

# **Actions, JavascriptExecutor, Waits**

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# Actions

- Click()
- Click(WebElement)
- ClickAndHold()
- ClickAndHold(WebElement)
- ContextClick()
- ContextClick(WebElement)
- DoubleClick()
- DoubleClick(WebElement)
- DragAndDrop(WebElement src, WebElement target)
- DragAndDrop(WebElement src, int xOffset, int yOffset)
- MoveByOffset(int xOffset, int yOffset)
- MoveToElement(WebElement)
- MoveToElement(WebElement element, int xOffset, int yOffset)
- MoveToLocation(int x, int y)
- ScrollByAmount(int deltaX, int deltaY)
- ScrollFromOrigin(ScrollOrigin, int deltaX, int deltaY)
- ScrollToElement(WebElement)
- Release()
- Release(WebElement)

# Actions

- KeyDown(CharSequence key)
- KeyDown(WebElement element, CharSequence key)
- KeyUp(CharSequence key)
- KeyUp(WebElement element, CharSequence key)
- SendKeys(CharSequence text)
- SendKeys(WebElement el, CharSequence text)
- Pause(Duration)
- Perform()
- Build()
- GetActionDuration()
- GetActiveKeyboard()
- **GetActivePointer()**
- GetActiveWheel()
- GetSequence()
- SetActiveKeyboard(String keyboard)
- **SetActivePointer(Kind kind, String name)**
- SetActiveWheel(String name)
- Tick(Interaction)

# Javascript Executor

- JavascriptExecutor js = (JavascriptExecutor) driver;
- Js.executeScript(String script, Object ... objs) - Object
- Js.executeAsyncScript(String script, Object ... objs) - Object
- Js.pin(String script) - ScriptKey
- Js.getPinnedScripts() - Set<ScriptKey>
- Js.unpin(ScriptKey key) - void
- Js.executeScript(ScriptKey key, Object ... objs) - Object

# Wait

- Implicit Wait
- Explicit Wait

# WebDriver->Manage->Timeouts

- `ImplicitlyWait(Duration duration)` - Timeouts
- `PageLoadTimeout(Duration duration)` - Timeouts
- `ScriptTimeout(Duration duration)` - Timeouts
- `GetImplicitWaitTimeout()` - Duration
- `GetPageLoadTimeout()` - Duration
- `GetScriptTimeout()` - Duration

# Implicit Wait

- `driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(30))`
- Global Setting
- Wait for Loading Elements(Not Conditional)
- Immediately return on Element Loaded