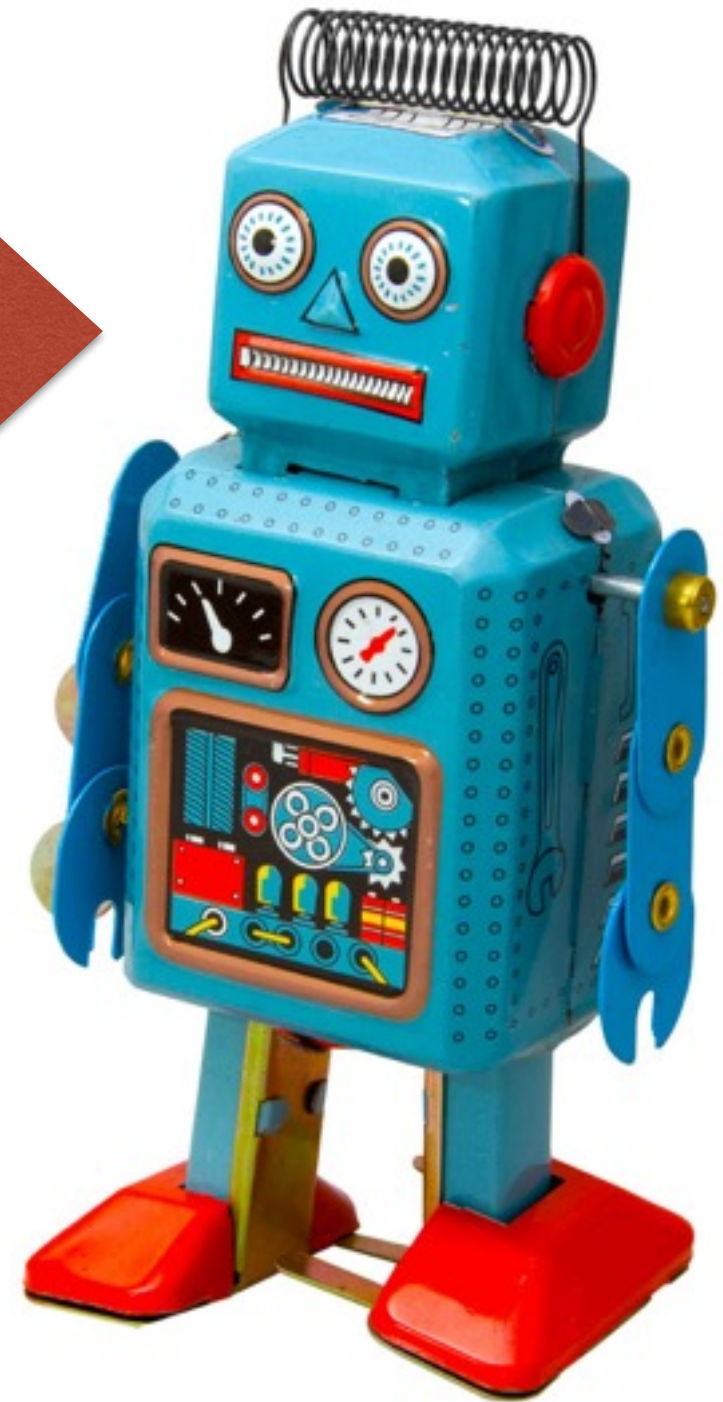


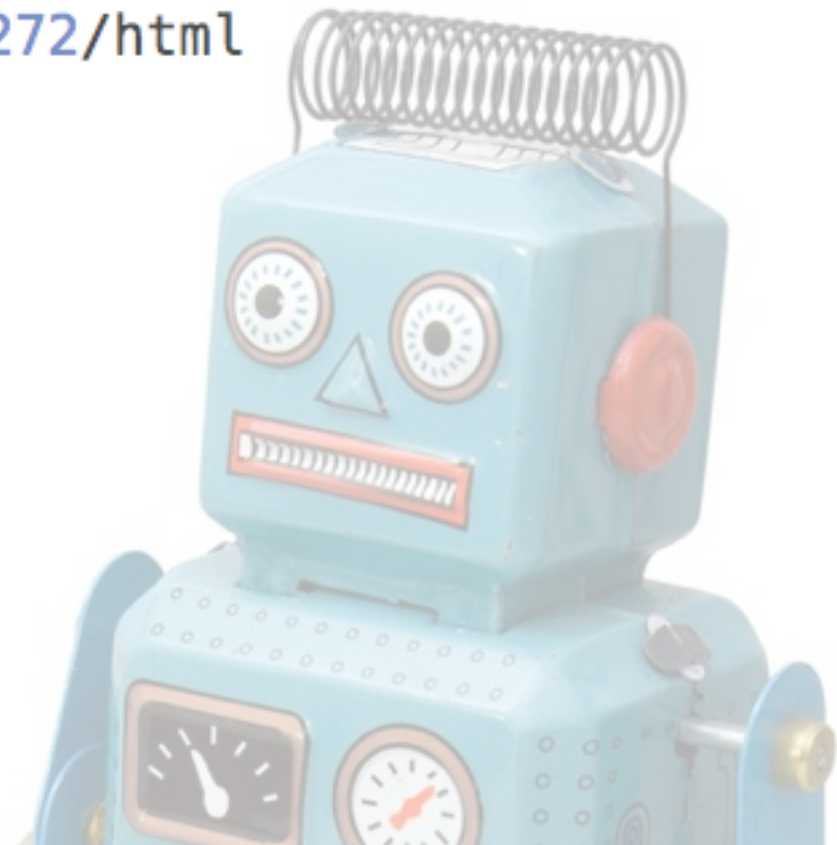
Acceptance Test and Acceptance-Test Driven Development

with Robot Framework



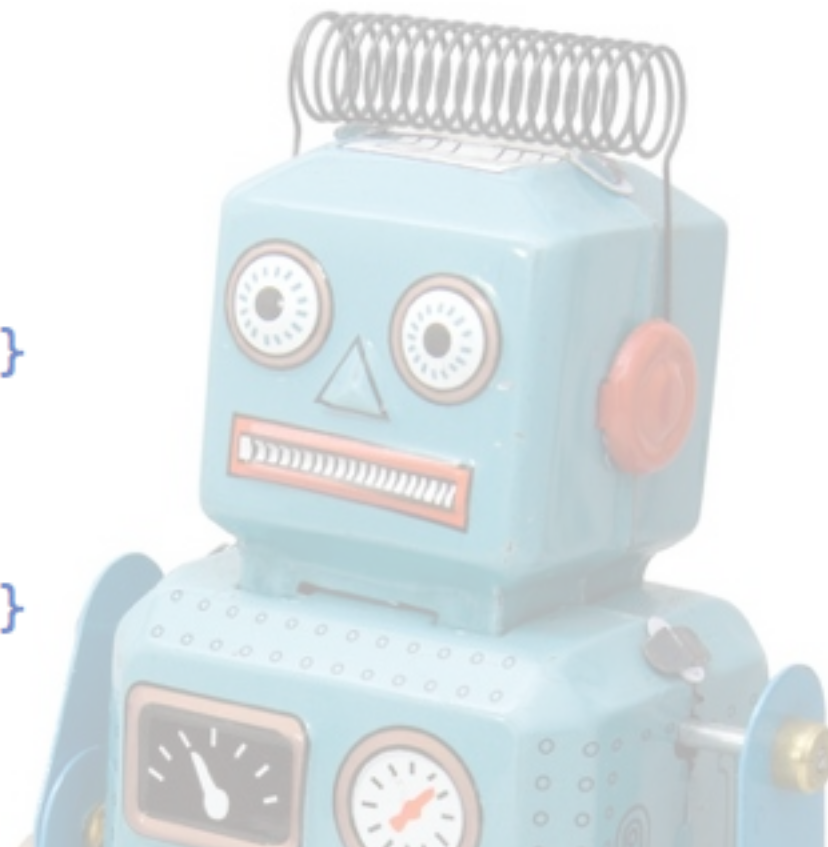

Create Keyword

```
1  *** Settings ***
2  Library           Selenium2Library
3
4  *** Testcases ***
5  Valid login
6      Goto login page
7
8  *** Keywords ***
9  Goto login page
10     Open Browser    http://localhost:7272/html
11
12
```

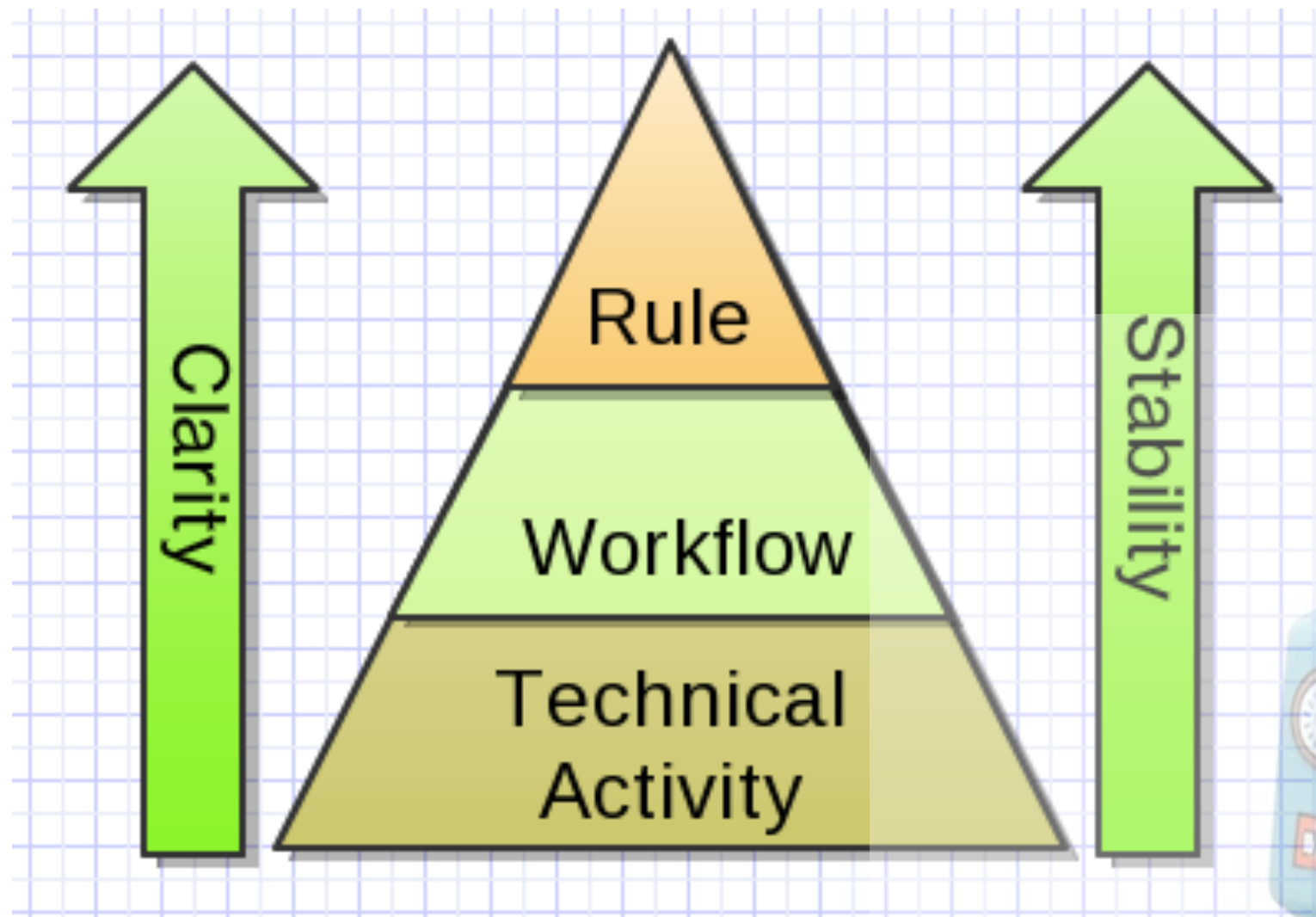


Send parameters to Keyword

```
1  *** Settings ***
2  Library           Selenium2Library
3
4  *** Testcases ***
5  Valid login
6      Goto login page
7      Fill in username    demo
8      Fill in password    mude
9
10 *** Keywords ***
11 Goto login page
12     Open Browser    http://localhost:7272/html
13
14     Fill in username
15     [Arguments]    ${username}
16     Input text     username_field    ${username}
17
18     Fill in password
19     [Arguments]    ${password}
20     Input Text     password_field    ${password}
21
```

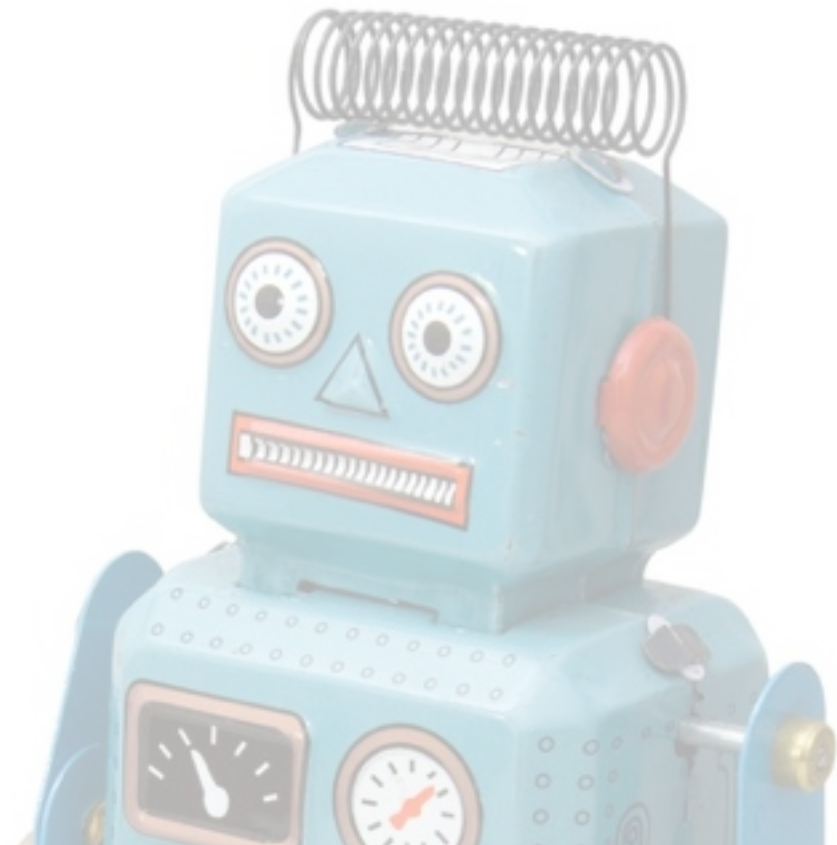


Level of UI Test Automation



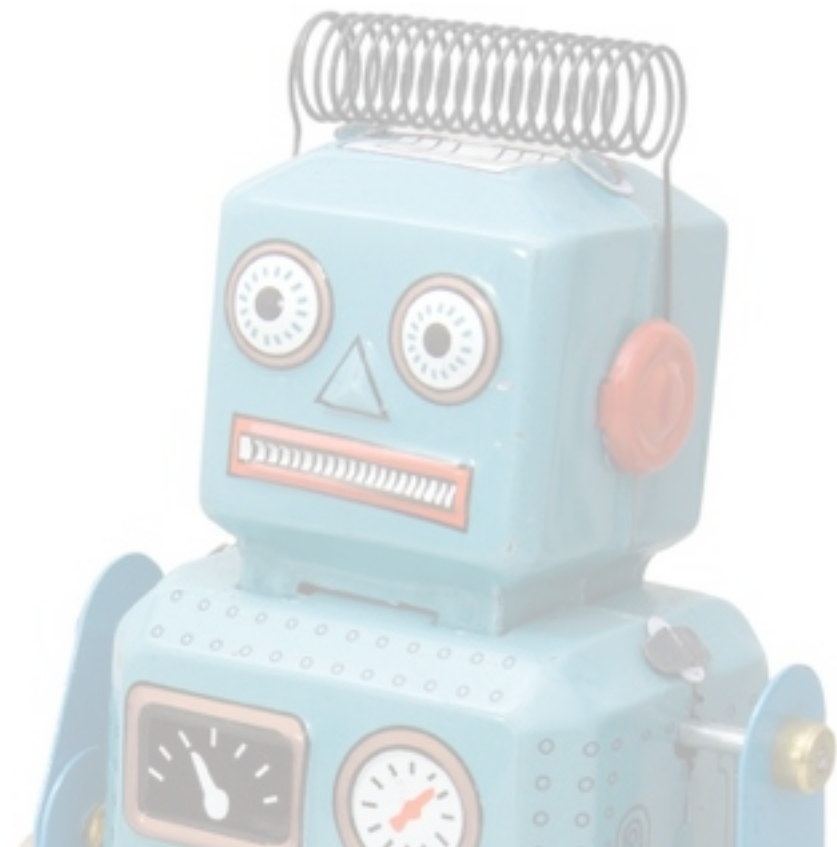
Demo

- Grade system
- <http://demo-jenkins-web.herokuapp.com/>



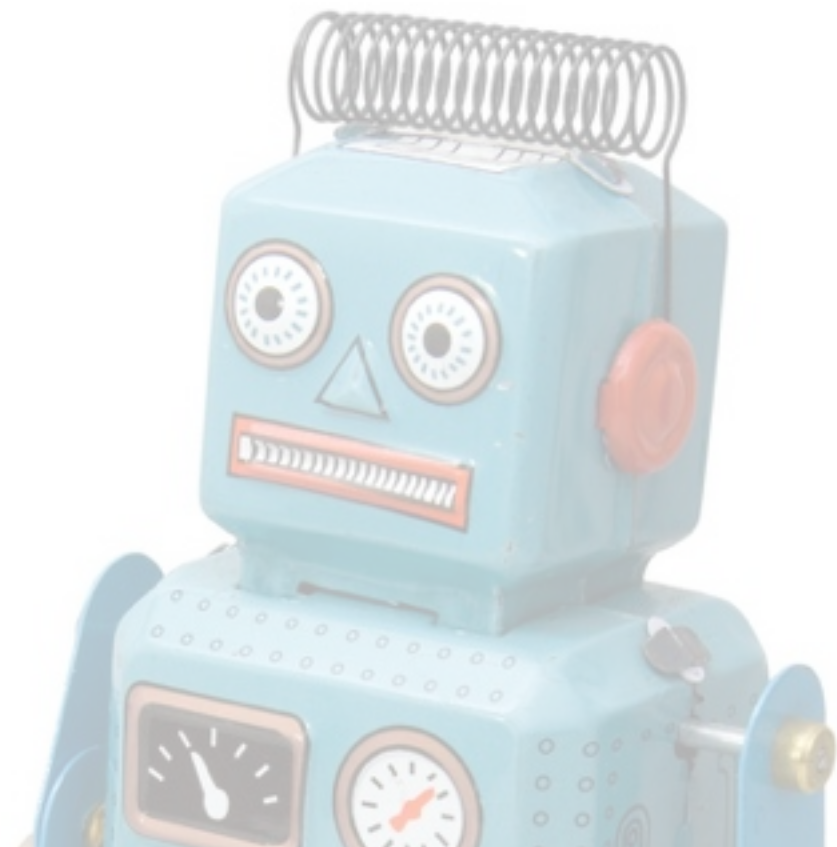
Workshop

- Try to rewrite test case
 - Readability and Maintainability
 - Demo login
 - Valid case
 - Invalid case



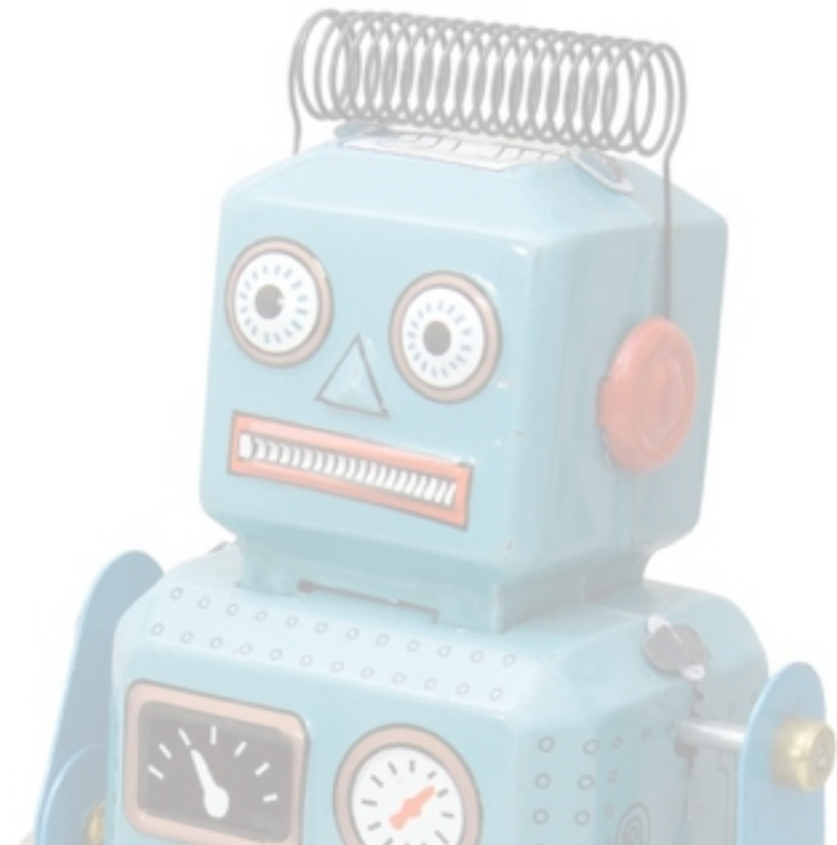
Advance Feature

- Using Variables
- Setups and Teardown
- Resource file
- Tagging test cases



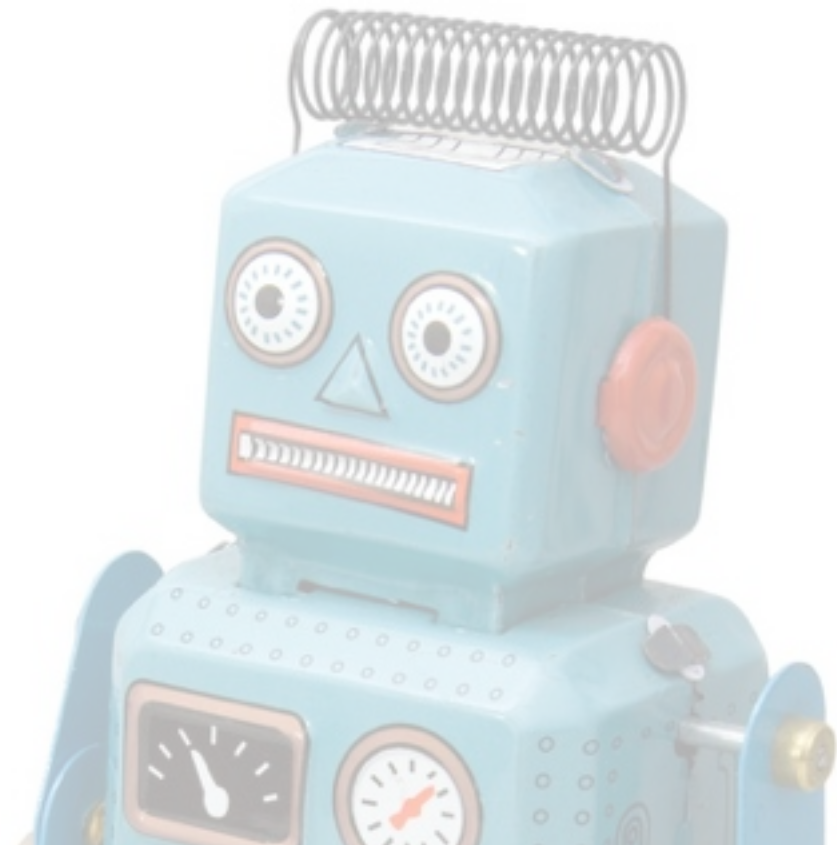
Variable

```
1  *** Settings ***
2  Library           Selenium2Library
3
4  *** Variables ***
5  ${LOGIN_URL}      http://localhost:7272/html
6  ${WELCOME_URL}    ${LOGIN_URL}/welcome.html
7
8
9  *** Testcases ***
10 Valid Login
11     Open Browser    ${LOGIN_URL}
12
13     Input Text      username_field    demo
14     Input Text      password_field    mode
15     Click Button    login_button
16
17     Location Should Be    ${WELCOME_URL}
18     Title Should Be      Welcome Page
19     Page Should Contain   Login succeeded
20
21     Close Browser
```



Setup and Teardown

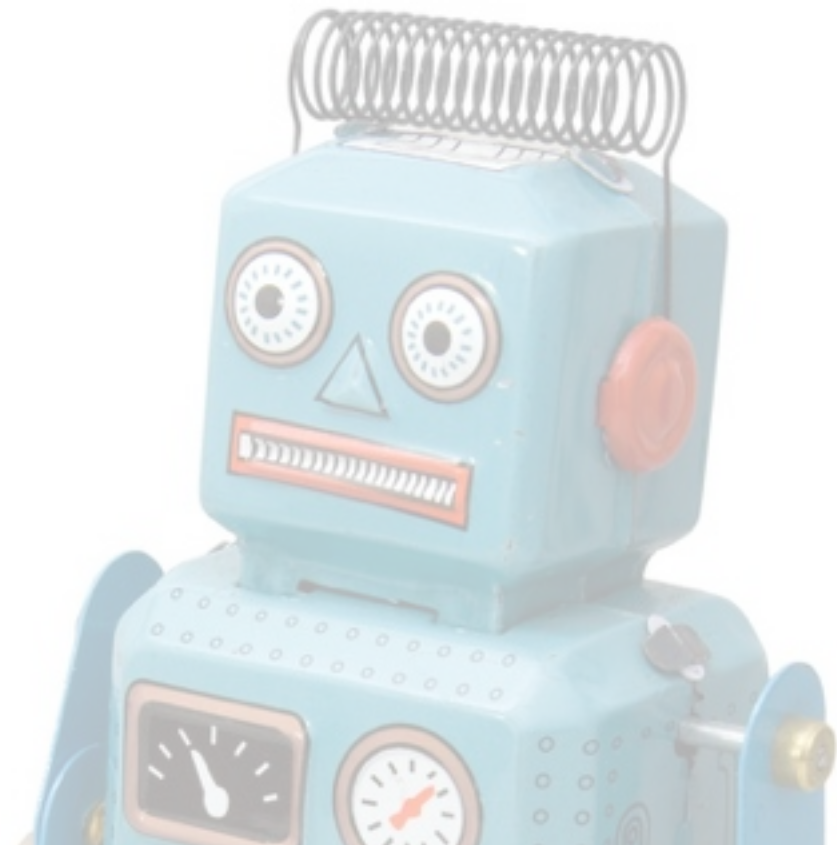
- Setup
 - Executed **before** a test case
- Teardown
 - Executed **after** a test case



Setup and Teardown

- Before

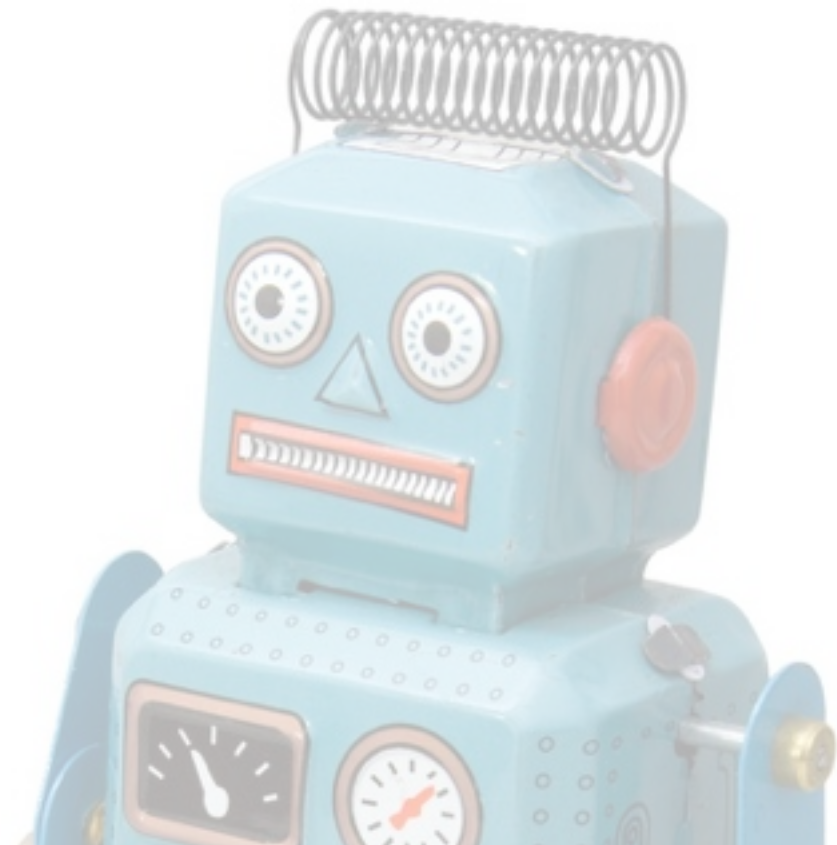
```
1  *** Settings ***
2  Library           Selenium2Library
3
4  *** Testcases ****
5  Valid login
6      Goto login page
7      Fill in username      demo
8      Fill in password      mode
9      Close Browser
10
11 Invalid login with wrong password
12     Goto login page
13     Fill in username      demo
14     Fill in password      xxxx
15     Close Browser
16
```



Setup and Teardown

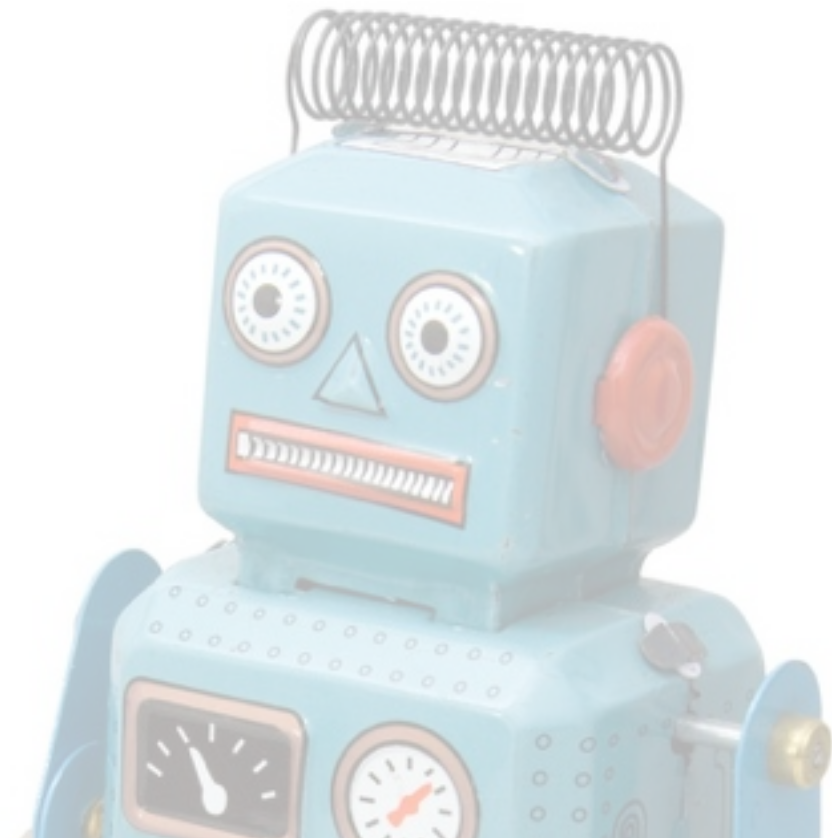
- After

```
1  *** Settings ***
2  Library           Selenium2Library
3
4  Test Setup        Goto login page
5  Test Teardown     Close Browser
6
7  *** Testcases ****
8  Valid login
9      Fill in username    demo
10     Fill in password    mode
11
12  Invalid login with wrong password
13     Fill in username    demo
14     Fill in password    xxxx
15
```



Resource file

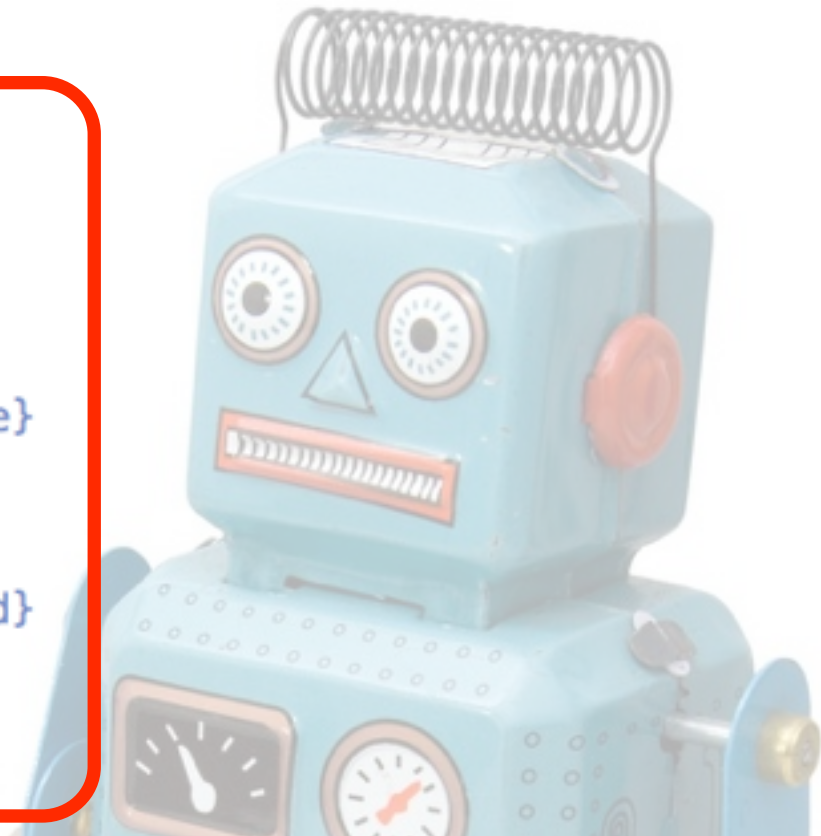
- Use Resources file in settings section
 - For re-use
 - Settings
 - Variable
 - Keywords



Resource file

- Before

```
1  *** Settings ***
2  Library           Selenium2Library
3
4  *** Variables ***
5  ${LOGIN_URL}      http://localhost:7272/html
6  ${WELCOME_URL}    ${LOGIN_URL}/welcome.html
7
8
9  *** Testcases ***
10 Valid Login
11     Open the login page
12     Fill in username    demo
13     Fill in password    mode
14     Submit data to system
15     Welcome page should be open
16     Close Browser
17
18 *** Keywords ***
19 Open the login page
20     Open Browser    ${LOGIN_URL}
21
22 Fill in username
23     [Arguments]    ${username}
24     Input Text      username_field    ${username}
25
26 Fill in password
27     [Arguments]    ${password}
28     Input Text      password_field    ${password}
29
30 Submit data to system
31     Click Button    login_button
```



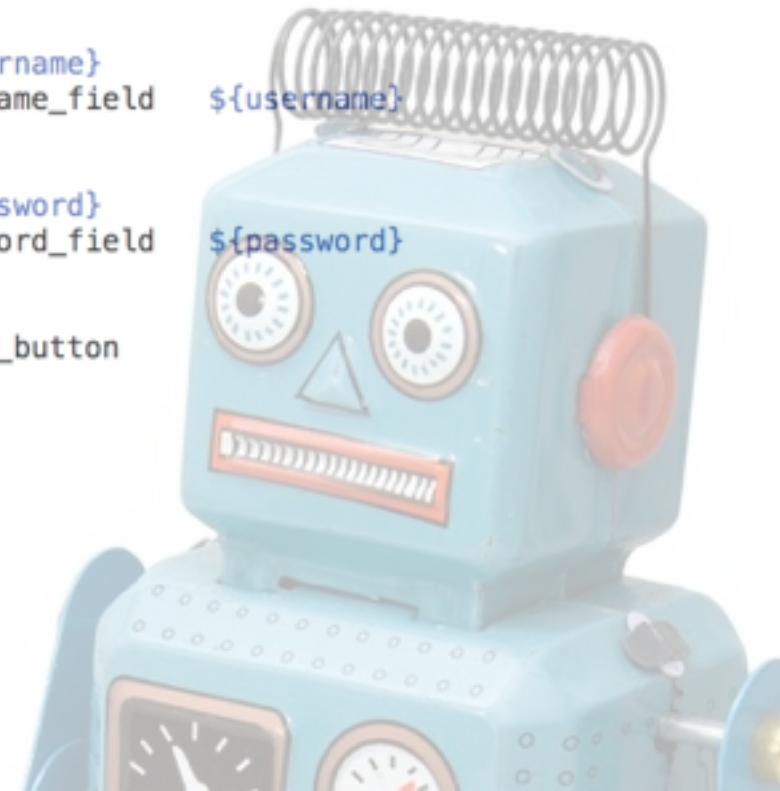
Resource file

- After

09_resource.txt

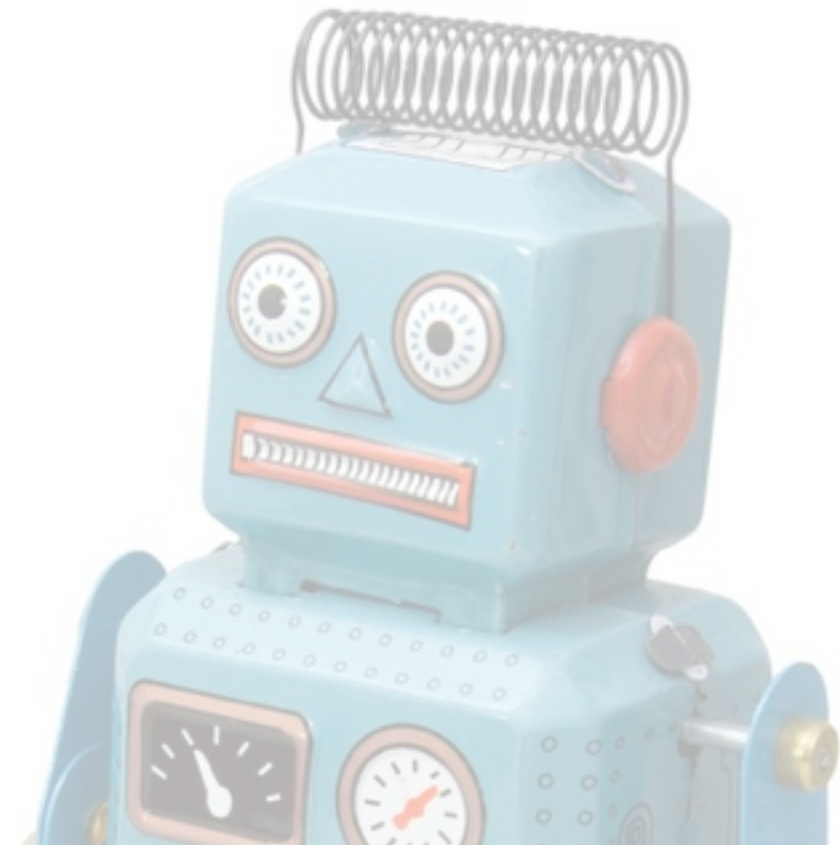
```
1 *** Settings ***
2 Resource      09_resource.txt
3
4 *** Testcases ***
5 Valid Login
6     Open the login page
7     Fill in username      demo
8     Fill in password      mode
9     Submit data to system
10    Welcome page should be open
11    Close Browser
```

```
1 *** Settings ***
2 Library      Selenium2Library
3
4 *** Variables ***
5 ${LOGIN_URL}    http://localhost:7272/html
6 ${WELCOME_URL}  ${LOGIN_URL}/welcome.html
7 ${ERROR_URL}   ${LOGIN_URL}/error.html
8
9 *** Keywords ***
10 Open the login page
11     Open Browser    ${LOGIN_URL}
12     Maximize Browser Window
13     Set Selenium Speed    0
14
15 Go to login page
16     Go TO    ${LOGIN_URL}
17
18 Fill in username
19     [Arguments]    ${username}
20     Input Text      username_field    ${username}
21
22 Fill in password
23     [Arguments]    ${password}
24     Input Text      password_field    ${password}
25
26 Submit data to system
27     Click Button    login_button
28
```



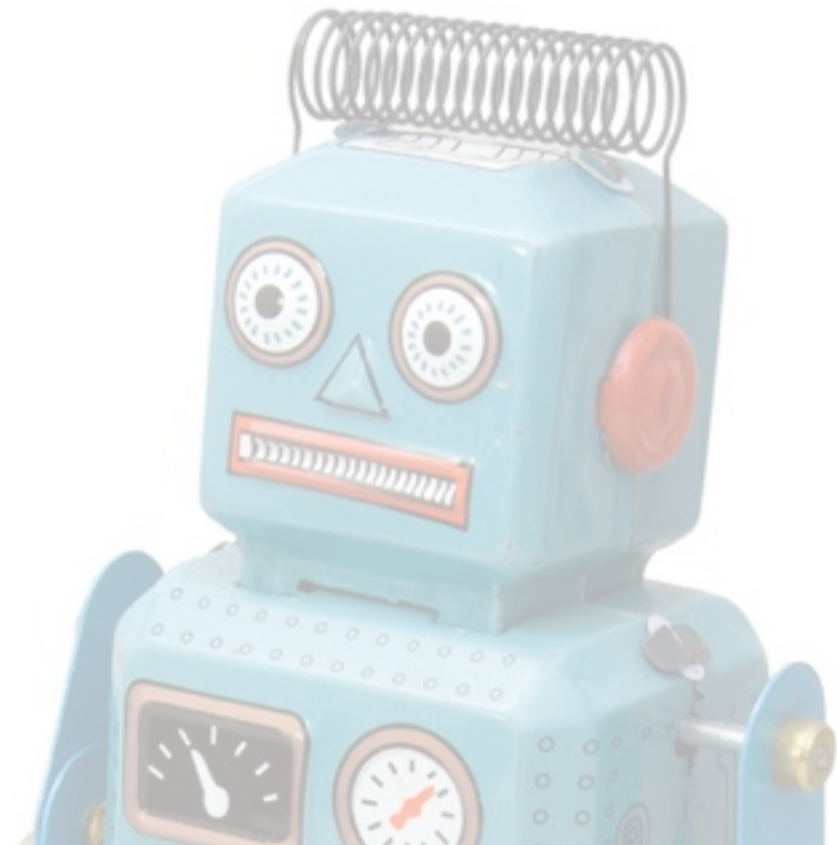
Tagging

```
1  *** Settings ***
2  Library           Selenium2Library
3
4  Force Tags        FunctionalTest
5  Default Tags      ValidTest
6
7  *** Testcases ***
8  Valid login
9      Goto login page
10     Fill in username      demo
11     Fill in password      mode
12
13 Invalid login with wrong password
14     [Tags]      InvalidTest
15     Goto login page
16     Fill in username      demo
17     Fill in password      xxxx
18
```



Tagging

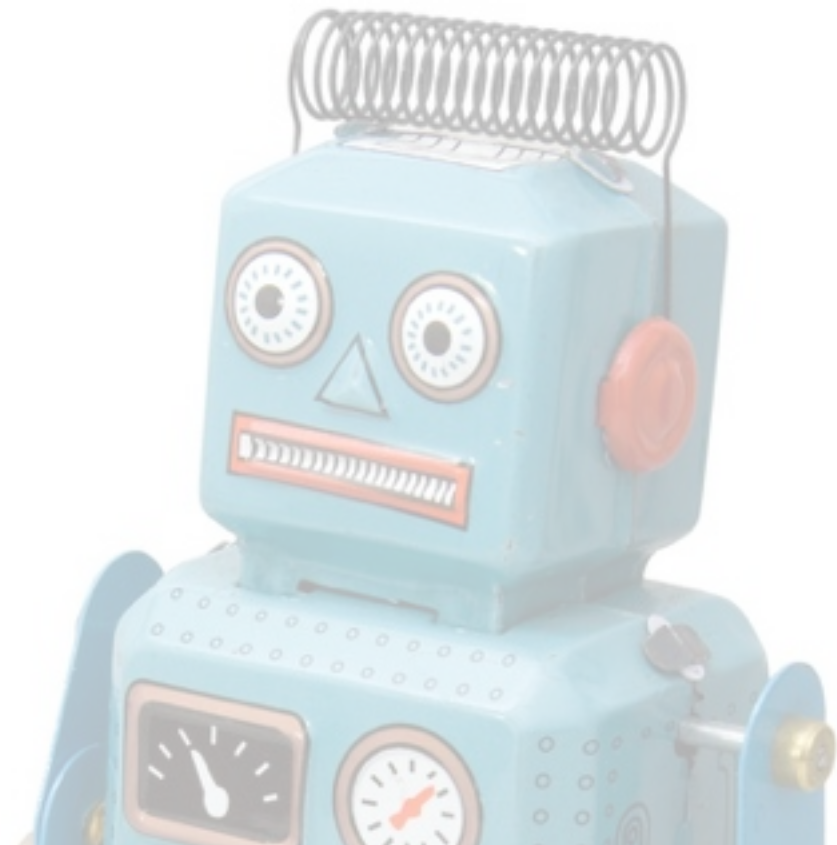
- Run test case with specified tags
- Run only **ValidTest**
Include with tag
 - \$pybot **-i ValidTest** mytest.txt
- Run only **InvalidTest**
 - \$pybot -i ValidTest mytest.txt
- Run with **FunctionalTest**
 - \$pybot **-i FunctionalTest** mytest.txt



Tagging

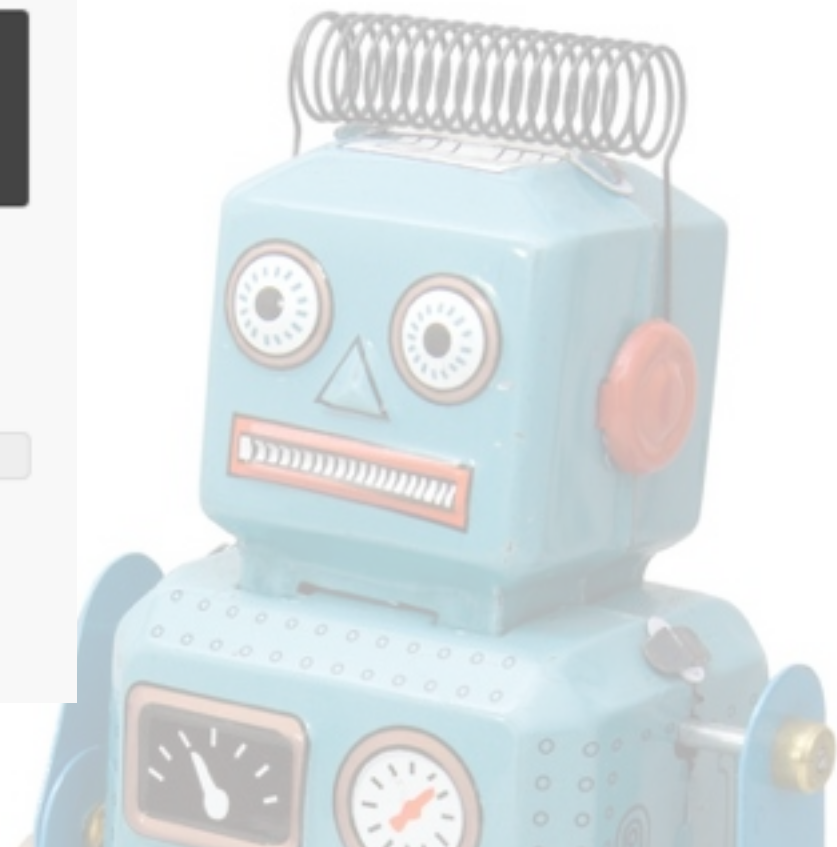
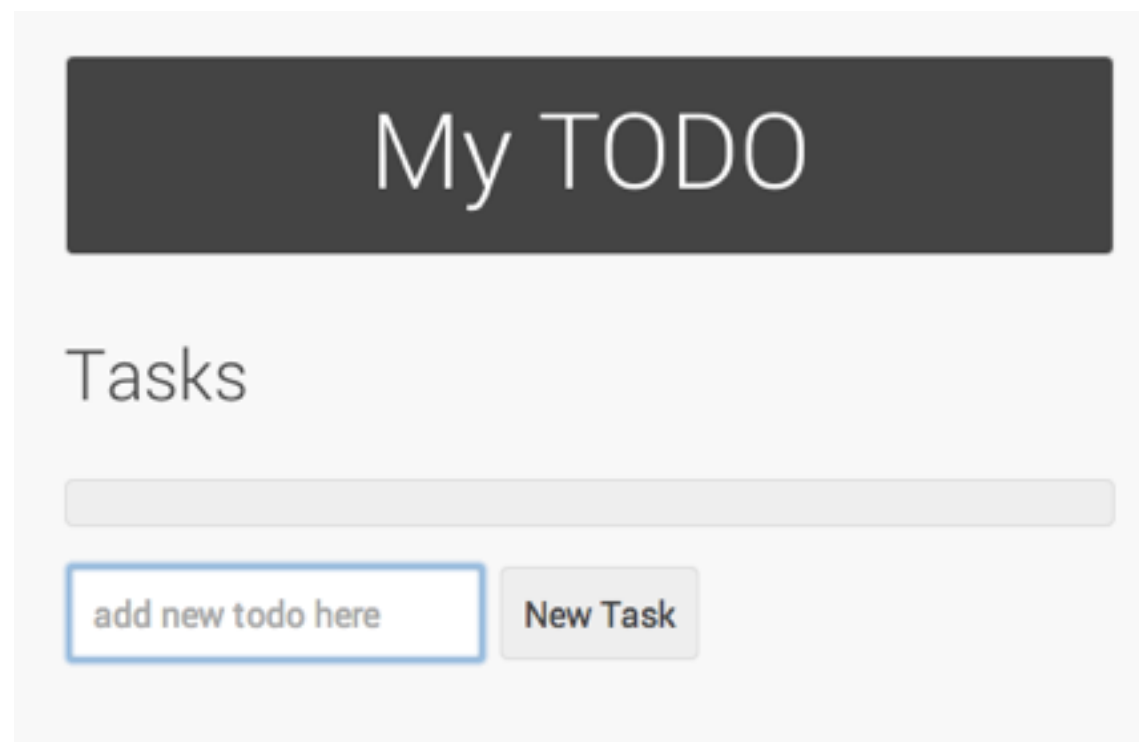
- Run test case with specified tags
- Not run **ValidTest** tag
- \$spybot **-e ValidTest** mytest.txt

Exclude with tag

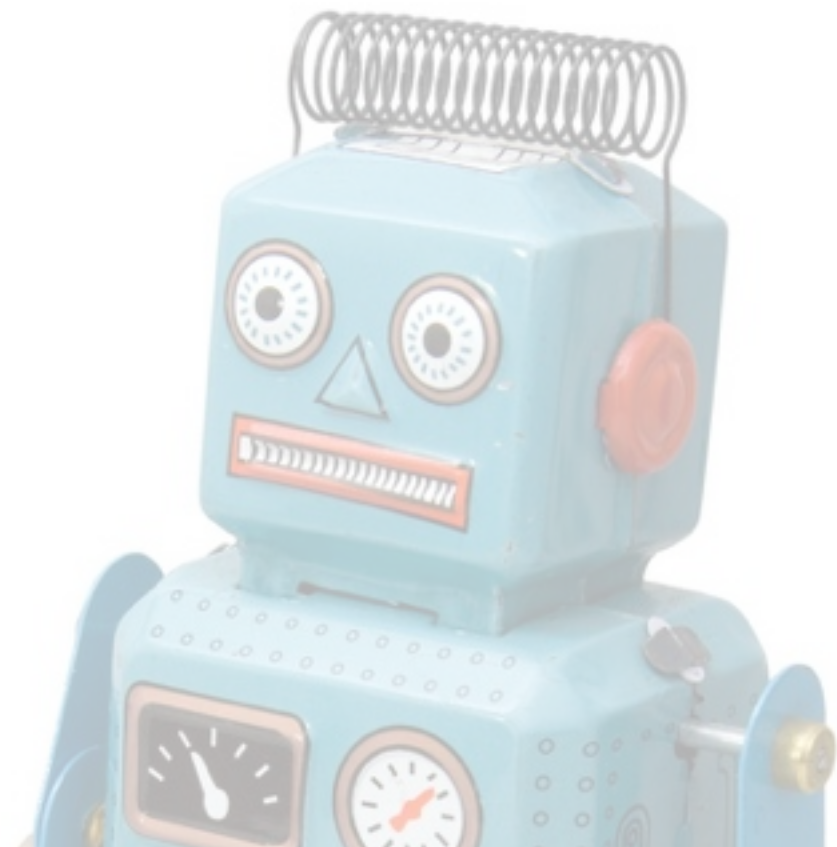


Workshop

- Create test case with Robot Framework
 - TODO Application
 - <http://up1todo.appspot.com/>



Demo



Question ?

