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*** Settings ***
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Documentation Robot Framework Workshop

Resource Rein van der Vegt

Resource Tim Lolkema

*** Variables ***

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

```
*** Keywords ***
Robot Framework Presentation
  Introduction
  Robot Framework basics 1. Settings 2. Variables 3. Test Cases
  Running Tests
  Setup & Teardown
  SeleniumLibrary
  Custom Python Library
```

4. Keywords 5. Libraries

Robot Framework Workshop Exercises

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*** Settings ***
Documentation
               Why Robot Framework?
                 - Open source (free)
                 - Easy to learn
                 - For both beginners and experts
                 - Extensive collection of external libraries
                 - Multi purpose framework:
                   - API tests (REST / SOAP)
. . .
                   - Browser tests
                   - Database tests
                   - Etc.
```

```
*** Settings ***
Documentation
                   Robot Framework (python)
                   Test Cases (.robot files)
             Keywords & Variables (.resource files)
                      Libraries (.py files)
      Selenium
                                            Custom Python
                  l REST l
                               Oracle
```

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*** Settings ***
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*** Variables ***

*** Keywords ***

*** Test Cases ***



*** Settings ***

Documentation Under Settings you can:

... - Import Libraries

... - Import Resource Files

... - Configure Setup & Teardown Keywords

Library SeleniumLibrary

Resource resources.robot

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}
```

```
*** Variables ***
${VAR1}
          Lorum
${VAR2} ipsum
${VAR3} ${VAR1} ${VAR2}
${INT1}
${INT2}
${INT3} = Evaluate ${INT1} + ${INT2}
${BOOL}
          true
${BOOL2} ${INT1} > ${INT3}
```

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*** 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}}
```

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

BuiltIn Keywords Validations

Should Be True 1 > 0

Should Be Equal lorum ipsum lorum ipsum

Should Be Equal As Integers 3 "3"



```
*** Settings ***
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Library SeleniumLibrary # Selenium Browser Tests

Library DebugLibrary # Debug Robot Framework Tests Via Terminal

Library OracleDB # Test Oracle DB

```
*** Settings ***
Library SeleniumLibrary
*** Keywords ***
Example SeleniumLibrary Test Case
                chrome http://localhost:5000
 Open Browser
 Page Should Contain Text Robot Framework
 Element Should Not Be Visible xpath = //*[@name = "register"]
 Input Text id=input_username Test Username
 Click Element id=submit_button
```

robot@workshop:~\$ robot Testscript.robot robot@workshop:~\$ robot Tests robot@workshop:~\$ robot -i smoketest Testscript.robot robot@workshop:~\$ robot -e smoketest Testscript.robot robot@workshop:~\$ robot -d test-results/ Testscript.robot robot@workshop:~\$ robot -v env:PROD Testscript.robot



*** Settings ***

Test Setup KeywordBeforeEveryTest

Test Teardown KeywordAfterEveryTest

Suite Setup KeywordBeforeEverySuite

Suite Teardown KeywordAfterEverySuite

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

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

*** Keywords ***
Easily Use Your Own Keywords

${RESPONSE} = Example Keyword Argument
Should Be Equal As Strings ${RESPONSE} Robot!
```



Resource resources.resource

Test Template Test Template Keyword

*** Test	Cases ***	FIRST_ARG	SECOND_ARG	THIRD_ARG
Testcase	1	Test	User	Robot
Testcase	2	User	Robot	Test
Testcase	3	Robot	Test	User
Testcase	4	Test	Test	Test
Testcase	5	User	User	User
Testcase	6	Robot	Robot	Robot

```
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/
```