Selenium WebDriver

Driver creation

```
new ChromeDriver();
```

Navigation

```
driver.Navigate().GoToUrl(
    "https://translate.google.com");
driver.Navigate().Refresh();
driver.Navigate().Back();
driver.Navigate().Forward();
driver.SwitchTo().Frame(element);
```

Selectors

```
driver.FindElement(selector);

By.Id("source")
By.ClassName("city")
By.Name("email")
By.CssSelector("#cities")
By.TagName("header")
By.XPath("//input")
By.LinkText("Contact")
By.PartialLinkText("Contact")
```

Select multiple elements

```
var elements =
    driver.FindElements(selector)
```

Select nested element

```
var nestedElement =
    houseTile.FindElement(selector);
```

SelectElement

```
var selectElement =
    new SelectElement(element);

selectElement.SelectByText("2");
selectElement.SelectByValue("2");
selectElement.SelectByIndex(2);
```

Properties

```
element.Displayed
element.Enabled
element.Selected
element.Text
element.Location
element.Size
element.TagName
element.GetAttribute("name")
```

Keyboard actions

```
element.SendKeys("cat");
element.SendKeys(Keys.Enter)
```

Mouse actions

```
element.Click()
element.Submit()
```

Using Java Script

```
var element = (IWebElement) ((IJavaScriptExecutor)driver)
        .ExecuteScript("return $('.city')[0]");
```

Action combinations

```
Actions action =
    new Actions(driver);
var saveShortcut =
action.ContextClick(element)
    .KeyDown(Keys.Control)
    .SendKeys("S")
    .Build();


MoveByOffset(offsetX, offset)
MoveToElement(toElement)
MoveToElement(toElement, offsetX,
    offset)
ClickAndHold()
Release()
ContextClick()
DoubleClick()
KeyDown(key)
KeyUp(key)
SendKeys(keysToSend)
Click(onElement)
ClickAndHold(onElement)
Release(onElement)
ContextClick(onElement)
DoubleClick(onElement)
DragAndDrop(source, target)
DragAndDropToOffset(source,
    offsetX, offsetY)
KeyDown(element, key)
KeyUp(element, key)
SendKeys(element, keysToSend)
```

Waiting

```
driver.Manage().Timeouts().SetScriptTimeout(TimeSpan.FromSeconds(10));
driver.Manage().Timeouts().SetPageLoadTimeout(TimeSpan.FromSeconds(10));

driver.Manage().Timeouts().ImplicitlyWait(TimeSpan.FromSeconds(10));

var wait = new WebDriverWait(driver, TimeSpan.FromSeconds(10));
```

Wait until element found

```
WebDriverWait wait = new WebDriverWait(driver, TimeSpan.FromSeconds(10));
IWebElement myDynamicElement = wait.Until<IWebElement>((d) =>
{
    return d.FindElement(By.Id("someDynamicElement"));
});
```

Cleaning

```
driver.Manage().Cookies.DeleteAllCookies();
new RemoteLocalStorage(driver).Clear();
new RemoteSessionStorage(driver).Clear();
```

TouchActions

```
var touchAction = new TouchActions(driver);

touchAction
    .SingleTap(element)
    .DoubleTap(element)
    .Scroll(offsetX, offsetY)
    .Down(locationX, locationY)
    .Up(locationX, locationY)
    .LongPress(element)
    .Flick(element, offsetX, offsetY, speed)
    .Build();
```

Waiting for state

```
wait.Until(
    ExpectedConditions

.ElementToBeClickable(selector));

ElementExists
ElementIsVisible
ElementSelectionStateToBe
ElementToBeClickable
ElementToBeSelected
AlertIsPresent
AlertState
FrameToBeAvailableAndSwitchToIt
InvisibilityOfElementLocated
InvisibilityOfElementWithText
PresenceOfAllElementsLocatedBy
VisibilityOfAllElementsLocatedBy
StalenessOf
TextToBePresentInElement
TextToBePresentInElementLocated
TextToBePresentInElementValue
TitleContains
TitleIs
UrlContains
UrlMatches
UrlToBe
```

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