

An introduction to ROBOT FRAMEWORK





About Robot Framework

Robot Framework is a Python-based, extensible keyword-driven automation framework for acceptance testing, acceptance test driven development (ATDD), behavior driven development (BDD) and robotic process automation (RPA)...

blah blah blah blah...



About Robot Framework

(tl;dr)

Robot Framework does stuff for you using easy to write (and read) keyword based tests.



Under The Hood

Webdriver / Browser

TESTS (Ride, VSCode, PyCharm) Robot Framework Library Library --Library eTime mor --And --Da Dp Ω



Robot File Weirdness



(this slide intentionally left blank)



Robot File Weirdness Explained

```
*** Variables ***
${MESSAGE}[space] Hello, world!
```

```
*** Variables *** |
${MESSAGE} | Hello, world!
```



```
Robot
File
Example
```

```
*** Settings ***
Library
                  SeleniumLibrary
*** Variables ***
${username}
                  JoeUser
${password}
                  JoePassword
*** Test Cases ***
Login with invalid credentials should fail
      [Template] Invalid logins
      invalid
                        ${password} #Invalid Username
      ${username}
                        invalid
                                    #Invalid Password
*** Keywords ***
Invalid logins
      [Arguments] ${username}
                               ${password}
      Browser is opened to login page
      User "${username}" logs in with password "${password}"
```

Dashboard should not be open



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



- *** Settings ***
 - Documentation
- Libraries
- Test and Suite Setup/Teardown
- Resources



```
*** Variables ***

${MESSAGE} Hello, world!

${installation} TEST (${region}) # nested

${USER}[name] ${USER}[password] # dictionary

%{USER} # environment
```



```
*** Test Cases ***
Open Site
Go To ${URL}
Set Window Size 1280 800
Capture Page Screenshot
Close All Browsers
```



*** Keywords ***

Open Browser To Login Page

Open Browser \${LOGIN URL} \${BROWSER}

Login Page Should Be Open

Login Page Should Be Open

Title Should Be Login Page



Robot Docs

Robot Framework documentation This page contains links to version specific Robot Framework User Guide, standard library, and built-in tool documents

Robot Framework User Guide is a reference manual explaining all Robot Framework features in detail. You can eithe **User Guide**

These test libraries are distributed with Robot Framework. Click View to view the selected version online, and use New standard libraries are added time to time. Dropdown menus list versions in which libraries are available. Standard libraries

Contains generic often needed keywords. Imported automatically ar

View

Documentation View Library Latest ~ BuiltIn View Latest ~ Collections View Latest ~ DateTime View Latest ~ Dialogs View Latest ~ OperatingSystem View Latest ~ Process N/A View Remote Latest ~

Latest ~

Screenshot

Contains keywords for handling lists and dictionaries. Supports creating and verifying date and time values as well as cal

Supports pausing the test execution and getting input from users. Enables performing various operating system related tasks.

Supports executing processes in the system.

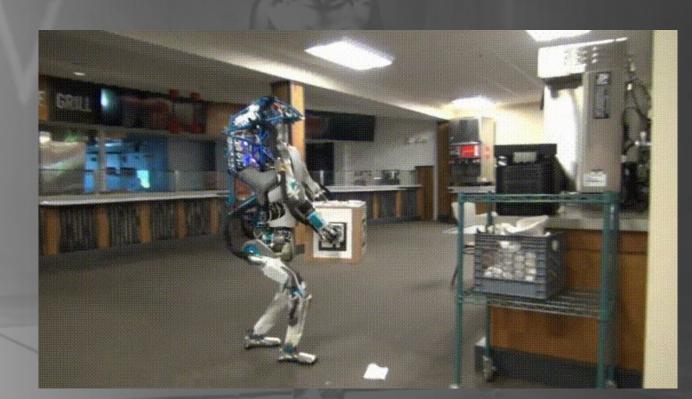
Part of the remote library interface. Does not have any keyword Provides keywords to capture and store screenshots of the desk

Library for manipulating strings and verifying their contents. Supports connecting to Telnet servers and executing command

Robot Container



Let's Test Something



ROBOT FRAMEWORK

Gotchas





Resources

Robot Framework
https://robotframework.org/

Slides and Code: https://github.com/jimpriest/robotframework-preso

ROBOT FRAMEWORK

QUESTIONS?

