



# SELENIUM

CHUNG-MIN ALEX LI

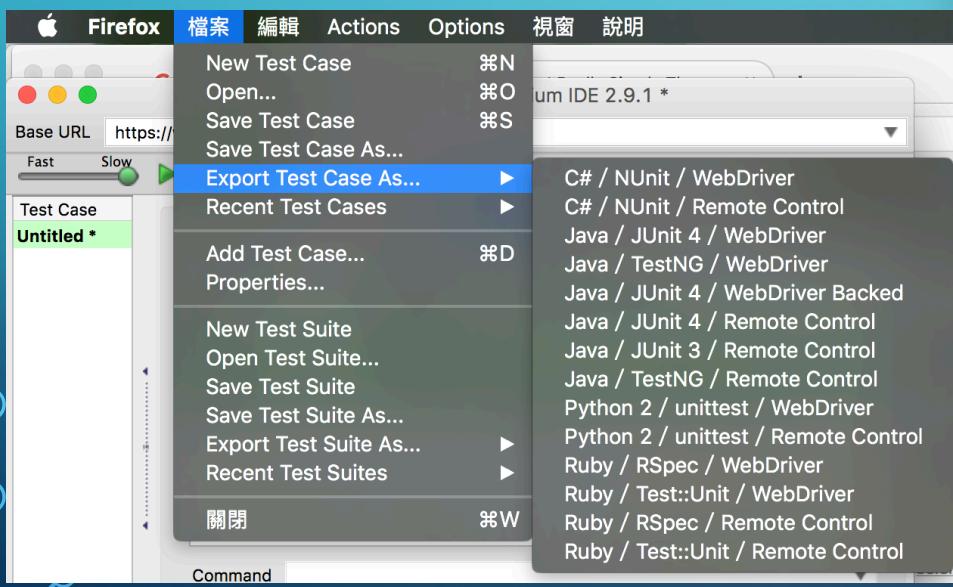
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# WHAT IS SELENIUM

- Selenium automates browsers
  - it is for automating web applications for testing purposes
- Part of Selenium
  - Selenium WebDriver
  - Selenium IDE
- <http://www.seleniumhq.org>

# EXAMPLE

- Selenium IDE



A screenshot of the Selenium IDE test case editor titled "Untitled (untitled suite) - Selenium IDE 2.9.1". The base URL is set to "https://www.google.com.tw/". The test case is named "Untitled \*". The table view shows the following commands:

Command	Target	Value
open	/?gfe_rd=cr&ei=AC5QWJvGG...	
type	id=lst-ib	SRL
click	name=btnK	
assertText	link=SRL - Wikipedia	SRL - Wikipedia

The status bar indicates "Runs: 1" and "Failures: 0". The log panel at the bottom shows the following entries:

```
[info] Executing: |open| /?gfe_rd=cr&ei=AC5QWJvGGZCC9AXsq5uADg |||
[info] Executing: |type| id=lst-ib | SRL |
[info] Executing: |click| name=btnK |||
[info] Executing: |assertText| link=SRL - Wikipedia | SRL - Wikipedia |
[info] Test case passed
```

# EXAMPLE

- Selenium WebDriver

```
10 class Test(unittest.TestCase):
11     def setUp(self):
12         #self.driver = webdriver.Firefox()
13         self.driver = webdriver.Chrome('./chromedriver')
14         self.driver.implicitly_wait(30)
15         self.base_url = "https://www.google.com.tw/"
16         selfverificationErrors = []
17         self.accept_next_alert = True
18
19     def test_(self):
20         driver = self.driver
21         driver.get(self.base_url + "/?gfe_rd=cr&ei=AC5QWJvGGZCC9AXsq5uADg")
22         driver.find_element_by_id("lst-ib").clear()
23         driver.find_element_by_id("lst-ib").send_keys("SRL")
24         driver.find_element_by_name("btnK").click()
25         self.assertEqual("SRL - Wikipedia", driver.find_element_by_link_text("SRL - Wikipedia").text)
26
```

```
[cmlj@VAL-MBP:~/Desktop/PRG/swTest/proj3_selenium]% apy test.py
.
-----
Ran 1 test in 7.186s
OK
```

## EXAMPLE

- Link counting

```
1 # coding: utf-8
2 import bs4
3 url='http://www.cwb.gov.tw/V7/index.htm'
4 from urllib.request import urlopen
5 soup = bs4.BeautifulSoup(urlopen(url), 'lxml')
6 link = soup.findAll('a', href=True)
7 for i in link:
8     print(i.string)
9 print("Total Link: {}".format(len(link)))
```



Thank you