ChetBot Automation API Reference

Version 0.5.0

The ChetBot API provides a simple JavaScript interface to interact with your Android app. It makes use of lazily-evaulated view selectors to allow you to efficiently navigate your UI.

The API uses Rhino under the hood so you can access any Android or Java libraries available in your app.

Device-level operations

home()

Simulate a press of the device's "Home" key

press(key)

Press a key or button on the device. key can be:

- 'enter'
- 'back'
- 'backspace'

screenshot()

Take a screenshot and show it in the test report.

View selectors

"Selectors" can be a view, list of views, a string which corresponds to the text shown by a view or an JavaScript object that matches a number of views.

An object selector can specify one or more attributes:

- text The text displayed on the TextView .
- id The Android ID of the view. Can be specified in its short form (e.g. "password") or its fully namespaced form. (e.g. com.domain.myapp:id/password)
- type The class

Some examples of selectors passed to tap:

- tap('username')
- tap({text: 'username'}) Equilvalent to above
- tap(view('username') Equilvalent to above
- tap(view({text: 'username'})) Equilvalent to above
- tap(topmost('username'))
- tap({id: 'password', type: 'EditText', text: ''}) Finds an empty text field with an id matching *:id/password.
- tap({id: 'com.domain.myapp:id/password', type: 'EditText', text: ''}) Finds an empty text field with an id matching com.domain.myapp:id/password.

topmost(view_selector)

Find the view that's the closest to the top, matching view selector.

bottommost(view_selector)

Find the view that's the closest to the bottom, matching view selector.

leftmost(view_selector)

Find the view that's the closest to the left, matching view_selector.

```
rightmost(view_selector)
```

Find the view that's the closest to the right, matching view selector.

```
centermost(view selector)
```

Find the view that's the closest to the center, matching view_selector.

```
outermost(view_selector)
```

Find the view that's the furthest from the center, matching view selector .

```
location(view selector)
```

Returns a [x, y] pair of the location of the first selected view on the screen.

```
view(view_selector)
```

Selects all views matching view selector .

tap(view_selector)

Tap the center of the selected view.

```
exists(view_selector)
```

Returns true if view selector represents any views, false otherwise.

```
count(view_selector)
```

Returns the number of views represented by view selector.

```
text(view_selector)
```

Returns the text displayed on the first selected view.

```
class_of(view_selector)
```

Returns the class of the first selected view.

```
id(view selector)
```

Returns the fully namespace ID of the first selected view. (e.g. 'com.domain.myapp:id/password')

```
size(view_selector)
```

Returns a [width, height] array of the size of first the selected view in pixels.

wait

```
wait(duration)
```

Wait for the given number of seconds.

Assertions

```
assert_true(value)
```

Throw an error if value is not truthy.

```
assert_false(value)
```

Throw an error if value is truthy.

```
assert_equal(a, b)
```

Throw an error if a is not equivalent (!=) to b.

```
assert_exists(view_selector)
```

Equivalent to assert_true(exists(view_selector)).

Keyboard

```
hide_keyboard()
```

Dismiss the soft keyboard if it is showing

Simulate typing the characters of text on a connected keyboard.