

# Arbor

**Library version:** RENAT 0.1.11  
**Library scope:** test suite  
**Named arguments:** supported

## Introduction

A library provides functions to control Arbor application

The library utilize *SeleniumLibrary* and adds more functions to control Arbor application easily.

See [WebApp](#) for common keywords of web applications.

*SeleniumLibrary* keywords still could be used along with this library. See [SeleniumLibrary](#) for more details.

**Notes:** From 0.1.10, move from *Selenium2Library* to *SeleniumLibrary*

## Shortcuts

Capture Screenshot · Clean Status Msg · Close · Close All · Commit · Connect · Connect All · Detail First Mitigation · Get Status Msg · Get Verbose · Login · Logout · Mark Element · Menu · Open Ff With Profile · Reconnect · Reset Capture Counter · Set Ajax Wait · Set Capture Counter · Set Capture Format · Set Verbose · Show All Mitigations · Show Detail Countermeasure · Show Detail First Mitigation · Show Detail Mitigation · Show Detail Mitigation With Order · Switch · Verbose Capture · Wait Until Element Changes

## Keywords

| Keyword                            | Arguments   | Documentation   |                                    |         |                          |                                    |             |  |                                  |  |                        |                                  |            |                                     |                                    |                   |            |
|------------------------------------|---|---|------------------------------------|---------|--------------------------|------------------------------------|-------------|--|----------------------------------|--|------------------------|----------------------------------|------------|-------------------------------------|------------------------------------|-------------------|------------|
| Capture Screenshot                 | filename=None, extra=   | <p>Captures the current screen to file</p> <p>Using the internal counter for filename if filename is not specified. In this case, the filename is defined by a pre-set format. <i>Set Capture Format</i> could be used to change the current format.</p> <p>An extra information will be add to the filename if extra is defined</p> <p>Examples:</p> <table><tr><td>Samurai.<i>Capture Screenshot</i></td><td></td><td># samurai_0000000001.png</td></tr><tr><td>Samurai.<i>Capture Screenshot</i></td><td>extra=_list</td><td># samurai_0000000002_<i>list</i>.png</td></tr><tr><td>Arbor.<i>Capture Screenshot</i></td><td></td><td># arbor_0000000001.png</td></tr><tr><td>Arbor.<i>Capture Screenshot</i></td><td>extra=_xxx</td><td># arbor_0000000001_<i>xxx</i>.png</td></tr><tr><td>Samurai.<i>Capture Screenshot</i></td><td>filename=1111.png</td><td># 1111.png</td></tr></table> | Samurai. <i>Capture Screenshot</i> |         | # samurai_0000000001.png | Samurai. <i>Capture Screenshot</i> | extra=_list | # samurai_0000000002_ <i>list</i> .png | Arbor. <i>Capture Screenshot</i> |  | # arbor_0000000001.png | Arbor. <i>Capture Screenshot</i> | extra=_xxx | # arbor_0000000001_ <i>xxx</i> .png | Samurai. <i>Capture Screenshot</i> | filename=1111.png | # 1111.png |
| Samurai. <i>Capture Screenshot</i> |   | # samurai_0000000001.png  |                                    |         |                          |                                    |             |  |                                  |  |                        |                                  |            |                                     |                                    |                   |            |
| Samurai. <i>Capture Screenshot</i> | extra=_list   | # samurai_0000000002_ <i>list</i> .png  |                                    |         |                          |                                    |             |  |                                  |  |                        |                                  |            |                                     |                                    |                   |            |
| Arbor. <i>Capture Screenshot</i>   |   | # arbor_0000000001.png  |                                    |         |                          |                                    |             |  |                                  |  |                        |                                  |            |                                     |                                    |                   |            |
| Arbor. <i>Capture Screenshot</i>   | extra=_xxx  | # arbor_0000000001_ <i>xxx</i> .png   |                                    |         |                          |                                    |             |  |                                  |  |                        |                                  |            |                                     |                                    |                   |            |
| Samurai. <i>Capture Screenshot</i> | filename=1111.png   | # 1111.png  |                                    |         |                          |                                    |             |  |                                  |  |                        |                                  |            |                                     |                                    |                   |            |
| Clean Status Msg                   |   | Disposes any alert or status messgae at the top of the current page   |                                    |         |                          |                                    |             |  |                                  |  |                        |                                  |            |                                     |                                    |                   |            |
| Close                              |   | Close the web application   |                                    |         |                          |                                    |             |  |                                  |  |                        |                                  |            |                                     |                                    |                   |            |
| Close All                          |   | Closes all current opened applications  |                                    |         |                          |                                    |             |  |                                  |  |                        |                                  |            |                                     |                                    |                   |            |
| Commit                             | strict=True   | <p>Commit the current changes</p> <p>If <i>strict</i> is \${TRUE} then the keyword fails if there is not change to commit. Otherwise, it does nothing</p>   |                                    |         |                          |                                    |             |  |                                  |  |                        |                                  |            |                                     |                                    |                   |            |
| Connect                            | app, name   | <p>Opens a web browser and connects to application and assigns a name .</p> <p>Extra information could be added to the webapp sections likes login_url , browser or profile_dir . Default values are:</p> <table><tr><td>browser</td><td>firefox</td></tr><tr><td>login_url</td><td>/</td></tr><tr><td>profile_dir</td><td>./config/samurai.profile</td></tr></table>   | browser                            | firefox | login_url                | /                                  | profile_dir | ./config/samurai.profile               |                                  |  |                        |                                  |            |                                     |                                    |                   |            |
| browser                            | firefox   |   |                                    |         |                          |                                    |             |  |                                  |  |                        |                                  |            |                                     |                                    |                   |            |
| login_url                          | /   |   |                                    |         |                          |                                    |             |  |                                  |  |                        |                                  |            |                                     |                                    |                   |            |
| profile_dir                        | ./config/samurai.profile                                      |   |                                    |         |                          |                                    |             |  |                                  |  |                        |                                  |            |                                     |                                    |                   |            |
| Connect All                        |   | <p>Connects to all applications defined in local.yaml</p> <p>The name of the connection will be the same of the <i>webapp</i> name</p>  |                                    |         |                          |                                    |             |  |                                  |  |                        |                                  |            |                                     |                                    |                   |            |
| Detail First Mitigation            |   |   |                                    |         |                          |                                    |             |  |                                  |  |                        |                                  |            |                                     |                                    |                   |            |
| Get Status Msg                     |   | <p>Get current status message</p> <p>Return null string if no message exists</p>  |                                    |         |                          |                                    |             |  |                                  |  |                        |                                  |            |                                     |                                    |                   |            |
| Get Verbose                        |   | Get current verbose mode  |                                    |         |                          |                                    |             |  |                                  |  |                        |                                  |            |                                     |                                    |                   |            |
| Login                              |   | Logs into the Arbor application   |                                    |         |                          |                                    |             |  |                                  |  |                        |                                  |            |                                     |                                    |                   |            |
| Logout                             |   | Logs-out the current application, the browser remains   |                                    |         |                          |                                    |             |  |                                  |  |                        |                                  |            |                                     |                                    |                   |            |
| Mark Element                       | xpath   | Marking an element to check its stattus later   |                                    |         |                          |                                    |             |  |                                  |  |                        |                                  |            |                                     |                                    |                   |            |
| Menu                               | order, wait=2s, capture_all=False, prefix=menu_, suffix=.png, | Access to Arbor menu  |                                    |         |                          |                                    |             |  |                                  |  |                        |                                  |            |                                     |                                    |                   |            |

|   |   |   |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
|---|---|---|---|-----------------------------|--|---|---|------------------------------|-----------------------------|-------------------------|---|---|--|--|-----------------------------|---------------------------------------|--|---|---|-----------------------|-----------------------------|---|---|---|--|--|
|   | <code>partial_match=False</code>                      | <p>Parameters</p> <ul style="list-style-type: none"><li>▪ <code>order</code> is the list of top menu items separated by '/'</li><li>▪ <code>wait</code> is the wait time after the last item is clicked</li><li>▪ if <code>capture_all</code> is <code>True</code> then a screenshot is captured for each menu item automatically. In this case, the image file is appended by <code>prefix</code> and <code>suffix</code>.</li></ul> <p>by default, the system try to match the menu item in full, when <code>partial_match</code> is <code>True</code>, partial match is applied.</p> <p>Samples:</p> <table><tr><td>Arbor.<a href="#">Menu</a></td><td>order=Alerts/Ongoing</td><td></td></tr><tr><td>Arbor.<a href="#">Capture Screenshot</a></td><td></td><td></td></tr><tr><td>Arbor.<a href="#">Menu</a></td><td>order=Alerts/All Alerts</td><td></td></tr><tr><td>Arbor.<a href="#">Capture Screenshot</a></td><td></td><td></td></tr><tr><td>Arbor.<a href="#">Menu</a></td><td>order=System/Status/Deployment Status</td><td></td></tr><tr><td>Arbor.<a href="#">Capture Screenshot</a></td><td></td><td></td></tr><tr><td>Arbor.<a href="#">Menu</a></td><td>order=System/Status/Signaling Status/Appliance Status</td><td><code>partial_match=\${TRUE}</code></td></tr><tr><td>Arbor.<a href="#">Capture Screenshot</a></td><td></td><td></td></tr></table> | Arbor. <a href="#">Menu</a>                 | order=Alerts/Ongoing        |  | Arbor. <a href="#">Capture Screenshot</a> |   |                              | Arbor. <a href="#">Menu</a> | order=Alerts/All Alerts |   | Arbor. <a href="#">Capture Screenshot</a> |  |  | Arbor. <a href="#">Menu</a> | order=System/Status/Deployment Status |  | Arbor. <a href="#">Capture Screenshot</a> |   |                       | Arbor. <a href="#">Menu</a> | order=System/Status/Signaling Status/Appliance Status | <code>partial_match=\${TRUE}</code>       | Arbor. <a href="#">Capture Screenshot</a> |  |  |
| Arbor. <a href="#">Menu</a>                       | order=Alerts/Ongoing                                  |   |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Arbor. <a href="#">Capture Screenshot</a>         |   |   |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Arbor. <a href="#">Menu</a>                       | order=Alerts/All Alerts                               |   |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Arbor. <a href="#">Capture Screenshot</a>         |   |   |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Arbor. <a href="#">Menu</a>                       | order=System/Status/Deployment Status                 |   |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Arbor. <a href="#">Capture Screenshot</a>         |   |   |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Arbor. <a href="#">Menu</a>                       | order=System/Status/Signaling Status/Appliance Status | <code>partial_match=\${TRUE}</code>   |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Arbor. <a href="#">Capture Screenshot</a>         |   |   |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Open Ff With Profile                              | <code>app, name</code>                                |   |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Reconnect   |   | Reconnect to server if necessary  |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Reset Capture Counter                             |   | Resets the counter of the screen capture  |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Set Ajax Wait                                     | <code>wait_time=2s</code>                             | Set the ajax wait time  |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Set Capture Counter                               | <code>value=0</code>                                  | Sets the counter of the screen capture to <code>value</code>  |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Set Capture Format                                | <code>format</code>                                   | <p>Sets the format for the screen capture file</p> <p>The format does not include the default prefix <code>.png</code> The default format is <code>&lt;mod&gt;_%010d</code>. <code>mod</code> could be <code>samurai</code> or <code>arbor</code></p> <p>See <a href="https://docs.python.org/2/library/string.html#format-specification-mini-language">https://docs.python.org/2/library/string.html#format-specification-mini-language</a> for more details about the format string.</p> <p>Examples:</p> <table><tr><td>Samurai.<a href="#">Set Capture Format</a></td><td><code>\${case}_%010d</code></td><td># <code>\${case}</code> is a predefined variable</td></tr></table>  | Samurai. <a href="#">Set Capture Format</a> | <code>\${case}_%010d</code> | # <code>\${case}</code> is a predefined variable         |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Samurai. <a href="#">Set Capture Format</a>       | <code>\${case}_%010d</code>                           | # <code>\${case}</code> is a predefined variable  |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Set Verbose                                       | <code>verbose=False</code>                            | Set current verbose mode to <code>verbose</code>  |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Show All Mitigations                              |   | Shows all mitigations   |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Show Detail Countermeasure                        | <code>name, *method_list</code>                       | <p>Shows detail informatin about a countermeasure</p> <p><code>name</code> is used to search the the mitigation and <code>method_list</code> is a list of countermeasures that are listed in Arbor Countermeasures panel</p> <p>Example:</p> <table><tr><td><code>\${NAME}</code></td><td><code>\${ID}=</code></td><td><a href="#">Show Detail First Mitigation</a></td><td></td></tr><tr><td>Arbor.<a href="#">Show Detail Countermeasure</a></td><td><code>\${NAME}</code></td><td>DNS Malformed</td><td></td></tr><tr><td>Arbor.<a href="#">Capture Screenshot</a></td><td></td><td></td><td></td></tr><tr><td>Sleep</td><td>10s</td><td></td><td></td></tr><tr><td>Arbor.<a href="#">Show Detail Countermeasure</a></td><td><code>\${NAME}</code></td><td>Zombie Detection</td><td>HTTP Malformed</td></tr><tr><td>Arbor.<a href="#">Capture Screenshot</a></td><td></td><td></td><td></td></tr></table>  | <code>\${NAME}</code>                       | <code>\${ID}=</code>        | <a href="#">Show Detail First Mitigation</a>             |   | Arbor. <a href="#">Show Detail Countermeasure</a> | <code>\${NAME}</code>        | DNS Malformed               |                         | Arbor. <a href="#">Capture Screenshot</a> |   |  |  | Sleep                       | 10s                                   |  |   | Arbor. <a href="#">Show Detail Countermeasure</a> | <code>\${NAME}</code> | Zombie Detection            | HTTP Malformed  | Arbor. <a href="#">Capture Screenshot</a> |   |  |  |
| <code>\${NAME}</code>                             | <code>\${ID}=</code>                                  | <a href="#">Show Detail First Mitigation</a>  |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Arbor. <a href="#">Show Detail Countermeasure</a> | <code>\${NAME}</code>                                 | DNS Malformed   |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Arbor. <a href="#">Capture Screenshot</a>         |   |   |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Sleep   | 10s   |   |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Arbor. <a href="#">Show Detail Countermeasure</a> | <code>\${NAME}</code>                                 | Zombie Detection  | HTTP Malformed                              |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Arbor. <a href="#">Capture Screenshot</a>         |   |   |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Show Detail First Mitigation                      |   | <p>Shows details about the 1st mitigation on the list</p> <p>The keyword returns the <code>mitigation ID</code> and its name</p>  |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Show Detail Mitigation                            | <code>search_str</code>                               | <p>Shows detail information of a mitigation by its <code>search_str</code></p> <p><b>Note:</b> the result could include multi mitigations</p>   |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Show Detail Mitigation With Order                 | <code>order</code>                                    | <p>Shows details about the <code>order</code>(th) mitigation in the current list</p> <p><code>order</code> is counted from <code>1</code>. The keyword returns the <code>mitigation_id</code> and its name</p> <p>Example:</p> <table><tr><td><code>\${NAME}</code></td><td><code>\${ID}=</code></td><td>Arbor.<a href="#">Show Detail Mitigation With Order</a></td><td>3</td></tr><tr><td>Log To Console</td><td><code>\${NAME}:\${ID}</code></td><td></td><td></td></tr><tr><td>Arbor.<a href="#">Capture Screenshot</a></td><td></td><td></td><td></td></tr></table>  | <code>\${NAME}</code>                       | <code>\${ID}=</code>        | Arbor. <a href="#">Show Detail Mitigation With Order</a> | 3   | Log To Console                                    | <code>\${NAME}:\${ID}</code> |                             |                         | Arbor. <a href="#">Capture Screenshot</a> |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| <code>\${NAME}</code>                             | <code>\${ID}=</code>                                  | Arbor. <a href="#">Show Detail Mitigation With Order</a>  | 3   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Log To Console                                    | <code>\${NAME}:\${ID}</code>                          |   |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |
| Arbor. <a href="#">Capture Screenshot</a>         |   |   |   |                             |  |   |   |                              |                             |                         |   |   |  |  |                             |                                       |  |   |   |                       |                             |   |   |   |  |  |

|                            |  |  |
|----------------------------|--|--|
| Switch                     | <i>name</i>  | Switches the current browser to <code>name</code>                            |
| Verbose Capture            | <i>*args, **kwargs</i>                                   | Capture screenshot if verbose mode is <code>True</code> otherwise do nothing |
| Wait Until Element Changes | <i>interval=5s, timeout=180s, error_on_timeout=False</i> | Wait until the marked element has been changed                               |

Altogether 29 keywords.  
Generated by [Libdoc](#) on 2018-12-06 13:39:50.

