

Selenium cheat sheet

November 2, 2019

Notebook contains basic and advanced Selenium commands
- Aravind R K(<https://www.linkedin.com/in/aravind-r-k-739605122/>)

1 Selenium Cheat Sheet

1.0.1 Basic

```
WebDriver driver;  
driver = new ChromeDriver();  
driver = new FirefoxDriver();  
driver = new SafariDriver();
```

1.0.2 Locators

```
By.id  
By.name  
By.className  
By.tagName  
By.linkText  
By.partialLinkText  
By.cssSelector  
By.xpath
```

1.0.3 Advanced

```
FirefoxProfile  
//Load firefox from a non default location.  
System.setProperty("Webdriver.firefox.bin","Path/to/firefox/binary");  
FirefoxProfile fp = new FirefoxProfile();  
//Load with firefox addons  
File file = new File("path/to/extension.xpi")  
fp.addExtension(file);  
//Add another settings on profile...  
DesiredCapabilities dc = DesiredCapabilities.firefox();  
dc.setCapability(FirefoxDriver.PROFILE, fp);  
WebDriver driver = new RemoteWebDriver(dc);
```

1.0.4 Chrome Options

```
System.setProperty("webdriver.chrome.driver","/path/to/chromedriver.exe");
    ChromeOptions options = new ChromeOptions();
File extnFile = new File("/path/to/exension.crx");
options.addExtensions(extnFile);
DesiredCapabilities dc = DesiredCapabilities.chrome();
dc.setCapability(ChromeOptions.CAPABILITY,options);
WebDriver driver = new RemoteWebDriver(dc);
```

1.0.5 Navigation

```
// Navigate to Url
driver.get("URL");
driver.navigate().to("URL");
// Refresh page driver.navigate().refresh();
// Navigate forwards in browser history
driver.navigate().forward();
// Navigate backwards in browser history
driver.navigate().back();
```

1.0.6 Operations

```
WebElement element;
element.click();
element.sendKeys("String to typo");
element.submit();
element.clear();
element.getText();
element.getAttribute("attribute");
element.isDisplayed();
element.isSelected();
element.isEnabled();
//List
Select select = new Select(element);
select.selectByVisibleText("One");
select.selectByValue("value1");
select.selectByIndex(1);
select.deselectAll();
select.selectAll();
    WebDriver driver;
driver.getTitle();
driver.getCurrentUrl();
    driver.getPageSource();
driver.close();
driver.quit();
    driver.manage().window().maximize();
driver.manage().getCookies();
```

```
driver.manage().deleteAllCookies();
driver.manage().window().maximise();
driver.manage().deleteAllCookies();
```

1.0.7 Windows

```
String handle = driver.getWindowHandle();
Set handles = getWindowHandles();
driver.switchTo().window(handle);
    //Switch to newly created window
    String curWindow = driver.getWindowHandle();
    //Perform action to create new window
//get all window handles
Set handles = getWindowHandles();
For(String handle : handles)
{
if( !handle.equals (curWindow) )
{
driver.switchTo().window(handle);
}
}
}
```

1.0.8 Frames

```
driver.switchTo().frame(1);
driver.switchTo().frame("name");
driver.switchTo().frame(element);
driver.switchTo().defaultContent();
```

1.0.9 Alerts

```
driver.switchTo().alert().getText();
driver.switchTo().alert().accept();
driver.switchTo().alert().dismiss();
driver.switchTo().alert().sendKeys("Text") ;
```

1.0.10 Proxy

```
String PROXY = "localhost:8080";
Proxy proxy = new Proxy();
proxy.setHttpProxy(PROXY)
.setFtpProxy(PROXY)
.setSslProxy(PROXY);
DesiredCapabilities cap = new DesiredCapabilities();
cap.setCapability(CapabilityType.PROXY, proxy);
// set for the corresponding browser
WebDriver driver = new FirefoxDriver(cap);
WebhDriver driver = new ChromeDriver(cap);
```

1.0.11 Selenium Grid

Start hub : `java -jar selenium-server-standalone-x.xx.x.jar -role hub`

Start node : `java -jar selenium-server-standalone-x.xx.x.jar -role node -hub`
`http://localhost:4444/grid/register`

Server : `http://localhost:4444/gnd/console`

In []: