

WebDriver Cheat Sheet

Create Browser

```
// ChromeDriver
using OpenQA.Selenium.Chrome;
IWebDriver driver = new ChromeDriver();
```

```
//Firefox WebDriver
using OpenQA.Selenium.Firefox;
IWebDriver driver = new FirefoxDriver();
```

```
// IEDriver
using OpenQA.Selenium.IE;
IWebDriver driver = new InternetExplorerDriver();
```

```
// EdgeDriver
using OpenQA.Selenium.Edge;
IWebDriver driver = new EdgeDriver();
```

Browser Operations

```
// Browse to URL
driver.Navigate().GoToUrl(@"http://www.google.co.uk");
```

```
// Get Title of the Current Page
driver.Title;
```

```
// Get the Current URL
driver.Url;
```

```
// Get the Current Page Source
driver.PageSource;
```

Browser Operations Continued

```
// Set the Default Timeout
driver.Manage().Timeouts().SetPageLoadTimeout(new
    TimeSpan(30));
```

```
// Navigation Controls
driver.Navigate().Back();
driver.Navigate().Forward();
driver.Navigate().Refresh();
```

```
// Window Management
driver.Manage().Window.Maximise();
driver.Manage().Window.Minimise();
driver.Manage().Window.FullScreen();
```

```
// Execute JavaScript
((IJavaScriptExecutor)driver).ExecuteScript("script");
```

```
// Switch Frames
driver.SwitchTo().Frame("nameOfFrame");
```

```
// Switch Window
driver.SwitchTo().Window(windowName);
```

```
// Switch Tabs
ReadOnlyCollection<string> windowHandles =
    driver.WindowHandles;
string firstTab = windowHandles.First();
driver.SwitchTo().Window(windowHandles.Last());
```

```
// Take Screenshot
Screenshot screenshot =
    ((ITakesScreenshot)driver).GetScreenshot();
screenshot.SaveAsFile(@"path", ImageFormat.Png);
```

```
// Cookie Management
driver.Manage().Cookies.DeleteAllCookies();
driver.Manage().Cookies.DeleteCookieNamed("name");
```

```
// Handle Pop-up/Alerts
IAlert alert= driver.SwitchTo().Alert();
```

```
    alert.Accept();
    alert.Dismiss();
```

Element Operations

```
// Find Element
driver.FindElement(By.ClassName("className"));
driver.FindElement(By.CssSelector("cssSelector"));
    driver.FindElement(By.Id("id"));
    driver.FindElement(By.LinkText("text"));
    driver.FindElement(By.Name("name"));
driver.FindElement(By.PartialLinkText("partialText"));
driver.FindElement(By.XPath("//*[@id='idhere']"));
```

```
// Find Multiple Elements
IReadOnlyCollection<IWebElement> elements =
    driver.FindElements(By.Id("id"));
```

```
// Element Interactions
IWebElement element = driver.FindElement(By.Id("id"));
```

```
    element.SendKeys("someText");
    element.Clear();
    element.Submit();
    element.Click();
```

```
bool isEnabled = element.Enabled;
bool isDisplayed = element.Displayed;
bool isSelected = element.Selected;
```

```
// Wait for Element to be Visible
var wait = new WebDriverWait(driver, new TimeSpan(0,
    0, 30));
var element =
    wait.Until(SeleniumExtras.WaitHelpers.ExpectedConditio
        ns.ElementIsVisible(By.Id("id")));
```

```
// Select Item in Dropdown
SelectElement select = new SelectElement(element);
select.SelectByIndex(1);
select.SelectByText("text");
select.SelectByValue("valueToFind");
```

```
// Drag and Drop Element
Actions drag = new Actions(driver);
drag.DragAndDropToOffset(element, 50, 50).Perform();
```