## WebDriver API Cheat Sheets

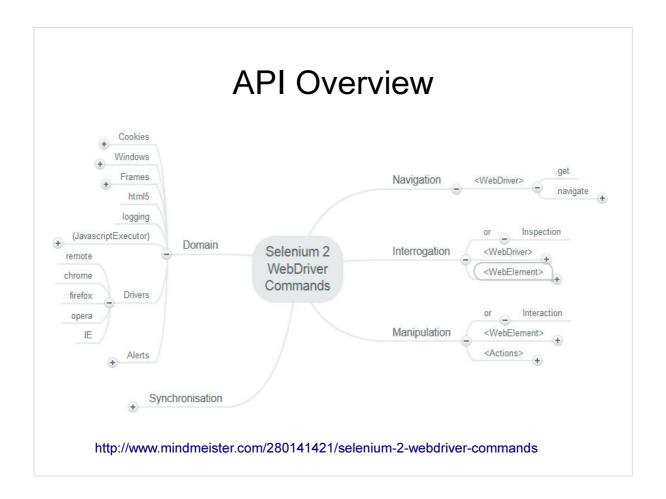
- A short set of Summary Cheat Sheets for Hands On Working With WebDriver
- · Contents:
  - Basic API commands
  - Hamcrest matchers & Junit
  - IntelliJ Tips
  - CSS & Xpath Selectors
  - Contact Details

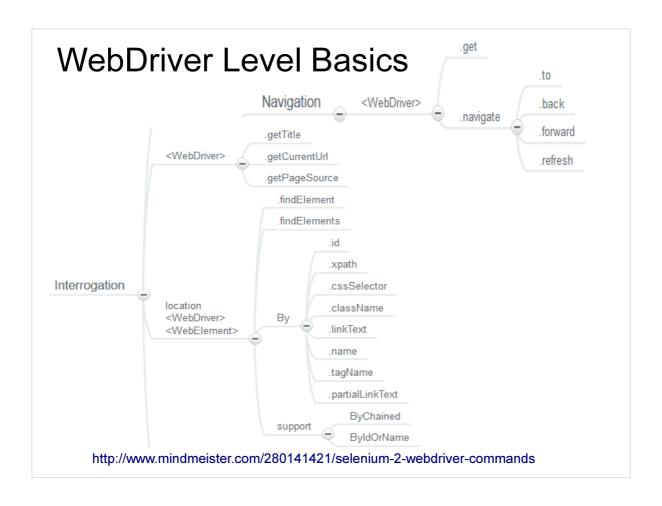
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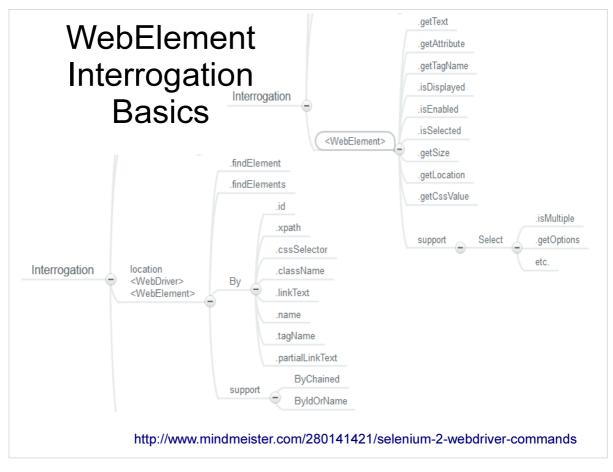
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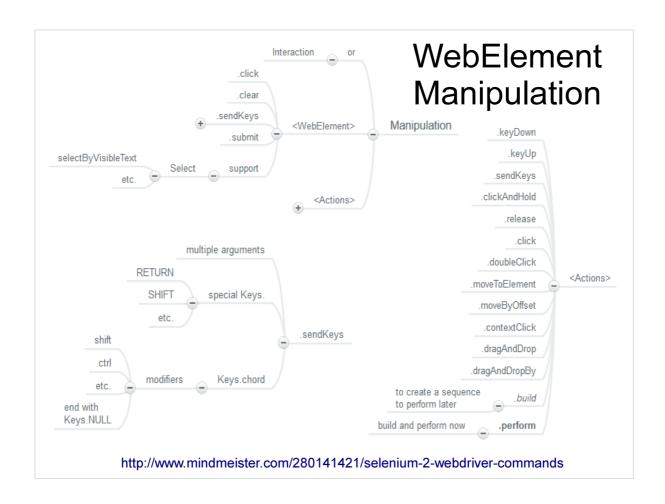
Created to support our Selenium 2 WebDriver Training Courses

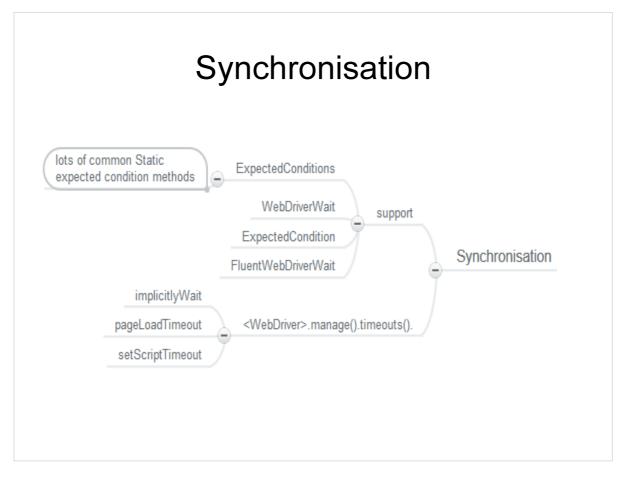
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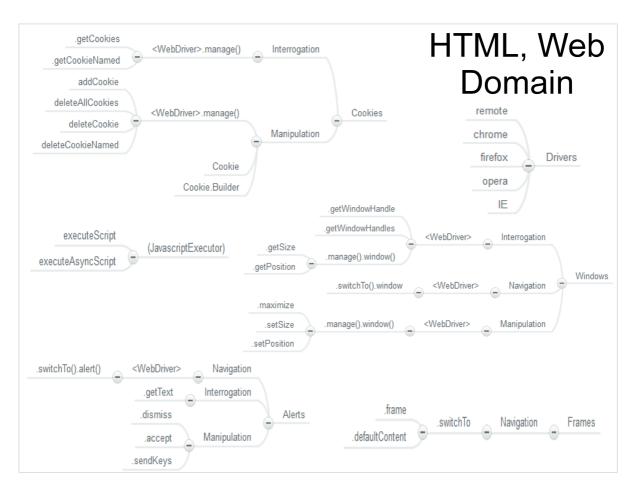


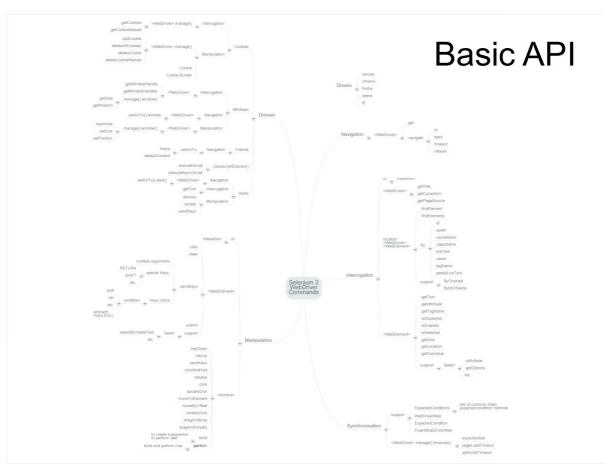






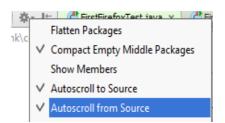






# IntelliJ Tips

- 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
  - equalTolgnoringWhiteSpace
  - 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

http://code.google.com/p/hamcrest/wiki/Tutorial#A tour of common matchers

### **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"
*="anywhere in value" ^="start of value"
•
^="start of value"
^="start of value" \$="end of value"
^="start of value"  \$="end of value"  ~="spaceSeperatedValue"
^="start of value"  \$="end of value"  ~="spaceSeperatedValue"  Paths
^="start of value"  \$="end of value"  ~="spaceSeperatedValue"  Paths  A > B (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.asp

#### 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.

uk.linkedin.com/in/eviltester

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



