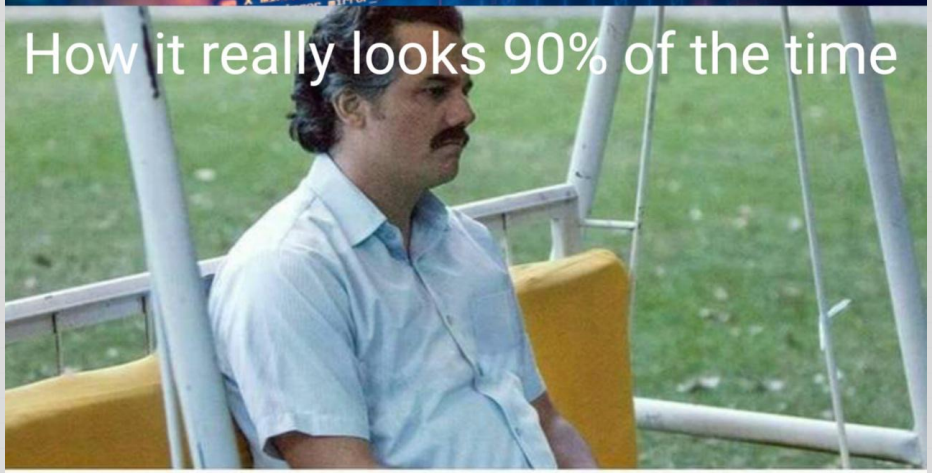
CYDEO

How people think programming looks


How it really looks 90% of the time

What Will We Cover Today?

- findElement vs findElements
- ImplicitlyWait
- Checkboxes
- Radio buttons
- StaleElementReferenceException

findElement() method

- This method is used to locate a single web element
- Returns a single web element
- Return type is:
- WebElement
- If it cannot find the given WebElement:
- Throws NoSuchElementException

findElements() method

- This method is used to locate more than one web element
- Locates and returns all the matching web elements in a list
- Return type is:
- List<WebElement>
- If it cannot find the given WebElement:
- Does NOT throw exception.
- Returns an empty list.

Implicitly Wait

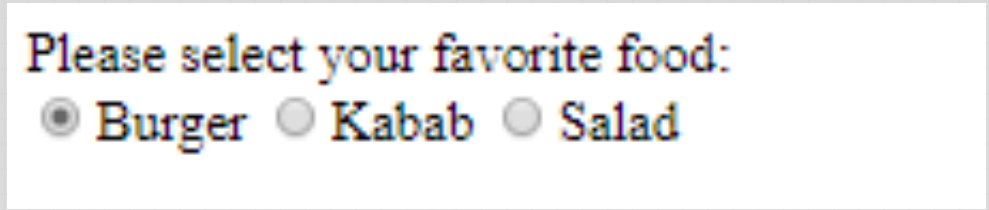
- Implicit wait is a type of Selenium wait.
- It will check the DOM (HTML Page) and wait until given seconds
- It is triggered only if a web element is not found.
- It does not have to wait all the given seconds, and will continue if condition is met.
- By default it exist, but the value of it is 0. So its basically turned off.

<input> radio button

- <input type="radio" name="food" value="burger">
- Radio buttons allows users to pick just one of a number of options

<input> radio button

```
<form>
    <p>Please select your favorite food:
    <br/>
    <input type="radio" name="food" value="burger"
     checked="checked"/>Burger
    <input type="radio" name="food" value="Kabab"/>Kabab
    <input type="radio" name="food" value="Salad"/>Salad
    </p>
</form>
```

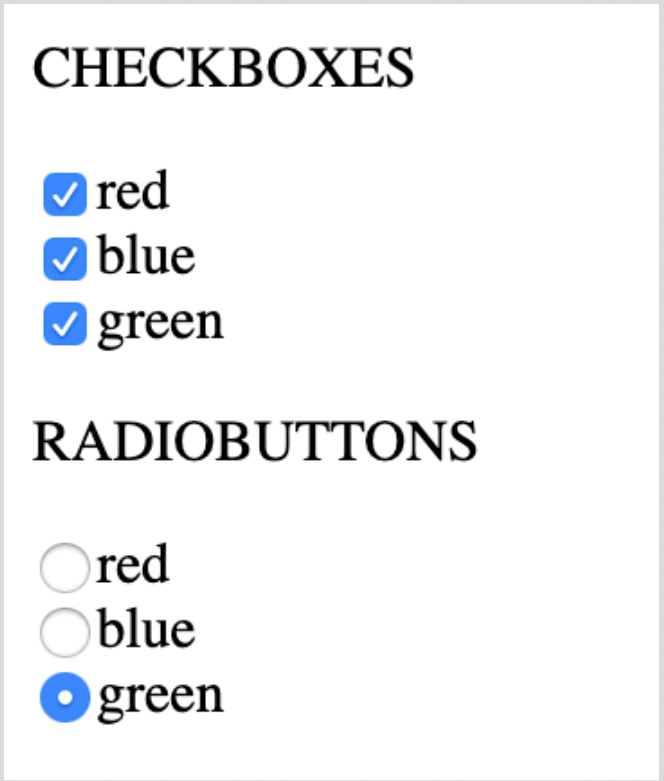


<input> checkbox

- <input type="checkbox" name="food" value="burger">
- Checkboxes allows users to select just one or more options
- User can also unselect any value

What are the differences between ‘checkboxes’ and ‘radio buttons’ ?

- Each checkbox operates individually.
- Options are independent from each other.
- Users can select and unselect multiple options.
- ----------
- Radio buttons operate as a group.
- User can only select one option from given options.



What are the differences between ‘checkboxes’ and ‘radio buttons’ ?

```
<h2>Select your car (s)</h2>
<input type="checkbox" name="option1" value="mercedes">mercedes <br>
<input type="checkbox" name="option2" value="bmw">bmw <br>
<input type="checkbox" name="option3" value="toyota">toyota <br>
<h2>Select one color</h2>
<input type="radio" name="option" value="red">red
<input type="radio" name="option" value="blue">blue
<input type="radio" name="option" value="green">green
```

How do we handle checkboxes and radio buttons in Selenium?

- First we locate, then we click.
- .isSelected(); method:
  - If selected: will return true
  - If not selected: will return false

Syntax:

- WebElement checkbox = driver.findElement(By.locator);
- checkbox.click();
- checkbox.isSelected(); → will return true if checkbox is selected.

What is StaleElementReferenceException?

- What does "stale" mean?

What is StaleElementReferenceException?

- Usually throws when navigation (refresh, forward, back) happens
- OR
- When the element is deleted from the page
- The driver loses its reference of the web element and throws this exception
- https://www.selenium.dev/exceptions/#stale_element_reference

When does it happen?

- When the element is completely deleted from the page.
- When navigation happens on the page.

When does it happen?

driver

Home

No A/B Test

Also known as split testing. This is a way in which businesses are able to simultaneously test and learn from different versions of a page to see which text and/or functionality works best towards a desired outcome (e.g. a user action such as a click-through).

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StaleElementReference

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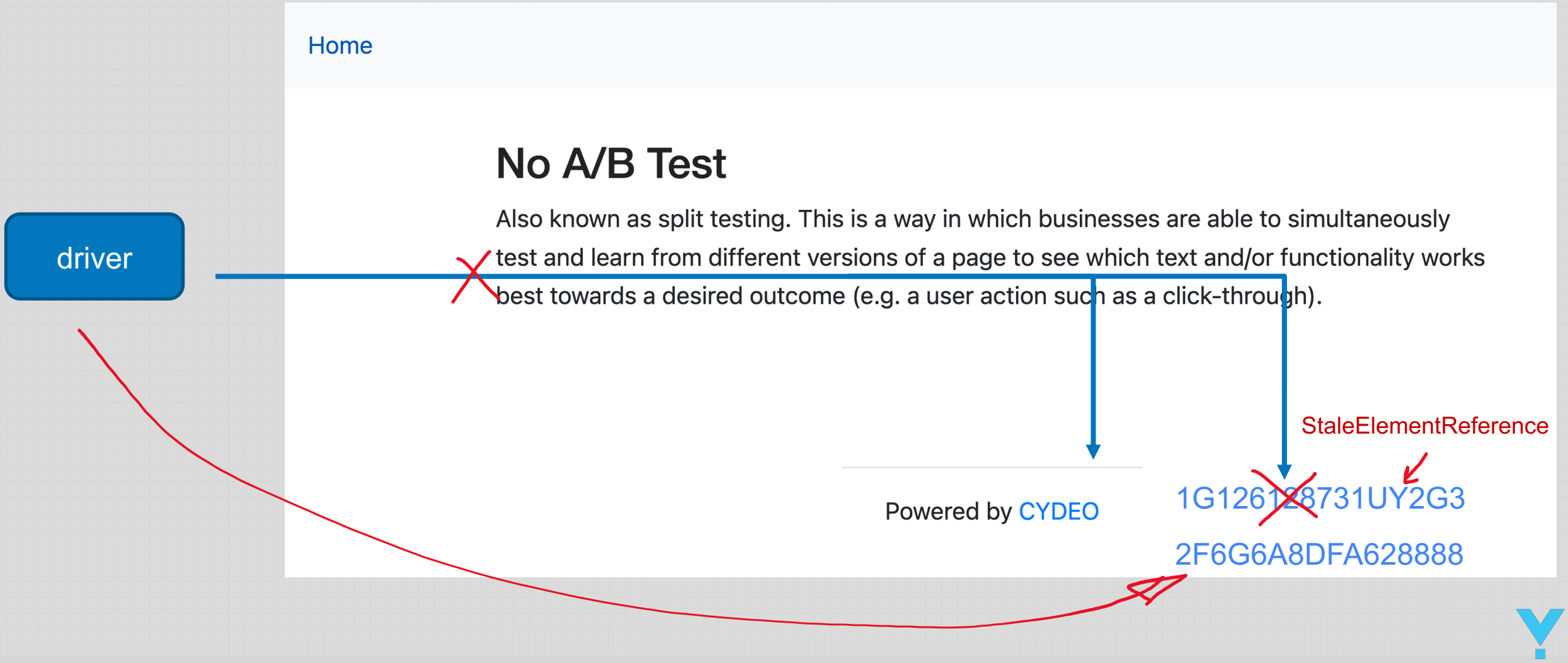
When does it happen?



How to handle StaleElementReferenceException?

- If StaleElementReferenceException is happening due to element being deleted from the page, then we can handle the situation using try/catch to avoid exception being thrown and set our own condition.
- If StaleElementReferenceException happening due to navigate, we can re-assign the reference/connection of the web element.