selenide_in_2h.py

AUTOMICIAN

@yashaka

10.2021

Agenda

Raw Library (Selenium) VS Wrapper

Selenide Style

When and Why?

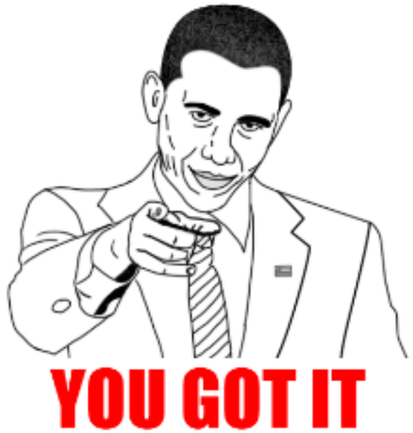
Q&A

Preface

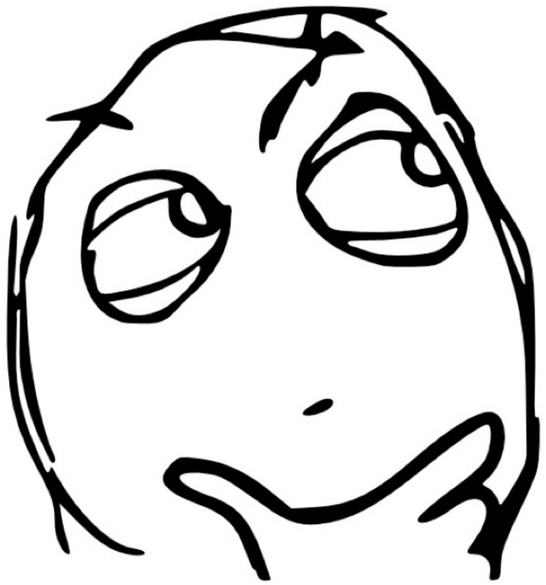
There are good practices **in context**,

but there are no best practices.

(c) Cem Kaner, James Bach

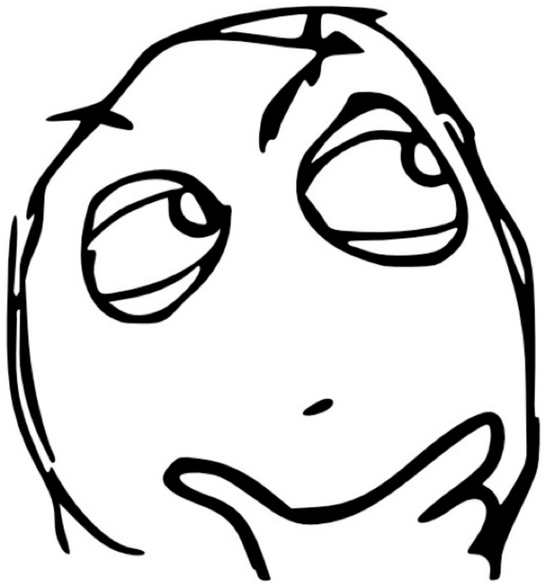


… context ?



System Web UI Tests Automation

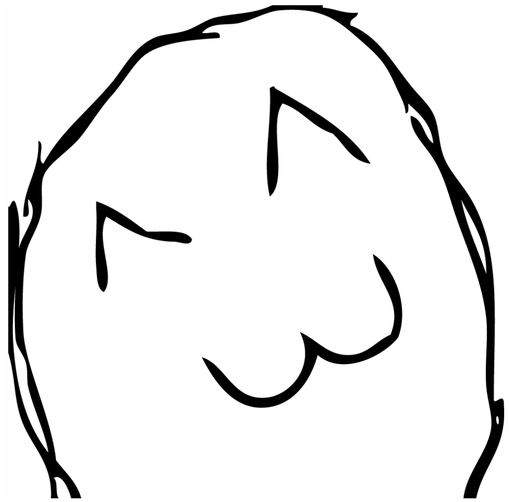
Tool???



System
Web UI

Tests

Automation



implicit waits
dynamic elements

assertion matchers
errors, logs

selectors ++

Agenda

Raw Library (Selenium) VS Wrapper ?

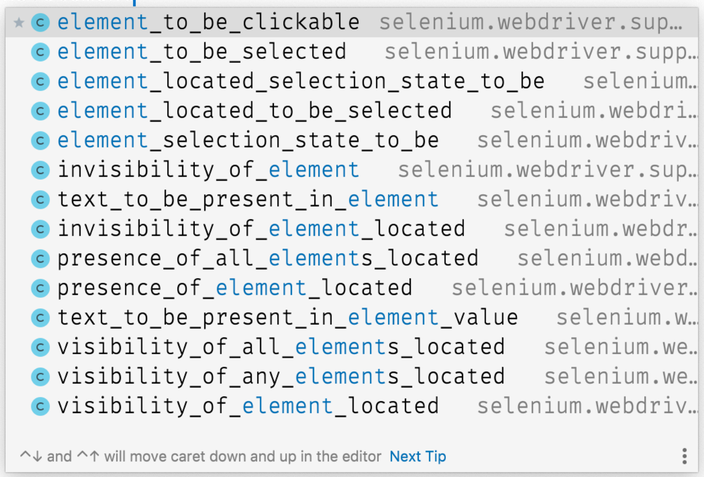
Selenide Style

When and Why?

Q&A

ElementNotVisibleException
ElementNotInteractableException
StaleElementReferenceException
...
PageObjects limited to **By.*** or **@FindBy** in Java

```
# limited to
expected_conditions.element
```



VS
?

implicit waits
dynamic elements

assertion matchers
clear errors, logs

```
driver.find_element_by_xpath(
    "//*[@test-id='item']//a[contains(text(), 'selenide.org')]"
)
```

selectors ++

site-packages 〉 selenium 〉 webdriver 〉 support 〉 wait.py

debug_demo

wait.py

WebDriverWait 〉 until()

```
62  *     def until(self, method, message=''):
63            """Calls the method provided with the driver as an argument until the \
64            return value is not False."""
65            screen = None
66            stacktrace = None
67
68            end_time = time.time() + self._timeout
69            while True:
70                try:
71                    value = method(self._driver)
72                    if value:
73                        return value
74                except self._ignored_exceptions as exc:
75                    screen = getattr(exc, 'screen', None)          # ←
76                    stacktrace = getattr(exc, 'stacktrace', None)  # ←
77                    #                                              # ← where is message o_O ?
78                time.sleep(self._poll)
79                if time.time() > end_time:
80                    break
81            raise TimeoutException(message, screen, stacktrace)
82
```

clear errors o_O ?

Agenda

Wrapper !

Selenide Style

When and Why?

Q&A

Agenda

Wrapper !

Selenide Style ?

When and Why?

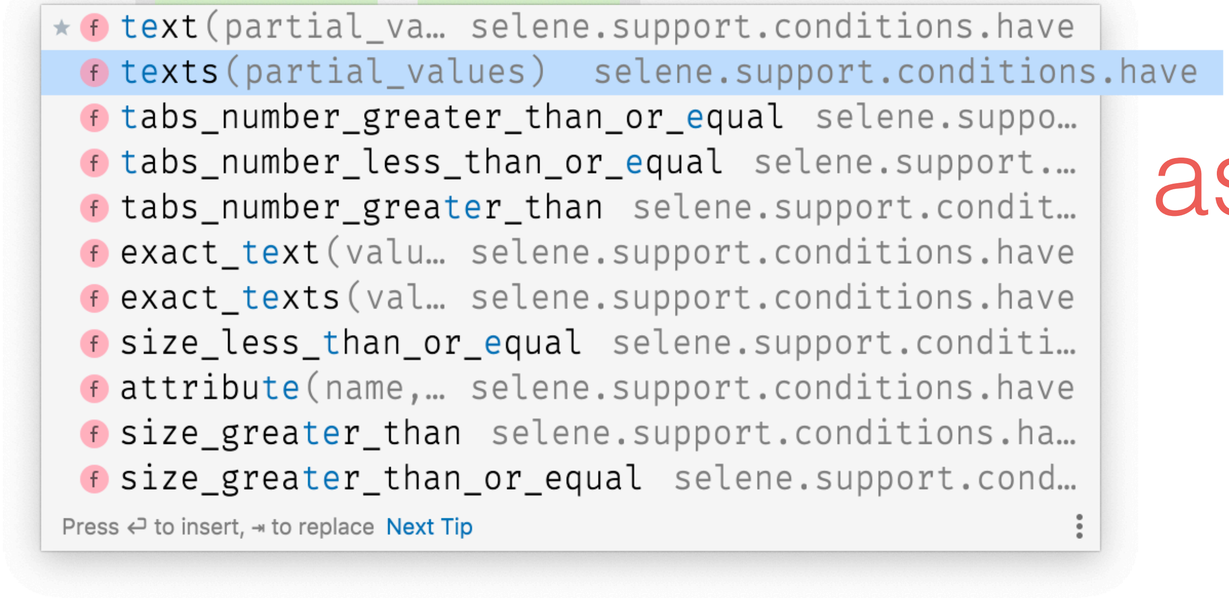
Q&A

```
new_todo = browser.element("#new-todo")
todos = browser.all("#todo-list>li")

browser.open("http://todomvc.com/examples/emberjs/")

new_todo.type("give talk").press_enter()
new_todo.type("have fun").press_enter()

todos.should(have.te("give talk", "have fun"))
```




```
(
    browser.all("#todo-list>li")
           .filtered_by(have.text("give talk"))
           .element(".toggle")
           .click()
)
```

lazy, dynamic elements

implicit waits

assertion matchers

selectors ++

Agenda

Wrapper !

SelenIDe Style ?

When and Why?

Q&A

```
var newTodo = $("#new-todo");
var todos = $$("#todo-list>li");

open("http://todomvc.com/examples/emberjs/");

newTodo.append("give talk").pressEnter();
newTodo.append("have fun").pressEnter();

todos.shouldHave(te("give talk", "have fun"));
```

```
CollectionCondition.texts   CollectionConditi…
CollectionCondition.textsInAnyOrder   Collect…
CollectionCondition.texts   CollectionConditi…
CollectionCondition.textsInAnyOrder   Collect…
CollectionCondition.exactTexts   CollectionCo…
CollectionCondition.containExactTextsCaseSe…
CollectionCondition.exactTextsCaseSensitive…
CollectionCondition.exactTexts   CollectionCo…
CollectionCondition.containExactTextsCaseSe…
CollectionCondition.exactTextsCaseSensitive…
CollectionCondition.sizeLessThanOrEqual   Col…
Selenide.executeAsyncJavaScript(String js   T
Press ^⇧Space to show only variants that are suitable by type  Next Tip
```

```
$$("#todo-list>li")
        .filter(text("give talk"))
        .$(".toggle")
        .click();
```

lazy, dynamic elements

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Wrapper !

Selenides Style …

Why & When?

Q&A

Opensource vs Bicycle

redundant

opinionated

missing/compromises

delayed

bugs/deprecations

clean

&

tuned

shit-code +

RnD friendly:p

Opensource

simple/routine/common case

limited senior resources

short-term easiness matters

outer scale

←

arguments

→

Bicycle

complex/integrations/unique domain

skilled team

long-term easiness matters
(simple made easy 🔗)

at most inner scale

Agenda

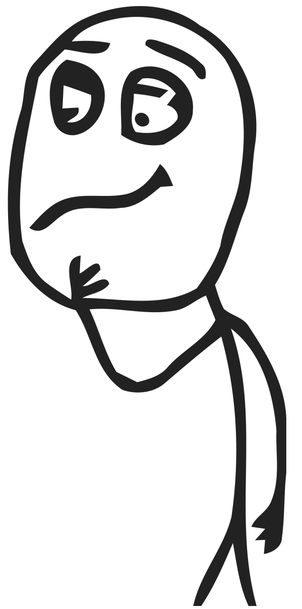
Wrapper !

Selenides Style …

Workshop

Q&A

Q&A



Thank you!

yashaka @

more questions, materials, etc?

↓

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