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# **PageBot**

*Release 0.9.3-alpha*

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# CHAPTER 1

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## What is PageBot?

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PageBot® is a page layout environment that enables designers to create high quality documents using Python programming. It is available as a Python library with cross-platform support based on [Flat](#) and as a Mac OS X extension that uses [DrawBot](#). Our aim is to create a system of scriptable applications to generate professionally designed output in various print-ready formats.

The PageBot homepage is located 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-3.8 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](#)
- Continuous Integration: [Travis](#)
- Documentation: [ReadTheDocs](#)
- Examples repository: [PageBotExamples](#)



## 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.
- Access and modify images on pixel-level.
- 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, as the whole “fonttools” Python library is available.
- Access to all 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}{



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## Getting started

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- 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, originTop=False)
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.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

#### 10.1.1.2 pagebot.contexts package

##### Subpackages

pagebot.contexts.base package

Submodules

pagebot.contexts.base.abstractcontext module

pagebot.contexts.base.babelstring module

pagebot.contexts.base.basebezierpath module

pagebot.contexts.base.basebuilder module

pagebot.contexts.base.basecontext module

pagebot.contexts.base.basecontour module

pagebot.contexts.base.baseimageobject module

pagebot.contexts.base.basepoint module

Module contents

pagebot.contexts.flatcontext package

Submodules

pagebot.contexts.flatcontext.flatbezierpath module

pagebot.contexts.flatcontext.flatbuilder module

pagebot.contexts.flatcontext.flatcontext module

pagebot.contexts.flatcontext.flatstring module

Module contents

pagebot.contexts.markup package

Submodules

pagebot.contexts.markup.htmlbuilder module

pagebot.contexts.markup.htmlcontext module

pagebot.contexts.markup.htmlstring module

pagebot.contexts.markup.sitebuilder module

pagebot.contexts.markup.svgbuilder module

pagebot.contexts.markup.svgcontext module

pagebot.contexts.markup.xmlbuilder module

Module contents

Module contents

10.1.1.3 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.boymechnic 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.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

10.1.1.4 pagebot.elements package

Subpackages

pagebot.elements.dating package

Submodules

pagebot.elements.dating.calendarmonth module

Module contents

pagebot.elements.newspapers package

Submodules

pagebot.elements.newspapers.articles module

pagebot.elements.newspapers.headers module

Module contents

pagebot.elements.paths package

## Submodules

pagebot.elements.paths.glyphpath module

pagebot.elements.paths.pagebotpath module

pagebot.elements.paths.pbpaths 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.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.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.vf package

Submodules

pagebot.elements.vf.animationframe module

pagebot.elements.vf.bezieranimation module

pagebot.elements.vf.designspacegraph module

pagebot.elements.vf.designspacegraph1 module

pagebot.elements.vf.designspacegraph2 module

pagebot.elements.vf.designspacegraph3 module

pagebot.elements.vf.designspacegraph4 module

pagebot.elements.vf.designspacegraph5 module

pagebot.elements.vf.designspacegraph6 module

pagebot.elements.vf.designspacegrapharrows module

pagebot.elements.vf.designspacegraphblackbows module

pagebot.elements.vf.designspacegraphworking module

pagebot.elements.vf.specimen module

Module contents



**pagebot.elements.views package**

**Submodules**

**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.pagemapview module**

**pagebot.elements.views.pageview module**

**pagebot.elements.views.siteview module**

**Module contents**

**pagebot.elements.web package**

**Subpackages**

**pagebot.elements.web.barebonesslider package**

**Submodules**

**pagebot.elements.web.barebonesslider.siteelements module**

**Module contents**

**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

## Module contents

## Module contents

## Submodules

pagebot.elements.element module

pagebot.elements.pbartboard module

pagebot.elements.pbcodeblock module

pagebot.elements.pbdocwrap module

pagebot.elements.pbgalley module

pagebot.elements.pbgroup module

pagebot.elements.pbimage module

pagebot.elements.pbimage2 module

pagebot.elements.pbline module

pagebot.elements.pboval module

pagebot.elements.pbpage module

pagebot.elements.pbplacer module

pagebot.elements.pbpolygon module

pagebot.elements.pbquire module

pagebot.elements.pbrect module

pagebot.elements.pbruler module

pagebot.elements.phtable module

pagebot.elements.pbtext module

pagebot.elements.pbtextbox module

Module contents

10.1.1.5 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

Module contents

pagebot.fonttoolbox.designspace package

Submodules

pagebot.fonttoolbox.designspace.dsmodel module

**Module contents**

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

**Module contents**

pagebot.fonttoolbox.unicodes package

**Submodules**

pagebot.fonttoolbox.unicodes.unicoderanges module

pagebot.fonttoolbox.unicodes.unicoderangesdata module

**Module contents**

**Submodules**

pagebot.fonttoolbox.fontpaths module

pagebot.fonttoolbox.otlTools module

pagebot.fonttoolbox.ttftools module

pagebot.fonttoolbox.variablefontaxes module

pagebot.fonttoolbox.variablefontbuilder module

**Module contents**

10.1.1.6 pagebot.mathematics package

**Submodules**

**pagebot.mathematics.numpytransform module**

**pagebot.mathematics.transform3d module**

**Module contents**

**10.1.1.7 pagebot.mining package**

**Subpackages**

**pagebot.mining.filibuster package**

**Submodules**

**pagebot.mining.filibuster.samplecontent module**

**Module contents**

**pagebot.mining.wikipedia package**

**Submodules**

**pagebot.mining.wikipedia.wikicontent module**

**Module contents**

**Module contents**

**10.1.1.8 pagebot.publications package**

**Subpackages**

**pagebot.publications.ads package**

**Submodules**

**pagebot.publications.ads.basead module**

**Module contents**

**pagebot.publications.books package**

**Subpackages**

**pagebot.publications.books.literature package**

**Submodules**

`pagebot.publications.books.literature.cover` module

`pagebot.publications.books.literature.index` module

`pagebot.publications.books.literature.main` module

`pagebot.publications.books.literature.section` module

`pagebot.publications.books.literature.title` module

`pagebot.publications.books.literature.toc` module

**Module contents**

`pagebot.publications.books.photobook` package

**Submodules**

`pagebot.publications.books.photobook.coverpage` module

`pagebot.publications.books.photobook.titlepage` module

**Module contents**

**Submodules**

`pagebot.publications.books.basebook` module

**Module contents**

`pagebot.publications.brochures` package

**Submodules**

`pagebot.publications.brochures.basebrochure` module

**Module contents**

`pagebot.publications.calendars` package

**Subpackages**

`pagebot.publications.calendars.photocalendar` package

**Submodules**

pagebot.publications.calendars.photocalendar.coverpage module

pagebot.publications.calendars.photocalendar.monthpage module

**Module contents**

**Submodules**

pagebot.publications.calendars.basecalendar module

**Module contents**

pagebot.publications.catalogs package

**Submodules**

pagebot.publications.catalogs.basecatalog module

**Module contents**

pagebot.publications.identities package

**Submodules**

pagebot.publications.identities.baseidentity module

**Module contents**

pagebot.publications.magazines package

**Subpackages**

pagebot.publications.magazines.glossy package

**Submodules**

pagebot.publications.magazines.glossy.parts module

**Module contents**

**Submodules**

pagebot.publications.magazines.basemagazine module

**Module contents**

pagebot.publications.manuals package

**Submodules**

pagebot.publications.manuals.basemanual module

**Module contents**

pagebot.publications.newspapers package

**Subpackages**

pagebot.publications.newspapers.classic package

**Submodules**

pagebot.publications.newspapers.classic.article module

pagebot.publications.newspapers.classic.newspaper module

pagebot.publications.newspapers.classic.title module

**Module contents**

**Submodules**

pagebot.publications.newspapers.basenewspaper module

**Module contents**

pagebot.publications.portfolios package

**Subpackages**

pagebot.publications.portfolios.paintings package

**Submodules**

pagebot.publications.portfolios.paintings.parts module

pagebot.publications.portfolios.paintings.portfolioClaudia module

**Module contents**



**Submodules**

pagebot.publications.portfolios.baseportfolio module

**Module contents**

pagebot.publications.posters package

**Submodules**

pagebot.publications.posters.baseposter module

**Module contents**

pagebot.publications.typespecimens package

**Subpackages**

pagebot.publications.typespecimens.proofing package

**Submodules**

pagebot.publications.typespecimens.proofing.pagewide module

pagebot.publications.typespecimens.proofing.proof module

pagebot.publications.typespecimens.proofing.tx module

**Module contents**

**Submodules**

pagebot.publications.typespecimens.basetypespecimen module

pagebot.publications.typespecimens.simplespecimen module

pagebot.publications.typespecimens.specimens module

pagebot.publications.typespecimens.typespecimen module

**Module contents**

pagebot.publications.websites package

**Submodules**

**pagebot.publications.websites.basesite module**

**Module contents**

**Submodules**

**pagebot.publications.publication module**

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**10.1.1.9 pagebot.readers package**

**Submodules**

**pagebot.readers.mdreader module**

**pagebot.readers.rereader module**

**pagebot.readers.xmlreader module**

**Module contents**

**10.1.1.10 pagebot.resources package**

**Subpackages**

**pagebot.resources.color package**

**Module contents**

**pagebot.resources.images package**

**Module contents**

**pagebot.resources.languages package**

**Module contents**

**pagebot.resources.templates package**

**Module contents**

**pagebot.resources.testfonts package**

**Subpackages**

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