INTRODUCTION TO SELENIUM

RAM SHARMA

HOW SELENIUM WORKS?

Bindings/ Client lib	Selenium Webdriver API	Drivers	Respective Browsers
Java C# Python Ruby		Chrome Firefox IE Safari	
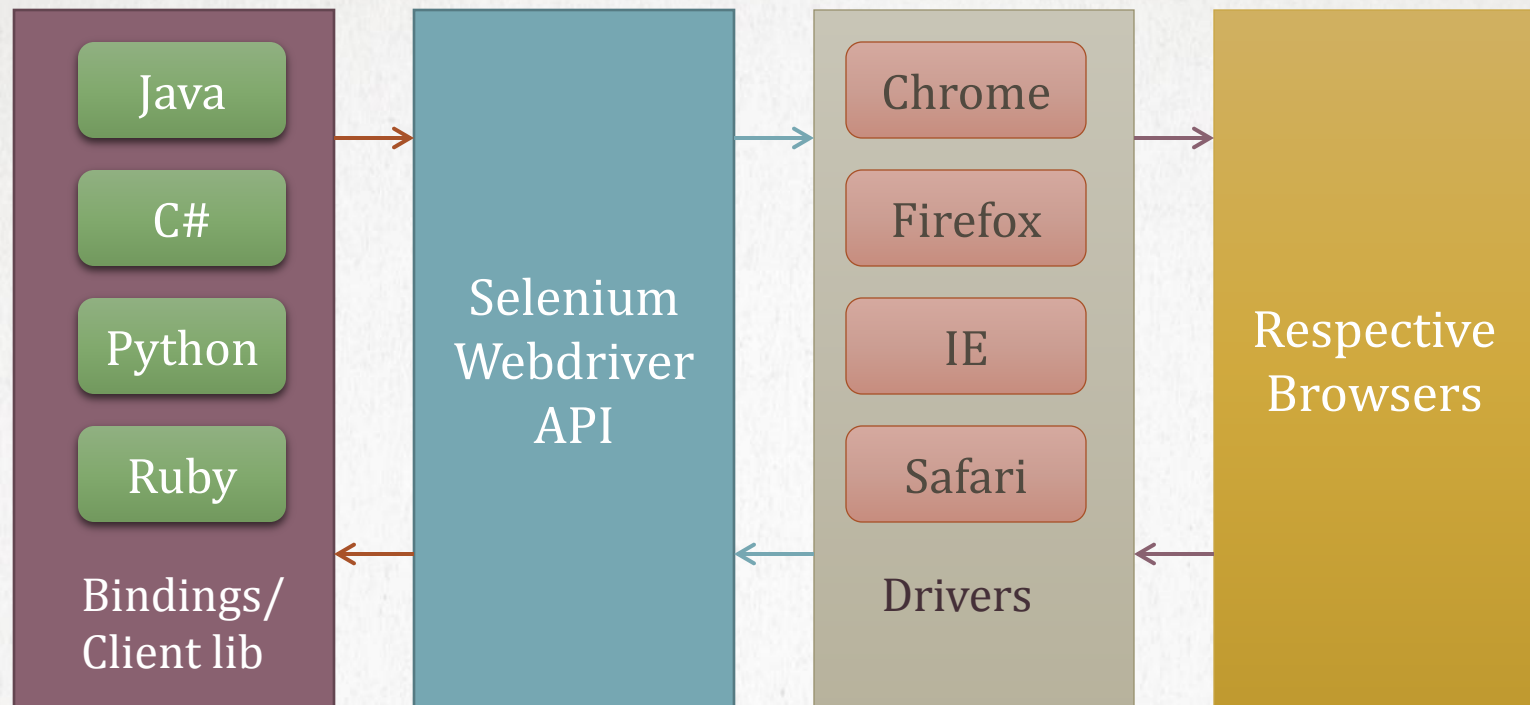
- For each selenium command, a http request is created and sent to browser driver.
- Commands are executed on browser and http response is sent back.
- Communication is done using JSON wire protocol. It is a restful web service.

BASICS OF HTML

- HTML stands for Hypertext Markup Language

- It starts and ends with html tag. Also contains body, head, title.

- Anything inside a webpage is an element and in terms of Selenium, we call it as WebElement.

- Between start and end tag of a particular element, it can contain another element or text or nothing.

- Along with start tag, it also contains attribute which can have value in form of attributeName = Value.

- Anything inside <a> tag acts as hyperlink.

- A webpage can contain frames and within a frame, it also have html inside it.

- It can be viewed by **Page Source** or by **Inspect Element(F12)**.

- You can install Mozilla addons firebug and firepath in firefox.

BUILDING BLOCKS OF HTML

- Textbox or Textarea

- password

- Buttons

- Hyperlinks

- Radio buttons

- Checkboxes

- label, header, paragraphs or span

- frames

- table

- div

- date, datetime or browse

UNDERSTANDING A WEB ELEMENT


```
<span id="myId" class="myClass" name="myName">myText</span>
```
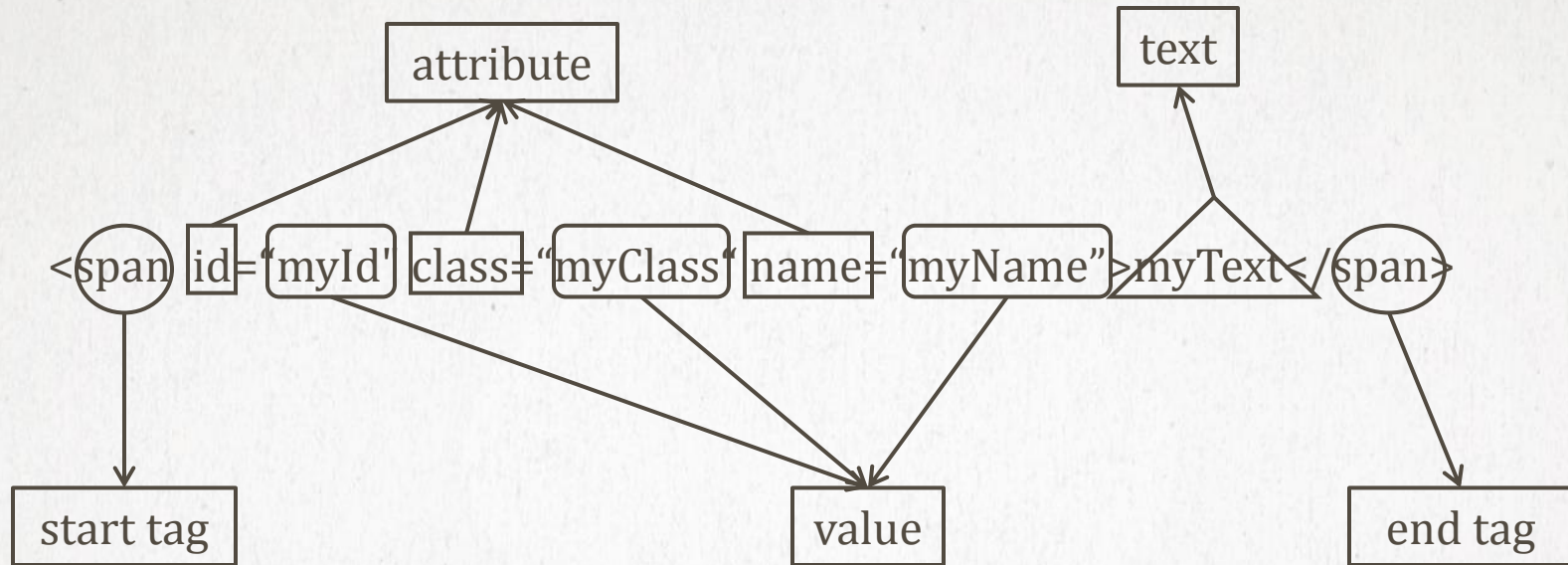
- tag name is span
- attributes are id, class, name
- respective values are myId, myClass, myName
- text() is myText