All Selenium WebDriver Exceptions using JAVA
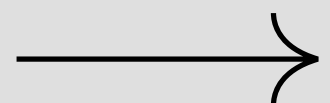
InvalidElementStateException

- Description: Thrown when an action is attempted on an element that is not in an interactable state.
- Example: Trying to click a disabled button.

Subclasses of InvalidElementStateException:

- **ElementNotInteractableException**: Indicates the element is not interactable (e.g., hidden).

- **ElementClickInterceptedException**: Occurs when a different element intercepts the click action.
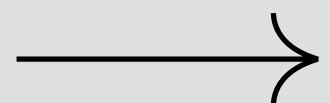
WebDriverException

- Description: Base class for all WebDriver exceptions.
- Example: Thrown when the driver fails to execute commands.

ConnectionClosedException

- Description: Thrown when the connection to the browser is unexpectedly closed.
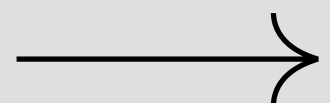- Example: The WebDriver loses connection during a test

BiDiException

- Description: Represents errors in Bi-Directional communication with the browser.
- Example: Issues in communication with the browser's debug protocols.

ConnectionFailedException

- Description: Indicates the failure to establish a connection.
- Example: When the browser fails to start or connect.
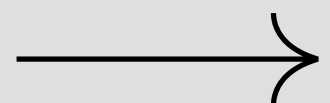
DetachedShadowRootException

- Description: Thrown when trying to interact with a detached shadow root.
- Example: A shadow root element is removed before interaction.

DevToolsException

- Description: Errors related to Chrome DevTools.
- Example: Issues during interaction with Chrome DevTools features.

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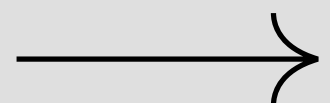
HealthCheckFailedException

- Description: Indicates a failure during WebDriver's health check.
- Example: Health check failure in remote WebDriver setups.

InsecureCertificateException

- Description: Thrown when encountering insecure certificates.
- Example: Accessing a site with an invalid SSL certificate.

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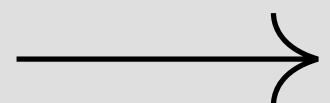
InvalidArgumentException

- Description: Indicates that an argument passed to a method is invalid.
- Example: Passing an incorrect selector or driver option.

InvalidCookieDomainException

- Description: Occurs when setting a cookie for a different domain.
- Example: Attempting to set a cookie from example.com on test.com.
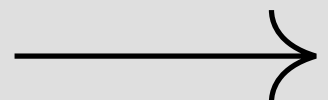
InvalidSelectorException

- Description: Thrown when the selector is invalid.
- Example: Passing an invalid XPath or CSS selector.

JavascriptException

- Description: Indicates an error in executing JavaScript.
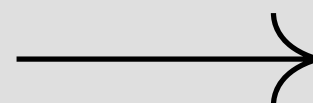- Example: JS error when running a script via executeScript().

JsonException

- Description: Thrown when there's an issue in handling JSON.
- Example: Parsing or generating incorrect JSON data.

MoveTargetOutOfBoundsException

- Description: Thrown when attempting to move to a location outside the viewport.
- Example: Trying to drag an element out of the browser view.

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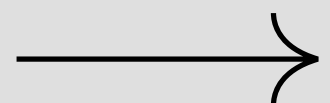
NoSuchDriverException

- Description: Indicates that the WebDriver is not found or has quit unexpectedly.
- Example: Referencing a WebDriver instance after it's been closed.

NoSuchSessionException

- Description: Occurs when the session is no longer active.
- Example: Accessing a session that was terminated.
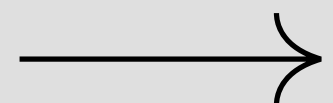
NotFoundException

Description: Base class for exceptions thrown when an element or resource is not found.

Subclasses of NotFoundException:

- **NoAlertPresentException**: Thrown when no alert is present.
- **NoSuchContextException**: Occurs when the desired context (e.g., mobile) is not found.
- **NoSuchCookieException**: Thrown when the specified cookie is not found.
- **NoSuchElementException**: Indicates an element could not be located.
- **NoSuchFrameException**: Occurs when switching to a frame that is not found.
- **NoSuchShadowRootException**: Thrown when the shadow root is not available.
- **NoSuchWindowException**: Indicates an attempt to switch to a non-existent window.
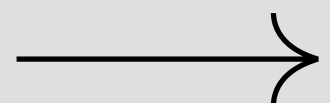
RequestFailedException

- Description: Thrown when a network request fails.
- Example: A failure in network traffic capture during testing.

ScreenshotException

- Description: Thrown when capturing a screenshot fails.
- Example: Issues with browser compatibility or saving screenshots.

ScriptTimeoutException

- Description: Thrown when a script execution exceeds the defined timeout.
- Example: JavaScript execution taking too long.
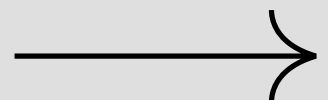
SessionNotCreatedException

- Description: Indicates that the session could not be created.

Subclasses of SessionNotCreatedException:

- **RetrySessionRequestException**: Thrown when retrying to create a session fails.
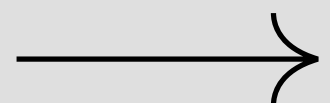
StaleElementReferenceException

- Description: Thrown when an element is no longer attached to the DOM.
- Example: Trying to interact with an element after a page refresh.

TimeoutException

- Description: Indicates that a command did not complete in the expected time.
- Example: Waiting too long for an element to be located.
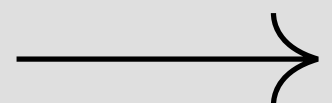
UnableToCreateProfileException

- Description: Thrown when the browser profile cannot be created.
- Example: Issues with launching a browser with a specific profile.

UnableToSetCookieException

- Description: Occurs when setting a cookie fails.
- Example: Issues with cookie attributes or browser settings.
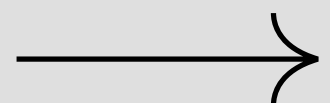
UnexpectedTagNameException

- Description: Thrown when an element has an unexpected tag.
- Example: Expecting a select element but receiving a different tag.

UnhandledAlertException

- Description: Thrown when there's an unhandled alert blocking the operation.
- Example: An alert pops up unexpectedly during test execution.

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UnknownServerException

- Description: Indicates an error from the WebDriver server.
- Example: Issues originating from the WebDriver server or browser driver.
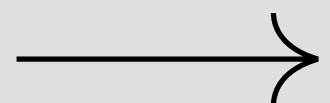
UnreachableBrowserException

- Description: Thrown when the browser cannot be reached.
- Example: Browser crashes or is terminated unexpectedly

UnsupportedCommandException

- Description: Thrown when an unsupported command is issued.
- Example: Trying to use a deprecated or unsupported feature.

Japneet Sachdeva

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