

Invoke browsers on Windows OS

```
Firefox  WebDriver driver = new firefoxdriver();
        //Selenium 3.0, beta 2 version
        System.setProperty("webdriver.firefox.marionette",
        "./geckodriver.exe");
        //Selenium 3.0, beta 1 version
        System.setProperty("webdriver.gecko.driver", "./geckodriver.exe");

Chrome  System.setProperty("webdriver.chrome.driver", "./chromedriver.exe");
        WebDriver driver = new chromedriver();

IE      File file = new File("./IEDriverServer.exe");
        System.setProperty("webdriver.ie.driver", file.getAbsolutePath());
        WebDriver driver = new InternetExplorerDriver();
```

Select or DropDown element

```
Select select = new Select(driver.findElement(By locators));
```

```
Select multiple option from a list box
selectelement.sendkeys(keys.CONTROL)
selectelement.selectByVisibleText(1)
selectelement.selectByVisibleText(2)
```

```
List<WebElement> dropdown=month.getOptions();
for(int i=0;i<dropdown.size();i++){ String
drop_down_values=dropdown.get(i).getText();
System.out.println("dropdown values are "+drop_down_values); }
```

Wait commands

```
Hard wait
Thread.sleep([time in milisecond]);
```

```
Implicit Wait
driver.manage.timeouts().implicitlyWait(10, TimeUnit.SECONDS);
```

```
Explicit Wait
WebDriverWait wait = new WebDriverWait(driver, 10);
wait.until(ExpectedConditions.elementToBeClickable(By locators));
```

```
Fluent wait
WebElement element = fluentWait(By locators);
public WebElement fluentWait(By locator) {
Wait<webdriver> wait = new FluentWait<webdriver>(driver)
.withTimeout(30, TimeUnit.SECONDS)
.pollingEvery(5, TimeUnit.SECONDS)
.ignoring(NoSuchElementException.class);
WebElement foo = wait.until(
new Function<webdriver, webelement="">() {
public WebElement apply(WebDriver driver) {
return driver.findElement(locator);
}
}
);
return foo;
};
```



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