
SeleShot Documentation

Release 0.0.5

Bartosz Alchimowicz

April 19, 2014

1	Overview	3
2	Installation	5
3	Usage examples	7
3.1	Standalone application	7
3.2	In code	7
4	API	9

SeleShot allows to get a screen shot of a whole webpage and a part of it.

Contents:

Overview

Sometimes it is required to take a screen shot not of the whole web page but only a part of it. Such a screen shot can contain for example a single button or form.

Seleshot possibilities:

- Support for taking screenshot(s) of elements with a specified id(s)
- Support for taking screenshot(s) of elements with a specified xpath(s)
- Support for taking screenshot(s) of area.
- Support for taking screenshot(s) with highlighting any elements

Installation

The following libraries are required:

- python 2.7
- python-setuptools
- python-imaging 1.1.7-4
- selenium (tested with: 2.25.0-py2.7, 2.39.0-py2.7)

```
easy_install selenium
```

- **selenium-server-standalone**

- Download the [latest release](#)
 - Run server from console with the following command:

```
java -jar selenium-server-standalone-2.31.0.jar
```

Usage examples

3.1 Standalone application

```
seleshot.py -u http://www.python.org  
seleshot.py -u http://www.python.org -f img.png
```

3.2 In code

The code below shows how to create a simple application which takes a screen shot of a webpage.

```
from seleshot import create  
  
s = create()  
s.get_screen(url="http://www.python.org").save(path)  
s.close()
```

This code shows how to use cut_element and cut_area functions.

```
from seleshot import create  
  
xpath = ".//*[@id='mainnav']/ul/li"  
id = "submit"  
url = 'http://www.python.org'  
  
s = create()  
i = s.get_screen(url)  
  
i.cut_element(id = id).save('cut1.png')  
i.cut_element(xpath = xpath).save('cut2.png')  
  
i.cut_area(height = 100).save("area1.png")  
i.cut_area(200, 300, 250, 350).save('area2.png')  
i.cut_area(200, 300, 250, 350).cut_area(60, 60, 50, 50).save("area3.png")  
  
s.close()
```

This code shows how to use draw_dot and draw_frame functions.

```
from seleshot import create  
  
s = create()
```

```
xpath = ".//*[@id='mainnav']/ul/li"
id = "submit"
url = 'http://www.python.org'

i = s.get_screen(url)

i.draw_frame(id = id, padding = 10, color='yellow', size= 5).save('frame1.png')
i.draw_frame(coordinates=(500,500,40,50), color='green').save('frame2.png')

i.cut_area(200, 300, 250, 350).draw_dot(coordinates = (50, 50), padding = 3, color = 'yellow', size = 10)
coordinates = (60, 20), padding = 4, color = 'red', size = 10).save('dot1.png')

i.draw_dot(id='touchnav-wrapper',padding= 10, size=100).save("dot2.png")
i.draw_dot(id='submit',padding= 1, size=3).save("dot3.png")
s.close()
```

This code shows how to use draw_image function.

```
from seleshot import create

s = create()
url = 'http://www.python.org'

i = s.get_screen(url)

i.cut_element(id = 'submit').save('cut1.png')
i.cut_element(xpath = ".//*[@id='mainnav']/ul/li").save('cut2.png')

i.draw_image(id = 'submit', padding = (0, 0), position = i.Position.OUTSIDE | i.Position.BOTTOM, file
i.draw_image(xpath = ".//*[@id='mainnav']/ul/li", padding = (15, 10), position = i.Position.OUTSIDE
i.draw_image(id = 'touchnav-wrapper', padding = (15, 10), position = i.Position.OUTSIDE | i.Position
i.draw_image(coordinates = (100, 200), padding = (0, 0), position = i.Position.OUTSIDE | i.Position.

s.close()
```

This code shows how to use draw_zoom and draw_blur functions.

```
from seleshot import create

s = create()
url = 'http://www.python.org'

i = s.get_screen(url)

i.cut_element(id = 'submit').save('cut1.png')
i.cut_element(xpath = ".//*[@id='mainnav']/ul/li").save('cut2.png')

i.draw.blur(id = 'submit').save('blur1.png')
i.draw.blur(xpath = ".//*[@id='mainnav']/ul/li").save('blur2.png')

i.draw.zoom(id = 'submit', padding = (0, 5), position = i.Position.OUTSIDE | i.Position.BOTTOM, zoom
i.draw.zoom(xpath = ".//*[@id='mainnav']/ul/li", padding = (15, 10), position = i.Position.OUTSIDE |
i.draw.zoom(id = 'touchnav-wrapper', padding = (15, 10), position = i.Position.OUTSIDE | i.Position.

i.draw.zoom(id = 'submit', padding = (0, 5), position = i.Position.OUTSIDE | i.Position.BOTTOM, zoom

s.close()
```

API

ScreenShot (object) :

get_screen(self, url = None) :
Get specified screen(s)

Parameters `url (string)` – web page to capture (including http protocol, None to reuse loaded webpage)

Returns Screen shot

Return type ImageContainer

Raises Exception

close(self) :
Close driver

ImageContainer (object) :

Container for an image.

Possible positions:

- MIDDLE
- INSIDE
- OUTSIDE
- BORDER
- LEFT
- RIGHT
- TOP
- BOTTOM

Example of usage:

```
position = Position.OUTSIDE | Position.LEFT
```

cut_element(self, id = None, xpath = None) :
Cut one element by id or xpath. After this operation you cannot cut more elements.

Parameters

- `id (string)` – id of a given element

- **xpath** (*string*) – xpath of a given element

Returns ImageContainer

Return type ImageContainer

Raises RuntimeError, ValueError

```
cut_area(self, x = 0, y = 0, height = None, width = None):
```

Cut area from a given point to a given size (in px)

Parameters

- **x** (*integer*) – x coordinate for a point
- **y** (*integer*) – y coordinate for a point
- **height** (*integer or None*) – height of an area
- **width** (*integer or None*) – width of an area

Returns ImageContainer

Return type ImageContainer

```
draw_dot(self, id = None, xpath = None, coordinates = None, padding = 0, color = None,
```

For id and xpath: Draw a red dot on a given position of a given element.

For coordinates: Draw a red dot in a given point (x, y)

Parameters

- **id** (*string*) – id of a given element
- **xpath** (*string*) – xpath of a given element
- **coordinates** (*tuple of integers (x, y)*) – coordinates = (x, y) - center of a dot
- **position** (*Position enum*) – position of a dot
- **padding** (*tuple of integers (x, y)*) – padding between dot and element
- **color** (*color object or string*) – color of dot
- **size** (*integer*) – size of dot

Returns ImageContainer

Return type ImageContainer

Raises ValueError

```
draw_frame(self, id = None, xpath = None, coordinates = None, padding = None, color = None,
```

For id and xpath: Draw a frame around a given element

For coordinates: Draw a frame for a given coordinates

Parameters

- **id** (*string*) – id of a given element
- **xpath** (*string*) – xpath of a given element
- **coordinates** (*tuple of integers - (x, y, width, height)*) – coordinates for a frame - coordinates = (x, y, width, height) - middle of a dot
- **padding** (*tuple of integers (x, y)*) – padding between frame and element

- **color** (*color object or string*) – color of a frame (see PIL's documentation)
- **size** (*integer*) – size of frame (thickness)

Returns ImageContainer

Return type ImageContainer

Raises ValueError

```
draw_image(self, id = None, xpath = None, coordinates = None, position = Position.MIDDLE)
```

For id and xpath: Draw an image on a given position of a given element.

For coordinates: Draw an image in a given point (x, y)

Parameters

- **id** (*string*) – id of a given element
- **xpath** (*string*) – xpath of a given element
- **coordinates** (*tuple of integers (x, y)*) – coordinates = (x, y) - center of an image
- **position** (*Position enum*) – position of an image
- **padding** (*tuple of integers (x, y)*) – padding between dot and element
- **filename** (*string*) – filename of the image file
- **image** (*Image object*) – reference to Image object

Returns ImageContainer

Return type ImageContainer

Raises ValueError

```
draw_zoom(self, id = None, xpath = None, coordinates = None, position = Position.MIDDLE)
```

For id and xpath: Draw a zoomed image on a given position of a given element.

For coordinates: Draw a zoomed element in a given point (x, y).

Parameters

- **id** (*string*) – id of a given element
- **xpath** (*string*) – xpath of a given element
- **coordinates** (*tuple of integers (x, y)*) – coordinates = (x, y) - center of a zoomed image
- **position** (*Position enum*) – position of a zoomed image
- **padding** (*tuple of integers (x, y)*) – padding between dot and element
- **zoom** (*integer*) – zoom size of an element

Returns ImageContainer

Return type ImageContainer

```
draw.blur(self, id = None, xpath = None):
```

Blur whole area of the screenshot except a given element.

Parameters

- **id** (*string*) – id of a given element
- **xpath** (*string*) – xpath of a given element

Returns ImageContainer

Return type ImageContainer

Raises RuntimeError, ValueError

save(self, filename):

Save to a filename

Parameters `filename` (*string*) – name of a file

Returns ImageContainer

Return type ImageContainer

is_cut(self):

If True, then there is possibility to cut an element. If False, then there is not possibility to cut any element.

Returns possibility to cut

Return type boolean