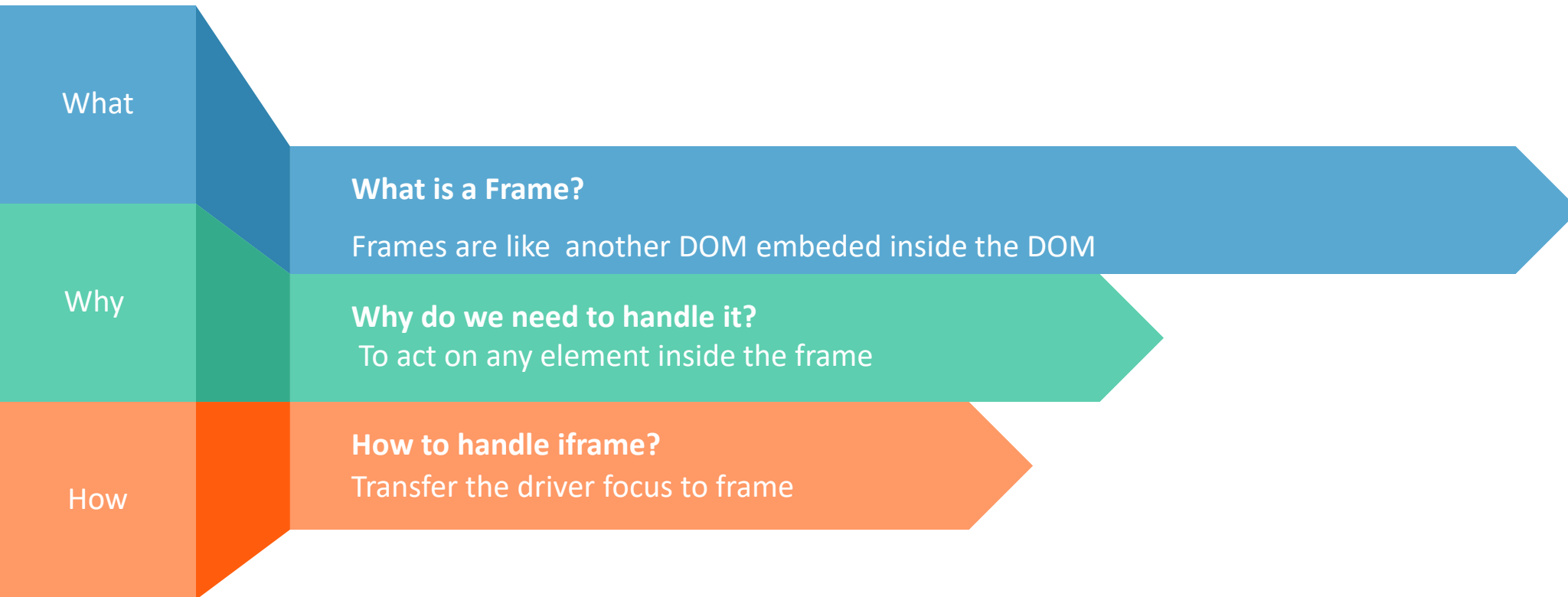


Selenium WebDriver Training

Target Locators
Frame

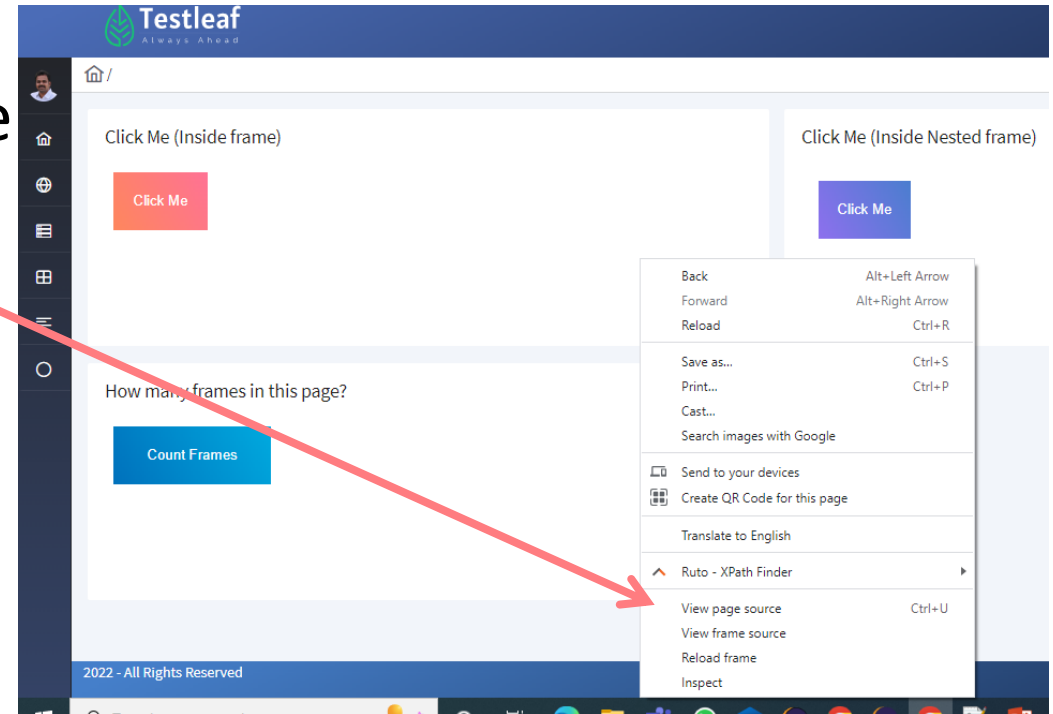
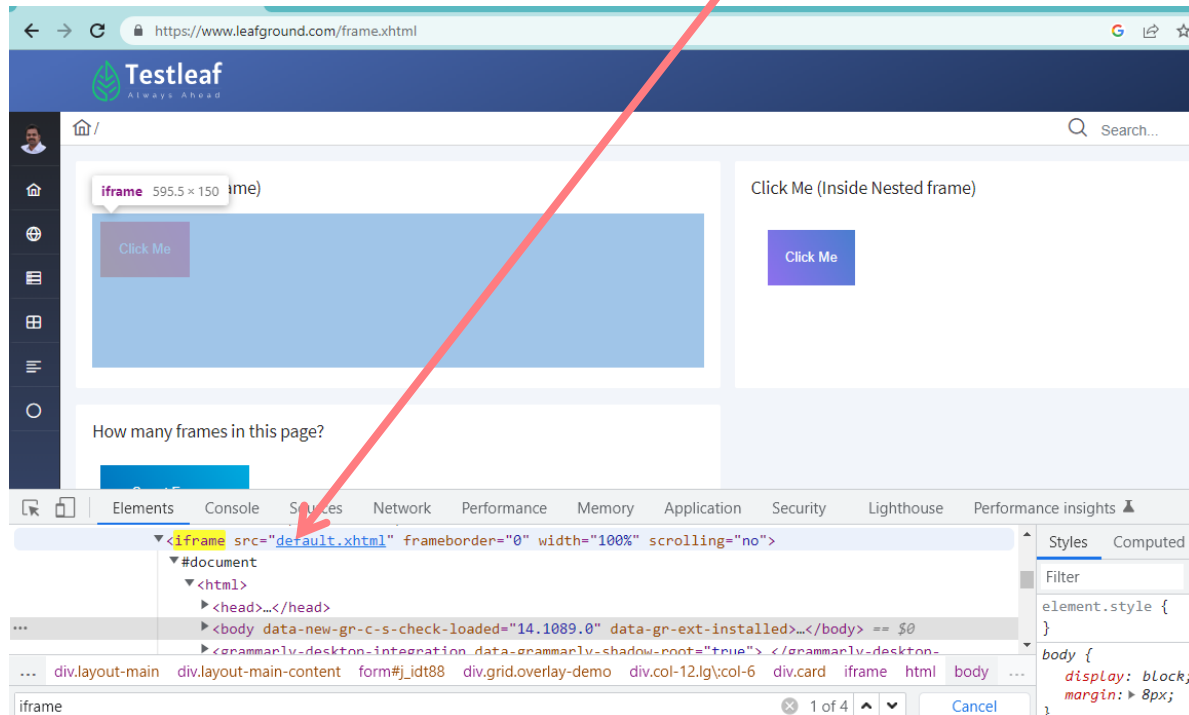
The Golden Circle



How to identify iframe..

Iframes->inline frame are identified in two ways

- By right click on Webpage → frame source
- By searching //frame in DOM



Structure of frame..

The screenshot displays a web application interface on the left and its corresponding DevTools on the right. The application, titled "Testleaf Always Ahead", features a sidebar with navigation icons and a main content area. The main content area contains a text input field with the placeholder "How many frames in this page?", a "Count Frames" button, and a blue rectangular area with a "Click Me" button. A tooltip indicates the blue area is an "iframe 604 x 150 (frame)".

The DevTools window shows the "Elements" tab, displaying the DOM tree. The structure is as follows:

- `<div class="layout-wrapper layout-wrapper-slim-sidebar slim">`
- `<div class="layout-topbar">...</div>`
- `<div class="layout-sidebar layout-sidebar-dark layout-sidebar-gradient">...</div>`
- `<div id="layout-right-sidebar">...</div>`
- `...`
- `<div class="layout-config">...</div>`
- `<div class="layout-main">` (flex)
 - `<div class="route-bar">...</div>`
 - `<div class="layout-main-content">`
 - `<form id="j_idt88" name="j_idt88" method="post" action="/frame.xhtml" enctype="x-www-form-urlencoded">`
 - `<input type="hidden" name="j_idt88" value="j_idt88">`
 - `<div class="grid overlay-demo">` (flex)
 - `<div class="col-12 lg:col-6">`
 - `<div class="card">` == \$0
 - `<h5> Click Me (Inside frame)</h5>`
 - `<iframe src="default.xhtml" frameborder="0" width="100%" scrolling="no">`
 - `#document`
 - `<html>`

Contd..

Structure of iframe..

The image shows a web application on the left and its corresponding HTML structure in DevTools on the right. The web application has a header with the Testleaf logo, a main content area with a button labeled 'Click Me', and a footer with the text '2022 - All Rights Reserved'. A tooltip over the 'Click Me' button indicates it is an 'iframe' with dimensions '604 x 150'. Below the button, there is a section titled 'How many frames in this page?' with a 'Count Frames' button. The DevTools window shows the HTML structure of the page, with the 'iframe' element highlighted. The HTML structure is as follows:

```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
  <head id="j_idt2">...</head>
  <body class="main-body ui-input-filled" data-new-gr-c-s-check-loaded="14.1089.0" data-installed-data-new-gr-c-s-loaded="14.1089.0">
    <div class="layout-wrapper layout-wrapper-slim-sidebar slim">
      <div class="layout-topbar">
        <a href="/dashboard.xhtml" class="logo">...</a>
        <a id="menu-button" href="#">...</a>
        <form id="topbarProfileForm" name="topbarProfileForm" method="post" action="/f...>
          <input type="text" value="Search">
        </form>
        <a id="right-sidebar-button" href="#">...</a>
      </div>
      <div class="layout-sidebar layout-sidebar-dark layout-sidebar-gradient">
        <div class="sidebar-scroll-content">...</div>
      </div>
      <div id="layout-right-sidebar">...</div>
      <a tabindex="0" id="layout-config-button" class="layout-config-button">...</a>
      <div class="layout-config">...</div>
      <div class="layout-main">
        <div class="route-bar">...</div>
        <div class="layout-main-content">
          <form id="j_idt88" name="j_idt88" method="post" action="/frame.xhtml" enctype="application/x-www-form-urlencoded">
            <input type="hidden" name="j_idt88" value="j_idt88">
            <div class="grid overlay-demo">
              <div class="col-12 lg:col-6">
                <div class="card">
                  <h5> Click Me (Inside frame)</h5>
                  <iframe src="/default.xhtml" frameborder="0" width="100%" scrolling="no">...</iframe>
                </div>
              </div>
            </div>
          </form>
        </div>
      </div>
    </div>
  </body>
</html>
```

HTML inside the other HTML

How to Handle it ?

To handle alert

- ✓ Transfer the driver focus into frame

syntax:

driver.switchTo().frame(args);



Note: Return type of it is *WebDriver interface*
and the implementation class is
RemoteWebDriver

Ways to SwitchTo frame

Using Index

- `driver.switchTo().frame(int index)`
- Index starts with 0

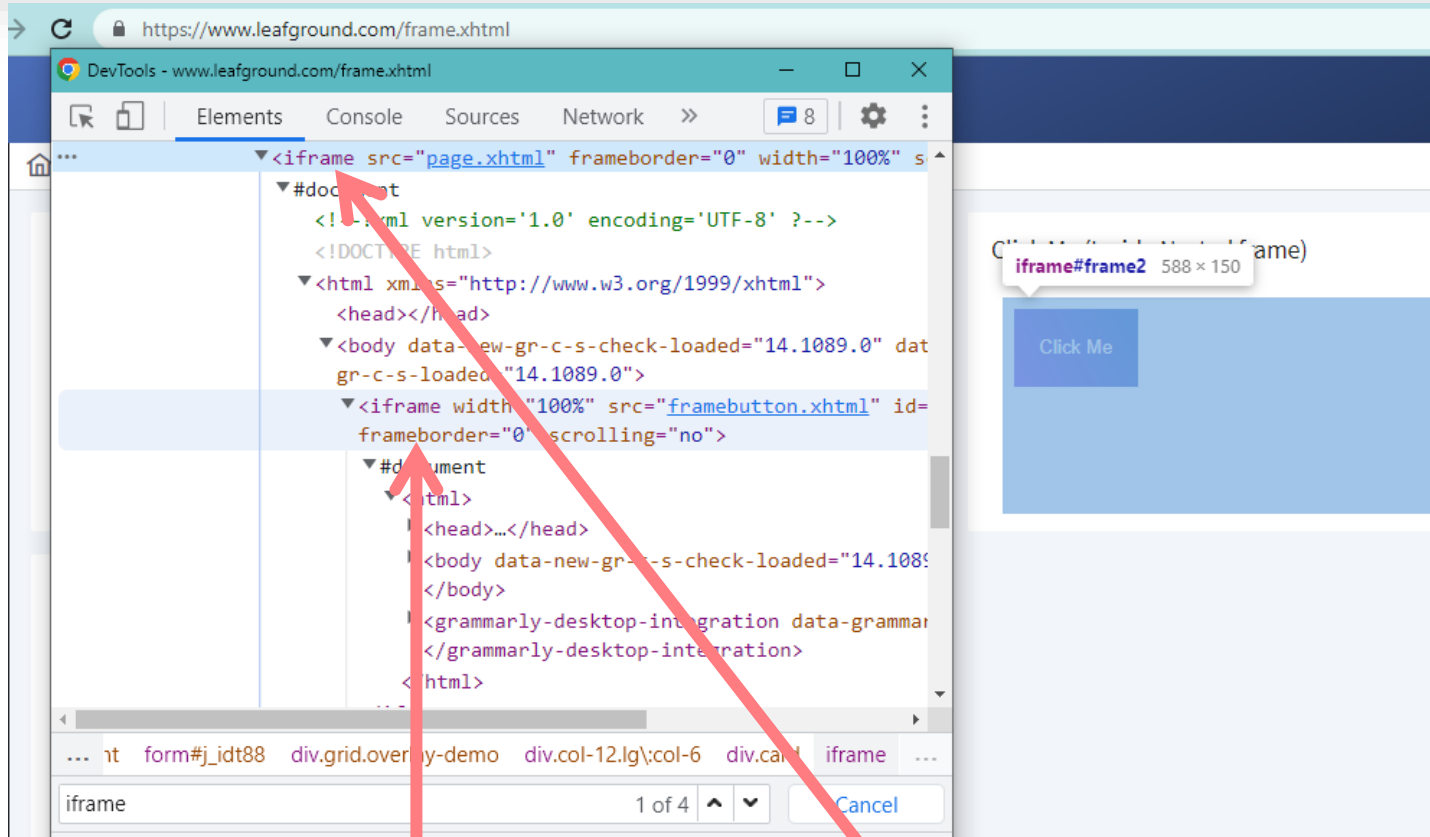
Using id/name attribute

- `driver.switchTo().frame(String id/Attribute);`

Using WebElement

- `driver.switchTo().frame(driver.findElement(WebElement))`

Nested Frames



Frame inside another frame

How to handle nested frame

- possible to switch between the frames using index, String id/name or WebElement

- take the driver focus to the main content of Webpage

driver.switchTo().defaultContent();

```
WebDriver frame = driver.switchTo().frame(0);
WebElement firframe = driver.findElement(By.id("Click"));
firframe.click();
System.out.println(firframe.getText());
//to return to the main content of the page
driver.switchTo().defaultContent();
```

- take the driver focus to the immediate parent frame

driver.switchTo().parentFrame();

Classroom

Launch the url:

https://www.w3schools.com/js/tryit.asp?file=tryjs_confirm

Click Try It Button

Click OK/Cancel in the alert

Confirm the action is performed correctly by verifying the text !!

Hint

Switch to the frame

Then click Try It with xpath

Switch to the alert and Enter your name in alert box

Then perform accept / dismiss

Get the text using id

Verify the text based on the action

Summary

- Iframe-> inline frame → dom inside other dom
- To handled by switching the driver control into the frame
- 3 ways -> by index, by frame id/name , by frame as web element