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**fontpreview**

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*fontpreview* is a python library, which allows you to create simple and advanced previews of specific fonts.

In addition, the library includes some classes that allow the advanced creation of preview pages of the characters that make up a font.



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**CHAPTER  
ONE**

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## **INSTALLATION**

Here are the installation instructions

### **1.1 Python**

*fontpreview* is written in python3 (3.6 and higher). The only external library required is [Pillow](#) (fork of PIL):

### **1.2 Installation**

```
$ pip install --user fontpreview
```

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**Note:** If you want to use the command line tool, you need to install the system-wide library: `pip install fontpreview`

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## CHAPTER TWO

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### EXAMPLE

Here are some examples that allow basic and advanced use of the library.

#### 2.1 FontPreview example

*FontPreview* is a class that creates objects that allow the representation of a font in an image. By default, it creates a white rectangle with a preview of the letters *a b c d e f* in black.

```
from fontpreview import FontPreview
fp = FontPreview('/tmp/noto.ttf')      # path of font file
fp.save('/tmp/fp.png')                 # default directory is working directory
```

This is result:



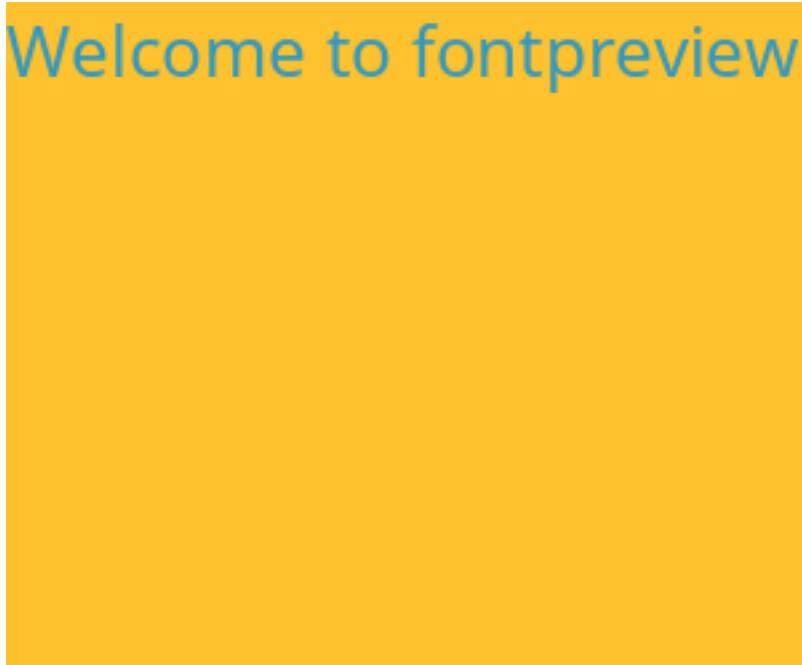
Now, let's modify some properties.

```
fp.font_text = 'Welcome to fontpreview'
fp.bg_color = (253, 194, 45)          # background color. RGB color: yellow
fp.dimension = (300, 250)              # specify dimension in pixel: 300 x 250
fp.fg_color = (51, 153, 193)           # foreground or font color. RGB color: blue
fp.set_font_size(50)                  # set font size to 50 pixel
fp.set_text_position('ltop')          # place the text at the top left.
```

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```
# before saving the image, you need to draw it again
fp.draw()
fp.save('/tmp/fp.png')
```



A background image can also be set.

```
fp.bg_image = '/tmp/python.png'      # a background image
fp.draw()                           # draw it again
fp.save('/tmp/fp.png')
```

The Python logo (two interlocking snakes) is positioned to the left of a colorful bar chart with various horizontal bars in shades of blue, red, green, and yellow.



## 2.2 FontBanner example

*FontBanner* is a *FontPreview*-based class, which adds some features to work with one or more objects based on the *FontPreview* class. With this object since its creation, it is possible to define the orientation: *landscape* or *portrait*.

```
from fontpreview import FontBanner
fb = FontBanner('/tmp/noto.ttf', 'landscape', bg_color=(253, 194, 45)) # path of
# font file
fb.save('/tmp/fb.png')
```



Let's go and change some of the properties.

```
fb.set_mode('fontname')      # set font_text properties to font name
fb.set_orientation('portrait') # set vertical orientation of image
fb.save('/tmp/fb.png')
```



Noto Sans

And now, let's add the *FontPreview* object created earlier.

```
fb.font_text = 'Python'  
fb.set_font_size(50)          # change font size: FontPreview method  
fb.bg_color = 'white'        # set color with name string  
fb.set_orientation((300, 800)) # change orientation and size again with tuple  
fb.draw()                   # draw it again  
fb.add_image(fp, (0, 150))   # add FontPreview object to FontBanner object  
fb.save('/tmp/fb.png')
```

Welcome to fontpreview



Python

## 2.3 FontLogo example

*FontLogo* is a *FontPreview*-based class, which represents a square where inside there are one or two letters. The *fontpreview* package logo was generated with this class.

```
from fontpreview import FontLogo
fl = FontLogo('/tmp/noto.ttf', 'Fp')      # specify font and letters. Max 2
fl.save('/tmp/fl.png')
```



Being a *FontPreview* based object, it inherits all its characteristics.

```
fl.font_text = 'TS'
fl.bg_color = (45, 121, 199)      # background color. RGB color: blue
fl.fg_color = 'white'             # foreground color. RGB color: white
fl.set_text_position('rbelow')   # position is "right-below"
fl.save('/tmp/fl.png')
```



## 2.4 FontWall example

*FontWall* is a class that represents an image in which there are multiple objects based on the *FontPreview* class.

This object accepts a list of font paths (with which it automatically builds *FontBanner* objects) or a list of objects based on the *FontPreview* class.

The *FontWall* object has a mode, which can be *horizontal* or *vertical*, or just specify the usual tuple of with x and y (x, y) axis. It also accepts a maximum of tiles per row (if the orientation is horizontal) or column (if the orientation is vertical).

```
from fontpreview import FontBanner, FontWall
# Define the various parts of wall
fb = FontBanner('/tmp/noto.ttf', 'landscape', mode='fontname')
fb2 = FontBanner('/tmp/noto.ttf', 'landscape', mode='alpha')
fb3 = FontBanner('/tmp/noto.ttf', 'landscape', mode='letter')
fb4 = FontBanner('/tmp/noto.ttf', 'landscape', mode='paragraph')
fw = FontWall([fb, fb2, fb3, fb4])
fw.save('/tmp/fw.png')
```

Noto Sans

Aa Bb Cc Dd Ee Ff  
1 2 3 4 5 6 7 8 9 0a b c d e f  
g h i j k l  
m n o p q r  
s t u v w x y zLorem ipsum dolor sit amet,  
consectetur adipiscing elit.

Any changes made on the parts of the wall are made to the final result.

```
# Modify properties of first banner
fb.font_text = 'Harry Potter'
fb.bg_color = (43, 43, 43)
fb.fg_color = 'white'
fb.set_font_size(120)
# Modify properties of second banner
fb2.font_text = 'Harry Potter is a series of seven fantasy novels\nwritten by British
↪author J. K. Rowling.'
fb2.bg_color = (150, 45, 46)
fb2.fg_color = 'white'
fb2.set_font_size(100)
fb2.set_text_position('ltop')
# Modify properties of third banner
fb3.font_text = 'The series was originally published in English by two major
↪publishers,\nBloomsbury in the United Kingdom and Scholastic Press in the United
↪States. '
fb3.bg_color = (63, 55, 36)
fb3.fg_color = 'white'
fb3.set_font_size(100)           # the font is resized automatically because
↪it exceeds the size of the banner
fb3.set_text_position('rcenter')
# Modify properties of last banner
fb4.font_text = 'A series of many genres, including fantasy, drama,\ncoming of age,
↪and the British school story'
fb4.bg_color = (205, 193, 87)
fb4.fg_color = 'black'
fb4.set_font_size(100)
fb4.set_text_position('rbelow')
fw.draw(2)                      # draw it again, specify max_tile
fw.save('/tmp/fw.png')
```



## 2.5 FontPage example

*FontPage* is a class that represents a sample page per font. This object consists of three parts: header, body and footer. These three parts have a standard size defined by a *FontPageTemplate* (see below).

```
from fontpreview import FontPage, FontBanner
# Define the various parts of wall
header = FontBanner('/tmp/noto.ttf', 'landscape', mode='fontname')
body = FontBanner('/tmp/noto.ttf', 'landscape', mode='paragraph')
footer = FontBanner('/tmp/noto.ttf', 'landscape', mode='letter')
# Create FontPage object
fpage = FontPage()
fpage.set_header(header)
fpage.set_body(body)
fpage.set_footer(footer)
# Design all parts
fpage.draw()
fpage.save('/tmp/fpage.png')
```

# Noto Sans

---

Lorem ipsum dolor sit amet,  
consectetur adipiscing elit.

---

a b c d e f  
g h i j k l  
m n o p q r  
s t u v w x y z

Even with this object, any changes made to the individual parts of the page appear in the final result.

It is also possible to add a FontLogo object to the header, after the header has been defined.

```
from fontpreview import FontLogo
f1 = FontLogo('/tmp/noto.ttf', 'Fp')      # create logo
fpage.set_logo(f1)                         # set logo on header
fpage.body.bg_color = (253, 194, 45)
fpage.body.set_font_size(150)
fpage.draw()
fpage.save('/tmp/fpage.png')
```

Fp

## Noto Sans

Lorem ipsum dolor sit amet,  
consectetur adipiscing elit.

a b c d e f  
g h i j k l  
m n o p q r  
s t u v w x y z

## 2.6 FontPageTemplate example

*FontPageTemplate* is a class that represents a template applicable to the *FontPage* object.

In this object, only the specifications of each part of the *FontPage* object (header, body, footer) are defined: font size, text position, unit.

The units (default 6) are equal parts divided across the height of the page.

```
from fontpreview import FontPageTemplate
template = FontPageTemplate(3508)                      # max height of page
template.set_body(170, 1, 'lcenter')                   # font_size, units, text_position
template.set_footer(100, 4, 'lcenter')                 # font_size, units, text_position
# Create FontPage object
fpage = FontPage(template=template)
fpage.set_header(header)
fpage.set_body(body)
fpage.set_footer(footer)
# Design all parts
fpage.draw()
fpage.save('/tmp/fpage_template.png')
```

Fp

Noto Sans

Lorem ipsum dolor sit amet,  
consectetur adipiscing elit.

a b c d e f  
g h i j k l  
m n o p q r  
s t u v w x y z

## 2.7 FontBooklet example

*FontBooklet* is a class that represents a book of *FontPage* object.

```
from fontpreview import FontPage, FontBanner, FontBooklet
# Define the various parts of page
header = FontBanner('/tmp/noto.ttf', 'landscape', mode='fontname')
body = FontBanner('/tmp/noto.ttf', 'landscape', mode='paragraph')
footer = FontBanner('/tmp/noto.ttf', 'landscape', mode='letter')
# Create FontPage object
fpage1 = FontPage(header=header, body=body, footer=footer)
fpage2 = FontPage(header=header, body=body, footer=footer)
# Design all parts
fpage1.draw()
fpage2.draw()
# Create book
book = FontBooklet(fpage1, fpage2)
book.save('/tmp/noto_book/')      # save page1.png, page2.png in /tmp/noto_book/_
→ folder
```

## 2.8 Declarative object creation

Each *FontPreview* and *FontPage* based object in this module has a declarative instance implementation.

```
from fontpreview import FontPreview, FontBanner, FontLogo, FontPage
# FontPreview object
fp = FontPreview('/tmp/noto.ttf',
                 font_size=50,
                 font_text='some text',
                 color_system='RGB',
                 bg_color='blue',
                 fg_color='yellow',
                 dimension=(800, 400))
# FontBanner object
fb = FontBanner('/tmp/noto.ttf',
                orientation='portrait',
                bg_color='blue',
                fg_color='yellow',
                mode='paragraph',
                font_size=70,
                color_system='RGB')
# FontLogo object
fl = FontLogo('/tmp/noto.ttf',
              'FL',
              size=(170, 170),
              bg_color='yellow',
              fg_color='blue',
              font_size=50,
              color_system='RGB')
# FontPage object
page = FontPage(header=fb, logo=fl, body=fb, footer=fb)
page.draw()
```

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## CHAPTER THREE

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# COMMAND LINE

Here we explain how to use the *fontpreview* tool on the command line

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**Note:** If you want to use the command line tool, you need to install the system-wide library: pip install fontpreview

---

This is help system:

```
$ fp --help
usage: fp [-h] [--verbose] [--version] [-t TEXT] [-b BG_COLOR] [-f FG_COLOR] [-i IMAGE]
           [-d DIMENSION DIMENSION] [-s SAVE_PATH] [-p TEXT_POSITION] [-z SIZE]
           font

FontPreview cli

positional arguments:
  font                  font file path

optional arguments:
  -h, --help            show this help message and exit
  --verbose, -v          enable verbosity, for debug
  --version, -V          show program's version number and exit
  -t TEXT, --text TEXT  text include to preview image (default: a b c d e f)
  -b BG_COLOR, --background BG_COLOR
                        background color (default: white)
  -f FG_COLOR, --foreground FG_COLOR
                        foreground color (default: black)
  -i IMAGE, --background-image IMAGE
                        background image path
  -d DIMENSION DIMENSION, --dimension DIMENSION DIMENSION
                        dimension x and y (default: 700x327)
  -s SAVE_PATH, --save SAVE_PATH
                        save file path (default: current directory)
  -p TEXT_POSITION, --text-position TEXT_POSITION
                        save file path (default: center)
  -z SIZE, --size SIZE  size of font (default: 64)
```

## 3.1 Simple usage

Save *fontpreview* image in a current directory from font file:

```
$ fp /tmp/noto.ttf
```

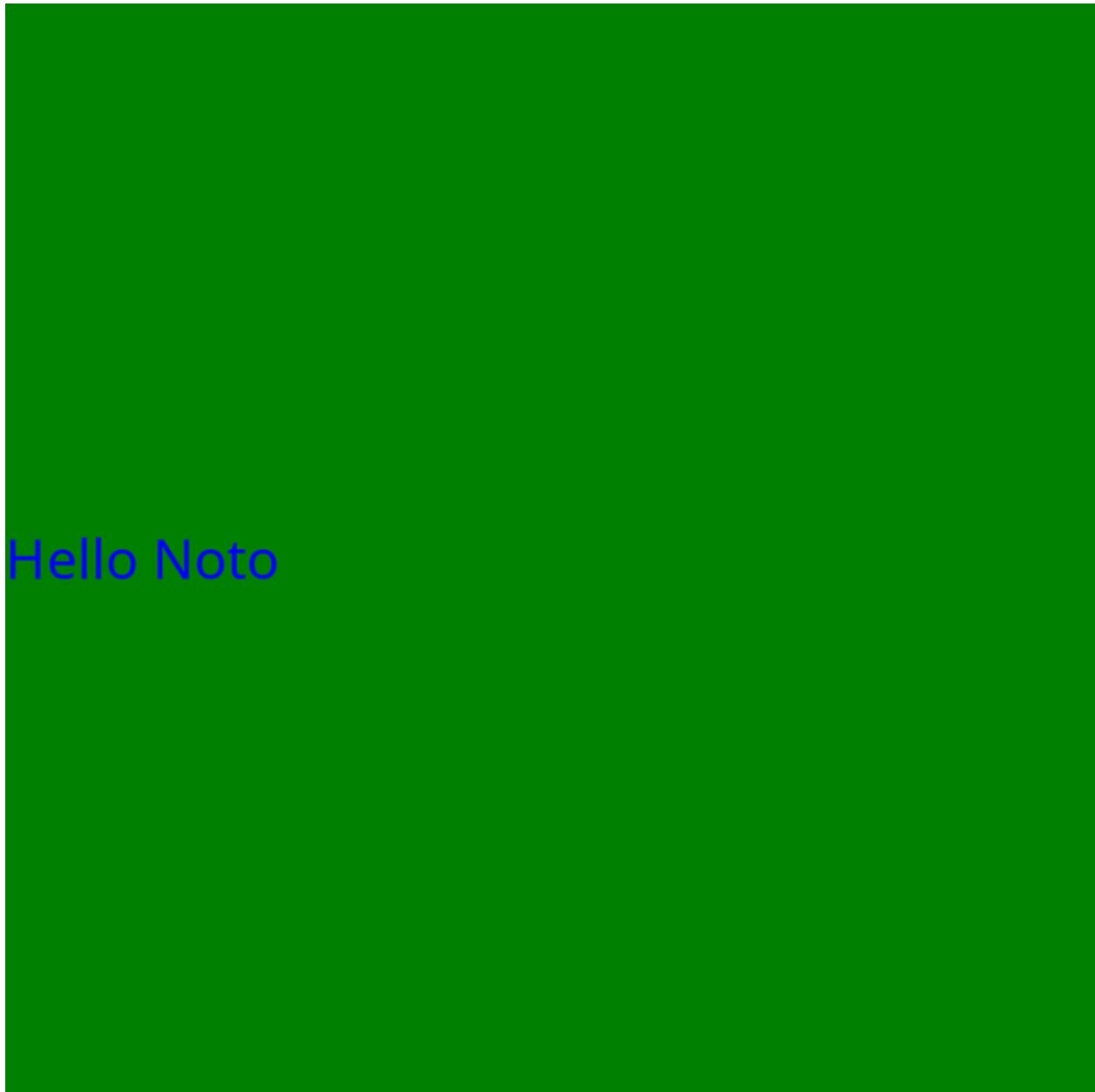


## 3.2 Advanced usage

Use **-v** for debugging; **-d** setting dimension with **x** and **y** axis; **-b** setting background colors, **-f** setting foreground colors, **-p** setting text position, **-z** setting font size and **-s** specified file path to save.

For the color reference: colors

```
$ fp /tmp/noto.ttf -v -t 'Hello Noto' -d 1000 1000 -b 'green' -f 'blue' -p 'lcenter' -  
-z 50 -s /tmp/fp.png  
DEBUG: set text position: "lcenter"  
DEBUG: font object => font_name:('Noto Sans', 'Regular'), font_size:50, text:Hello Noto,  
text_position:(0, 473), dimension:(1000, 1000)
```





## FONTPREVIEW PACKAGE

This package contains three modules that allow, through specific classes, to create simple and advanced font previews.

### 4.1 fontpreview modules

#### 4.1.1 fontpreview

fontpreview module contains **FontPreview** class

```
class fontpreview.fontpreview.FontPreview(font, font_size=64, font_text='a b c d e f', color_system='RGB', bg_color='white', fg_color='black', dimension=(700, 327))
```

Bases: object

Class that represents the preview of a font

```
__init__(font, font_size=64, font_text='a b c d e f', color_system='RGB', bg_color='white', fg_color='black', dimension=(700, 327))
```

Object that represents the preview of a font

##### Parameters

- **font** – font file
- **font\_size** – font size. Default is 64.
- **font\_text** – font text representation. Default is ‘a b c d e f’.
- **color\_system** – color system string. Default is ‘RGB’.
- **bg\_color** – background color of preview. Default is ‘white’.
- **fg\_color** – foreground or font color of preview. Default is ‘black’.
- **dimension** – dimension of preview. Default is 700x327.

```
__str__()
```

String representation of font preview

##### Returns string

```
__weakref__
```

list of weak references to the object (if defined)

```
draw(alignment='left')
```

Draw image with text based on properties of this object

**Parameters** **align** – alignment of text. Available ‘left’, ‘center’ and ‘right’

**Returns** None

**save** (*path*=’/home/docs/checkouts/readthedocs.org/user\_builds/fontpreview/checkouts/stable/docs/source/fontpreview.png’)  
Save the preview font

**Parameters** **path** – path where you want to save the preview font

**Returns** None

**set\_font\_size** (*size*)

Set size of font

**Parameters** **size** – size of font

**Returns** None

**set\_text\_position** (*position*)

Set position of text

**Parameters** **position** – Position can be a tuple with x and y axis, or a string. The strings available are ‘center’, ‘top’, ‘below’, ‘rcenter’, ‘rtop’, ‘rbelow’, ‘lcenter’, ‘ltop’ and ‘lbelow’.

**Returns** None

**show** ()

Displays this image.

**Returns** None

## 4.1.2 fontbanner

fontbanner module contains **FontBanner**, **FontLogo** and **FontWall** class

**class** `fontpreview.fontbanner.FontBanner` (*font*, *orientation*=’landscape’, *bg\_color*=’white’,  
*fg\_color*=’black’, *mode*=’letter’, *font\_size*=64,  
*color\_system*=’RGB’)

Bases: `fontpreview.fontpreview.FontPreview`

Class that represents the banner of a font

**\_\_init\_\_** (*font*, *orientation*=’landscape’, *bg\_color*=’white’, *fg\_color*=’black’, *mode*=’letter’,  
*font\_size*=64, *color\_system*=’RGB’)

Object that represents the banner of a font

**Parameters**

- **font** – font file
- **orientation** – the orientation of the banner; ‘landscape’, ‘portrait’ or tuple(x,y).
- **bg\_color** – background color of preview. Default is ‘white’.
- **fg\_color** – foreground or font color of preview. Default is ‘black’.
- **mode** – the text inside the banner; ‘letter’, ‘fontname’, ‘paragraph’, ‘alpha’ and ‘combination’.
- **font\_size** – font size. Default is 64.
- **color\_system** – color system string. Default is ‘RGB’.

**\_\_str\_\_** ()

String representation of font banner

**Returns** string

**add\_image** (*image, position*)

Adds an additional image to the banner

**Parameters**

- **image** – path of image
- **position** – position of image

**Returns** None**set\_mode** (*mode, align='center'*)

Set the text mode

**Parameters**

- **mode** – mode that sets the text in the banner
- **align** – alignment of text. Available ‘left’, ‘center’ and ‘right’

**Returns** None**set\_orientation** (*orientation, font\_position='center'*)

Set orientation of banner

**Parameters**

- **orientation** – the orientation of the banner; ‘landscape’ or ‘portrait’
- **font\_position** – font position respect dimension of banner

**Returns** None

```
class fontpreview.fontbanner.FontLogo (font, letters, size=(100, 100), bg_color='white', fg_color='black', font_size=64, color_system='RGB')
```

Bases: *fontpreview.fontpreview.FontPreview*

Class that represents the logo of a font

```
__init__ (font, letters, size=(100, 100), bg_color='white', fg_color='black', font_size=64, color_system='RGB')
```

Object that represents the logo of a font

**Parameters**

- **font** – font file
- **letters** – One or two letters (or anything)
- **size** – size of logo square. Default is (100, 100)
- **bg\_color** – background color of preview. Default is ‘white’.
- **fg\_color** – foreground or font color of preview. Default is ‘black’.
- **font\_size** – font size. Default is 64.
- **color\_system** – color system string. Default is ‘RGB’.

**new\_size** (*size*)

Define new size of FontLogo object

**Parameters** **size** – size of fontlogo object

**Returns** None

```
class fontpreview.fontbanner.FontWall (fonts, max_tile=2, mode='horizontal')
```

Bases: object

Class that represents the wall of fonts

```
__init__ (fonts, max_tile=2, mode='horizontal')
```

Object that represents the wall of fonts

**Parameters**

- **fonts** – font list; string or FontPreview object
- **max\_tile** – maximum tile per row/column
- **mode** – image alignment, ‘horizontal’ or ‘vertical’

```
__str__()
```

String representation of font wall

**Returns** string

```
__weakref__
```

list of weak references to the object (if defined)

```
draw(max_tile)
```

Draw wall with fonts on properties of this object

**Parameters** **max\_tile** – maximum tile per row

**Returns** None

```
save(path='/home/docs/checkouts/readthedocs.org/user_builds/fontpreview/checkouts/stable/docs/source/fontwall.png')
```

Save the font wall

**Parameters** **path** – path where you want to save the font wall

**Returns** None

```
show()
```

Displays this image.

**Returns** None

```
fontpreview.fontbanner.resize(image, bg_image)
```

Resize image

**Parameters**

- **image** – image to resize
- **bg\_image** – background image

**Returns** Image object

### 4.1.3 fontpage

fontpage module contains **FontPage** and **FontPageTemplate** class

```
class fontpreview.fontpage.FontBooklet (*pages)
```

Bases: object

Class that represents the booklet of a font page

```
__init__ (*pages)
```

Object that represents the booklet of a font page

**Parameters** `pages` – FontPage’s object

**\_\_iter\_\_()**

Iterating on each FontPage

**Returns** next value

**\_\_weakref\_\_**

list of weak references to the object (if defined)

**save** (`folder, extension='png'`)

Save on each FontPage image

**Parameters**

- **folder** – path folder where you want to save each font page
- **extension** – extension of imge file. Default is ‘png’

**Returns** None

```
class fontpreview.fontpage.FontPage(template=None, dimension=(2480, 3508), header=None,
                                     logo=None, body=None, footer=None)
```

Bases: object

Class that represents the page of a font banners

**\_\_init\_\_** (`template=None, dimension=(2480, 3508), header=None, logo=None, body=None, footer=None`)

Object that represents the page of a font banners

**Parameters**

- **template** – template used to build the page
- **dimension** – dimension of page. Default A4 in pixels.
- **header** – header of fontpage object
- **logo** – logo of fontpage object on header part
- **body** – body of fontpage object
- **footer** – footer of fontpage object

**\_\_str\_\_()**

String representation of font page

**Returns** string

**\_\_weakref\_\_**

list of weak references to the object (if defined)

**draw** (`separator=True, sep_color='black', sep_width=5`)

Draw font page with header, logo, body and footer

**Parameters**

- **separator** – line that separates the parts
- **sep\_color** – separator color
- **sep\_width** – separator width

**Returns** None

**save** (`path='/home/docs/checkouts/readthedocs.org/user_builds/fontpreview/checkouts/stable/docs/source/fontpage.png'`)

Save the font page

**Parameters** `path` – path where you want to save the font page

**Returns** None

**set\_body** (`body`)

Set body of Font page

**Parameters** `body` – FontPreview object

**Returns** None

**set\_footer** (`footer`)

Set footer of Font page

**Parameters** `footer` – FontPreview object

**Returns** None

**set\_header** (`header`)

Set header of Font page

**Parameters** `header` – FontPreview object

**Returns** None

**set\_logo** (`logo`)

Set logo of Font page

**Parameters** `logo` – FontLogo object

**Returns** None

**show()**

Displays this image.

**Returns** None

**class** `fontpreview.fontpage.FontPageTemplate` (`page_height=3508, units_number=6`)

Bases: `object`

Class representing the template of a FontPage object

**\_\_init\_\_** (`page_height=3508, units_number=6`)

Object representing the template of a FontPage object

**Parameters**

- `page_height` – height of FontPage object. Default is 3508.
- `units_number` – division number to create the units

**\_\_str\_\_** ()

String representation of font page

**Returns** string

**\_\_weakref\_\_**

list of weak references to the object (if defined)

**set\_body** (`font_size, units, text_position`)

Setting the body properties

**Parameters**

- `font_size` – the body font size
- `units` – the body units number

- **text\_position** – the body text position

**Returns** None

**set\_footer** (*font\_size*, *units*, *text\_position*)

Setting the footer properties

**Parameters**

- **font\_size** – the footer font size
- **units** – the footer units number
- **text\_position** – the footer text position

**Returns** None

**set\_header** (*font\_size*, *units*, *text\_position*)

Setting the header properties

**Parameters**

- **font\_size** – the header font size
- **units** – the header units number
- **text\_position** – the header text position

**Returns** None



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**CHAPTER  
FIVE**

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