

#### Create your own Library









## Hello library



#### Create file hello.robot

```
*** Settings ***
Library HelloLibrary.py
```

```
*** Testcases ***
Testcase 01
Say Hi somkiat
```

```
Testcase 02
Say Hi somkiat
Result Should Be Hi, somkiat
```



#### Run with robot

#### \$pybot hello.robot



#### Create file HelloLibrary.py

```
class HelloLibrary:
    def ___init__(self):
        self. result = ''
    def say_hi(self, name):
        print('Hi, %s' % name)
        self._result = 'Hi, %s' % name
    def result_should_be(self, expected):
        if self._result != expected:
            raise AssertionError('%s != %s' % (self._result,
expected))
```



#### Create file HelloLibrary.py

```
class HelloLibrary:
    def init (self):
        self. result = ''
    def say_hi(self, name):
        print('Hi, %s' % name)
        self._result = 'Hi, %s' % name
    def result_should_be(self, expected):
        if self._result != expected:
            raise AssertionError('%s != %s' % (self. result,
expected))
```



#### Run with robot

#### \$pybot hello.robot

Hello	
Testcase 01	PASS
Testcase 02	PASS
Hello 2 critical tests, 2 passed, 0 failed 2 tests total, 2 passed, 0 failed	PASS



# Show log message in console



## Show log message in console

```
class HelloLibrary:
    def ___init__(self):
        self. result = ''
    def say_hi(self, name):
        print('Hi, %s' % name)
        self. result = 'Hi, %s' % name
    def result_should_be(self, expected):
        if self._result != expected:
            raise AssertionError('%s != %s' % (self. result,
expected))
```



## Show log message in console

```
from robot.api import logger

class HelloLibrary:

   def say_hi(self, name):
        self._hello.set_name(name)

logger.console('Say hi with %s' %(name))
```

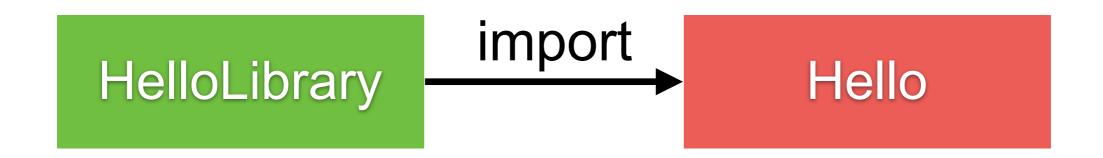
https://github.com/robotframework/robotframework



# Separate logic from library file



## Separate logic from library file





#### Create file Hello.py

```
class Hello:
    def __init__(self):
        self._result = ''

    def set_name(self, name):
        self._name = name

    def get_result(self):
        return 'Hi, %s' %(self._name)
```



#### Update file HelloLibrary.py

```
from hello import Hello
```

#### class **HelloLibrary**:

```
def __init__(self):
    self._hello = Hello()
    self._result = ''
```

```
def say_hi(self, name):
    self._hello.set_name(name)
```

```
def result_should_be(self, expected):
    if self._hello.get_result() != expected:
        raise AssertionError('%s != %s' %
    (self._result, expected))
```



#### Update file HelloLibrary.py

```
from hello import Hello
```

#### class **HelloLibrary**:

```
def __init__(self):
    self._hello = Hello()
    self._result = ''
```

```
def say_hi(self, name):
    self._hello.set_name(name)
```

```
def result_should_be(self, expected):
    if self._hello.get_result() != expected:
        raise AssertionError('%s != %s' %
(self._result, expected))
```



#### Update file HelloLibrary.py

from hello import Hello

#### class **HelloLibrary**:

```
def __init__(self):
    self._hello = Hello()
    self._result = ''

def say_hi(self, name):
    self._hello.set_name(name)
```

```
def result_should_be(self, expected):
    if self._hello.get_result() != expected:
        raise AssertionError('%s != %s' %
(self._result, expected))
```



#### Run with robot

#### \$pybot hello.robot

Hello	
Testcase 01	PASS
Testcase 02	PASS
Hello 2 critical tests, 2 passed, 0 failed 2 tests total, 2 passed, 0 failed	PASS



## Improve name of library



#### Create file hello.robot

```
*** Settings ***
Library HelloLibrary
```

```
*** Testcases ***
Testcase 01
Say Hi somkiat
```

```
Testcase 02
Say Hi somkiat
Result Should Be Hi, somkiat
```



#### Run with robot

#### \$pybot hello.robot

```
[ ERROR ] Error in file '/Users/somkiat/data/slide/robot-framework/adva
nce-robot-course/workshop/hello/hello.robot': Importing test library 'H
elloLibrary' failed: ModuleNotFoundError: No module named 'HelloLibrary
Traceback (most recent call last):
 None
PYTHONPATH:
 /usr/local/Cellar/robot-framework/3.0.2_1/libexec/bin
 /usr/local/Cellar/python/3.6.4_3/Frameworks/Python.framework/Versions
/3.6/lib/python36.zip
 /usr/local/Cellar/python/3.6.4_3/Frameworks/Python.framework/Versions
/3.6/lib/python3.6
 /usr/local/Cellar/python/3.6.4_3/Frameworks/Python.framework/Versions
/3.6/lib/python3.6/lib-dynload
```



## Run robot with PythonPath

\$pybot -P . hello.robot

Hello	
Testcase 01	PASS
Testcase 02	PASS
Hello 2 critical tests, 2 passed, 0 failed 2 tests total, 2 passed, 0 failed ====================================	PASS



# Custom name of keyword



## Change name of keyword

```
from robot.api.deco import keyword

class HelloLibrary:

@keyword('Try to say hi with')
def say_hi(self, name):
```



### Use new keyword

```
*** Settings ***
Library HelloLibrary.py
```

```
*** Testcases ***
Testcase 01
Try to say hi with somkiat
```

```
Testcase 02

Try to say hi with somkiat

Result Should Be Hi, somkiat
```



## Run robot again

\$pybot -P . hello.robot

Hello	=======================================
Testcase 01	PASS
Testcase 02	PASS
Hello 2 critical tests, 2 passed, 0 failed 2 tests total, 2 passed, 0 failed	PASS



## Default value of keyword



## Default value of keyword

```
def say_hi2(self, name='no name 1', name2='no name 2'):
    self._hello.set_name(name)
```



## Default value of keyword

```
Library HelloLibrary.py

*** Testcases ***

Testcase 03
    Say Hi2
    Say Hi2    name1
    Say Hi2    name1    name2
    Say Hi2    name2=name2
    Say Hi2    name=name1
    Say Hi2    name=name1
    Say Hi2    name2=name2    name=name1
```

\*\*\* Settings \*\*\*



## Free style keyword



#### Free style keyword

```
def say_hi_all(self, **names):
    for name, value in names.items():
        print('%s = %s' % (name, value))
```



## Free style keyword

```
*** Settings ***
Library HelloLibrary.py
```

\*\*\* Testcases \*\*\*

Testcase 03

Say Hi All key=value name=somkiat age=30



## Add document to library



### Add document of library

from hello import Hello

```
class HelloLibrary:
""" Hello Library to *Hello* with name

Calling from ``set_name`` method
```



#### Add document of methods



#### Add document of methods



http://robotframework.org/robotframework/latest/RobotFrameworkUserGuide.html#libdoc



\$python -m robot.libdoc -P . HelloLibrary HelloLibrary.html



#### **HelloLibrary**

Library scope: test case
Named arguments: supported

#### Introduction

Hello Library to **Hello** with name Calling from set name method

#### **Shortcuts**

 ${f R}$ esult Should Be  $\cdot$   ${f S}$ ay Hi

#### **Keywords**

Keyword	Arguments	Documentation
Result Should Be	expected	Verifies that the current result is expected.
		Examples:
		Result Should Be Hi, name 1 Result Should Be Hi, name 2
Say Hi	name	Say hi with name
		Examples:
		Say hi name 1 Say hi name 2

Altogether 2 keywords.

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http://robotframework.org/robotframework/latest/RobotFrameworkUserGuide.html#libdoc



### Need more Knowledges

Basic of Python
Object-Oriented Programming

