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# **PageBot**

***Release 0.9.3-alpha***

**Jan 14, 2021**



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## What is PageBot?

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PageBot® is a scriptable page layout, vector graphics and typography environment that enables designers to create high quality documents in various print-ready and web-based formats. It is available as a Python library with multi-platform support based on [Flat](#) and as a Mac OS X extension that uses [DrawBot](#).

PageBot consists of three abstraction levels:

- Builders, the libraries and formats PageBot uses to generate the final result, for example DrawBot, Flat and markup languages.
- Contexts that provide a fixed API for the builders.
- Documents, Views and Elements, our format independent classes.

The official PageBot documentation can be found at [pagebot.io](http://pagebot.io).



Pagebot runs on Python 3. We recommend updating to version 3.7 / 3.8.

### 2.1 System Wide

Cross platform installation:

```
pip install pagebot
```

Upgrade to the latest if already installed:

```
pip install pagebot --upgrade
```

### 2.2 Virtual Environment

To setup pagebot and its requirements in a virtual environment:

```
pip install virtualenv
mkdir ~/virtualenvironment
virtualenv ~/virtualenvironment/pagebot
cd ~/virtualenvironment/pagebot/bin
source activate
pip install pagebot
```

### 2.3 Mac OS X

```
pip install pagebotosx
```

See also [github.com/PageBot/PageBotOSX](https://github.com/PageBot/PageBotOSX).





## CHAPTER 3

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### Usage

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```
from pagebot.document import Document
from pagebot.elements import newRect
from pagebot.conditions import Center2Center, Middle2Middle
from pagebot.toolbox.units import pt
from pagebot.toolbox.color import color

W, H = pt(500, 400)
doc = Document(w=W, h=H, autoPages=1)
page = doc[1]

# Create a new rectangle element with position conditions
newRect(parent=page, fill=color('red'), size=pt(240, 140),
        # Show measure lines on the element.
        showDimensions=True,
        conditions=[Center2Center(), Middle2Middle()])
# Make the page apply all conditions.
page.solve()
# Export the document page as png, so it shows as web image.
doc.export('_export/RedSquare.png')
```



## CHAPTER 4

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### Issue Tracking

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Bugs, enhancements and requested features can be added to the GitHub issue tracker:

- [issues](#)
- [projects](#)
- [milestones](#)



## CHAPTER 5

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### External Links

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- Download: [PyPi](#)
- Source: [GitHub](#)
- Documentation: [ReadTheDocs](#)
- Examples repository: [PageBotExamples](#)
- Continuous integration: [Travis](#)
- Code coverage: [Codecov](#)



## CHAPTER 6

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### Related

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- PageBot generated website: [designdesign.space](http://designdesign.space). It also includes entry points for studies and workshops on how to work with PageBot.
- The TYPETR Upgrade website [upgrade.typenetwork.com](http://upgrade.typenetwork.com) is an example where the HTML/CSS code and all illustrations are generated by PageBot scripts.





### 7.1 Current Functionality

Current features include:

- Various types of Element objects can be placed on a page or inside other Element objects.
- Grids can be defined through style measurements and views.
- Page templates (or templates for any other element combination) can be defined and applied.
- Automatic layout conditions for elements, for example even distribution across or floating down parent elements.
- Specialized views on a Document, such as plain pages, spreads and other layout of page groups, optional with crop-marks, registration-mark, color-strips, file name, etc. The result of all views can be placed on pages as illustration.
- Graphics - using all Drawbot drawing tools.
- All image filtering supplied by Drawbot ImageObject.
- Cascading styles, where Element values inherit from parent Elements, similar to CSS behavior.
- Text flows are using the macOS FormattedString for all typographic parameters.
- Random Text generator for headlines and articles.
- Read text from Markdown and XML (.MD .XML)
- Support large amount of text processing functions:
  - centered, left, right and justified
  - Text to fit a box and elastic box to fit text
  - Tabular setting
  - Text Flow from one element to another.
  - Variable Font UI access and instance creation based on fontTools

- Access to font metrics.
- Outline Font access modification.
- Space, groups and kerning access and modification.
- OT layout and feature access and modification.
- 3D Positioning of points, for future usage.
- Motion Graphics, export as animated .gif and .mov files, keyframing timeline,
- Export to PDF, PNG, JPG, SVG, (animated) GIF, MOV, XML, through programmable views.
- Build web sites, pre-compiling all images used into the formats that can be displayed by browsers (.PNG .JPG .SVG)
- Automatic table of contents, image references, quote references, etc. from composed documents.

## 7.2 Types of Publications

- PageBot stationary and publications as scripted templates
- Specimens for TN library
- Recreation of legacy type specimens as PageBot templates
- Magazines
- Newspapers
- Newsletters
- Books
- Parametric corporate identities including their styleguides, stationary and business card templates.
- Parametric advertizements (connecting to existing ad-systems)
- Online documents, such as single page websites
- Wayfindng templates for signs and maps
- T-Shirt templates
- Templates with embedded information for graphic- and typographic education.

## 7.3 Unit Testing

PageBot uses Python's native `doctest` library to perform unit tests:

- <https://docs.python.org/2/library/doctest.html>

Note: `doctest` can be run in Sublime with `cmd-B`

## 7.4 Future Developments

- Element classes supporting various types of graphs, info-graphics, maps, PageBot document layout, Variable Font axes layout, font metrics.

- Font class supporting CFF (.otf) and UFO.
- Views for thumbnail page overview, combined booklet-sheets for print, site-maps, etc.
- Add export of text to Markdown .md files.
- Add export to online documents, such as HTML/CSS/JS for specific designs of web pages, such as Kirby.
- Export to WordPress® PHP sites.
- Export to Ruby®/Sketchup® data files.
- Add export to Angular® files.
- Export to InDesign® and Illustrator®, as close as possible translating PageBot elements to the native file format of these applications.
- Time line, definition and editing, length and fps.
- Integrate the PageBot manual builder with other export functions of the library.
- Add more unit-tests to guarantee the integrity of the library and output consistency.
- Automatic support of ornament frames, in connection to the Element borders and the layout of exiting (TN) border fonts.



## CHAPTER 8

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### Licencing

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- The core library, tutorials and basic examples for PageBot are available under the MIT Open Source license. Some dependencies have been included in this repository and are available under their own licenses. See also the [LICENSE](#).

PageBot® is a registered trademark U.S. Serial Number: 87-457,280 Owner: Buro Petr van Blokland + Claudia Mens VOF Docket/Reference Number: 1538-25}{



- Download the latest [DrawBot](#)
- Some experience with DrawBot is recommended. Otherwise examine [DrawBot Documentation](#)
- Install PageBot (from terminal)

```
pip install pagebot
```

- Run the following code in DrawBot. It should not give an error.

```
import pagebot
```

## 9.1 Hello World

```
from pagebot.document import Document
from pagebot.elements import newText
from pagebot.fonttoolbox.objects.font import findFont

f = findFont('Roboto-Bold')
doc = Document(w=800, h=190)
page = doc[1]
newText('Hello World', x=30, y=0, font=f, fontSize=140,
        textFill=0.2, parent=page)
doc.export('_export/HelloWorld.png')
```

# Hello World

## 9.2 Calendar Publication

PageBot includes a lot of knowledge about design, embedded in default publication types.

```
from pagebot.publications.calendars import BaseCalendar
```

## 9.3 PageBot's relation with DrawBot

The main difference between DrawBot and PageBot, is that in DrawBot all drawing instructions are executed directly on the canvas.

Instead, PageBot keeps all page elements alive, which allows adjustments in composition on an entire document, before exposing it to the canvas. In other words, PageBot is using DrawBot as “typesetting” canvas to expose finished pages and elements.

This gives access to all functions of DrawBot, while adding a lot of knowledge about publication styles, page composition, the content of fonts, related typographic values and color themes.

## 9.4 Contexts

PageBot supports “contexts”, and DrawBot is one of them. But other contexts are available, such as **FlatContext** and **HtmlContext**, to export document formats that DrawBot does not support, or in situations where DrawBot is not available (e.g. on a Linux web server).



## 10.1 pagebot package

### 10.1.1 Subpackages

#### 10.1.1.1 pagebot.base package

##### Submodules

pagebot.base.article module

pagebot.base.composer module

pagebot.base.typesetter module

##### Module contents

#### 10.1.1.2 pagebot.conditions package

##### Submodules

pagebot.conditions.align module

pagebot.conditions.columns module

pagebot.conditions.condition module

pagebot.conditions.floating module

pagebot.conditions.flow module

pagebot.conditions.score module

pagebot.conditions.text module

Module contents

10.1.1.3 pagebot.contexts package

Subpackages

pagebot.contexts.basecontext package

Submodules

pagebot.contexts.basecontext.abstractcontext module

pagebot.contexts.basecontext.babelrun module

pagebot.contexts.basecontext.babelstring module

pagebot.contexts.basecontext.basebeziercontour module

pagebot.contexts.basecontext.basebezierpath module

pagebot.contexts.basecontext.basebezierpoint module

pagebot.contexts.basecontext.basebeziersegment module

pagebot.contexts.basecontext.basebuilder module

pagebot.contexts.basecontext.basecontext module

pagebot.contexts.basecontext.baseimageobject module

pagebot.contexts.basecontext.beziercontour module

pagebot.contexts.basecontext.bezierpath module

Module contents

pagebot.contexts.flatcontext package

Submodules

`pagebot.contexts.flatcontext.flatbezierpath` module

`pagebot.contexts.flatcontext.flatbuilder` module

`pagebot.contexts.flatcontext.flatcontext` module

Module contents

`pagebot.contexts.markup` package

Submodules

`pagebot.contexts.markup.htmlbuilder` module

`pagebot.contexts.markup.htmlcontext` module

`pagebot.contexts.markup.sitebuilder` module

`pagebot.contexts.markup.svgbuilder` module

`pagebot.contexts.markup.svgcontext` module

`pagebot.contexts.markup.xmlbuilder` module

Module contents

`pagebot.contexts.sketchcontext` package

Submodules

`pagebot.contexts.sketchcontext.sketchbuilder` module

`pagebot.contexts.sketchcontext.sketchcontext` module

Module contents

Module contents

10.1.1.4 `pagebot.contributions` package

Subpackages

`pagebot.contributions.adobe` package

Subpackages

pagebot.contributions.adobe.kerndump package

Submodules

pagebot.contributions.adobe.kerndump.dumpKerningFeatureFromOTF module

pagebot.contributions.adobe.kerndump.getKerningPairsFromOTF module

Module contents

Module contents

pagebot.contributions.filibuster package

Subpackages

pagebot.contributions.filibuster.content package

Submodules

pagebot.contributions.filibuster.content.aerospace module

pagebot.contributions.filibuster.content.articles module

pagebot.contributions.filibuster.content.auction module

pagebot.contributions.filibuster.content.automotive module

pagebot.contributions.filibuster.content.book\_reference module

pagebot.contributions.filibuster.content.boymechanic module

pagebot.contributions.filibuster.content.classified module

pagebot.contributions.filibuster.content.commercial module

pagebot.contributions.filibuster.content.corporate module

pagebot.contributions.filibuster.content.creditcard module

pagebot.contributions.filibuster.content.design module

pagebot.contributions.filibuster.content.designarticle module

pagebot.contributions.filibuster.content.entertainment module

pagebot.contributions.filibuster.content.event module

pagebot.contributions.filibuster.content.filenames module

pagebot.contributions.filibuster.content.filibuster module

pagebot.contributions.filibuster.content.financial module

pagebot.contributions.filibuster.content.general module

pagebot.contributions.filibuster.content.geography module

pagebot.contributions.filibuster.content.horoscope module

pagebot.contributions.filibuster.content.internet module

pagebot.contributions.filibuster.content.jargon module

pagebot.contributions.filibuster.content.journalism module

pagebot.contributions.filibuster.content.legalese module

pagebot.contributions.filibuster.content.lettererror module

pagebot.contributions.filibuster.content.literature module

pagebot.contributions.filibuster.content.living module

pagebot.contributions.filibuster.content.medical module

pagebot.contributions.filibuster.content.modernmedia module

pagebot.contributions.filibuster.content.music module

pagebot.contributions.filibuster.content.names module

pagebot.contributions.filibuster.content.navigation module

pagebot.contributions.filibuster.content.news module

pagebot.contributions.filibuster.content.politics module

pagebot.contributions.filibuster.content.portal module

pagebot.contributions.filibuster.content.quotations module

pagebot.contributions.filibuster.content.realestate module

pagebot.contributions.filibuster.content.reviews module

pagebot.contributions.filibuster.content.sciences module

pagebot.contributions.filibuster.content.siliconvalley module

pagebot.contributions.filibuster.content.sports module

pagebot.contributions.filibuster.content.staff module

pagebot.contributions.filibuster.content.stylewars module

pagebot.contributions.filibuster.content.superheroes module

pagebot.contributions.filibuster.content.twitter module

Module contents

Submodules

pagebot.contributions.filibuster.blurb module

pagebot.contributions.filibuster.blurbwriter module

pagebot.contributions.filibuster.example module

pagebot.contributions.filibuster.samplecontent module

pagebot.contributions.filibuster.test module

pagebot.contributions.filibuster.titlecase module

Module contents

pagebot.contributions.markdown package

Submodules

pagebot.contributions.markdown.footnotes module

pagebot.contributions.markdown.inline module

pagebot.contributions.markdown.literature module

**Module contents**

**Module contents**

**10.1.1.5 pagebot.elements package**

**Subpackages**

**pagebot.elements.dating package**

**Submodules**

**pagebot.elements.dating.calendarmonth module**

**Module contents**

**pagebot.elements.designspacegraph package**

**Submodules**

**pagebot.elements.designspacegraph.designspacegraph module**

**pagebot.elements.designspacegraph.designspacegraph1 module**

**pagebot.elements.designspacegraph.designspacegraph2 module**

**pagebot.elements.designspacegraph.designspacegraph3 module**

**pagebot.elements.designspacegraph.designspacegraph4 module**

**pagebot.elements.designspacegraph.designspacegraph5 module**

**pagebot.elements.designspacegraph.designspacegraph6 module**

**pagebot.elements.designspacegraph.designspacegrapharrows module**

**pagebot.elements.designspacegraph.designspacegraphblackbows module**

**pagebot.elements.designspacegraph.designspacegraphworking module**

**Module contents**

**pagebot.elements.newspapers package**

**Submodules**

`pagebot.elements.newspapers.articles` module

`pagebot.elements.newspapers.headers` module

Module contents

`pagebot.elements.ui` package

Module contents

`pagebot.elements.variablefonts` package

Submodules

`pagebot.elements.variablefonts.animationframe` module

`pagebot.elements.variablefonts.basefontshow` module

`pagebot.elements.variablefonts.bezieranimation` module

`pagebot.elements.variablefonts.bio` module

`pagebot.elements.variablefonts.cube` module

`pagebot.elements.variablefonts.fittowidth` module

`pagebot.elements.variablefonts.fonticon` module

`pagebot.elements.variablefonts.glyphdimensions` module

`pagebot.elements.variablefonts.glyphset` module

`pagebot.elements.variablefonts.paragraphs` module

`pagebot.elements.variablefonts.sampler` module

`pagebot.elements.variablefonts.specimen` module

`pagebot.elements.variablefonts.stacked` module

`pagebot.elements.variablefonts.title` module

`pagebot.elements.variablefonts.typeramps` module

`pagebot.elements.variablefonts.variablecircle` module



pagebot.elements.variablefonts.variablecube module

pagebot.elements.variablefonts.variablecube2 module

pagebot.elements.variablefonts.variableglyphs module

pagebot.elements.variablefonts.variablesscatter module

pagebot.elements.variablefonts.waterfall module

pagebot.elements.variablefonts.widths module

Module contents

pagebot.elements.views package

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pagebot.elements.views.baseview module

pagebot.elements.views.gitview module

pagebot.elements.views.googleappsview module

pagebot.elements.views.googlecloudview module

pagebot.elements.views.htmlview module

pagebot.elements.views.mampview module

pagebot.elements.views.mapview module

pagebot.elements.views.pageview module

pagebot.elements.views.siteview module

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pagebot.elements.web package

Subpackages

pagebot.elements.web.barebonesslider package

Submodules

`pagebot.elements.web.barebonesslider.siteelements` module

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`pagebot.elements.web.nanosite` package

Submodules

`pagebot.elements.web.nanosite.siteelements` module

Module contents

`pagebot.elements.web.simplesite` package

Submodules

`pagebot.elements.web.simplesite.siteelements` module

Module contents

`pagebot.elements.web.ui` package

Submodules

`pagebot.elements.web.ui.slide` module

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Module contents

Submodules

`pagebot.elements.alignments` module

`pagebot.elements.artboard` module

`pagebot.elements.beziercurve` module

`pagebot.elements.bezierpaths` module

`pagebot.elements.circle` module

`pagebot.elements.clippath` module

`pagebot.elements.codeblock` module

pagebot.elements.conditions module

pagebot.elements.docwrap module

pagebot.elements.element module

pagebot.elements.flow module

pagebot.elements.galley module

pagebot.elements.glyphpath module

pagebot.elements.group module

pagebot.elements.image module

pagebot.elements.image2 module

pagebot.elements.imagedata module

pagebot.elements.imaging module

pagebot.elements.line module

pagebot.elements.mask module

pagebot.elements.oval module

pagebot.elements.page module

pagebot.elements.placer module

pagebot.elements.polygon module

pagebot.elements.quire module

pagebot.elements.rect module

pagebot.elements.ruler module

pagebot.elements.showings module

pagebot.elements.shrinking module

pagebot.elements.table module

pagebot.elements.template module

pagebot.elements.text module

pagebot.elements.textalignments module

pagebot.elements.textconditions module

Module contents

10.1.1.6 pagebot.fonttoolbox package

Subpackages

pagebot.fonttoolbox.analyzers package

Submodules

pagebot.fonttoolbox.analyzers.acomponent module

pagebot.fonttoolbox.analyzers.acontour module

pagebot.fonttoolbox.analyzers.apoint module

pagebot.fonttoolbox.analyzers.apointcontext module

pagebot.fonttoolbox.analyzers.apointcontextlist module

pagebot.fonttoolbox.analyzers.asegment module

pagebot.fonttoolbox.analyzers.fontanalyzer module

pagebot.fonttoolbox.analyzers.glyphanalyzer module

pagebot.fonttoolbox.analyzers.stems module

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pagebot.fonttoolbox.designspace package

Submodules

pagebot.fonttoolbox.designspace.axis module

pagebot.fonttoolbox.designspace.designspace module

`pagebot.fonttoolbox.designspace.dsmodel` module

`pagebot.fonttoolbox.designspace.fontinfo` module

`pagebot.fonttoolbox.designspace.location` module

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`pagebot.fonttoolbox.objects` package

**Submodules**

`pagebot.fonttoolbox.objects.family` module

`pagebot.fonttoolbox.objects.font` module

`pagebot.fonttoolbox.objects.fontinfo` module

`pagebot.fonttoolbox.objects.glyph` module

`pagebot.fonttoolbox.objects.prevarfamily` module

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`pagebot.fonttoolbox.unicodes` package

**Submodules**

`pagebot.fonttoolbox.unicodes.unicoderanges` module

`pagebot.fonttoolbox.unicodes.unicoderangesdata` module

**Module contents**

**Submodules**

`pagebot.fonttoolbox.fontnames` module

`pagebot.fonttoolbox.fontpaths` module

`pagebot.fonttoolbox.variablefontaxes` module

`pagebot.fonttoolbox.variablefontbuilder` module

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**10.1.1.7 pagebot.mathematics package**

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**pagebot.mathematics.transform3d module**

**Module contents**

**10.1.1.8 pagebot.readers package**

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**pagebot.readers.mdreader module**

**pagebot.readers.rereader module**

**pagebot.readers.xmlreader module**

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**10.1.1.9 pagebot.resources package**

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**pagebot.resources.color package**

**Module contents**

**pagebot.resources.images package**

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**pagebot.resources.languages package**

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**pagebot.resources.sketch package**

**Subpackages**

**pagebot.resources.sketch.Base\_images package**

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pagebot.resources.sketch.TemplateSquare\_images package

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pagebot.resources.sketch.TemplateText\_images package

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pagebot.resources.sketch.Template\_images package

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Module contents

pagebot.resources.templates package

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pagebot.resources.testfonts package

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pagebot.resources.testfonts.djr package

Subpackages

pagebot.resources.testfonts.djr.bungee package

Module contents

Module contents

pagebot.resources.testfonts.fontbureau package

Module contents

pagebot.resources.testfonts.google package

Subpackages

pagebot.resources.testfonts.google.roboto package

Subpackages

pagebot.resources.testfonts.google.roboto.axes package

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Module contents

pagebot.resources.testfonts.typetr package

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pagebot.resources.texts package

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10.1.1.10 pagebot.server package

Subpackages

pagebot.server.tornadoserver package

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pagebot.server.tornadoserver.baseserver module

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pagebot.server.adserver module

pagebot.server.flaskapp module

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10.1.1.11 pagebot.themes package

Submodules

pagebot.themes.backtothecity module

pagebot.themes.basetheme module



pagebot.themes.businessasusual module

pagebot.themes.fairytales module

pagebot.themes.freshandshiny module

pagebot.themes.happyholidays module

pagebot.themes.intothewoods module

pagebot.themes.seasoningthedish module

pagebot.themes.somethingintheair module

pagebot.themes.wordlywise module

Module contents

10.1.1.12 pagebot.toolbox package

Submodules

pagebot.toolbox.color module

pagebot.toolbox.columncalc module

pagebot.toolbox.dating module

pagebot.toolbox.drawing module

pagebot.toolbox.finder module

pagebot.toolbox.hyphenation module

pagebot.toolbox.loremipsum module

pagebot.toolbox.markers module

pagebot.toolbox.timemark module

pagebot.toolbox.transformer module

pagebot.toolbox.units module

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**pagebot.web.basesite module**

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# CHAPTER 11

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## Indices and tables

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