

# Introduction To Xpath



Important strategy to locate elements in Selenium

Xpath is a language to query XML documents

It consists of a path expression along with some conditions

XPath can be also defined as **XML path**

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# XML Document

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# XML Document

---

```
<bookstore>
<book category= "cooking">
<title lang="en">Everyday Chinese</title>
<author>K.S.Bose</author>
<book>
<book category= "children">
<title lang="en">Harry Potter</title>
<author>J.K. Rowling</author>
<book>
```

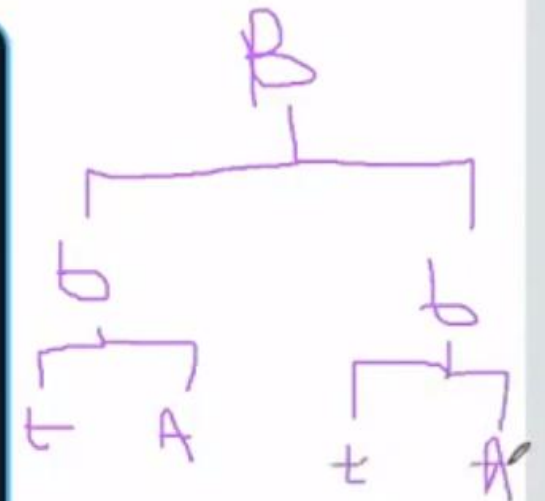
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</bookstore>
```



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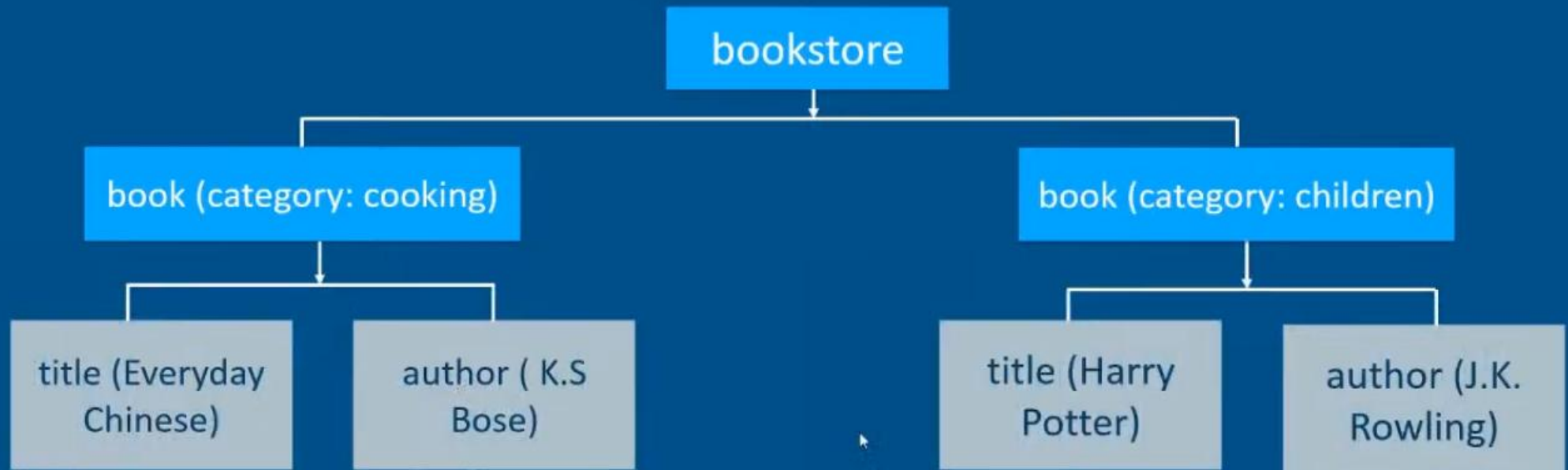




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# XML Tree



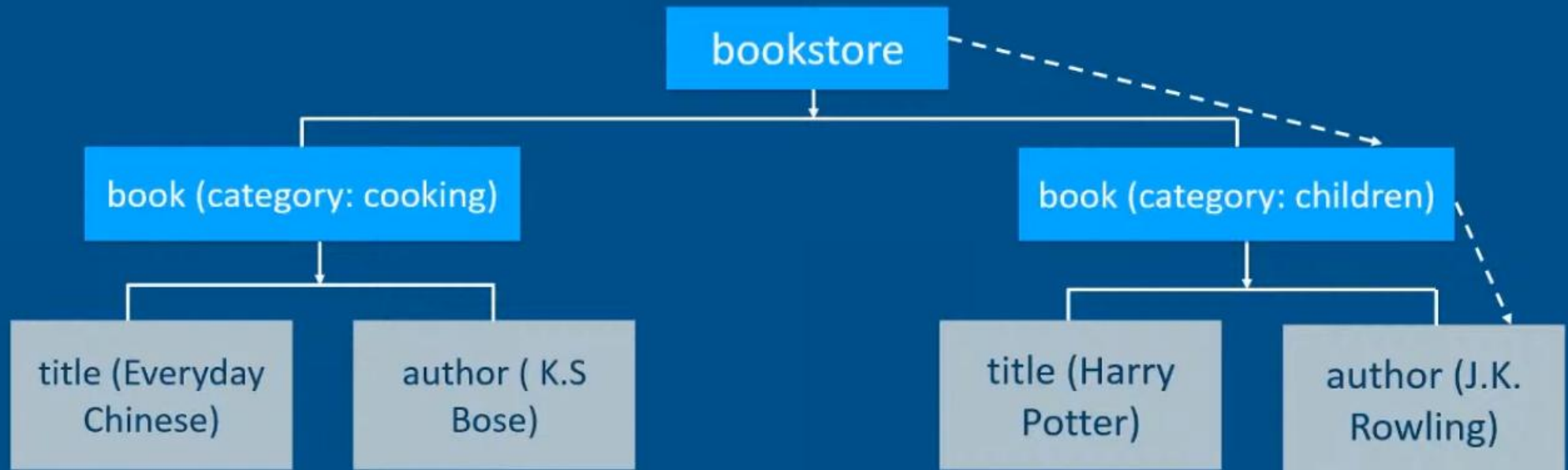
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# XML Tree



Xpath = `/bookstore/book[@category='children']/author`

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# Benefits of Xpath

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- 1 Queries are compact
- 2 Queries are easily parsed
- 3 Queries are easy to read & type
- 4 Queries do not return repeated nodes
- 5 Syntax is simple for simple and common cases
- 6 You can uniquely identify any node in XML Document

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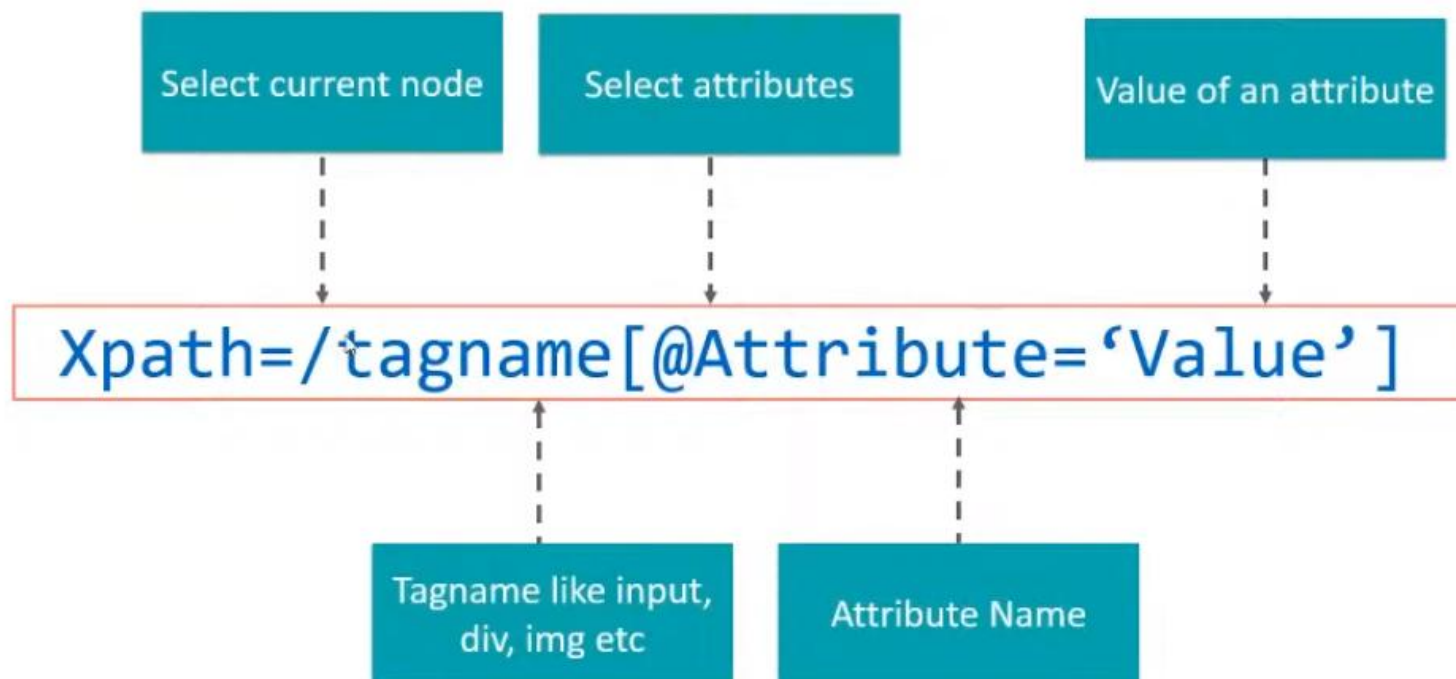
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# Syntax and Terminology



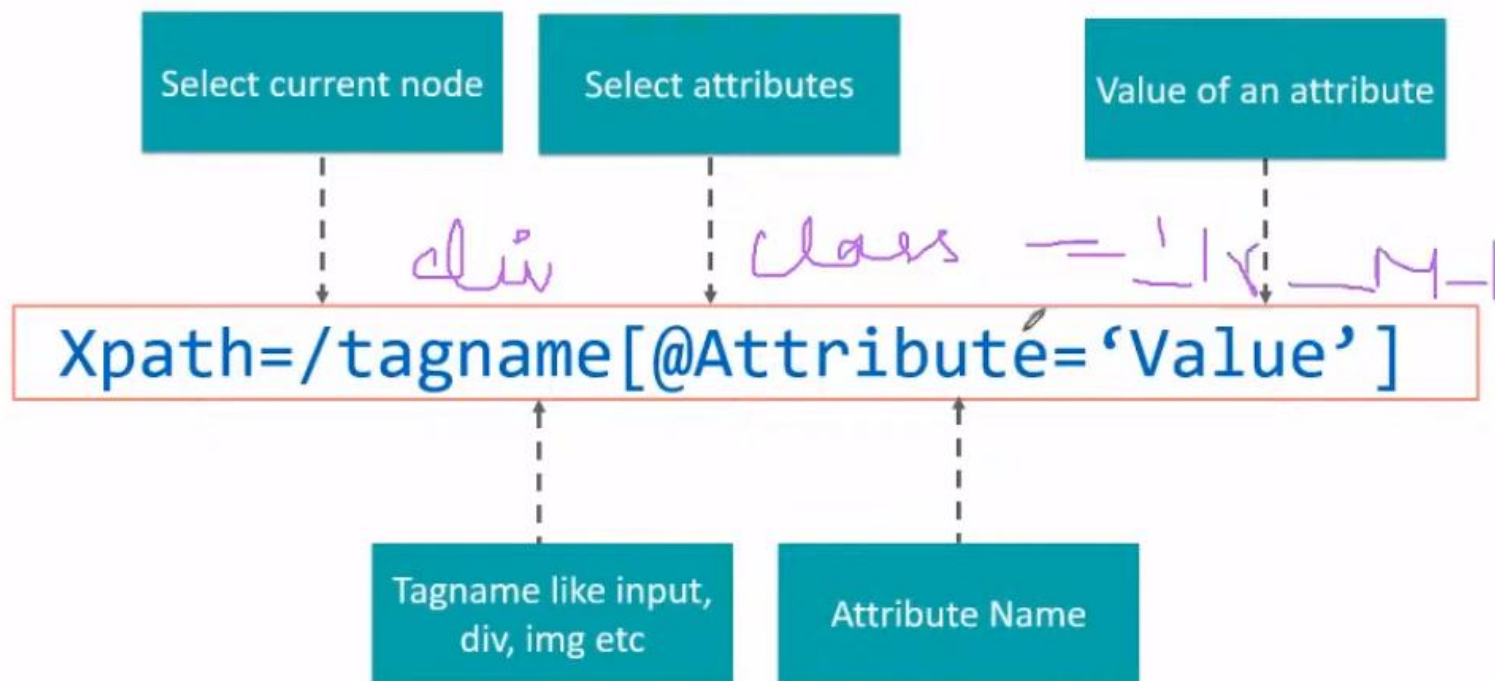
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# Syntax and Terminology



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# Types of XPATH

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# Types of Xpath

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Absolute Xpath

Relative Xpath

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# Types of Xpath

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Absolute Xpath

Relative Xpath

It is the direct way to find the element, but the disadvantage of the absolute XPath is that if there are any changes made in the path of the element then that XPath gets failed.

Ex: `/html/body/div[1]/section/div[1]/div`

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# Types of Xpath

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Absolute Xpath

Relative Xpath

For, Relative Xpath the path starts from the middle of the HTML DOM structure. It starts with the double forward slash (//), which means it can search the element anywhere at the webpage

Ex: `//input[@id='ap_email']`

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# Xpath Functions

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# Xpath Functions

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contains( )

starts-with()

text()

contains() is a method used in XPath expression. It is used when the value of any attribute changes dynamically, for example, login information.

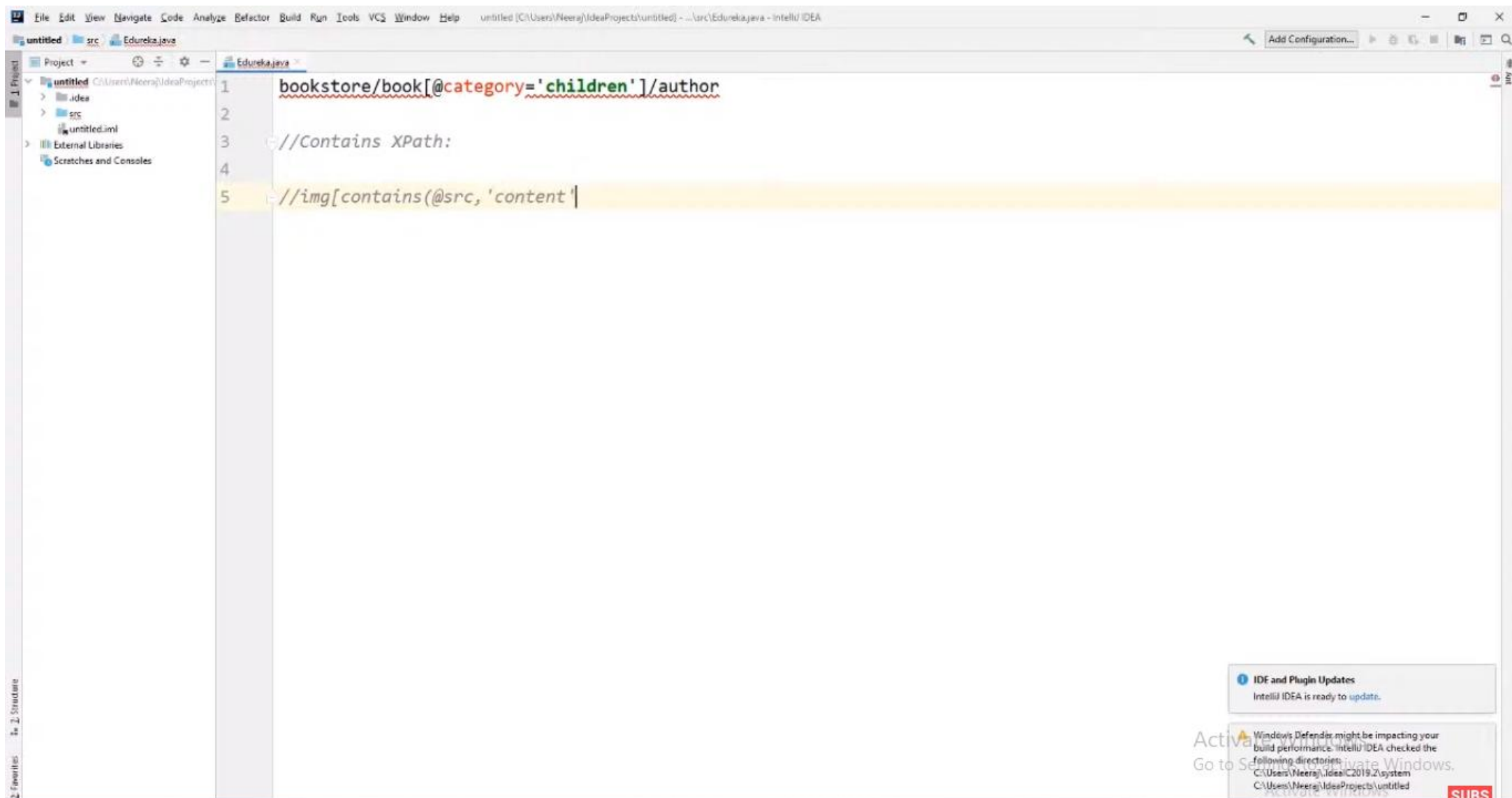
Syntax:

```
Xpath=//*[contains(@type,'sub')]
```

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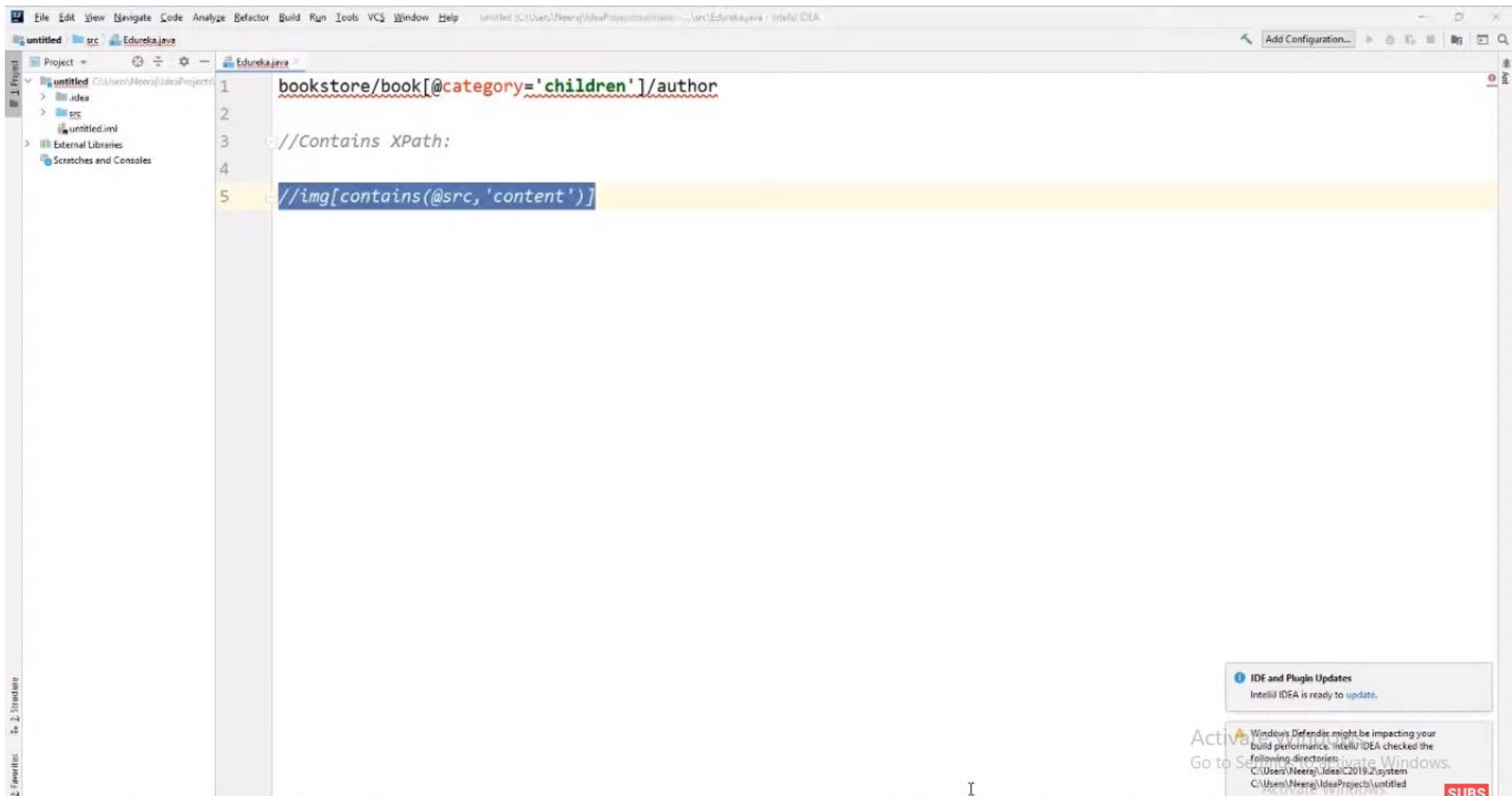
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# Xpath Functions

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contains( )

starts-with()

text()

starts-with function finds the element whose attribute value changes on refresh or any operation on the webpage.

Syntax:

```
Xpath=//label[starts-with(@id,'message')]
```

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## XPath in Selenium Webdriver | Selenium XPath | Selenium Training | Edureka | Selenium Rewind - 1

```
1 package Edureka;
2 import java.util.concurrent.TimeUnit;
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.WebElement;
6 import org.openqa.selenium.chrome.ChromeDriver;
7
8 public class CustomXPath {
9     public static void main(String[] args) {
10         System.setProperty("WebDriver.chrome.driver", "C:\\Selenium-java-edureka\\chromedriver_wind32\\chromedriver.exe");
11         WebDriver driver = new ChromeDriver();
12         driver.manage().window().maximize();
13         driver.manage().deleteAllCookies();
14         driver.manage().timeouts().pageLoadTimeout(time: 40, TimeUnit.SECONDS);
15         driver.manage().timeouts().implicitlyWait(time: 30, TimeUnit.SECONDS);
16         driver.get("<a href='https://www.ebay.com/'>http://www.ebay.com/</a>");
17         driver.findElement(By.xpath("//input[@id='gh-ac']")).sendKeys("Guitar"); //xpath for search box
18         WebElement searchIcon = driver.findElement(By.xpath("//input[@id='gh-btn']")); //xpath for button
19         searchIcon.click();
20     }
21 }
22
```

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