WebDriver API Cheat Sheets

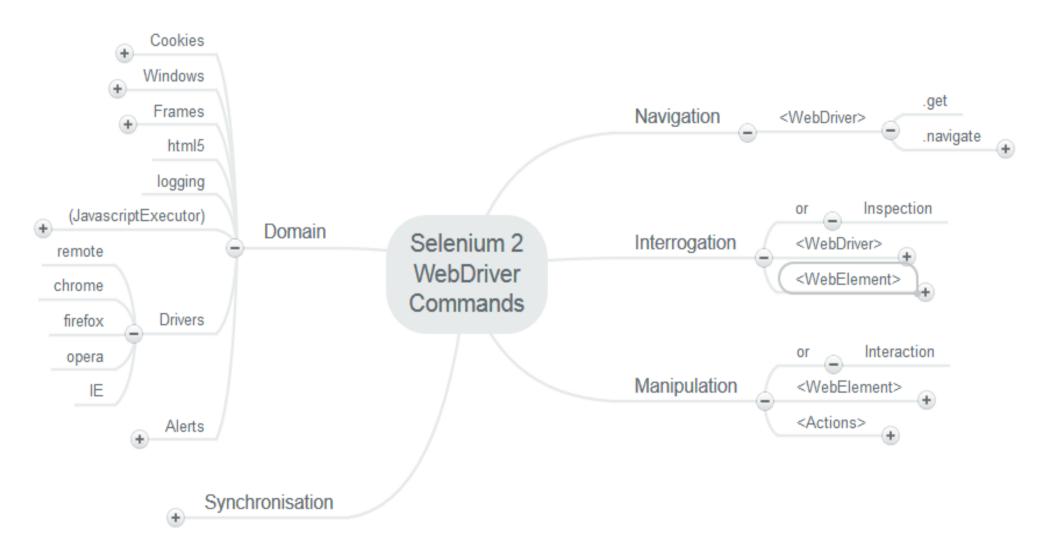
- A short set of Summary Cheat Sheets for Hands On Working With WebDriver
- Contents:
 - Basic API commands
 - Hamcrest matchers & Junit
 - IntelliJ Tips
 - CSS & Xpath Selectors
 - Contact Details

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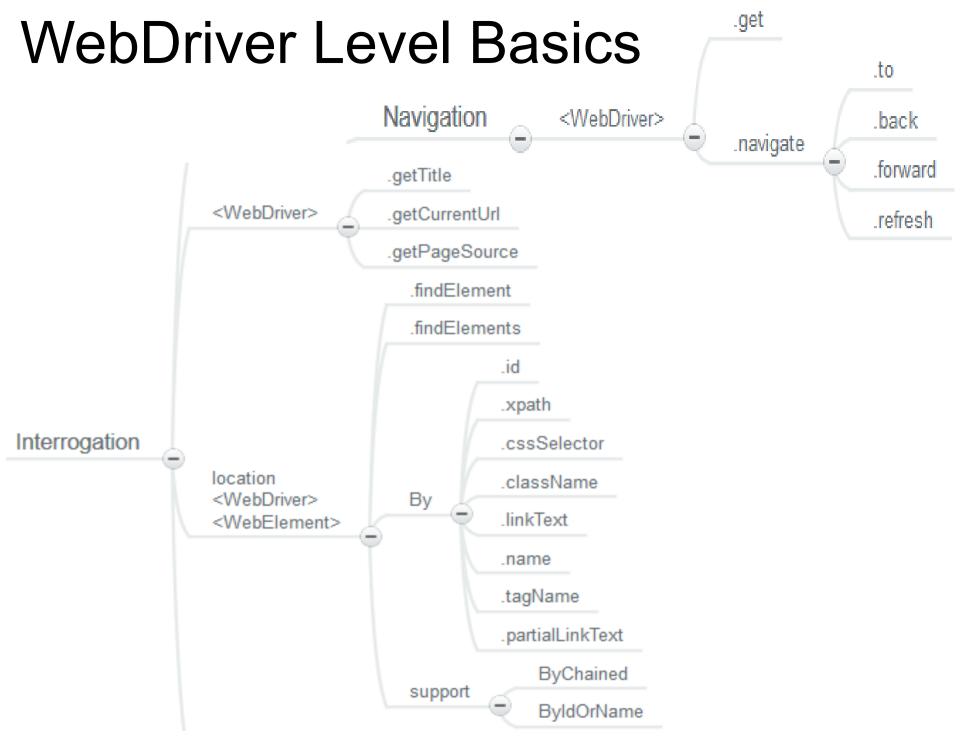
@eviltester

Created to support our Selenium 2 WebDriver Training Courses

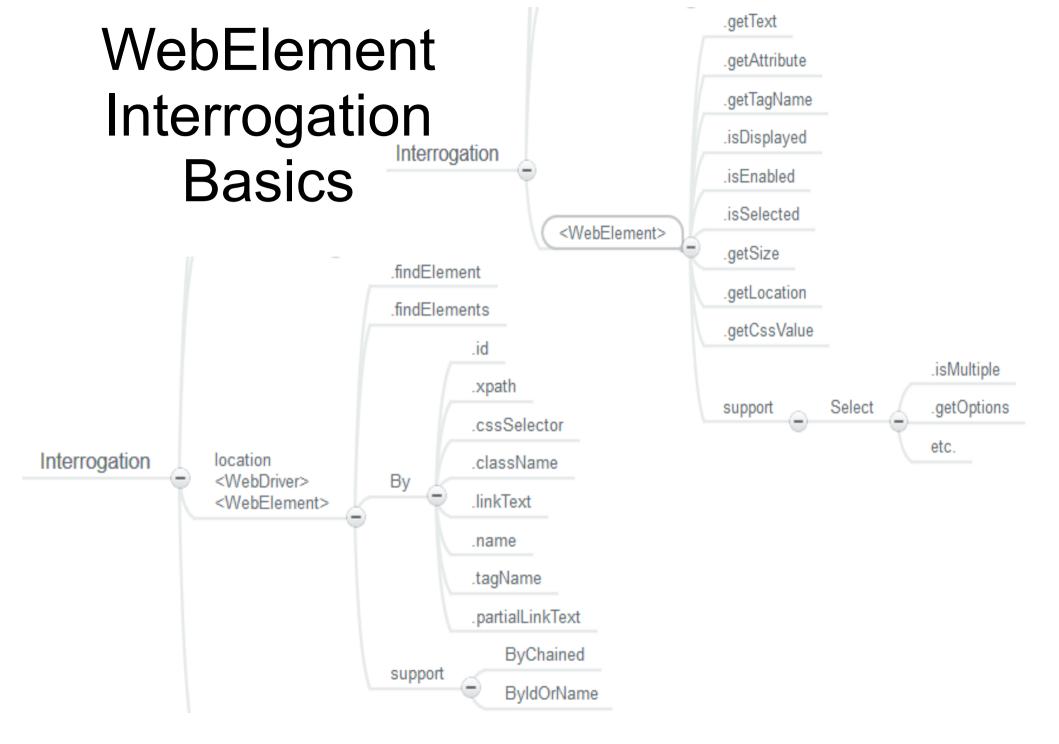
API Overview

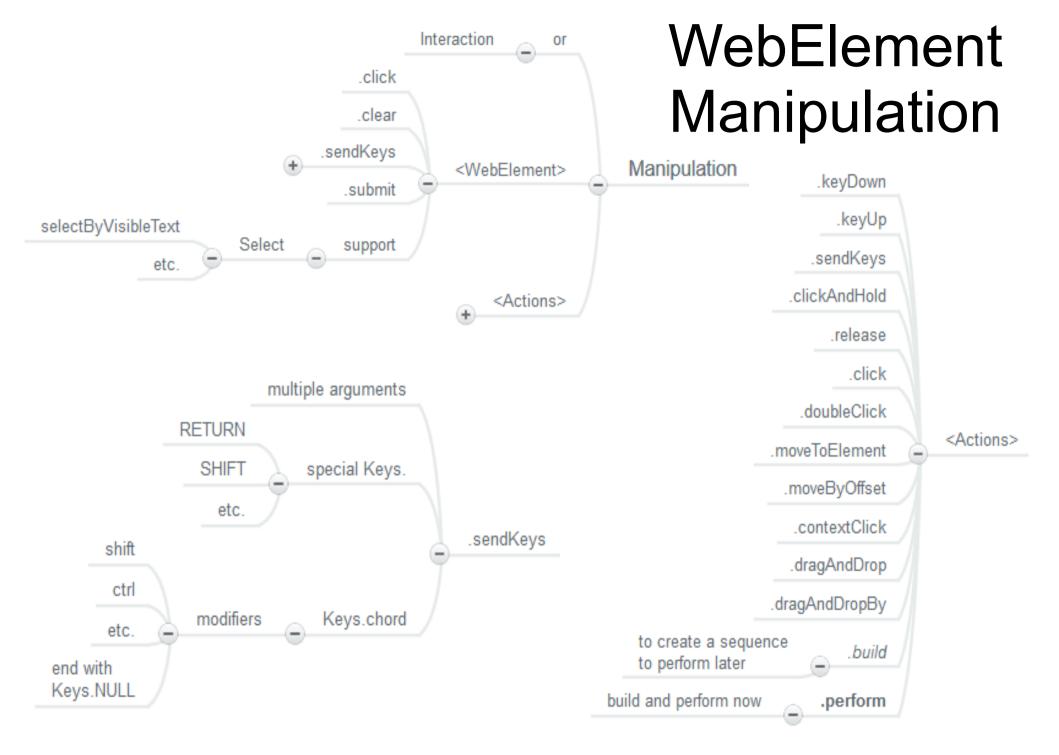


http://www.mindmeister.com/280141421/selenium-2-webdriver-commands

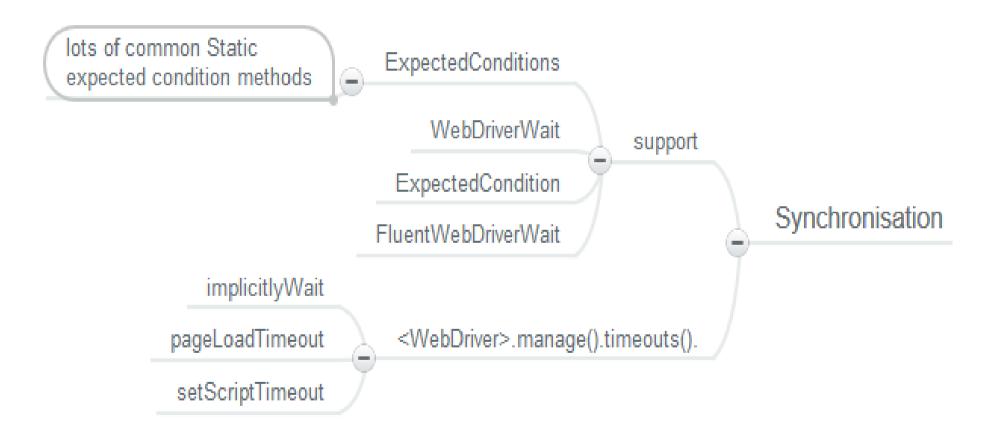


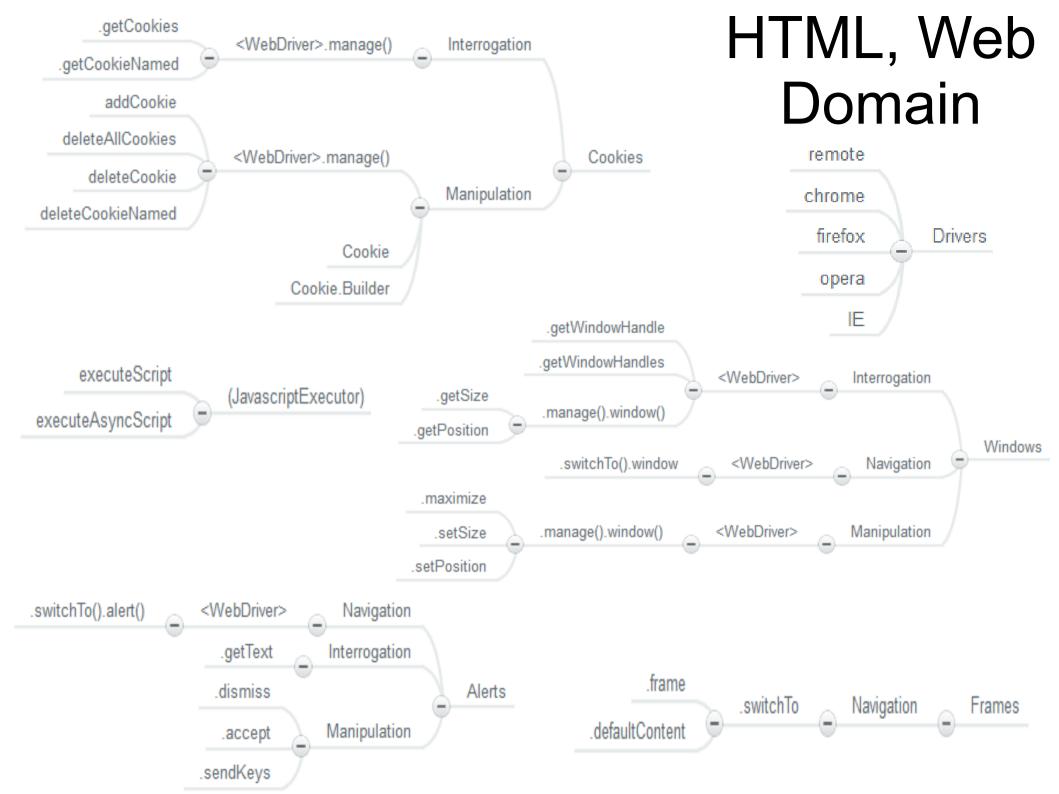
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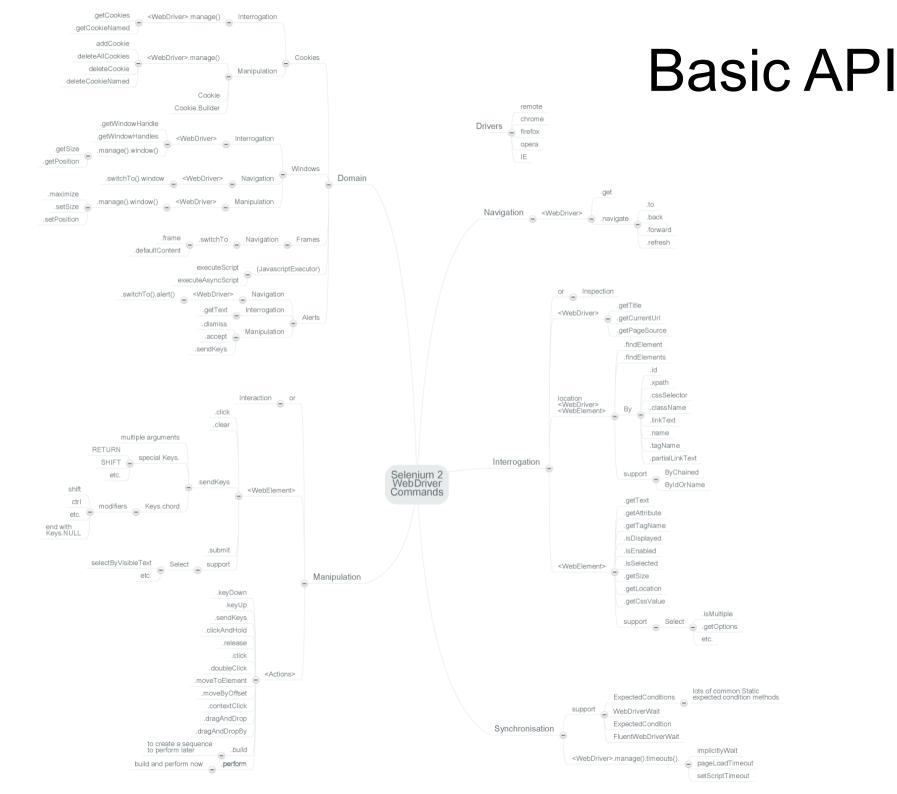




Synchronisation

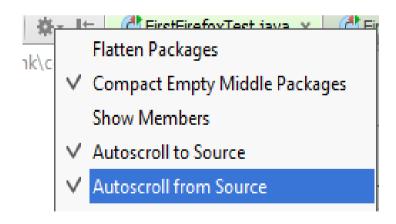






IntelliJ Tips

- Use Code Completion
- ctrl+Q for Documentation of Commands
- ctrl+click to view the method code
- Switch on AutoScroll
- Find Symbol
 - Shift + Cntrl + Alt + N
- Find Class
 - Cntrl + N
- Find File
 - Shift + Ctnrl + N



Synchronisation WebDriverWait

ExpectedConditions static methods

Custom ExpectedCondition

SlowLoadableCompnent

- Public interface
 - get()
 - loads and waits for component to be available

```
extends SlowLoadableComponent<PageObjectClassName>
```

Call super constructor in constructor

```
public PageObjectClassName(WebDriver driver) {
    super(new SystemClock(), 10);
    this.driver = driver;
}
```

- Implement load and isLoaded
 - isLoaded throws a new Error if not loaded
 - I often leave the 'load' part empty if I navigate to the page

Hamcrest Matchers & JUnit

e.g. assertThat(driver.getTitle(), is(not("bob"));

- is
- not
- Number
 - greaterThan,
 - greaterThanOrEqualTo,
 - lessThan,
 - lessThanOrEqualTo test ordering
- Text
 - equalTolgnoringCase
 - equalToIgnoringWhiteSpace
 - containsString,
 - endsWith,
 - startsWith

- @Test
- @Before, @After (method level)
- @BeforeClass, @AfterClass (static)
- Collections
 - hasEntry,
 - hasKey,
 - hasValue test a map contains an entry, key or value
 - hasltem.
 - hasItems test a collection contains elements
 - hasItemInArray test an array contains an element
- notNullValue.
- nullValue test for null

XPATH Selectors

// - match anywhere

/ - match from root

//* - any element

//tag

//*[@attribute]

//*[@attribute="value"]

//tag[@attribute="value"]

//tag1/tag2 (child)

//tag1//tag2 (any descendant)

//tag1/../.. (.. to go up)

//*[.='element text']

[@at1="a" and @at2="b"]

and, or, =, !=, <, >, >=, <-

Functions

contains(@a,"alu")

starts-with(@a,"v")

ends-with(@a,"e")

Indexing

//tag[1]

Selectors

CSS Selectors

* - any

#id

.class

tag

[attribute]

[attribute="value"]

tag[attribute="value"]

tag[attr1='val1'][attr2='val2']

tag[att1='val1'], orThisTag

= (' or ")

*="anywhere in value"

^="start of value"

\$="end of value"

~="spaceSeperatedValue"

Paths

A > B (child)

A B (any descendant)

A + B (A's B sibling)

tag:first-child

CSS References

- http://reference.sitepoint.com/css/selectorref
- http://net.tutsplus.com/tutorials/html-css-techniques/ the-30-css-selectors-you-must-memorize/
- http://www.quirksmode.org/css/contents.html
- http://www.w3schools.com/cssref/css_selectors.app

XPath References

- http://www.w3schools.com/xpath/
- http://www.simple-talk.com/dotnet/.net-framework/xpath,-css,-dom-and-selenium-the-rosetta-stone/

Alan Richardson is an Independent Test Consultant based in the UK. He offers training and consultancy in Selenium WebDriver, exploratory and technical web testing.

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Contact Alan for training and consultancy tailored to your needs: alan@compendiumdev.co.uk

Blogs and Web Sites

- SeleniumSimplified.com
- EvilTester.com
- Testing Papers and Tools
 - CompendiumDev.co.uk

Twitter: @eviltester





Online Training Courses

- Technical Web Testing 101
 - Unow.be/at/udemy101
- Intro to Selenium
 - Unow.be/at/udemystart
- Selenium 2 WebDriver API
 - Unow.be/at/udemyapi

Videos

youtube.com/user/EviltesterVideos

Books

Selenium Simplified

Unow.be/rc/selsimp



