

```
*** Settings ***
```

Documentation Robot Framework / Playwright Workshop

Resource Rein van der Vegt

Resource Tim Lolkema

*** Variables ***

\${GITHUB} https://github.com/tlolkema/robot-playwright-workshop

```
*** Keywords ***

Robot Framework Presentation

Introduction

Robot Framework basics 1. Settings 2. Variables 3. Test Cases

... 4. Keywords 5. Libraries 6. Setup & Teardown Running Tests

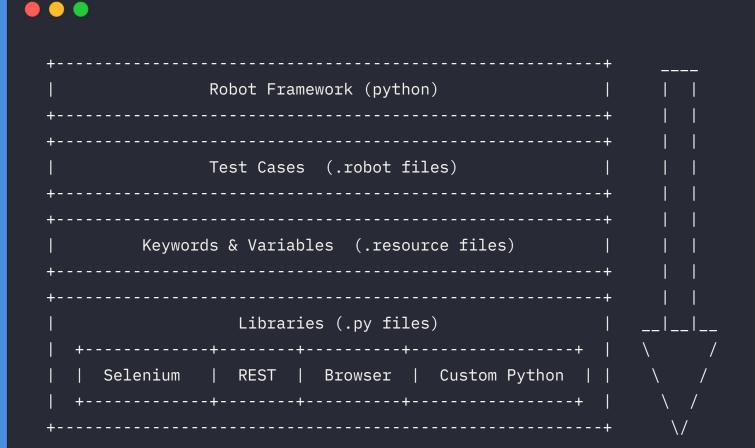
Browser Library

Extending Browser Library

Custom Python Library & JSON schema
```

Robot Framework Workshop

Exercises





- *** Settings ***
- *** Variables ***
- *** Keywords ***
- *** Test Cases ***



Documentation Under Settings you can:

... - Import Libraries

... - Import Resource Files

... - Configure Setup & Teardown Keywords

Library Browser

Resource resources.resource

Test Setup Do Something

Test Teardown Do Something Else



```
*** Test Cases ***

Go To Homepage And Login # <-- Test Case

Go To Homepage # <-- Keyword

Login With Admin # <-- Keyword
```

Homepage Should Be Loaded # <-- Keyword

```
*** Variables ***
${LOGIN URL} http://localhost:5000

*** Keywords ***
Go To Homepage
   Open Browser
   Navigate to ${LOGIN URL}
```

*** Keywords ***

Documentation What can keywords do:

... - Executing low-level keywords

... - Receive and return variables

... - BuiltIn keywords

... - Install libraries for more keywords

... - Making custom keywords

```
*** Keywords ***
Keyword Which Sets Test Variable
  ${RESPONSE} = Keyword With Return Value
                                                  Workshop
  Set Test Variable $\{RESPONSE\}
Keyword With Return Value
  [Arguments] ${ARG1}
 Log To Console ${ARG1}
  [Return] ${ARG1}
Validation Keyword
  Should Be Equal ${RESPONSE}
                                Workshop
```

```
*** Test Cases ***
```

Testcase Gherkin Syntax

```
Given Step 1 ## Starting situation
```

When Step 2 ## Actions

Then Step 3 ## Validations

```
*** Settings ***
Resource Variables.resource
Resource Keywords.resource

*** Test Cases ***
Test Case
   Keyword From Resource File
Log ${VAR_FROM_RESOURCE}}
```

robot@workshop:~\$ robot Testscript.robot

robot@workshop:~\$ robot Tests



Test Setup KeywordBeforeEveryTest

Test Teardown KeywordAfterEveryTest

Suite Setup KeywordBeforeEverySuite

Suite Teardown KeywordAfterEverySuite

Documentation Browser Library (Playwright) Features

... - No browser driver needed

.. - Standard headless

... - Browser support (Chromium + Webkit + Firefox)

... - Stub or force error responses

... - Auto-waiting

... - robotframework-browser.org

```
async function returnPageTitle(page, args) {
  url = args[0]
  await page.goto(url);
  return await page.title();
}

exports.__esModule = true;
exports.returnPageTitle = returnPageTitle;
```

```
*** Settings ***
Library Browser jsextension=${CURDIR}/module.js

*** Test Cases ***
Example Test Case
   New Page
   ${title} returnPageTitle https://playwright.dev
   Should be equal ${title} Playwright
```

```
import requests
class ExampleLibrary:
   def example_keyword(self, arg):
        url = 'localhost:9999/workshop'
        params = {
            'param': arg,
        response = requests.get(url=url, params=params)
        return json.loads(response.text)
```

```
*** Settings ***
Library ExampleLibrary.py # Import Your Own Keywords

*** Keywords ***
Easily Use Your Own Keywords
    ${RESPONSE}$ Example Keyword Argument
```



Documentation JSON Schema Validation

... jsonschema.net

```
"age": 2,
   "name": "playwright"
}
```

```
{
  "type": "object",
  "required": [ "age", "name" ],
  "properties": {
     "age": {
          "type": "integer"
     ξ,
     "name": {
          "type": "string"
```

```
*** Settings ***
Library ExampleLibrary.py
Library JSONSchemaLibrary ./exercises/schemas

*** Keywords ***
Easily Use Your Own Keywords
    ${RESPONSE} Example Keyword Argument
    Validate Json example-schema.json ${RESPONSE}
```

```
robot@workshop:~$ python -m venv env
robot@workshop:~$ source env/bin/activate
robot@workshop:~$ env\Scripts\activate
robot@workshop:~$ pip install -r requirements.txt
robot@workshop:~$ python app/app.py
```

```
# Test if you installed python and robot framework correctly:
robot@workshop:~$ robot --version

# You should see output:
Robot Framework x (Python x)

# Test if the demo application is running:
Go to http://localhost:5000/
```



Documentation Workshop Application Demo!!!

```
*** Settings ***

Documentation Break & Workshop Time!!!! :)
...
(((
...
))
...
| | | |
```

```
*** Variables ***
${GITHUB} https://github.com/tlolkema/robot-playwright-workshop
*** Keywords ***
Robot Framework & Playwright Workshop
  19:00 - 19:15
                     Break
  19:15 - 20:00 Exercise Time
  20:00 - 20:15
                     Explanation exercise 1 - 3
                     Exercise Time
  20:15 - 21:00
  21:00 - 21:15 Explanation exercise 4 - 7
  21:15 - 21:30 Closing ceremony
  21:30 - ?
                     BEER!!
```