



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?

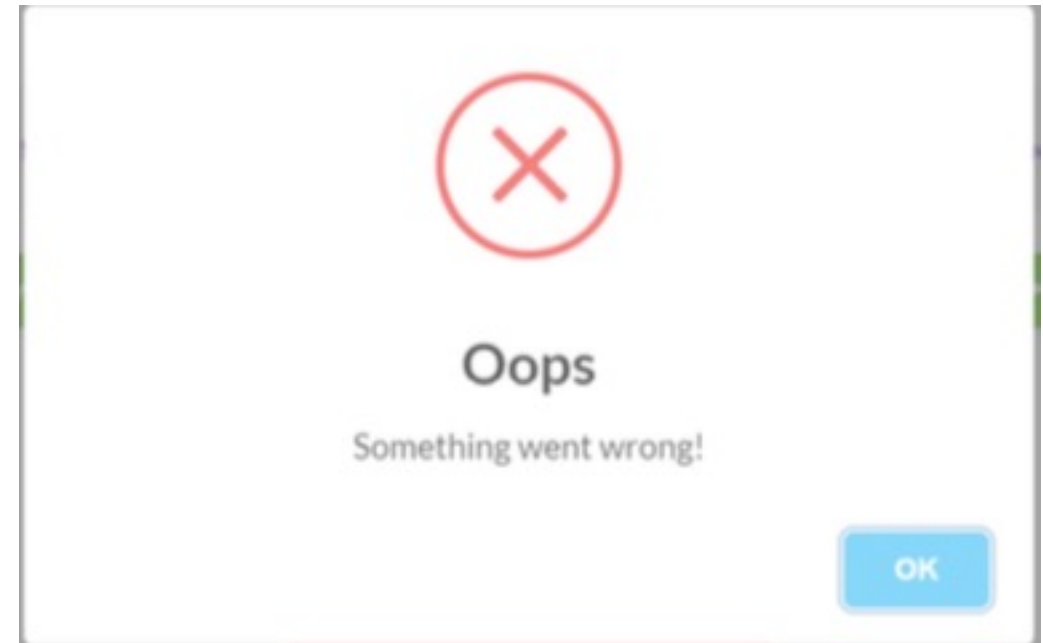
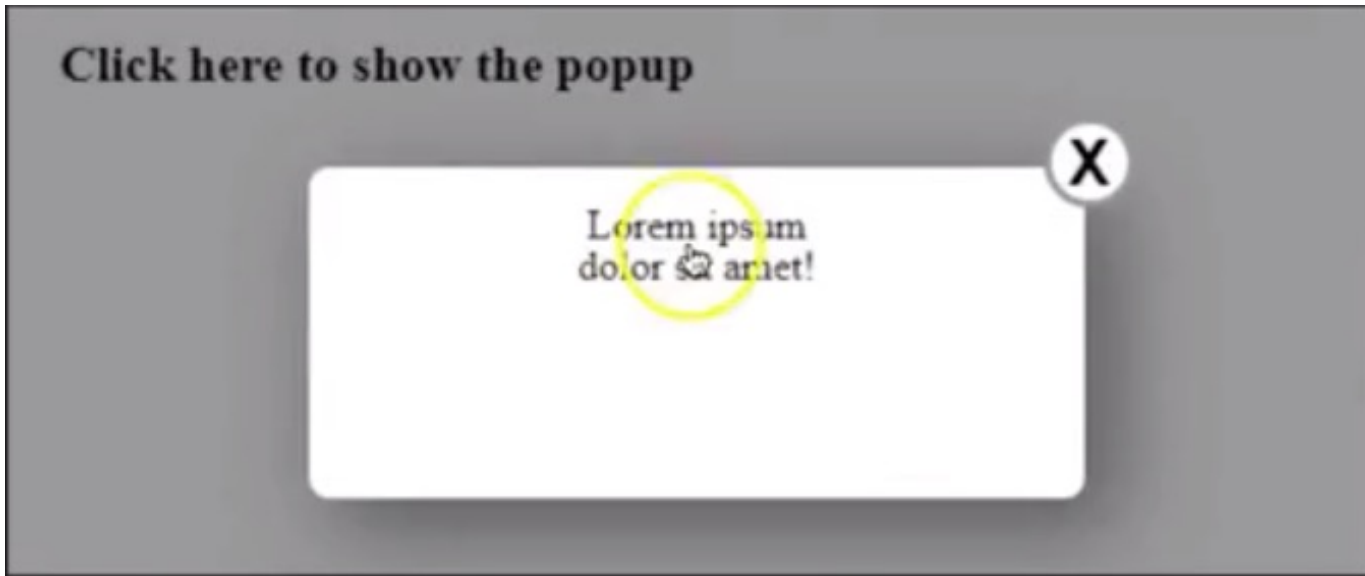
- Anything that comes out of the browser
- JavaScript alerts
- Modals
- Dialogs

There are 2 types of Alerts (Pop Ups)

1. HTML ALERTS
2. JAVASCRIPT ALERTS

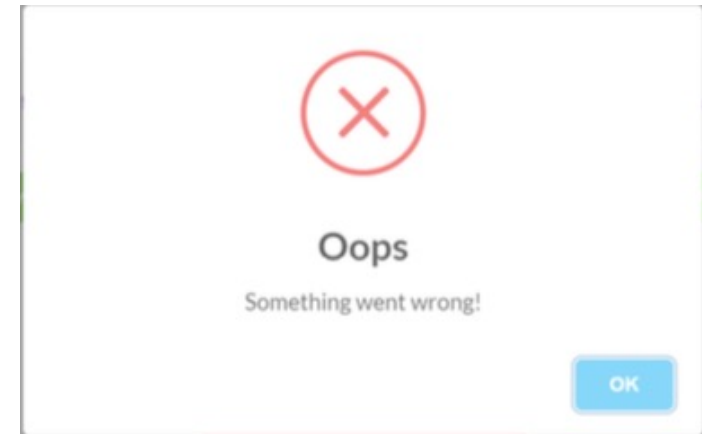
HTML ALERT

- Part of html
- Does not always block the web page
- Can be located using usual locator
- Basically you can right click and inspect



Browser pop up / HTML ALERT

- Can be treated as a regular WebElement
- Subject to same actions as click(), sendKeys() etc



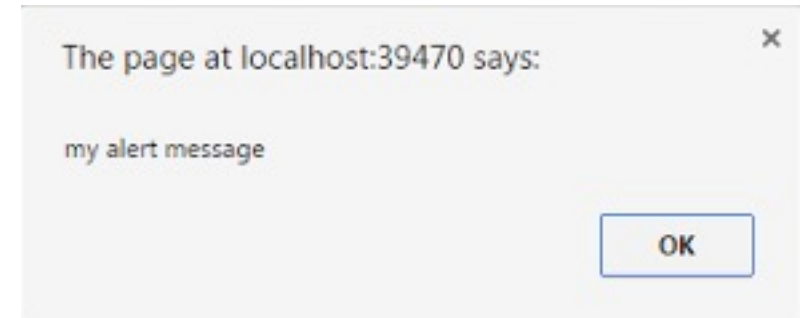
```
WebElement okBtn = driver.findElement(By.id("ok"));  
  
okBtn.click();
```

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

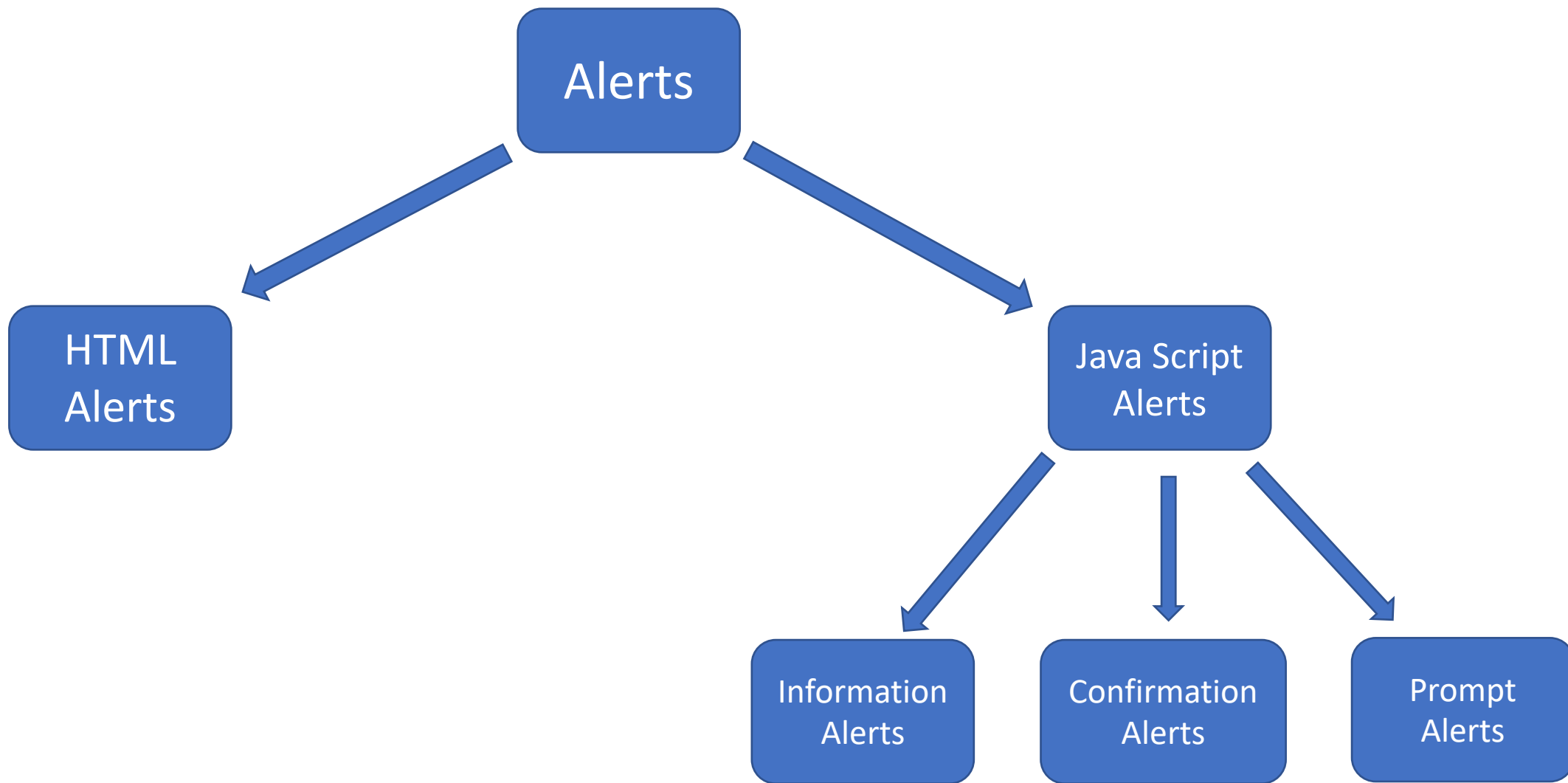
practice.cydeo.com says
I am a JS Alert

OK



There are 3 types of JavaScript alerts

1. Warning/information alert (you have one button only, just accept)
2. Confirmation alert (you have an option to say accept/decline)
3. Prompt alert (they ask something from you)



Warning/Information alert

- You have one button only.

practice.cydeo.com says

I am a JS Alert

OK

This page says

Hello

OK

Confirmation alert:

You have an option to say accept/decline

practice.cydeo.com says

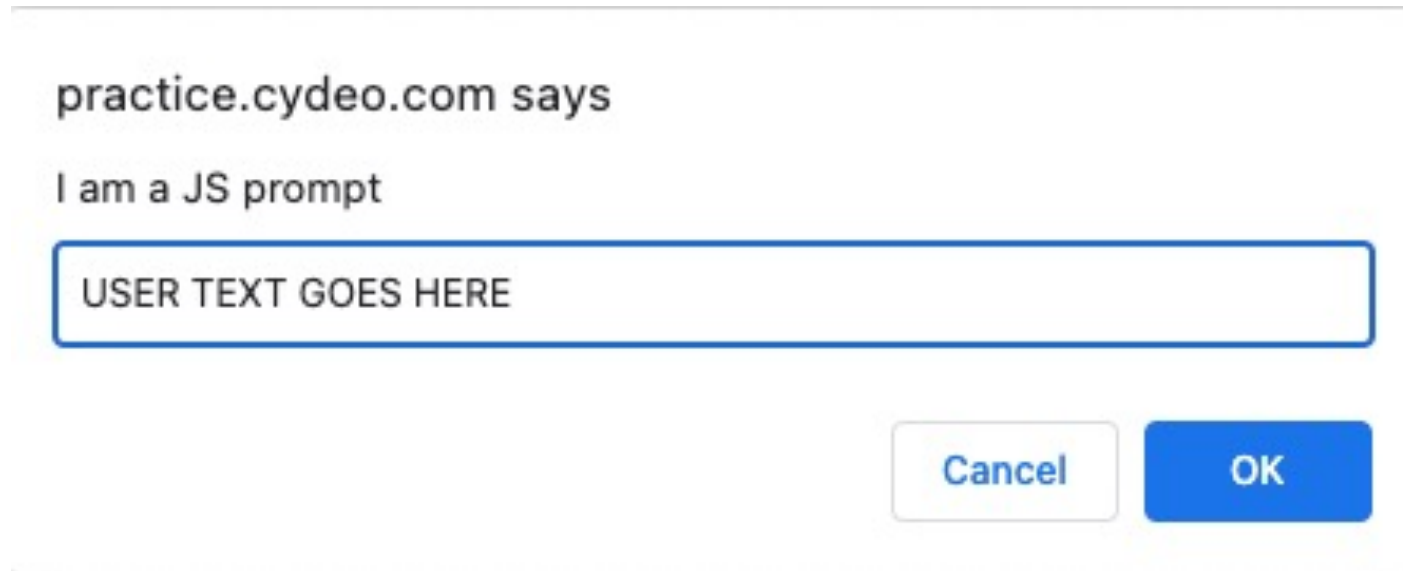
I am a JS Confirm

Cancel

OK

Prompt alert:

User is allowed to provide input inside of alert before accepting or declining.



A screenshot of a JavaScript prompt dialog box. The dialog box has a title bar that says "practice.cydeo.com says". Below the title bar, the text "I am a JS prompt" is displayed. There is a text input field with the placeholder text "USER TEXT GOES HERE". At the bottom right of the dialog box, there are two buttons: "Cancel" and "OK". The "OK" button is blue, and the "Cancel" button is white with a blue border.

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 iframe

- Amazon.com
- Redfin.com

How to handle iframe: syntax

```
1  WebElement iframe =  
    driver.findElement(By.tagName("iframe"));  
2  
3  driver.switchTo().frame(iframe);  
  
    driver.switchTo().frame(0);  
  
    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 tab or 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 like**→ **ABACVASDF**
 - **OR -> 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.

`driver.getWindowHandle()` ➔ Returns 1 window handle as a String

`driver.getWindowHandles()` ➔ Returns **ALL** window handles as a Set of String

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

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();
```

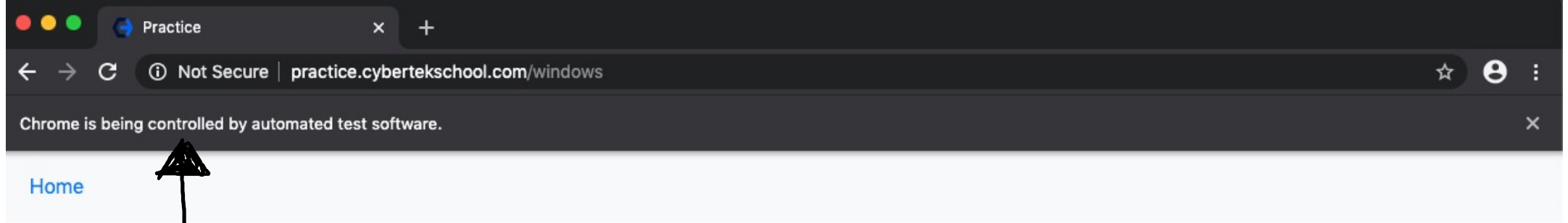
➔ Returns **ALL** window handles as a
Set of String

- You can store it in Set<String> and do same actions as List<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());  
}
```

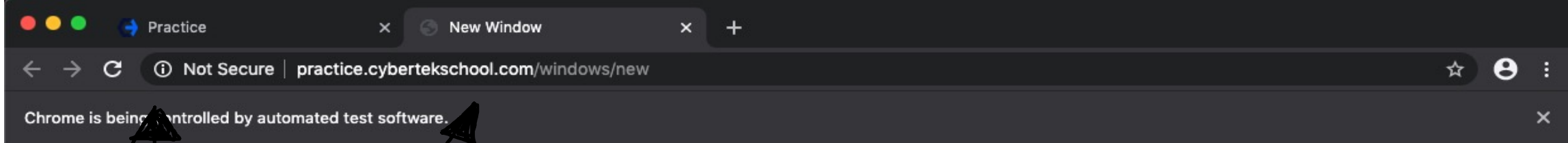



Opening a new window

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New Window

