

Selenium WebDriver Alert, Iframe and Window

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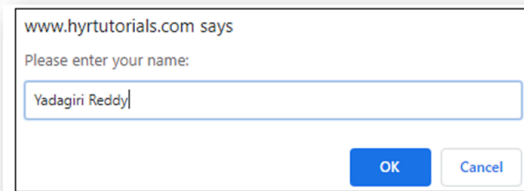
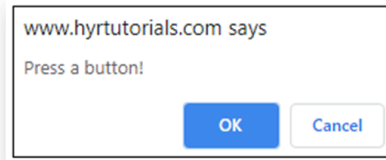
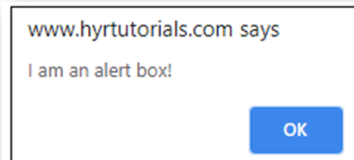
Agenda

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Alert Box

Alert is a small message/dialog box that appears on the top of a web application and it provides some information/warning to the user. Sometimes, it also expects input information from the user.

- Alert box (Simple Alerts)
- Confirm box (Confirmation Alerts)
- Prompt box (Prompt Alerts)

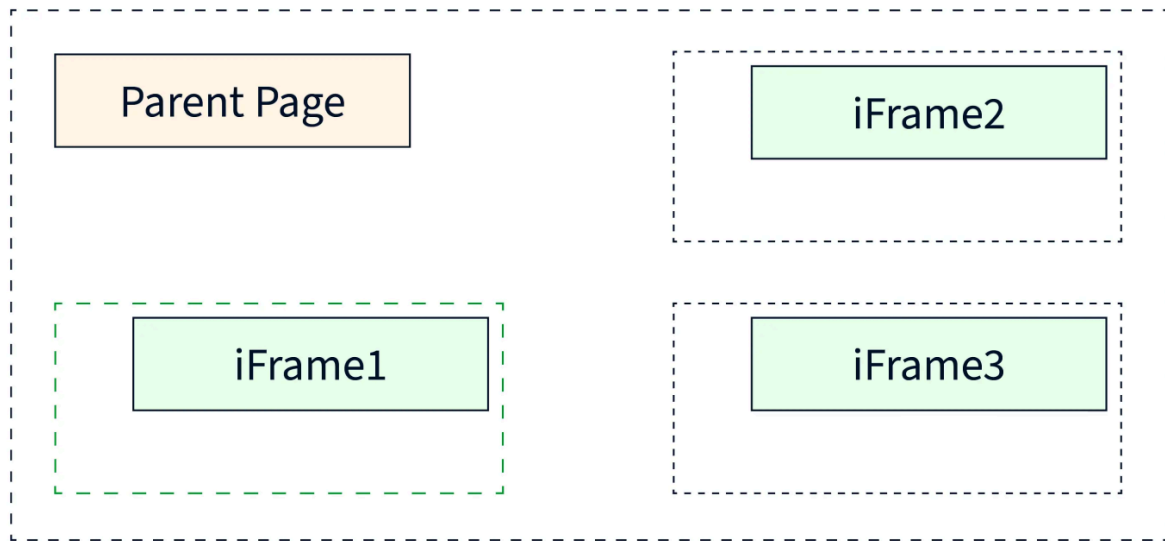


Code Example: Alert Box

```
1  class AlertBox {
2      public static void main(String[] args) {
3          WebDriver driver = new ChromeDriver();
4          driver.get("https://demo.automationtesting.in/Alerts.html");
5          driver.manage().window().maximize();
6
7          driver.findElement(By.xpath("//button[contains(text(),'alert box:')]")).click();
8          Thread.sleep(2000);
9
10         Alert alertElement = driver.switchTo().alert();
11
12         //Getting the alert message:
13         System.out.println(driver.switchTo().alert().getText());
14
15         alertElement.accept();
16
17         //Using method chaining:
18         // driver.switchTo().alert().accept();
19     }
20 }
```

Iframe

An iframe, or inline frame, is an HTML element that acts like a window within a webpage. It essentially embeds another whole HTML document, allowing you to display content from an external source directly on your page.







Iframe HTML Example


```
1  <!DOCTYPE html>
2  <html>
3      <body>
4          <iframe src="https://www.hyrtutorials.com/" width="400" height="400" name="selenium">
5              <p>Your browser does not support iframes.</p>
6          </iframe>
7          <iframe src="https://demo.automationtesting.in" width="400" height="400" id="w3c">
8              <p>Your browser does not support iframes.</p>
9          </iframe>
10         <iframe src="http://www.seleniumhq.org" width="400" height="400" title="selenium_news">
11             <p>Your browser does not support iframes.</p>
12         </iframe>
13         <br>
14         <a href="https://www.google.com">Click here for Selenium tutorial </a>
15     </body>
16 </html>
```

Different Ways to Switch to Iframe

1. using name or id
2. using index
3. Using Web Element (Most recommended)

```
driver.switchTo().fr
```

 frame (int index)	WebDriver
 frame (String nameOrId)	WebDriver
 frame (WebElement frameElement)	WebDriver
 parentFrame ()	WebDriver

Ctrl+Down and Ctrl+Up will move caret down and up in the editor [Next Tip](#) 

Code Example: Switch to Iframe

```
1  public class IframeExample {
2      public static void main(String[] args) {
3          WebDriver driver = new ChromeDriver();
4          driver.get("file:///Users/mahmud/IdeaProjects/selenium-webdriver-automation/iframe.html");
5          driver.manage().window().maximize();
6
7          int numOfiframes = driver.findElements(By.tagName("iframe")).size();
8          System.out.println("Numbers of iframe: " + numOfiframes);
9          driver.switchTo().frame("selenium");
10
11         driver.switchTo().defaultContent();
12
13         WebElement newFrame = driver.findElement(By.xpath("//iframe[@title='selenium_news']"));
14
15         driver.switchTo().frame(newFrame);
16         driver.findElement(By.xpath("//*[@type='button'][@class='navbar-toggler']")).click();
17
18
19         driver.switchTo().defaultContent();
20
21         driver.findElement(By.xpath("//*[@href=\"https://www.google.com\"]")).click();
22     }
23 }
```



```
1  public class MultipleWindows {
2      public static void main(String[] args) {
3          WebDriver driver = new ChromeDriver();
4          driver.get("http://seleniumpractise.blogspot.in/2017/07/multiple-window-examples.html");
5          driver.manage().window().maximize();
6
7          String parent = driver.getWindowHandle();
8          System.out.println("Parent window id is ==> " + parent);
9
10         driver.findElement(By.xpath("//a[@href=\"//www.google.com\"]")).click();
11         // Get a set of all window handles
12         Set<String> allWindows = driver.getWindowHandles();
13         int count = allWindows.size();
14         System.out.println("Total window " + count);
15
16         List<String> allTabList = new ArrayList<>(allWindows);
17         // Iterate over all tabs
18         for (int i = 0; i < count; i++) {
19             // If the window handle is not the parent window handle
20             if (!parent.equalsIgnoreCase(allTabList.get(i))) {
21                 driver.switchTo().window(allTabList.get(i));
22                 driver.findElement(By.name("q")).sendKeys("Selenium Webdriver");
23                 Thread.sleep(3000);
24                 driver.close();
25             }
26         }
27         // Switch back to the parent window
28         driver.switchTo().window(parent);
29         System.out.println("Parent window title is ==> " + driver.getTitle());
30     }
31 }
```

Thank you 

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