



Alerts – Iframes – Windows



Agenda:

- Alerts
- Iframes
- Windows



After today's session, you should be able to:

- Handle different browser pop ups
- Switch between iframes
- Switch between multiple windows



What is a Pop-up?

- Anything that comes out of the browser
- JavaScript alerts
- Modals
- Dialogs



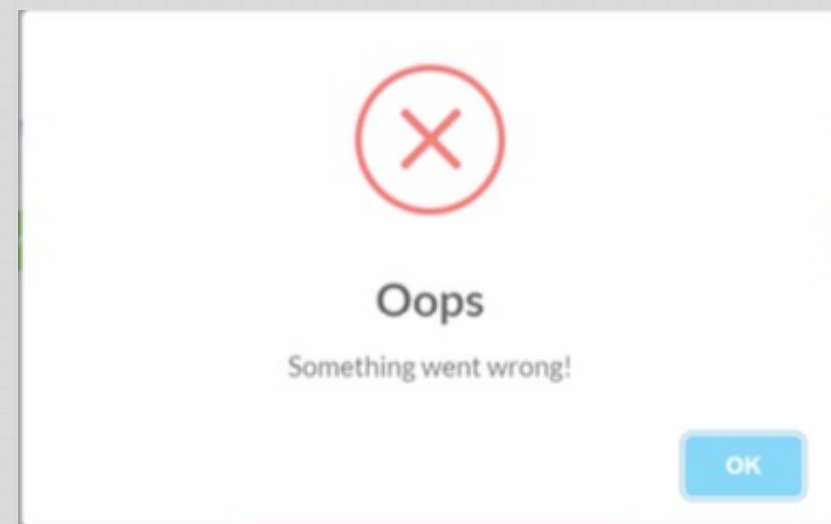
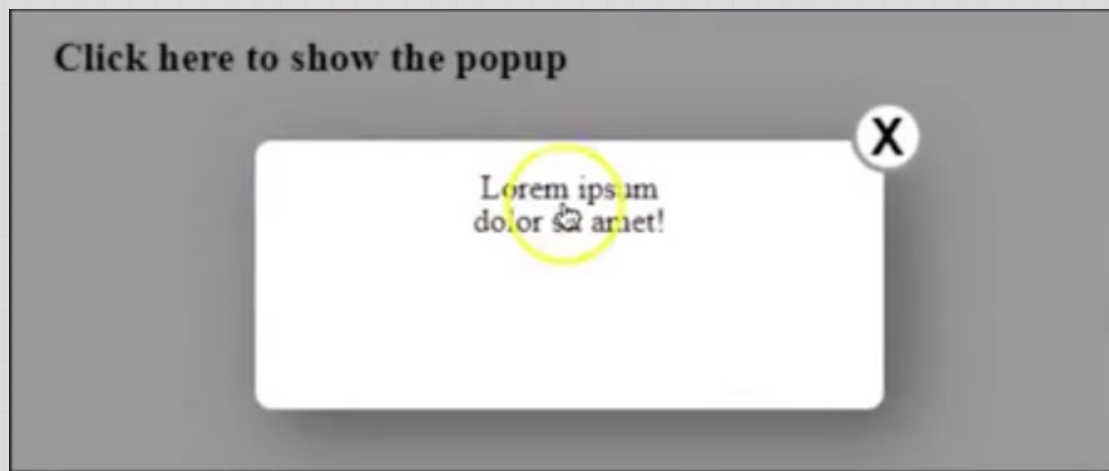
There are 2 types of Alerts (Pop Ups)

1. HTML ALERTS
2. JAVASCRIPT ALERTS



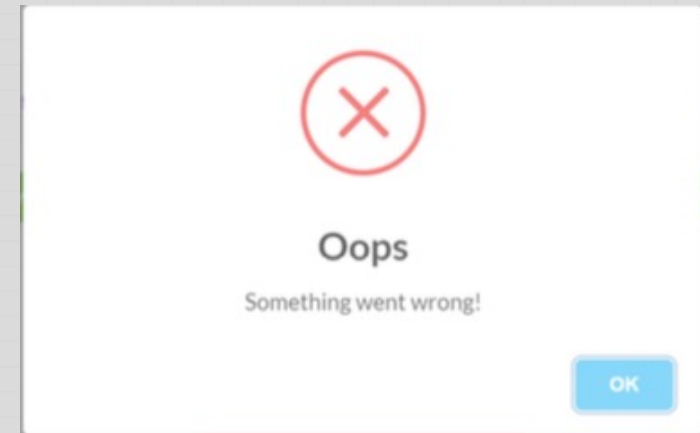
HTML ALERTS

- Part of html page
- Does not always block the web page
- Can be located using any locator



How to handle?

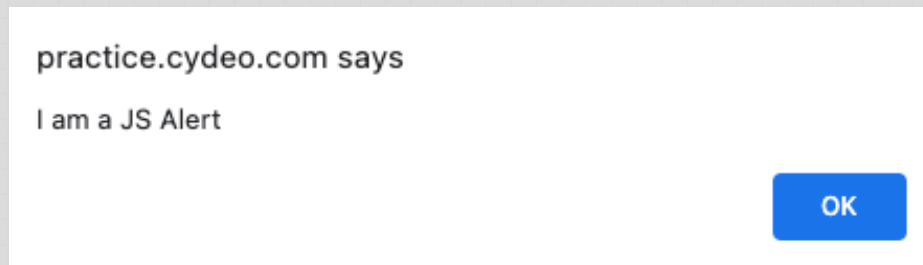
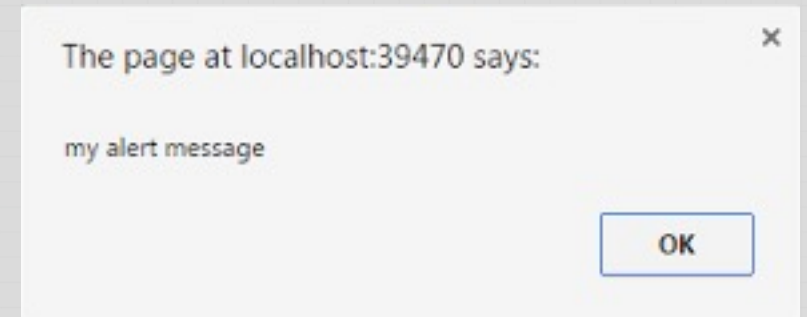
- Can be treated as regular WebElement
- Basically you can just;
 1. right click and inspect the html page
 2. Locate it using any locator
 3. Click to it, using “click()” method.

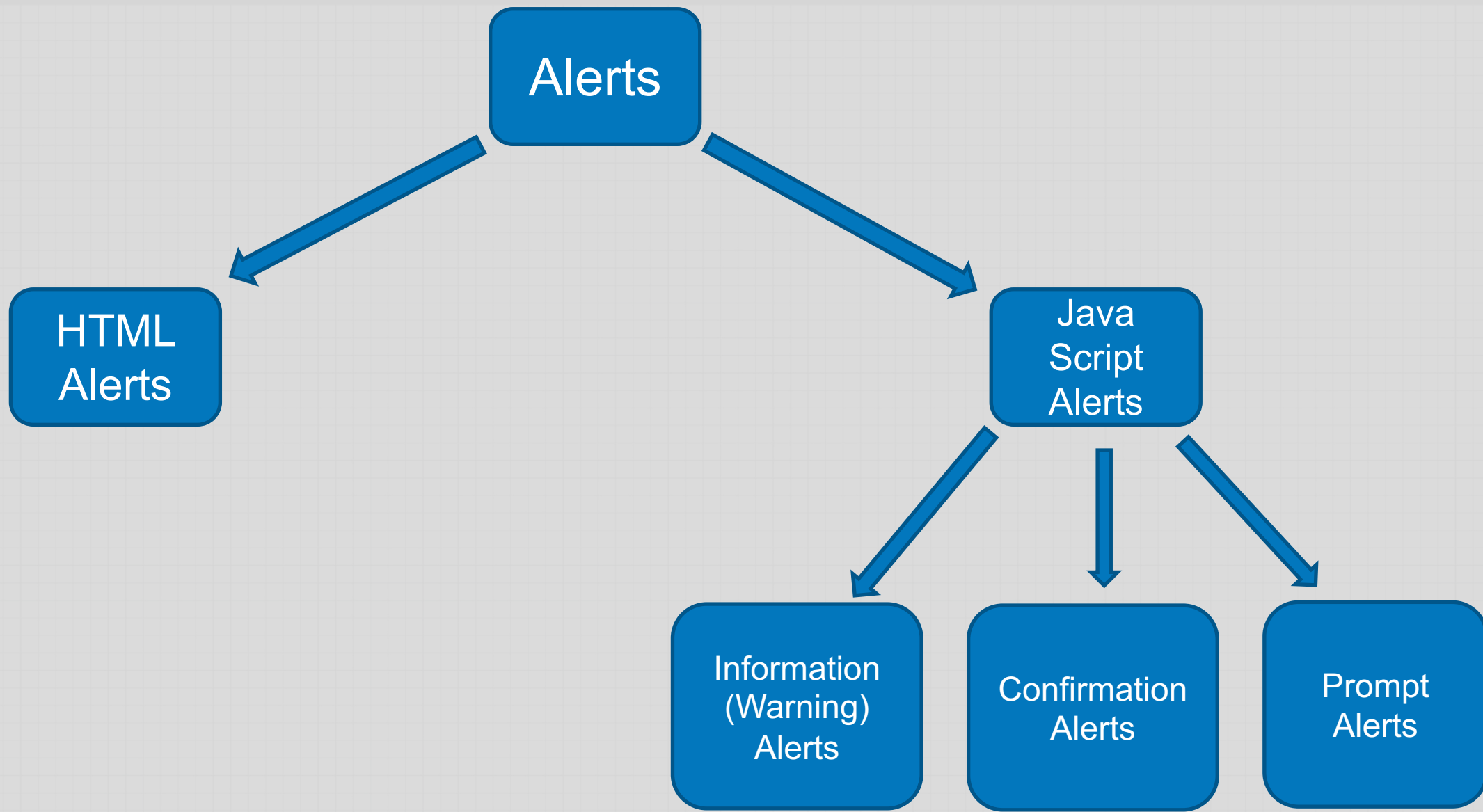


```
WebElement okBtn = driver.findElement(By.id("ok"));  
okBtn.click();
```

JavaScript alerts

- JavaScript alert is a type of a pop up
- Blocks the page when present, you can **NOT** do anything else until you deal with the alert.
- User has to accept or cancel
- Not part of html
- There are 3 types of JS Alerts.





1- Information (Warning) Alert

- You have one button only.

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I am a JS Alert

OK

This page says

Hello

OK



2- Confirmation Alert

- You have option to **accept** or **decline**.

practice.cydeo.com says

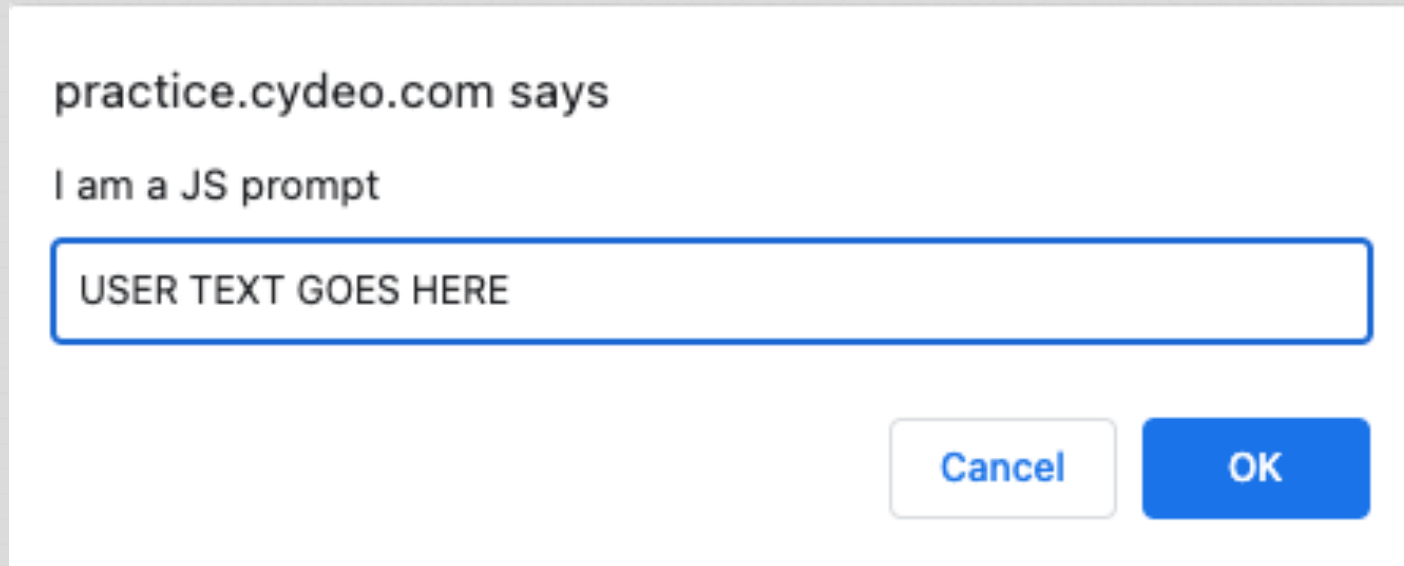
I am a JS Confirm

Cancel

OK

3- Prompt Alert

- You have option to **accept** or **decline** AND **enter text**..



practice.cydeo.com says

I am a JS prompt

Cancel OK

JavaScript alert syntax

```
Alert alert = driver.switchTo().alert();
```

```
    alert.accept();
```

```
    alert.dismiss();
```

```
    alert.sendKeys("hello");
```



Iframes

- Html page inside another html page
- Used to put content from one page into another
- Advertisements, video players, maps etc.
- Created using `<iframe>` tag
- Example iframes from: Amazon, Redfin etc.



How to handle iframes; syntax

```
WebElement iframe =  
    driver.findElement(By.tagName("iframe"));
```

```
1 driver.switchTo().frame(iframe);
```

```
2 driver.switchTo().frame(0);
```

```
3 driver.switchTo().frame("iframe-id");
```

```
driver.switchTo().parentFrame();
```

← After you are done, you need to switch back to the parentFrame.



Multiple windows (Tabs)

- For selenium, there is no difference between a tab or a window
- Every tab/window is a separate window
- Selenium can focus & control one window at a time
- We can switch to windows using window handles



What is a window handle?

- A window handle is a randomly generated UNIQUE ID for each window and/or tab
- Window handle is alphanumeric, and returned as string.
 - Alphanumeric means: consisting of or using both letters and numerals.
 - Instead of being full of letters like→ ABACVASDF
 - OR full of numbers→ 122334234523
 - It is like this → AAD7FADS0FADSF089A



Simple terms:

- Each window has a unique ID, so Selenium driver can differentiate when it is switching from one another.

How to get one window handle

```
driver.getWindowHandle();
```

➔ Returns 1 window handle as a String

This “window handle” can be stored in a String to be used later.



How to get ALL window handles

```
driver.getWindowHandles();
```

→ Returns **ALL** window handles
as a **Set of String**

- You can store it in Set<String>

How to handle windows

1. We use `driver.switchTo().window()` method
2. And we pass the handle of the window we want to switch to.
3. We use window handles and loops to switch to other windows.

```
for (String eachHandle : driver.getWindowHandles()) {  
    driver.switchTo().window(eachHandle);  
    System.out.println(driver.getTitle());  
}
```

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Chrome is being controlled by automated test software x

New Window

