selenide_in_2h.py



Raw Library (Selenium) VS Wrapper

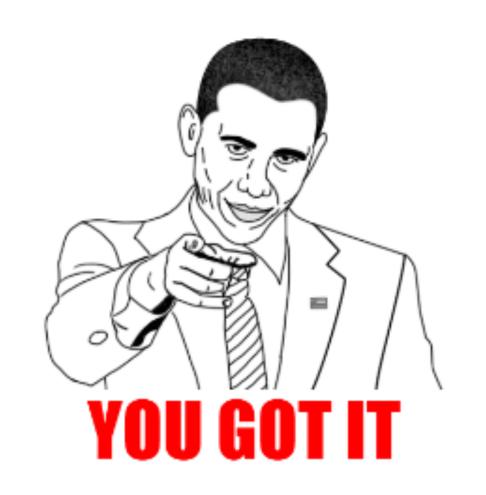
Selenide Style

When and Why?

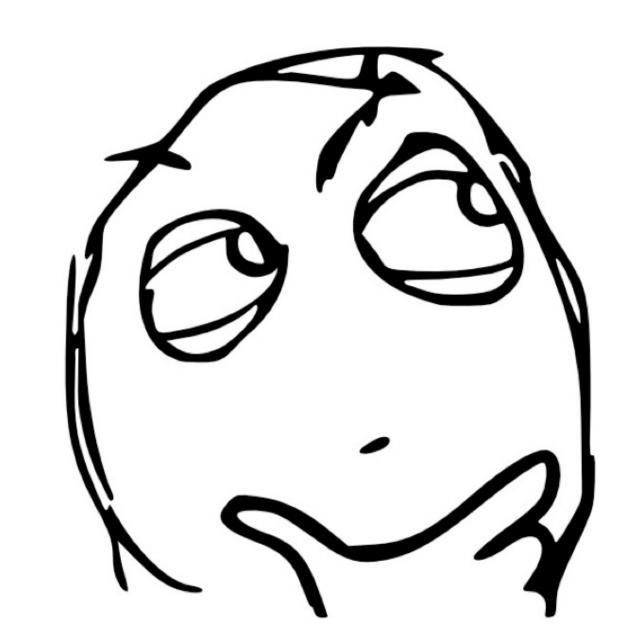
Preface

There are good practices in context, but there are no best practices.

(c) Cem Kaner, James Bach

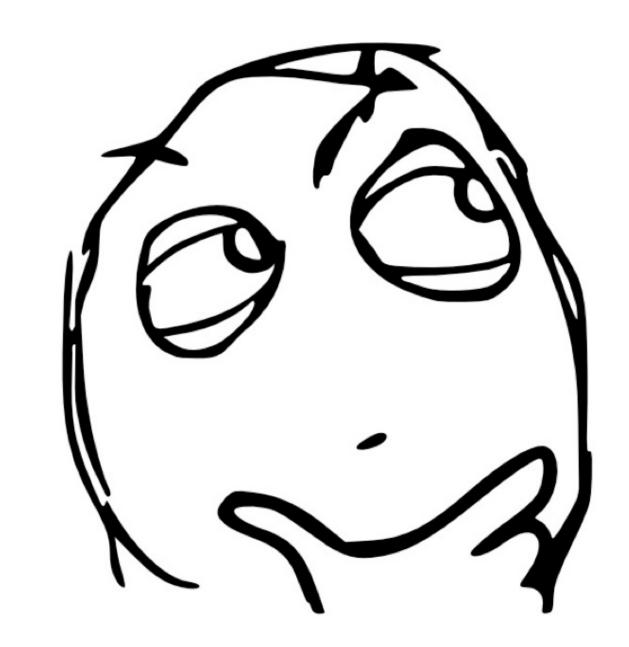


... context?



System Web UI Tests Automation

Tool???



System Web UI

Tests



implicit waits dynamic elements

assertion matchers errors, logs

Automation

Raw Library (Selenium) VS Wrapper?

Selenide Style

When and Why?



ElementNotVisibleException ElementNotInteractableException StaleElementReferenceException

. . .

PageObjects limited to By.* or @FindBy in Java

limited to expected_conditions.element

```
★ c element_to_be_clickable selenium.webdriver.sup...
 c element_to_be_selected selenium.webdriver.supp...
 c element_located_selection_state_to_be selenium...
 c element_located_to_be_selected selenium.webdri..
 c element_selection_state_to_be    selenium.webdriv...
 c invisibility_of_element selenium.webdriver.sup...
 o invisibility_of_element_located selenium.webdr..
presence_of_all_elements_located selenium.webd..
 c presence_of_element_located selenium.webdriver..
 c text_to_be_present_in_element_value selenium.w...
 o visibility_of_all_elements_located
                                      selenium.we.
 o visibility_of_any_elements_located selenium.we..
 o visibility_of_element_located selenium.webdriv...
^↓ and ^↑ will move caret down and up in the editor Next Tip
```

VS

?

implicit waits dynamic elements

assertion matchers clear errors, logs

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

```
site-packages > selenium > webdriver > support > 💤 wait.py
                                                                                                debug_demo ▼
wait.py X
       WebDriverWait > until()
OT
           def until(self, method, message=''):
               """Calls the method provided with the driver as an argument until the \setminus
63
               return value is not False."""
64
65
               screen = None
               stacktrace = None
66
67
               end_time = time.time() + self._timeout
68
               while True:
69
70
                   try:
                       value = method(self._driver)
71
                                                                   clear errors o 0?
                        if value:
                            return value
73
                    except self._ignored_exceptions as exc:
74
                        screen = getattr(exc, 'screen', None)
                                                                          # ←
75
                        stacktrace = getattr(exc, 'stacktrace', None)
76
                        #
                                                                          # ← where is message o_0 ?
                   time.sleep(self._poll)
78
                    if time.time() > end_time:
79
80
                        break
               raise TimeoutException(message, screen, stacktrace)
81
```

Wrapper!

Selenide Style

When and Why?

Wrapper!

Selenide Style?

When and Why?

```
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"))
                * f text(partial_va... selene.support.conditions.have
                  f texts(partial_values) selene.support.conditions.have
                  f tabs_number_greater_than_or_equal selene.suppo...
                  f tabs_number_less_than_or_equal selene.support....
                  fo tabs_number_greater_than selene.support.condit...
                  f exact_text(valu... selene.support.conditions.have
                  f exact_texts(val... selene.support.conditions.have
                  f size_less_than_or_equal selene.support.conditi...
                  f attribute(name, ... selene.support.conditions.have
                  f size_greater_than selene.support.conditions.ha...
                  f size_greater_than_or_equal selene.support.cond...
                 Press ← to insert, → to replace Next Tip
```

lazy, dynamic elements

implicit waits

assertion matchers

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

Wrapper!

SeleniDe Style?

When and Why?

```
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

@ CollectionCondition.textsInAnyOrder Collect...

@ CollectionCondition.exactTexts CollectionCo...

               CollectionCondition.containExactTextsCaseSe...
               CollectionCondition.exactTextsCaseSensitive...

@ CollectionCondition.exactTexts CollectionCo...

               CollectionCondition.containExactTextsCaseSe...
               CollectionCondition.exactTextsCaseSensitive...
               CollectionCondition.sizeLessThanOrEqual Col...
               - Salanida avacuta/sunclavaScrint/String is
               Press ^公Space to show only variants that are suitable by type Next Tip
```

lazy, dynamic elements

implicit waits

assertion matchers

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

Wrapper!

Selenides Style ...

Why & When?

Opensource vs

Bicycle

redundant

opinionated

missing/compromises

delayed

bugs/deprecations

clean

&

tuned

shit-code +

RnD friendly:p

Opensource

Bicycle

simple/routine/common case

limited senior resources

short-term easiness matters

outer scale

complex/integrations/unique domain



arguments



skilled team

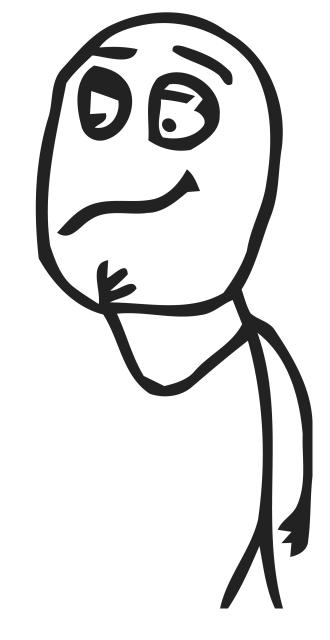
long-term easiness matters (simple made easy (simple made)

at most inner scale

Wrapper!

Selenides Style ...

Workshop



Thank you!



more questions, materials, etc?



t.me/yashaka

