, _index=0)

class rinoh.flowable.StaticGroupedFlowables (flowables, align=None, width=None, id=None, style=None, parent=None, source=None)

Groups a static list of flowables.

Parameters flowables (iterable[Flowable]) – the flowables to group

flowables (container)

Generator yielding the Flowables to group

build_document (flowable_target)

Set document metadata and populate front and back matter

prepare (flowable_target)

Determine number labels and register references with the document

class rinoh.flowable.GroupedLabeledFlowables (align=None, width=None, id=None, style=None, parent=None, source=None)

Groups a list of labeled flowables, lining them up.

render (container, descender, state, **kwargs)

Renders the flowable's content to container, with the flowable's top edge lining up with the container's cursor. descender is the descender height of the preceding line or None.

8.6.4 Floating Flowables

class rinoh.flowable.Float (align=None, width=None, id=None, style=None, parent=None, source=None)

A flowable that can optionally be placed elsewhere on the page.

If this flowable's float style attribute is set to True, it is not flowed in line with the surrounding flowables, but it is instead flowed into another container pointed to by the former's Container.float_space attribute.

This is typically used to place figures and tables at the top or bottom of a page, instead of in between paragraphs.

flow (container, last_descender, state=None, **kwargs)

Flow this flowable into container and return the vertical space consumed.

The flowable's contents are preceded by a vertical space with a height as specified in its style's space_above attribute. Similarly, the flowed content is followed by a vertical space with a height given by the space_below style attribute.

8.6.5 Styling Properties

class rinoh.flowable.HorizontalAlignment

Controls horizontal placement

Accepts: left, right, center

class rinoh.flowable.FlowableWidth

Controls the width of a flowable

Accepts: auto, fill or a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

8.7 Fonts and Typefaces (rinoh.font)

Classes for fonts and typefaces.

class rinoh.font.Font (filename, weight, slant, width)

A collection of glyphs in a particular style

This is a base class for classes that parse different font formats. See rinoh.font.type1 and rinoh.font.opentype.

Parameters

- filename (str) – filename of the font file to load

- weight (FontWeight) – weight of the font
- slant (FontSlant) – slant of the font
- width (FontWidth) – width of the font

encoding If no encoding is set for the Font, glyphs are addressed by glyph ID (and thus support more than 256 glyphs).

get_glyph (char, variant)

Return the glyph for a particular character

If the glyph of requested font variant is not present in the font, the normal variant is returned instead. If that is not present either, an exception is raised.

Parameters
- char (str of length 1) – the character for which to find the glyph
- variant (FontVariant) – the variant of the glyph to return

Returns GlyphMetrics – the requested glyph

Raises MissingGlyphException – when the requested glyph is not present in the font

get_ligature (glyph, successor_glyph)

Return the ligature to replace the given glyphs

If no ligature is defined in the font for the given glyphs, return None.

Parameters
- glyph (GlyphMetrics) – the first of the glyphs to combine
- successor_glyph (GlyphMetrics) – the second of the glyphs to combine

Returns GlyphMetrics or None – the ligature to replace the given glyphs

get_kerning (a, b)

Look up the kerning for two glyphs

Parameters
- a (GlyphMetrics) – the first of the glyphs
- b (GlyphMetrics) – the second of the glyphs

Returns float – the kerning value in font units

class rinoh.font.Typeface (name, *fonts)

A set of fonts that share common design features

The fonts collected in a typeface differ in weight, width and/or slant.

Parameters *fonts (Font) – the fonts that make up this typeface

fonts ( ) Generator yielding all fonts of this typeface

Yields Font – the next font in this typeface

get_font (weight=400, slant='upright', width=5)

Return the font matching or closest to the given style

If a font with the given weight, slant and width is available, return it. Otherwise, return the font that is closest in style.

Parameters
- weight (FontWeight) – weight of the font
- slant (FontSlant) – slant of the font
- width (FontWidth) – width of the font

Returns Font – the requested font

class rinoh.font.style.FontWeight

Accepts: hairline, thin, ultra-light, extra-light, light, regular, normal, book, roman, medium, semi-bold, demi-bold, bold, extra-bold, ultra-bold, black, heavy, extra-black, ultra-black

class rinoh.font.style.FontSlant

Accepts: upright, oblique, italic

class rinoh.font.style.FontWidth

Accepts: ultra-condensed, extra-condensed, condensed, semi-condensed, normal, medium, semi-expanded, expanded, extra-expanded, ultra-expanded

class rinoh.font.style.FontVariant

Accepts: normal, small capital, oldstyle figures

class rinoh.font.style.TextPosition

Accepts: normal, superscript, subscript

8.8 Images and Figures (rinoh.image)

class rinoh.image.Image (filename_or_file, scale=1.0, width=None, height=None, dpi=None, rotate=0, limit_width=<rinoh.dimension.Fraction object>, align=None, id=None, style=None, parent=None, source=None)

class rinoh.image.InlineImage (filename_or_file, scale=1.0, width=None, height=None, dpi=None, rotate=0, baseline=None, id=None, style=None, parent=None, source=None)

arguments alias of rinoh.image.InlineImageArgs

class rinoh.image.BackgroundImage (filename_or_file, scale=1.0, width=None, height=None, dpi=None, rotate=0, limit_width=<rinoh.dimension.Fraction object>, align=None, id=None, style=None, parent=None, source=None)

Image to place in the background of a page

Takes the same arguments as Image.

arguments alias of rinoh.image.ImageArgs

class rinoh.image.ImageArgs (base=None, **attributes)

limit_width Limit the image width when none of scale, width and height are given and the image would be wider than the container

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 100%

align How to align the image within the page

Accepts HorizontalAlignment: left, right, center

Default: left

file_or_filename Path to the image file (inherited from ImageArgsBase)

Accepts ImagePath: path to an image file enclosed in quotes

Default: none

scale Scaling factor for the image (inherited from ImageArgsBase)

Accepts Scale: fit, fill or a float larger than 0

Default: fit

width The width to scale the image to (inherited from ImageArgsBase)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: none

height The height to scale the image to (inherited from ImageArgsBase)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: none

dpi Overrides the DPI value set in the image (inherited from ImageArgsBase)

Accepts Integer: a natural number (positive integer)

Default: (no value)

rotate Angle in degrees to rotate the image (inherited from ImageArgsBase)

Accepts Integer: a natural number (positive integer)

Default: (no value)

class rinoh.image.Scale

Scaling factor for images

Can be a numerical value where a value of 1 keeps the image's original size or one of values.

Accepts: fit, fill or a float larger than 0

class rinoh.image.Caption (content, custom_label=None, align=None, width=None, id=None, style=None, parent=None, source=None)

style_class alias of rinoh.image.CaptionStyle

class rinoh.image.Figure (flowables, align=None, width=None, id=None, style=None, parent=None, source=None)

style_class alias of rinoh.image.FigureStyle

class rinoh.image.ListOfFiguresSection

list_class alias of rinoh.image.ListOfFigures

class rinoh.image.ListOfFigures (local=False, id=None, style=None, parent=None)

8.9 Index (rinoh.index)

class rinoh.index.IndexSection (title=None, flowables=None, style=None)

class rinoh.index.Index (id=None, style=None, parent=None)

style_class alias of rinoh.index.IndexStyle

flowables (container)

Generator yielding the Flowables to group

class rinoh.index.IndexLabel (content, custom_label=None, align=None, width=None, id=None, style=None, parent=None, source=None)

class rinoh.index.IndexTerm (*levels)

class rinoh.index.InlineIndexTarget (index_terms, *args, **kwargs)

to_string (flowable_target)

Return the text content of this styled text.

class rinoh.index.IndexTarget (index_terms, parent=None)

flow (container, last_descender, state=None, **kwargs)

Flow this flowable into container and return the vertical space consumed.

The flowable's contents are preceded by a vertical space with a height as specified in its style's space_above attribute. Similarly, the flowed content is followed by a vertical space with a height given by the space_below style attribute.

8.10 Language (rinoh.language)

class rinoh.language.Language (code, name)

Collects localized strings for a particular language

Parameters

- code (str) – short code identifying the language
- name (str) – native name of the language

languages Dictionary mapping codes to Languages

The following languages are supported:

rinoh.language.EN = Language('en', 'English')

Localized strings for English

SectionTitles

Contents Table of Contents

List_of_figures List of Figures

List_of_tables List of Tables

Chapter Chapter

Index Index

AdmonitionTitles

Attention Attention!

Caution Caution!

Danger !DANGER!

Error Error

Hint Hint
Important Important
Note Note
Tip Tip
Warning Warning
Seealso See also
rinoh.language.FR = Language('fr', 'Français')
Localized strings for Français
SectionTitles
Contents Table des Matières
List_of_figures Liste des Figures
List_of_tables Liste des Tableaux
Chapter Chapitre
Index Index
AdmonitionTitles
Attention Attention!
Caution Prudence!
Danger !DANGER!
Error Erreur
Hint Conseil
Important Important
Note Note
Tip Astuce
Warning Avertissement
Seealso Voir aussi
rinoh.language.IT = Language('it', 'Italiano')
Localized strings for Italiano
SectionTitles
Contents Contenuti
List_of_figures Elenco delle Figure
List_of_tables Elenco delle Tabelle
Chapter Capitolo
Index Indice
AdmonitionTitles
Attention Attenzione!
Caution Prudenza!
Danger !PERICOLO!
Error Errore
Hint Consiglio
Important Importante
Note Nota

Tip Suggerimento
Warning Avvertimento
Seealso Vedi anche
rinoh.language.NL = Language('nl', 'Nederlands')
Localized strings for Nederlands
SectionTitles
Contents Inhoudsopgave
List_of_figures Lijst van Figuren
List_of_tables Lijst van Tabellen
Chapter Hoofdstuk
Index Index
AdmonitionTitles
Attention Opgelet!
Caution Pas op!
Danger !GEVAAR!
Error Fout
Hint Hint
Important Belangrijk
Note Noot
Tip Tip
Warning Waarschuwing
Seealso Zie ook
rinoh.language.PL = Language('pl', 'Polski')
Localized strings for Polski
SectionTitles
Contents Spis Treści
List_of_figures Spis Ilustracji
List_of_tables Spis Tabel
Chapter Rozdział
Index Skorowidz
AdmonitionTitles
Attention Uwaga!
Caution Ostrożnie!
Danger !NIEBEZPIECZEŃSTWO!
Error Błąd
Hint Wskazówka
Important Ważne
Note Notatka
Tip Porada
Warning Ostrzeżenie
Seealso Zobacz również

8.11 Number (rinoh.number)

Functions for formatting numbers:

- format_number(): Format a number according to a given style.

class rinoh.number.NumberFormat

How (or if) numbers are displayed

Accepts: none, number, symbol, lowercase character, uppercase character, lowercase roman, uppercase roman

class rinoh.number.NumberStyle (base=None, **attributes)

Style class for Number

number_format How numbers are formatted

Accepts NumberFormat: none, number, symbol, lowercase character, uppercase character, lowercase roman, uppercase roman

Default: number

label_prefix Text to prepend to the label (inherited from LabelStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

label_suffix Text to append to the label (inherited from LabelStyle)

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

custom_label Use a custom label if specified (inherited from LabelStyle)

Accepts Bool: true or false

Default: false

hide Suppress rendering this element (inherited from Style)

Accepts Bool: true or false

Default: false

class rinoh.number.Label (custom_label=None)

Mixin class that formats a label

Parameters custom_label (StyledText) – a frontend can supply a custom label to use instead of an automatically determined label (typically a number)

rinoh.number.format_number (number, format)

Format number according the given format (NumberFormat)

8.12 Paper sizes (rinoh.paper)

The Paper class and a number of predefined paper formats.

class rinoh.paper.Paper (name, width, height)

Defines a paper size.

Parameters

- name (str) – the name of this paper type
- width (Dimension) – the (portrait) width of this paper type
- height (Dimension) – the (portrait) height of this paper type

rinoh.paper.A0 = Paper('A0', width=841*MM, height=1189*MM)

rinoh.paper.A1 = Paper('A1', width=594*MM, height=841*MM)

rinoh.paper.A2 = Paper('A2', width=420*MM, height=594*MM)

rinoh.paper.A3 = Paper('A3', width=297*MM, height=420*MM)

rinoh.paper.A4 = Paper('A4', width=210*MM, height=297*MM)

rinoh.paper.A5 = Paper('A5', width=148*MM, height=210*MM)

rinoh.paper.A6 = Paper('A6', width=105*MM, height=148*MM)

rinoh.paper.A7 = Paper('A7', width=74*MM, height=105*MM)

rinoh.paper.A8 = Paper('A8', width=52*MM, height=74*MM)

rinoh.paper.A9 = Paper('A9', width=37*MM, height=52*MM)

rinoh.paper.A10 = Paper('A10', width=26*MM, height=37*MM)

rinoh.paper.LETTER = Paper('letter', width=8.5*INCH, height=11*INCH)

rinoh.paper.LEGAL = Paper('legal', width=8.5*INCH, height=14*INCH)

rinoh.paper.JUNIOR_LEGAL = Paper('junior legal', width=8*INCH, height=5*INCH)

rinoh.paper.LEDGER = Paper('ledger', width=17*INCH, height=11*INCH)

rinoh.paper.TABLOID = Paper('tabloid', width=11*INCH, height=17*INCH)

8.13 Paragraph (rinoh.paragraph)

class rinoh.paragraph.ParagraphBase (custom_label=None, align=None, width=None, id=None, style=None, parent=None, source=None)

Base class for paragraphs

A paragraph holds styled text and other line elements to be flowed into a container.

style_class alias of rinoh.paragraph.ParagraphStyle

prepare (flowable_target)

Determine number labels and register references with the document

render (container, descender, state, space_below=0, first_line_only=False)

Typeset the paragraph

The paragraph is typeset in the given container starting below the current cursor position of the container. When

the end of the container is reached, the rendering state is preserved to continue setting the rest of the paragraph when this method is called with a new container.

Parameters

- container (Container) – the container to render to
- descender (float or None) – descender height of the preceding line
- state (ParagraphState) – the state where rendering will continue
- first_line_only (bool) – typeset only the first line

class rinoh.paragraph.Paragraph (content, custom_label=None, align=None, width=None, id=None, style=None, parent=None, source=None)

class rinoh.paragraph.ParagraphState (paragraph, words, nested_flowable_state=None, _first_word=None, _initial=True)

8.13.1 Styled Text (rinoh.text)

class rinoh.text.StyledText (id=None, style=None, parent=None, source=None)

Base class for text that has a TextStyle associated with it.

to_string (flowable_target)

Return the text content of this styled text.

is_script (container)

Returns True if this styled text is super/subscript.

script_level (container)

Nesting level of super/subscript.

height (container)

Font size after super/subscript size adjustment.

y_offset (container)

Vertical baseline offset (up is positive).

property items The list of items in this StyledText.

style_class alias of rinoh.text.TextStyle

class rinoh.text.SingleStyledText (text, style=None, parent=None, source=None)

Text with a single style applied

class rinoh.text.MixedStyledText (text_or_items, id=None, style=None, parent=None, source=None)

Concatenation of styled text

Parameters

- text_or_items (str, StyledText or iterable of these) – mixed styled text
- style – see Styled
- parent – see DocumentElement

prepare (flowable_target)

Determine number labels and register references with the document

append (item) Append item (StyledText or str) to the end of this mixed-styled text.

The parent of item is set to this mixed-styled text.

property items The list of items in this StyledText.

copy (parent=None)

Return a shallow copy of the list.

class rinoh.text.Locale

Selects a language

8.13.2 Inline Elements (rinoh.inline)

class rinoh.inline.InlineFlowable (baseline=None, id=None, style=None, parent=None, source=None)

style_class alias of rinoh.inline.InlineFlowableStyle

8.13.3 Styling Properties

class rinoh.paragraph.TextAlign

Text justification

Accepts: left, right, center, justify

Line Spacing

class rinoh.paragraph.LineSpacing

Base class for line spacing types

Line spacing is defined as the distance between the baselines of two consecutive lines of text in a paragraph.

advance (line, last_descender, container)

Return the distance between the descender of the previous line and the baseline of the current line.

class rinoh.paragraph.DefaultSpacing

The default line spacing as specified by the font.

advance (line, last_descender, container)

Return the distance between the descender of the previous line and the baseline of the current line.

class rinoh.paragraph.ProportionalSpacing (factor)

Line spacing proportional to the line height

Parameters factor (float) – amount by which the line height is multiplied to obtain the line spacing

advance (line, last_descender, container)

Return the distance between the descender of the previous line and the baseline of the current line.

class rinoh.paragraph.FixedSpacing (pitch, minimum=ProportionalSpacing(1.0))

Fixed line spacing, with optional minimum spacing

Parameters
- pitch (Dimension) – the distance between the baseline of two consecutive lines of text
- minimum (LineSpacing) – the minimum line spacing to prevents lines with large fonts (or inline elements) from overlapping; set to None if no minimum is required, set to None

advance (line, last_descender, container)

Return the distance between the descender of the previous line and the baseline of the current line.

class rinoh.paragraph.Leading (leading)

Line spacing determined by the space in between two lines

Parameters leading (Dimension) – the space between the bottom of a line and the top of the next line of text

advance (line, last_descender, container)

Return the distance between the descender of the previous line and the baseline of the current line.

The following standard line spacings have been predefined:

rinoh.paragraph.DEFAULT = DefaultSpacing()

The default line spacing as specified by the font.

rinoh.paragraph.STANDARD = ProportionalSpacing(1.2)

Line spacing of 1.2 times the line height.

rinoh.paragraph.SINGLE = ProportionalSpacing(1.0)

Line spacing equal to the line height (no leading).

rinoh.paragraph.DOUBLE = ProportionalSpacing(2.0)

Line spacing of double the line height.

Tabulation

class rinoh.paragraph.TabAlign

Alignment of text with respect to a tab stop

Accepts: left, right, center

class rinoh.paragraph.TabStop (position, align='left', fill=None)

Horizontal position for aligning text of successive lines

Parameters
- position (Dimension or Fraction) – tab stop position
- align (TabAlign) – the alignment of text with respect to the tab stop positon
- fill (str) – string pattern to fill the empty tab space with

get_position (line_width)

Return the absolute position of this tab stop.

class rinoh.paragraph.TabStopList (iterable=(), /)

List of tab stop positions (with alignment and fill string)

8.13.4 Rendering Internals

class rinoh.paragraph.Glyph (glyph, width, char)

class rinoh.paragraph.GlyphsSpan (span, chars_to_glyphs, glyphs_and_widths=[])

8.13.5 Miscellaneous Internals

class rinoh.paragraph.HyphenatorStore

8.14 Cross-References and Fields (rinoh.reference)

class rinoh.reference.Reference (target_id, type='number', link=True, style=None, quiet=False, **kwargs)

class rinoh.reference.ReferenceField (type='number', link=True, quiet=False, style=None, parent=None, source=None)

class rinoh.reference.ReferenceText (id=None, style=None, parent=None, source=None)

class rinoh.reference.ReferenceType

Accepts: reference, number, title, page

class rinoh.reference.ReferencingParagraph (target_id_or_flowable, id=None, style=None, parent=None)

style_class alias of rinoh.reference.ReferencingParagraphStyle

target_style (document)

Filter selection on the style attribute of the target flowable

target_has_class (document)

Filter selection on a class of the target flowable

target_has_classes (document)

Filter selection on a set of classes of the target flowable

class rinoh.reference.Note (flowable, id=None, style=None, parent=None)

class rinoh.reference.RegisterNote (note, parent=None)

prepare (flowable_target)

Determine number labels and register references with the document

class rinoh.reference.NoteMarkerBase (custom_label=None, **kwargs)

style_class alias of rinoh.reference.NoteMarkerStyle

prepare (flowable_target)

Determine number labels and register references with the document

class rinoh.reference.NoteMarkerByID (target_id, type='number', link=True, style=None, quiet=False, **kwargs)

class rinoh.reference.NoteMarkerWithNote (referenceable, type='number', link=False, style=None, **kwargs)

prepare (flowable_target)

Determine number labels and register references with the document

class rinoh.reference.Field (type, id=None, style=None, parent=None, source=None)

8.15 Structure (rinoh.structure)

8.15.1 Sections

class rinoh.structure.Section (flowables, align=None, width=None, id=None, style=None, parent=None, source=None)

A subdivision of a document

A section usually has a heading associated with it, which is optionally numbered.

class rinoh.structure.Heading (content, custom_label=None, align=None, width=None, id=None, style=None, parent=None, source=None)

The title for a section

Parameters title (StyledText) – this heading's text

style_class alias of rinoh.structure.HeadingStyle

prepare (container)

Determine number labels and register references with the document

flow (container, last_descender, state=None, **kwargs)

Flow this flowable into container and return the vertical space consumed.

The flowable's contents are preceded by a vertical space with a height as specified in its style's space_above attribute. Similarly, the flowed content is followed by a vertical space with a height given by the space_below style attribute.

class rinoh.structure.SectionTitles (**strings)

Collection of localized titles for common sections

contents Title for the table of contents section

Type String

list_of_figures Title for the list of figures section

Type String

list_of_tables Title for the list of tables section

Type String

chapter Label for top-level sections

Type String

index Title for the index section

Type String

8.15.2 Lists

class rinoh.structure.List (list_items, start_index=1, id=None, style=None, parent=None)

style_class alias of rinoh.structure.ListStyle

class rinoh.structure.DefinitionList (flowables, align=None, width=None, id=None, style=None, parent=None, source=None)

8.15.3 Table of Contents

class rinoh.structure.TableOfContentsSection

class rinoh.structure.TableOfContents (local=False, id=None, style=None, parent=None)

style_class alias of rinoh.structure.TableOfContentsStyle

flowables (container)

Generator yielding the Flowables to group

class rinoh.structure.TableOfContentsEntry (flowable, id=None, style=None, parent=None)

style_class alias of rinoh.structure.TableOfContentsEntryStyle

8.15.4 Adminitions

class rinoh.structure.Admonition (flowables, title=None, type=None, id=None, style=None, parent=None)

style_class alias of rinoh.structure.AdmonitionStyle

flowables (container)

Generator yielding the Flowables to group

class rinoh.structure.AdmonitionTitles (**strings)

Collection of localized titles for common admonitions

attention Title for attention admonitions

Type String

caution Title for caution admonitions

Type String

danger Title for danger admonitions

Type String

error Title for error admonitions

Type String

hint Title for hint admonitions

Type String

important Title for important admonitions

Type String

note Title for note admonitions

Type String

tip Title for tip admonitions

Type String

warning Title for warning admonitions

Type String

seealso Title for see-also admonitions

Type String

8.15.5 Horizontal Rule

class rinoh.structure.HorizontalRule (align=None, width=None, id=None, style=None, parent=None, source=None)

style_class alias of rinoh.structure.HorizontalRuleStyle

render (container, descender, state, **kwargs)

Renders the flowable's content to container, with the flowable's top edge lining up with the container's cursor. descender is the descender height of the preceding line or None.

8.16 Strings (rinoh.strings)

class rinoh.strings.String (description)

Descriptor used to describe a configurable string

Parameters description (str) – a short description for this string

class rinoh.strings.StringCollection (**strings)

A collection of related configurable strings

Subclasses

- AdmonitionTitles
- SectionTitles
- UserStrings

class rinoh.strings.UserStrings (**strings)

Collection of user-specified strings

Unlike other string collections, these are not limited to a predefined set.

Attributes:

class rinoh.strings.Strings (*string_collections)

Stores several StringCollections

class rinoh.strings.StringField (strings_class, key, style=None, parent=None, source=None)

Styled text that will be substituted with a configured string

The displayed string is either the localized string as determined by the language set for the document or the user-supplied string passed to the TemplateConfiguration.

8.17 Style (rinoh.style)

class rinoh.style.Styled (id=None, style=None, parent=None, source=None)

A document element who's style can be configured.

Parameters style (str, Style) – the style to associate with this element. If style is a string, the corresponding style is lookup up in the document's style sheet by means of selectors.

style_class The Style subclass that corresponds to this Styled subclass.

property has_class

Filter selection on a class of this Styled

property has_classes

Filter selection on a set of classes of this Styled

class rinoh.style.Style (base=None, **attributes)

Dictionary storing style attributes.

The style attributes associated with this Style are specified as class attributes of type Attribute.

Style attributes can also be accessed as object attributes.

hide Suppress rendering this element

Accepts Bool: true or false

Default: false

8.17.1 Style Sheet

class rinoh.style.StyleSheet (name, matcher=None, base=None, source=None, description=None, pygments_style=None, **user_options)

Dictionary storing a collection of related styles by name.

Styles stored in a StyleSheet can refer to their base style by name.

Parameters

- name (str) – a label for this style sheet
- matcher (StyledMatcher) – the matcher providing the selectors the styles contained in this style sheet map to. If no matcher is given and base is specified, the base's matcher is used. If base is not set, the default matcher is used.
- base (StyleSheet or str) – the style sheet to extend
- description (str) – a short string describing this style sheet
- pygments_style (str) – the Pygments style to use for styling code blocks

get_selector (name)

Find a selector mapped to a style in this or a base style sheet.

Parameters name (str) – a style name

Returns Selector – the selector mapped to the style name

Raises KeyError – if the style name was not found in this or a base style sheet

class rinoh.style.StyleSheetFile (filename, base=None, source=None, **kwargs)

Loads styles defined in a .rts file (INI format).

Parameters filename (str) – the path to the style sheet file

StyleSheetFile takes the same optional arguments as StyleSheet. These can also be specified in the [STYLESHEET] section of the style sheet file. If an argument is specified in both places, the one passed as an argument overrides the one specified in the style sheet file.

class rinoh.style.StyledMatcher (mapping_or_iterable=None, **kwargs)

Dictionary mapping labels to selectors.

This matcher can be initialized in the same way as a dict by passing a mapping, an interable and/or keyword arguments.

update (**F [, E]) → None. Update D from dict/iterable E and F.

If E is present and has a .keys() method, then does: for k in E: D[k] = E[k] If E is present and lacks a .keys() method, then does: for k, v in E: D[k] = v In either case, this is followed by: for k in F: D[k] = F[k]

8.18 Tables (rinoh.table)

class rinoh.table.Table (body, head=None, align=None, width=None, column_widths=None, id=None, style=None, parent=None)

style_class alias of rinoh.table.TableStyle

prepare (flowable_target)

Determine number labels and register references with the document

render (container, last_descender, state, space_below=0, **kwargs)

Renders the flowable's content to container, with the flowable's top edge lining up with the container's cursor. descender is the descender height of the preceding line or None.

class rinoh.table.TableWithCaption (flowables, align=None, width=None, id=None, style=None, parent=None, source=None)

style_class alias of rinoh.table.TableWithCaptionStyle

class rinoh.table.TableSection (rows, style=None, parent=None)

prepare (flowable_target)

Determine number labels and register references with the document

class rinoh.table.TableHead (rows, style=None, parent=None)

class rinoh.table.TableBody (rows, style=None, parent=None)

class rinoh.table.TableRow (cells, style=None, parent=None)

prepare (flowable_target)

Determine number labels and register references with the document

get_rowspanned_columns ( )

Return a dictionary mapping column indices to the number of columns spanned.

class rinoh.table.TableCell (flowables, rowspan=1, colspan=1, id=None, style=None, parent=None)

style_class alias of rinoh.table.TableCellStyle

class rinoh.table.TableCellBorder (rendered_cell, cell_height, position, style=None)

style_class alias of rinoh.table.TableCellBorderStyle

class rinoh.table.TableCellBackground (bottom_left, width, height, style=None, parent=None)

style_class alias of rinoh.table.TableCellBackgroundStyle

class rinoh.table.VerticalAlign

Accepts: top, middle, bottom

class rinoh.table.ListOfTables (local=False, id=None, style=None, parent=None)

class rinoh.table.ListOfTablesSection

list_class alias of rinoh.table.ListOfTables

8.19 Templates (rinoh.template)

Document templates are created by subclassing DocumentTemplate, just like the standard templates shipped with rinohtype.

class rinoh.template.DocumentTemplate (document_tree, configuration=None, backend=None)

Template for documents

Parameters

- document_tree (DocumentTree) – a tree of the document's contents
- configuration (TemplateConfiguration) – configuration for this template
- backend – the backend used for rendering the document

language The main language of the document

Accepts Language: the code of one of the supported languages

Default: EN (English)

strings Strings to override standard element names

Accepts Strings: strings need to be entered in INI sections named after the StringCollection subclasses

Default: none

stylesheet The stylesheet to use for styling document elements

Accepts StyleSheet: the name of an installed style sheet or the filename of a stylesheet file (with the .rts extension)

Default: sphinx (= rinoh.stylesheets.sphinx)

parts The parts making up this document

Accepts PartsList: a space-separated list of document part template names

Default: (empty list)

Configuration alias of rinoh.template.DocumentTemplateConfiguration

ConfigurationFile alias of rinoh.template.DocumentTemplateConfigurationFile

Document templates can be customized by setting values for the configuration attributes defined in a DocumentTemplate subclass in a TemplateConfiguration. An template configura-

tion can be passed as configuration on template instantiation. However, it is better to make use of the document method, however.

class rinoh.template.TemplateConfiguration (name, base=None, source=None, template=None, description=None, **options)

Stores a configuration for a DocumentTemplate

Parameters
- name (str) – a label for this template configuration
- base (TemplateConfiguration) – the template configuration to extend
- template (DocumentTemplateMeta or str) – the document template to configure
- description (str) – a short string describing this style sheet
- **options – configuration values for the configuration attributes defined by the document template

template = None The DocumentTemplate subclass to configure

document (document_tree, backend=None)

Create a DocumentTemplate object based on the given document tree and this template configuration

Parameters
- document_tree (DocumentTree) – tree of the document's contents
- backend – the backend to use when rendering the document

class rinoh.template.PartsList (*parts)

Stores the names of the document part templates making up a document

Parameters *parts (list[str]) – the names of the document parts

8.19.1 Document Parts

class rinoh.template.DocumentPart (template, document, flowables)

Part of a document.

Parameters
- template (DocumentPartTemplate) – the template that determines the contents and style of this document part
- document (Document) – the document this part belongs to
- flowables (list[Flowable]) – the flowables to render in this document part

configuration_class

alias of rinoh.template.DocumentPartTemplate

add_page (page)

Append page (Page) to this DocumentPart.

new_page (page_number, new_chapter, **kwargs)

Called by render() with the Chain`s that need more

:class:`Container`s. This method should create a new :class:`Page which contains a container associated with chain.

The document part templates which are listed by name in DocumentTemplate.parts are looked up as attributes of the DocumentTemplate subclass. They are instances of DocumentPartTemplate subclasses:

class rinoh.template.DocumentPartTemplate (base=None, **attributes)

A template that produces a document part

The document part is created given a set of flowables, and page templates. The latter are looked up in the TemplateConfiguration where this part template was.

page_number_format

The format for page numbers in this document part. If it is different from the preceding part's number format, numbering restarts at 1

Accepts NumberFormat: none, number, symbol, lowercase character, uppercase character, lowercase roman, uppercase roman

Default: number

end_at_page The type of page to end this document part on

Accepts PageType: left, right, any

Default: any

drop_if_empty Exclude this part from the document if it is empty (no flowables)

Accepts Bool: true or false

Default: true

The following document part templates are used in the standard document templates:

class rinoh.template.TitlePartTemplate (base=None, **attributes)

The title page of a document.

drop_if_empty Overrides the default set in DocumentPartTemplate

Accepts Bool: true or false

Default: false

page_number_format

The format for page numbers in this document part. If it is different from the preceding part's number format, numbering restarts at 1 (inherited from DocumentPartTemplate)

Accepts NumberFormat: none, number, symbol, lowercase character, uppercase character, lowercase roman, uppercase roman

Default: number

end_at_page The type of page to end this document part on (inherited from DocumentPartTemplate)

Accepts PageType: left, right, any

Default: any

class rinoh.template.ContentsPartTemplate (base=None, **attributes)

The body of a document.

Renders all of the content present in the DocumentTree passed to the DocumentTemplate.

page_number_format

The format for page numbers in this document part. If it is different from the preceding part's number format, numbering restarts at 1 (inherited from DocumentPartTemplate)

Accepts NumberFormat: none, number, symbol, lowercase character, uppercase character, lowercase roman, uppercase roman

Default: number

end_at_page The type of page to end this document part on (inherited from DocumentPartTemplate)

Accepts PageType: left, right, any

Default: any

drop_if_empty Exclude this part from the document if it is empty (no flowables) (inherited from DocumentPartTemplate)

Accepts Bool: true or false

Default: true

class rinoh.template.FixedDocumentPartTemplate (base=None, **attributes)

A document part template that renders a fixed list of flowables

flowables The list of flowables to include in this document part

Accepts FlowablesList: Python source code that represents a list of Flowables

Default: []

page_number_format

The format for page numbers in this document part. If it is different from the preceding part's number format, numbering restarts at 1 (inherited from DocumentPartTemplate)

Accepts NumberFormat: none, number, symbol, lowercase character, uppercase character, lowercase roman, uppercase roman

Default: number

end_at_page The type of page to end this document part on (inherited from DocumentPartTemplate)

Accepts PageType: left, right, any

Default: any

drop_if_empty Exclude this part from the document if it is empty (no flowables) (inherited from DocumentPartTemplate)

Accepts Bool: true or false

Default: true

8.19.2 Page Templates

The document templates make use of page templates:

class rinoh.template.PageTemplate (base=None, **attributes)

header_footer_distance

Distance of the header and footer to the content area

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 14pt

columns The number of columns for the body text

Accepts Integer: a natural number (positive integer)

Default: 1

column_spacing The spacing between columns

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 1cm

header_text The text to place in the page header

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: '{SECTION_NUMBER(1)}' ' ' '{SECTION_TITLE(1)}'

footer_text The text to place in the page footer

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: '\t' '{PAGE_NUMBER}' '/' '{NUMBER_OF_PAGES}'

chapter_header_text

The text to place in the header on a page that starts a new chapter

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

chapter_footer_text

The text to place in the footer on a page that starts a new chapter

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

chapter_title_flowables

Generator that yields the flowables to represent the chapter title

Accepts FlowablesList: Python source code that represents a list of Flowables

Default: none

chapter_title_height

The height of the container holding the chapter title

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 150pt

page_size The format of the pages in the document (inherited from PageTemplateBase)

Accepts Paper: the name of a predefined paper format or <width> * <height> where width and height are Dimensions

Default: A4

page_orientation The orientation of pages in the document (inherited from PageTemplateBase)

Accepts PageOrientation: portrait, landscape

Default: portrait

left_margin The margin size on the left of the page (inherited from PageTemplateBase)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 3cm

right_margin The margin size on the right of the page (inherited from PageTemplateBase)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 3cm

top_margin The margin size at the top of the page (inherited from PageTemplateBase)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 3cm

bottom_margin The margin size at the bottom of the page (inherited from PageTemplateBase)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 3cm

background An image to place in the background of the page (inherited from PageTemplateBase)

Accepts BackgroundImage: filename of an image file enclosed in quotes, optionally followed by space-delimited keyword arguments (<keyword>=<value>) that determine how the image is displayed

Default: none

after_break_background

An image to place in the background after a page break (inherited from PageTemplateBase)

Accepts BackgroundImage: filename of an image file enclosed in quotes, optionally followed by space-delimited keyword arguments (<keyword>=<value>) that determine how the image is displayed

Default: none

class rinoh.template.TitlePageTemplate (base=None, **attributes)

show_date Show or hide the document's date

Accepts Bool: true or false

Default: true

show_author Show or hide the document's author

Accepts Bool: true or false

Default: true

extra Extra text to include on the title page below the title

Accepts StyledText: a list of styled text strings, separated by spaces. A styled text string is a quoted string (' or "), optionally followed by a style name enclosed in braces: 'text string' (style name)

Default: (no value)

page_size The format of the pages in the document (inherited from PageTemplateBase)

Accepts Paper: the name of a predefined paper format or <width> * <height> where width and height are Dimensions

Default: A4

page_orientation The orientation of pages in the document (inherited from PageTemplateBase)

Accepts PageOrientation: portrait, landscape

Default: portrait

left_margin The margin size on the left of the page (inherited from PageTemplateBase)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 3cm

right_margin The margin size on the right of the page (inherited from PageTemplateBase)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 3cm

top_margin The margin size at the top of the page (inherited from PageTemplateBase)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 3cm

bottom_margin The margin size at the bottom of the page (inherited from PageTemplateBase)

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 3cm

background An image to place in the background of the page (inherited from PageTemplateBase)

Accepts BackgroundImage: filename of an image file enclosed in quotes, optionally followed by space-delimited keyword arguments (<keyword>=<value>) that determine how the image is displayed

Default: none

after_break_background

An image to place in the background after a page break (inherited from PageTemplateBase)

Accepts BackgroundImage: filename of an image file enclosed in quotes, optionally followed by space-delimited keyword arguments (<keyword>=<value>) that determine how the image is displayed

Default: none

The base class for these collects the common options:

class rinoh.template.PageTemplateBase (base=None, **attributes)

page_size The format of the pages in the document

Accepts Paper: the name of a predefined paper format or <width> * <height> where width and height are Dimensions

Default: A4

page_orientation The orientation of pages in the document

Accepts PageOrientation: portrait, landscape

Default: portrait

left_margin The margin size on the left of the page

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 3cm

right_margin The margin size on the right of the page

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 3cm

top_margin The margin size at the top of the page

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 3cm

bottom_margin The margin size at the bottom of the page

Accepts Dimension: a numeric value followed by a unit (pt, in, pc, mm, cm, %, /2, /4)

Default: 3cm

background An image to place in the background of the page

Accepts BackgroundImage: filename of an image file enclosed in quotes, optionally followed by space-delimited keyword arguments (<keyword>=<value>) that determine how the image is displayed

Default: none

after_break_background

An image to place in the background after a page break

Accepts BackgroundImage: filename of an image file enclosed in quotes, optionally followed by space-delimited keyword arguments (<keyword>=<value>) that determine how the image is displayed

Default: none

Frequenty Asked Questions 9

Below is the start of a list of commonly encountered problems and solutions to them. You can also find answers to usage questions on rinohtype on StackOverflow.

PDFs produced by rinohtype contain mostly empty pages. What's up? Old versions of some PDF viewers do not support the way rinohtype embeds fonts in a PDF (see issue 2). PDF viewers that are known to be affected are:

- pre-37.0 Firefox's built-in PDF viewer (pdf.js)
- pre-0.41 poppler-based applications such as Evince

Contributing 10

Thank you for considering contributing to rinohtype! This document contains some general information with respect to contributions. Please refer to DEVELOPING.rst for specific information on running tests etc.

10.1 Contributor License Agreement

Please send your contributions by creating a pull request on GitHub. You will be asked to agree to the contributor license agreement. Why, you might ask? In the past, I had plans to sell a commercial version of rinohtype. This version would basically be the same as the open source version, but with the addition of a closed-source backend for the DITA format. While I'm no longer actively pursuing these plans at this point, I would like to keep this option open. In combination with the Affero GPL, the CLA allows me to include contributions by others in this commercial version while preventing others from releasing commercial closed-source versions of rinohtype. Additionally, the CLA protects the project from legal risks. Since I'm no legal expert, I adapted the contributor license agreement from Project Harmony. You can find a quick summary and a detailed walkthrough of the license in the guide.

10.2 Coding guidelines

Please follow the coding style used in the existing codebase, which generally follows the PEP 8 style guide. Here are the most important rules the codebase conforms to:

- lines are wrapped at 80 columns
- 4 spaces indentation (no tabs)
- descriptive variable/function/class names (not shortened)
- imports are grouped into sections: standard library, external packages and rinohtype modules
- minimize use of external dependencies

Developing 11

This project makes use of tox to manage running tests and other tasks. The tests can be divided into three categories: checks, unit tests and regression (integration) tests. tox.ini defines "environments" that configure these tasks. Each of these are described in the next section. The unit and regression tests make use of pytest.

The repository includes a Poetry pyproject.toml file to help you set up a virtual environment with tox and other development dependencies. From the repository checkout root directory execute:

```
poetry install
```

Poetry will create a virtual environment in .venv, which you can activate like this3:

```
source .venv/bin/activate
```

Now tox is available for running the tests. Starting tox without any arguments will run the check, unit and regression environments. Refer to the next section for an overview of all environments.

11.1 Tox Environments

The following environments execute unit tests and regression tests:

unit Runs the unit tests.

regression Runs integration/regression tests. Each of these tests render a tiny document (often a single page) focusing on a specific feature, which means they also execute quickly. Their PDF output is compared to a reference PDF that is known to be good.

longrunning (not maintained, broken) Runs regressions tests that render larger documents. These tests take several minutes to complete.

The other environments run checks, build documentation and build "binary" distributions for Mac and Windows:

check Performs basic checks; just poetry check at this point.

check-docs Perform checks on the documentation source files using doc8 and sphinx-doctest. restview can be useful when fixing syntax errors in README.rst, CHANGES.rst, …

build-docs Build the rinohtype documentation using Sphinx, both in HTML and PDF formats.

macapp (not maintained, broken?) Build a stand-alone macOS application bundle using briefcase. This task can only be run on macOS.

3 If you install direnv, the virtual environment can be automatically activated when you enter the rinohtype repository checkout (see the .envrc file).

wininst (not maintained, broken?) Build a stand-alone rinohtype installer for the Windows platform with the help of pynsist. This task also can be run on other platforms than Windows.

Customization settings for doc8 and pytest are stored in setup.cfg.

11.2 Testing against multiple Python interpreter versions

Tox facilitates running tests on multiple Python interpreter versions. You can combine the test environment names with a factor to execute them on a specific Python interpreter version. For example, to run the unit tests on CPython 3.8:

```
tox -e unit-py38
```

While it is typically sufficient to test on a single Python version during development, it can be useful to run tests on a set of Python versions before pushing your commits. Of course, this requires these versions to be available on your machine. It is highly recommended you use pyenv (or pyenv-win) to install and manage these. For example, to install CPython 3.8.1, you can run:

```
pyenv install 3.8.1
```

and pyenv will download, build and install this version of CPython for you. pyenv will install the different Python versions in an isolated location (typically under ~/.penv), so they will not interfere with your system-default Python versions.

The file .python-version in the root of the repository specifies which Python versions pyenv should make available whenever we are inside the repository checkout directory. The file lists specific the versions of CPython rinohtype aims to support plus recent PyPy3 versions (ideally, we should closely track the latest releases). The pyenv_install.py script can install these for you (skipping any that are already installed).

11.3 Continuous integration

GitHub Actions automatically executes the tox environments when new commits are pushed to the repository. The tox environments are run on Linux, macOS and Windows, and run the tests on an array of Python versions to make sure that we don't break any corner cases. See .github/-workflows for details.

11.4 Making a release

This is a list of steps to follow when making a new release of rinohtype. Publishing the new release to PyPI and uploading the documentation to GitHub Pages is handled by the GitHub Actions workflow.

1 Make sure your checkout is clean.

2 Run run tests and checks locally:

```
tox -e check,check-docs,build-docs,unit,regression
```

3 Push your commits to master on GitHub. Don't create a tag yet!

4 Check whether all tests on GitHub Actions are green.

5 Set the release date.

- set __release_date__ in src/rinoh/__init__.py (YYYY-MM-DD)
- add release date to this release's section (see other sections for examples)

6 Create a git tag: git tag v$(poetry version --short)

7 Push the new tag: git push origin v$(poetry version --short)

8 The GitHub workflow will run all tox environments and upload the new version to PyPI if all checks were successful.

9 Create a new release on GitHub. Include the relevant section of the changelog. Use previous releases as a template.

- Tag version: the release's tag vx.y.z
- Release title: Release x.y.z (date)
- Add a link to the release on PyPI:

```
Install from [PyPI](https://pypi.org/project/rinohtype/x.y.z/)
```

- Copy the release notes from the change log

10 Bump version number and reset the release date to "upcoming".

- poetry version patch # or 'minor'
- add new section at the top of the changelog
- set __release_date__ in src/rinoh/__init__.py to 'upcoming'

Release History 12

12.1 Release 0.5.1 (2021-02-19)

New Features:

- Paragraphs can now be numbered. rinohtype also allows for referencing them by number, but docutils/Sphinx doesn't readily offer the means express that. A workaround for this will be included in a future release.

Fixed:

- Fix issues with metadata (title, author) stored in the PDF Info dictionary
- Fix handling of no-break spaces (they were rendered using the fallback font)
- When a caption occurs in an unnumbered chapter, an exception aborts rendering (even when number_separator style attribute is set to None)
- Handling of base template specified as string in a template configuration
- Table column widths entries now also accept fractions

Part of the work included in this release was kindly sponsored by Joby Aviation.

12.2 Release 0.5.0 (2021-02-03)

New Features:

- Google Fonts: if a specified typeface is not installed, rinohtype attempts to download the corresponding fonts from Google Fonts. Simply supply the font name as listed on https://-fonts.google.com as a value for the typeface style property.
- Table: in addition to fixed and relative-width columns, you can indicate columns to be automatically sized by specifying a value of 'auto' in the 'column_widths' style parameter in your style sheet.
- docutils frontend: support the :align: option to table directives, which will override the alignment set for the table in the style sheet.
- The starting number of enumerated lists in reStructuredText is respected.
- Table column widths can be specified in the style sheet, which take effect when these

haven't been specified in the source document.

- Document elements now store where they have been defined (document tree, style sheet file or template configuration file); when you specify relative paths (e.g. for images), they are interpreted relative to the location of their source. This should make things more intuitive.
- The page_break style attribute is no longer reserved for sections; a page break can be forced before any flowable.
- Enumerated list items with a hidden label ('hide' style attribute) are no longer counted in the numbering.
- Templates and typefaces can be registered by name at runtime. This makes them referencable from template configuration and style sheet files. For example, custom templates/-typefaces can be imported in a Sphinx project's conf.py (to be documented).
- It's now possible to add arbitrary reStructuredText content to the front/back matter or elsewhere by adding a .. container:: with the 'out-of-line' class and a :name: to reference it by in the document template configuration, e.g. in the list of front matter flowables (to be documented).
- Selectors in style sheet files (.rts) now support boolean and 'None' values. For example, you can select StaticGroupedFlowables based on whether they have any children or not: e.g TableCell(empty=true) selects empty table cells.
- The document's title and author are now stored in the PDF metadata.
- "0" is now accepted as a valid value for Dimension-type attributes in style sheets and template configurations.

Changed:

- Rendering speed was more than doubled (caching)! (PR #197 by Alex Fargus)
- Sphinx frontend: rinoh_documents now takes a list of dictionaries, one for each PDF document to be built. This allows selecting e.g. the template and logo on a per-document level. Support for rinoh_template, rinoh_stylesheet, rinoh_paper_size, rinoh_domain_indices and rinoh_logo was removed. Fallback to latex_documents is retained. (PR #182, #192, #195, #208 and #216 by Alex Fargus)
- The default stylesheet ('Sphinx') now prevents captions from being separated from their image/table/code block (across pages).
- Font weights and widths are now internally represented by integer classes. In addition to integer values, string values are still accepted (mapped to classes).
- OpenTypeFont now determines the font weight, slant and width from the file. For backward compatibility, it still accepts these as arguments on instantiation but warns when they don't match the values stored in the font.

Fixed:

- Table column width determination was overhauled. Now fixed-width tables are supported and automatic-width columns should be handled better.
- The 'nested bulleted/enumerated list' selectors were broken; their corresponding styles were never applied
- Items inside a table cannot be referenced (issue #174)

- Sphinx frontend: fix handling of relative image paths in .rst files inside a directory in the Sphinx project root
- rinoh: fix –install-resources (broken since PyPI disabled XMLRPC searches)
- GroupedLabeledFlowables: respect label_min_width and fix a crash with respect to space_below handling
- Duplicate rendering of content in columns; if content was too small to fill the first column, it was rendered again in subsequent columns.
- Crash on encountering a style for which no selector is defined.

Part of the work included in this release was kindly sponsored by Joby Aviation.

12.3 Release 0.4.2 (2020-07-28)

New Features:

- before/after style attributes for StyledText (issue #158)
- docutils/Sphinx frontend: don't abort on encountering math/math_block, output the (LaTeX) math markup instead, along with printing a warning.
- docutils frontend: raw inline text (with :format: 'rinoh') is parsed as styled text

Fixed:

- crash when the 'contents' topic has multiple IDs (issue #173)
- loading of the references cache (issue #170)
- some issues with space_below handling

12.4 Release 0.4.1 (2020-07-01)

New Features:

- UserStrings: arbitrary user-defined strings that can be defined in the template configuration or as a substitution definition in reStructuredText
- strings in a StringCollection can now be styled text
- Sphinx frontend: use the today and today_fmt configuration variables for the date on the title page
- Sphinx frontend: allow extensions access to the builder object (issue #155)
- rinoh: --output writes the output PDF to a specified location

Fixed:

- Regression in handling images that don't fit on the current page (issue #153)
- Fix crash when rendering local table of contents (issue #160)

- Sphinx frontend: support code-block/literalinclude with caption (issue #128)
- rinoh: variables set in a template configuration file are sometimes ignored (issue #164)
- Crash when using a font that contains unsupported lookups (issue #141)

12.5 Release 0.4.0 (2020-03-05)

New Features:

- automatically generated lists of figures and tables
- paragraphs now provide default tab stops (proportional to font size) for indentation
- stylesheet (.rts) and template configuration (.rtt) files now support specifying inline and background images (#107 and #108); to be documented
- it is now possible to specify selector priority (+-) in style sheets
- Sphinx frontend: the rinoh builder can be discovered by entry point (no more need to add 'rinoh.frontend.sphinx' to the list of extensions)
- rinoh: set a return code of 1 when one or more referenced images could not be found (issue #104)
- rinoh: introduce the --install-resources option to control the automatic installation of resources from PyPI
- German locale (contributed by Michael Kaiser)
- Polish locale (contributed by Mariusz Jamro)

Changed:

- Python 3.3 & 3.4 are no longer supported since they have reached end-of-life
- remove the dependency on purepng by embedding its png.py
- limit the width of images to the available width by default
- XML frontend: special case mixed content nodes
- fixes in the design of stylesheet/template code

Fixed:

- various regressions (PR #142 by Norman Lorrain)
- fix issues with variables defined in a base style sheet/template config
- various footnote rendering issues
- border width is also taken into account for flowables that are continued on a new page (#127)
- Sphinx: handle case when source_suffix is a list (PR #110 by Nick Barrett)
- incompatibility with Sphinx 1.6.1+ (latex_paper_size)

- docutils: crash when a footnote is defined in an admonition (issue #95)
- docutils: crash on encountering a raw text role (issue #99)
- docutils: 'decoration' node (header/footer) is not yet supported (issue #112)
- crash when a table cell contains (only) an image
- colours of PNG images with gamma (gAMA chunk) set are incorrect (#102)
- Sphinx: image paths with wildcard extension are not supported (#119)
- GroupedFlowables: space_below should only be considered at the end
- adapt to PEP 479 (Change StopIteration handling inside generators), the default in Python 3.7 (issue #133)
- fix compatibility with Python 3.6.7 and 3.7.1 (tokenizer changes)
- fix crash caused by Python 3.8's changes to int.__str__

12.6 Release 0.3.1 (2016-12-19)

New Features:

- rinoh is now also available as a stand-alone application for both Windows (installer) and macOS (app); they include an embedded CPython installation
- index terms can be StyledText now (in addition to str)
- the 'document author' metadata entry can now be displayed using a Field
- Sphinx frontend: support the 'desc_signature_line' node (new in Sphinx 1.5)
- rinoh –docs: open the online documentation in the default browser

Changed:

- more closely mimic the Sphinx LaTeX builder's title page (issue #60)
- there is no default for PageTemplate.chapter_title_flowables anymore since they are specific to the document template

Fixed:

- handle StyledText metadata (such as document title)
- Sphinx frontend: support the 'autosummary_toc' node
- DummyFlowable now sticks to the flowable following it (keep_with_next), so that (1) it does not break this behavior of Heading preceding it, and (2) IndexTargets do not get separated from the following flowable
- bug in LabeledFlowable that broke keep_with_next behavior
- the descender size of the last flowable in a GroupedFlowables with keep_with_next=True was getting lost

- GroupedFlowables should not mark the page non-empty; this caused empty pages before the first chapter if it is preceded by grouped DummyFlowables

12.7 Release 0.3.0 (2016-11-23)

New Features:

- support localization of standard document strings (en, fr, it, nl) (#53)
- localized strings can be overridden in the document template configuration
- make use of a fallback typeface when a glyph is not available (#55) (the 'fallback' style in the Sphinx stylesheet sets the fallback typeface)
- template configuration (INI) files: specify which document parts to include, configure document part and page templates, customize localized strings, …
- support specifying more complex selectors directly in a style sheet file
- (figure and table) captions support hierarchical numbering (see CaptionStyle)
- make the frontends independent of the current working directory
- reStructuredText: support the table :widths: option (upcoming docutils 0.13)
- Sphinx frontend: provide styles for Sphinx's inline markup roles
- rinoh (command line renderer):
  - support template configuration files
  - support file formats for which a frontend is installed (see –list-formats)
  - accept options to configure the frontend (see –list-options)
  - option to list the installed fonts (on the command line or in a PDF file)
- show the current page number as part of the rendering progress indicator
- Book template: support for setting a cover page
- frontends: raise a more descriptive exception when a document tree node is not mapped
- validate the default value passed to an Attribute
- preliminary support for writing a style sheet to an INI file, listing default values for non-specified attributes (#23)

Changed:

- rinoh: the output PDF is now placed in the current directory, not in the same directory as the input file
- Sphinx builder configuration: replace the rinoh_document_template and rinoh_template_-configuration options with rinoh_template
- if no base is given for a style, style attribute lookup proceeds to look in the style of the same name in the base style sheet (#66)

- DEFAULT_STYLE can be used as a base style to prevent style attribute lookup in the style of the same name in the base style sheet
- rename FieldList to DefinitionList and use it to replace uses (docutils and Sphinx frontends) of the old DefinitionList (#54)
- the new DefinitionList (FieldList) can be styled like the old DefinitionList by setting max_label_width to None, 0 or a 0-valued Dimension
- figures are now non-floating by default (float placement needs more work)
- hide the index chapter when there are no index entries (#51)
- style sheets: use the default matcher if none is specified
- Sphinx style sheet: copy the admonition style from the Sphinx LaTeX builder
- Sphinx style sheet: keep the admonition title together with the body
- Sphinx style sheet: color linked references as in the LaTeX output (#62)
- Sphinx style sheet: disable hyphenation/ligatures for literal strong text
- no more DocumentSection; a document now consists of parts (containing pages)
- template configuration:
  - refer to document part templates by name so that they can be replaced
  - the list of document parts can be changed in the template configuration
  - document parts take the 'end_at_page' option (left, right, or any)
  - find (left/right) page templates via the document part name they belong to
  - fall back to <doc_part>_page when the right or left template is not found
  - each template configuration requires a name
- DocumentTree: make the source_file argument optional
- don't abort when the document section hierarchy is missing levels (#67)
- use the PDF backend by default (no need to specify it)
- store the unit with Dimension instances (better printing)
- rename the float module to image

Fixed:

- improve compatibility with Windows: Windows path names and file encoding
- crash if a StyledText is passed to HeadingStyle.number_separator
- GroupedLabeledFlowables label width could be unnecessarily wide
- fix and improve automatic table column sizing
- Figures can now be referenced using the 'reference' format ("Figure 1.2")

- HorizontallyAlignedFlowable: make more robust
- make document elements referenceable by secondary IDs
- reStructuredText: only the first classifier for a definition term was shown
- Sphinx frontend: support the 'centered' directive
- Sphinx frontend: basic support for the 'hlist' directive
- Sphinx frontend: handle :abbr: without explanation
- Sphinx frontend: support nested inline nodes (guilabel & samp roles)
- PDF backend: fix writing of Type 1 fonts from a parsed PDF file
- PDF reader: handle multi-page PDFs (#71)
- PDF reader: fix parsing of XRef streams
- PDF reader: fix writing of parsed files

12.8 Release 0.2.1 (2016-08-18)

New Features:

- optionally limit the width of large images and make use of this to simulate the Sphinx LaTeX builder behavior (#46)
- reStructuredText/Sphinx: support for images with hyperlinks (#49)
- record the styled page numbers in the PDF as page labels (#41)
- unsupported Python versions: prevent installation where possible (sdist) or exit on import (wheel)
- support Python 3.6

Bugfixes:

- make StyleSheet objects picklable so the Sphinx builder's rinoh_stylesheet option can actually be used
- Fix #47: ClassNotFound exception in Literal_Block.lexer_getter()
- Fix #45: Images that don't fit are still placed on the page
- don't warn about duplicate style matches that resolve to the same style

12.9 Release 0.2.0 (2016-08-10)

Styling:

- generate a style log (show matching styles) to help style sheet development
- keep_with_next style attribute: prevent splitting two flowables across pages

- stylesheets can be loaded from files in INI format
- check the type of attributes passed to styles
- source code highlighting using Pygments
- table of contents entries can be styled more freely
- allow hiding the section numbers of table of contents entries
- allow for custom chapter titles
- selectors can now also select based on document part/section
- various small tweaks to selectors and matchers
- various fixes relating to style sheets

Templates:

- configurable standard document templates: article and book
- a proper infrastructure for creating custom document templates
- support for left/right page templates
- make the Article template more configurable
- pages now have background, content and header/footer layers
- support for generating an index
- make certain strings configurable (for localization, for example)

Frontends:

- Sphinx: interpret the LaTeX configuration variables if the corresponding rinohtype variable is not set
- Sphinx: roughly match the LaTeX output (document template and style sheet)
- added a CommonMark frontend based on recommonmark
- added basic ePUB and DocBook frontends
- XML frontends: fix whitespace handling
- frontends now return generators yielding flowables (more flexible)

Command-line Renderer (rinoh):

- allow specifying a template and style sheet
- automatically install typefaces used in the style sheet from PyPI

Fonts:

- typefaces are discovered/loaded by entry point
- more complete support for OpenType fonts

- fix support for the 14 base Type 1 fonts

Images:

- more versatile image sizing: absolute width/height & scaling
- allow specifying the baseline for inline images
- several fixes in the JPEG reader

Miscellaneous:

- reorganize the Container class hierarchy
- fixes in footnote handling
- drop Python 3.2 support (3.3, 3.4 and 3.5 are supported)

12.10Release 0.1.3 (2015-08-04)

- recover from the slow rendering speed caused by a bugfix in 0.1.2 (thanks to optimized element matching in the style sheets)
- other improvements and bugfixes related to style sheets

12.11Release 0.1.2 (2015-07-31)

- much improved Sphinx support (we can now render the Sphinx documentation)
- more complete support for reStructuredText (docutils) elements
- various fixes related to footnote placement
- page break option when starting a new section
- fixes in handling of document sections and parts
- improvements to section/figure/table references
- native support for PNG and JPEG images (drops PIL/Pillow requirement, but adds PurePNG 0.1.1 requirement)
- new 'sphinx' stylesheet used by the Sphinx builder (~ Sphinx LaTeX style)
- restores Python 3.2 compatibility

12.12Release 0.1.1 (2015-04-12)

First preview release

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