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# **Robot Framework Sphinx Contrib Library Documentation**

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**sphinxcontrib-robotframework** is a [Sphinx](#)-extension, which executes embedded [Robot Framework](#) tests during `sphinx-build`.

**sphinxcontrib-robotframework** can be used in [doctest](#) way to validate examples shown in documentation or with [Selenium](#) and its Robot Framework integration, [SeleniumLibrary](#), to generate scripted screenshots during the documentation compilation time, for CI-generated up-to-date screenshots.



### 1.1 Document with embedded tests

With the Robot Framework space separated format, a minimal test suite must contain the `*** Test Cases` header and at least one test case, like:

```
*** Test Cases ***  
  
Foo is always foo  
    Should be equal    foo    foo
```

But the `*** Test Cases` header may be followed by as many tests as required, like:

```
*** Test Cases ***  
  
Foo is still foo  
    Should be equal    foo    foo  
  
Foo is never bar  
    Should not be equal    foo    bar
```

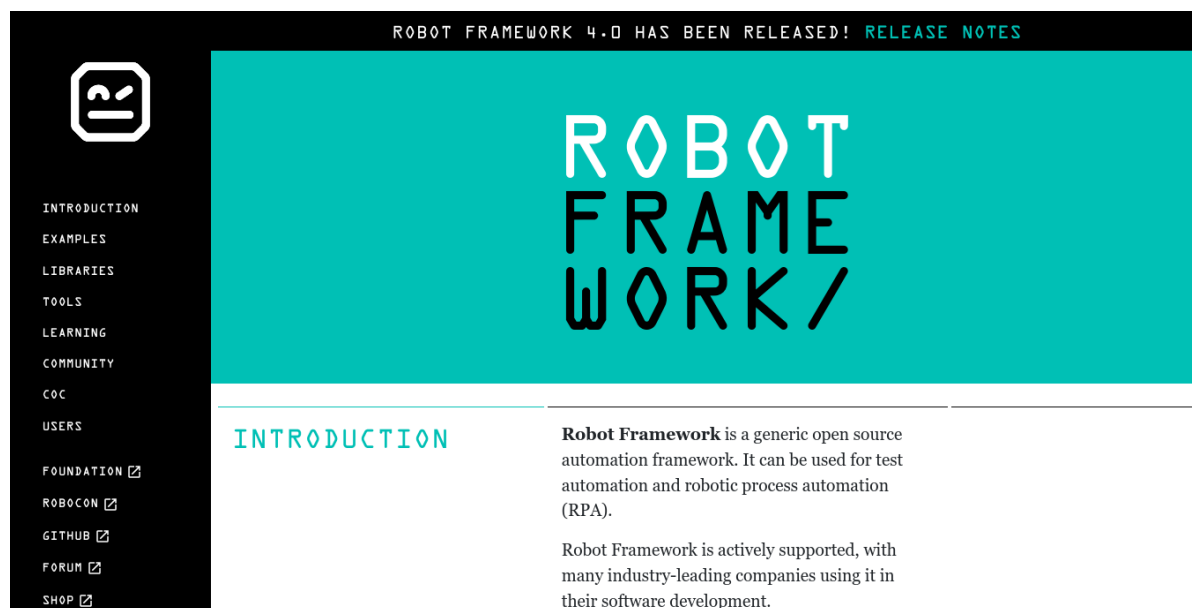
### 1.2 Document with a screenshot

The fun with `sphinxcontrib-robotframework` starts in using it together with `SeleniumLibrary`.

These packages together would allow you to navigate any website, take screenshots when required and finally embed those screenshot into this very Sphinx-documentation. All this with just `sphinx-build`:

```
*** Settings ***  
  
Library    SeleniumLibrary  
  
Suite Teardown    Close all browsers  
  
*** Variables ***
```

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```

${BROWSER}  headlessfirefox

*** Test Cases ***

Capture a screenshot of RobotFramework.org
    Open browser  http://robotframework.org/  browser=${BROWSER}
    Capture page screenshot  robotframework.png

```

## 1.3 Document with an annotated screenshot

While [Selenium](#) has built-in support for capturing whole page screenshots, usually screenshots must be cropped and some times also annotated to make them useful in a documentation.

A Robot Framework library called [SeleniumScreenshots](#) provides a collection of re-usable keywords for cropping and annotating screenshots.

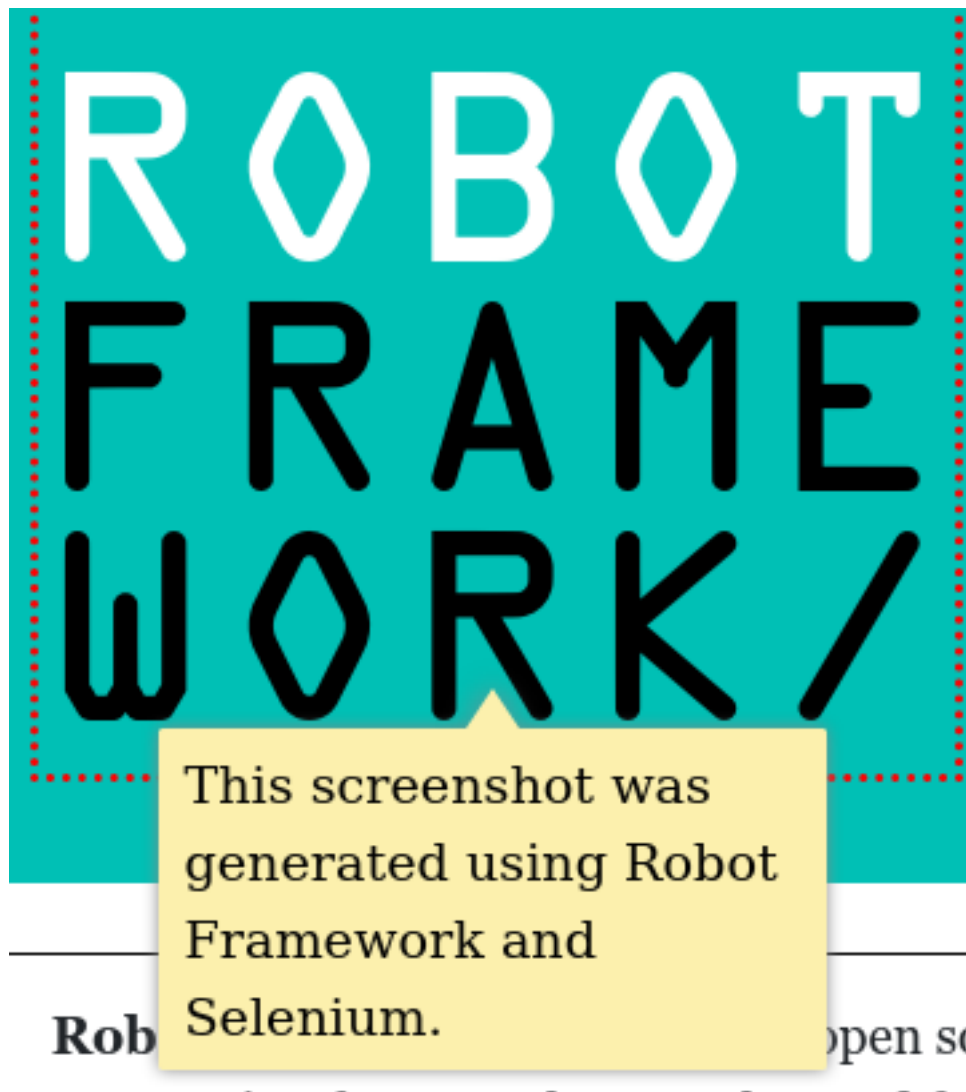
A cropped and annotated screenshot could look like this:

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**Note:** The image cropping feature for `robotframework-seleniumscreenshot` requires [PIL](#) or [Pillow](#).

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### Getting started

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1. Install **sphinxcontrib-robotframework** into your virtualenv or require it as a dependency of your Sphinx-project.
2. Enable the extension and execution of embedded Robot Framework tests by adding the following lines into your Sphinx-project's `conf.py`:

```
extensions = ['sphinxcontrib_robotframework']

# Enable Robot Framework tests during Sphinx compilation
sphinxcontrib_robotframework_enabled = True

# Hide Robot Framework syntax from the Sphinx output by default
# (preferred, when you use the extension for scripted screenshots)
sphinxcontrib_robotframework_quiet = True
```

3. Write your Robot Framework tests in space separated form as contents of Docutils' `code`-directives with `robotframework-language`:

```
.. code:: robotframework

    *** Settings ***

    ...

    *** Variables ***

    ...

    *** Test cases ***

    ...
```

Each document may contain several `code`-directives, but their contents are concatenated into a single Robot Framework test suite before execution.

The output of each `code`-directive can be omitted by setting a special `:class: hidden`-option. (This is not a standard Sphinx-behavior, but a hard coded feature in **sphinxcontrib-robotframework**.)

4. Compile your documentation and see your tests being run.

**Note:** If you choose to use Robot Framework variables in your test cases, you can override values for those variables in your Sphinx-configuration file (`conf.py`) with:

```
sphinxcontrib_robotframework_variables = {  
    "VARIABLE": "value"  
}
```

When Sphinx *nitpicky* mode is enabled, failing Robot Framework run will raise Sphinx Error and leave Robot Framework log files in place.