

Selenium Commands

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Explicit Wait

- Element Specific Wait, Not Global
- We can provide specific conditions
- ```
Wait<WebDriver> wait = new WebDriverWait(driver, Duration.ofSeconds(2));
```
- ```
Wait<WebDriver> wait =  
    new FluentWait<>(driver)  
        .withTimeout(Duration.ofSeconds(2))  
        .pollingEvery(Duration.ofMillis(300))  
        .ignoring(ElementNotInteractableException.class);
```

Expected Conditions – 54 conditions

- AlertIsPresent()
- AttributeContains(By by, String name, String value)
- AttributeContains(WebElement element, String name, String value)
- AttributeToBe(By by, String name, String value)
- AttributeToBe(WebElement element, String name, String value)
- AttributeToBeNotEmpty(WebElement element, String name)
- DomAttributeToBe(WebElement element, String name, String value)
- DomPropertyToBe(WebElement element, String name, String value)
- ElementSelectionStateToBe(By by, Boolean selected)
- ElementSelectionStateToBe(WebElement element, Boolean selected)

Expected Conditions

- ElementToBeClickable(By by)
- ElementToBeClickable(WebElement element)
- ElementToBeSelected(By by)
- ElementToBeSelected(WebElement element)
- FrameToBeAvailableAndSwitchToIt(By by)
- FrameToBeAvailableAndSwitchToIt(Int index)
- FrameToBeAvailableAndSwitchToIt(String idOrName)
- FrameToBeAvailableAndSwitchToIt(WebElement element)
- InvisibilityOf(WebElement element)
- InvisibilityOfAllElements(List<WebElement> elements)
- InvisibilityOfElementLocated(By by)

Expected Conditions

- InvisibilityOfElementWithText(By by, String text)
- JavaScriptThrowsNoExceptions(String javascript)
- JsReturnsValue(String javascript)
- NumberOfElementsToBe(By locator, int number)
- NumberOfElementsToBeLessThan(By locator, int number)
- NumberOfElementsToBeMoreThan(By locator, int number)
- NumberOfWindowsToBe(int number)
- PresenceOfAllElementsLocatedBy(By locator)
- PresenceOfElementLocated(By locator)
- PresenceOfNestedElementLocatedBy(By locator, By child)
- PresenceOfNestedElementsLocatedBy(By locator, By child)
- PresenceOfNestedElementLocatedBy(WebElement element, By child)

Expected Conditions

- Refreshed(ExpectedCondition)
- StalenessOf(WebElement element)
- TextMatches(By locator, Pattern pattern)
- TextToBe(By locator, String value)
- TextToBePresentInElement(WebElement element, String text)
- TextToBePresentInElementLocated(By locator, String text)
- TextToBePresentInElementValue(By locator, String text)
- TextToBePresentInElementValue(WebElement element, String text)
- TitleContains(String text)
- UrlContains(String text)
- UrlMatches(String regex)
- UrlToBe(String text)

Expected Conditions

- `VisibilityOf(WebElement element)`
- `VisibilityOfAllElements(List<WebElement>)`
- `VisibilityOfAllElementsLocatedBy(By locator)`
- `VisibilityOfElementLocated(By locator)`
- `VisibilityOfNestedElementsLocatedBy(By parent, By child)`
- `VisibilityOfNestedElementsLocatedBy(WebElement parent, By child)`

- `And(ExpectedConditions condition)`
- `Not(ExpectedConditions condition)`
- `Or(ExpectedConditions condition)`

POM – Page Object Model

- POM – Design pattern
- One Page = One Java Class
- Centralized Object Repository
- Page Object methods = user actions
- Business-Level Methods
- Improved Maintainability
- Reduces Code Duplication

Exceptions

- NoSuchElementException
- NoSuchWindowException
- NoSuchFrameException
- NoSuchCookieException
- NoAlertPresentException
- NoSuchElementException
- StaleElementReferenceException
- ElementNotInteractableException
- ElementClickInterceptedException
- ElementNotSelectableException