Selenium
CHEAT SHEET

Driver Initialization Basics

- Firefox   WebDriver driver = new FirefoxDriver();
- Chrome   WebDriver driver = new ChromeDriver();
- Internet Explorer   WebDriver driver = new SafariDriver();
- Safari Driver   WebDriver driver = new InternetExplorerDriver();

Driver Initialization Advanced

- Load Firefox from different location:
  - System.setProperty("webdriver.firfox.bin","path/to/firfox/binary");
  - FirefoxProfile fp= new FirefoxProfile();
- Load Firefox addons:
  - File file=new File("path/to/extension.xpi");
  - fp.addextension(file)

Selenium Locators

- Locating by ID
  - driver.findElement(By.id("q")).sendKeys("Se lenium 3");
- Locating by Name
  - driver.findElement(By.name("q")).sendKeys ("Selenium 3");
- Locating by Xpath
  - driver.findElement(By.xpath("//input[@id='q']")).sendKeys("Selen ium 3");
- Locating Hyperlinks by Link Text
  - driver.FindElement(By.LinkText("edit this page")).Click();
- Locating by DOM
  - dom =document.getElementById('signinForm')
- Locating by CSS
  - driver.FindElement(By.CssSelector("#rightb ar >.menu>li:nth-of-type(2)> h4"));
- Locating by ClassName
  - driver.findElement(By.className("profileheader"));
- Locating by TagName
  - driver.findElement(By.tagName("select")).C lick();
- Locating by LinkText
  - driver.findElement(By.linkText("NextP age")).click();
- Locating by PartialLinkText
  - driver.findElement(By.partialLinkText(" NextP")).click();

Selenium Navigators

- Navigate to url
  - driver.get("http://newexample.com")
  - driver.navigate().to("http://newexample.com")
- Refresh page
  - driver.navigate().refresh()
- Navigate forwards in browser history
  - driver.navigate().forward()
- Navigate backwards in browser history
  - driver.navigate().back()

TestNG

@BeforeSuite @AfterSuite @BeforeTest @AfterTest @BeforeGroups @AfterGroups @BeforeClass @AfterClass @BeforeMethod @AfterMethod

JUNIT

@After @AfterClass @Before @BeforeClass @Ignore @Test

Windows

```
String handle=driver.getWindowHandle();
Set<String> handles = getWindowHandles();
driver.switchTo().window(handle);
```
- How to switch to newly created window
  - String curWindow=driver.getWindowHandle();
- Get all window handles
```
  Set<String> handles = getWindowHandles();
  for(string handle: handles)
  {
          if (!handle.equals(curWindow))
          {
                  driver.switchTo().window(handle);
          }
  }
```

Frames

- Using Frame Index: driver.switchTO().frame(1);
- Using Name of Frame: driver.switchTO().frame("name")
- Using web Element Object: driver.switchTO().frame(element);
- Get back to main document: driver.switchTO().defaultContent();

Operations

- Launch Webpage   driver.get("www.webdriverinselenium.com");
- Click Button   driver.findElement(By.id("submit")).click();
- Handle Alert   Alert Alertpopup = driver.switchTo().alert();
- Disable a Field   driver.getElementsByName('') [o].setAttribute('disabled','');
- Enable a Field   driver.getElementsByName('') [o].removeAttribute('disabled'; Screenshot.File snapshot=((TakesScreenshot)driver) .getScreenshotAs(OutputTypeFILE); FileUtils.copyFile(snapshot, newFile("C:\\screenshot.jpg"));
- Print Title of Page   String pagetitle = driver.getTitle(); System.out.print(pagetitle);
- Implicit Wait   driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS); Explicit Wait WebDriverWait wait=new WebDriverWait(driver, 20);
- Sleep   Thread.Sleep(10);

Alerts

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

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
- Server: http://localhost:4444/grid/console