



XPath Basics

>_ Select an element by ID

```
//[@id='elementId']
```

>_ Select an element by name

```
//[@name='elementName']
```

>_ Select an element by class

```
//[@class='elementClass']
```

>_ Select all elements with a specific tag name

```
//tagName
```

XPath Predicates

>_ Select the nth element

```
//element[n]
```

>_ Select elements based on text content

```
//element[text()='text']
```

>_ Select elements based on attribute value

```
//element[@attribute='value']
```

>_ Select elements where attribute contains a value

```
//element[contains(@attribute, 'value')]
```

CSS Combinators

>_ Select child elements

```
parent > child
```

>_ Select descendant elements

```
ancestor descendant
```

>_ Select sibling elements

```
element1 + element2
```

>_ Select general sibling elements

```
element1 ~ element2
```

XPath Axes

>_ Select the parent element

```
/..
```

>_ Select all child elements

```
/*
```

>_ Select the following sibling element

```
/following-sibling::*
```

>_ Select the preceding sibling element

```
/preceding-sibling::*
```

CSS Selectors

>_ Select an element by ID

```
#elementId
```

>_ Select an element by class

```
.elementClass
```

>_ Select an element by tag name

```
tagName
```

>_ Select element by attribute

```
[attribute='value']
```

Advanced Techniques

>_ Using XPath functions (e.g., starts-with)

```
//element[starts-with(@attribute, 'value')]
```

>_ Using CSS pseudo-classes (e.g., :nth-child)

```
element:nth-child(n)
```

>_ Selecting elements based on position

```
//element[last()]
```

>_ Combining XPath and CSS Selectors (browser specific)

```
Note: Combining is generally not recommended for cross-browser compatibility
```



Master XPath and CSS Selectors for Selenium WebDriver!

Become a confident web automation engineer by mastering XPath and CSS selectors. Learn to efficiently locate and interact with web elements for robust and reliable Selenium tests.

- Comprehensive guide to XPath expressions
- Mastering CSS selectors for efficient element targeting
- Advanced techniques for complex scenarios
- Practical examples and exercises
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