




# How to find Xpath?

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# Agenda

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- Type of Xpath
- Basic Xpath
- Contains()
- OR and AND
- Start-with and End-with
- Text()
- Others function

Reference: <https://developer.mozilla.org/en-US/docs/Web/XPath/Functions>

# Type of XPath

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## 1. Absolute Xpath

Ex. `/html/body/div/div[1]/nav[1]/div/div[2]/ul/li[2]/div/a`

## 2. Relative Xpath

Ex. `//a[@id="dropdownMenuLink"]`

# Basic of XPath

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Xpath=//input[@type='text']

Xpath=//label[@id='message23']

Xpath=//input[@value='RESET']

Xpath=//\*[@class='barone']

Xpath=//a[@href='http://demo.guru99.com/']

Xpath= //img[@src='//cdn.guru99.com/images/home/java.png']

# Contains

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## Source:

```
<input type="submit" value="Login" name="btnLogin" />
```

```
<input type="reset" value="RESET" name="btnReset" />
```

```
<div class="Button_Middle_c2_SD35S" />
```

## XPath:

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

```
Xpath=//*[contains(@name,'btn')]
```

```
Xpath=//div[contains(@class, \"Button_Middle\")]
```

# And & Or

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Source:

```
<input type="Submit" name="btnLogin" value="LOGIN"/>
```

```
<input type="reset" name="btnReset" value="RESET"/>
```

XPath:

```
Xpath=//*[@type="submit" and @name="btnLogin"]
```

```
Xpath=//*[@type="submit" or @name="btnReset"]
```

# Starts-with & Ends-with

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Source:

```
<strong> General Engineering Courses</strong>
```

```
<input type="Submit" name="btnLogin" value="LOGIN"/>
```

Xpath:

```
Xpath=//*[@starts-with(text(), 'General')]
```

```
Xpath=//*[@ends-with(@name, 'Login')]
```

# Text()

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Source:

```
<td align="right">UserID</td>
```

Xpath:

```
Xpath=//td[text()='UserID']
```

```
Xpath=//tc[contains(text(), \"User\")]
```



# Following = all elements current nodes

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source:

```
<input type="text" name="uid" maxlength="10" onkeyup="validateuserid();"
onblur="validateuserid();">
```

```
<input type="password" name="password" onkeyup="validatepassword();"
onblur="validatepassword();">    □ This
```

Xpath:

```
Xpath=//*[@type='text']//following::input[2]
```

# Ancestor = All Ancestor element

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source:

<td> □ This

```
<input type="text" name="uid" maxlength="10" onkeyup="validateuserid();"
onblur="validateuserid();">
```

```
<input type="password" name="password" onkeyup="validatepassword();"
onblur="validatepassword();">
```

</td>

Xpath:

```
Xpath=//input[@name="uid"]//ancestor::td[1]
```

# Child = All children elements

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Source:

```
<ul class="menu" id="java_technologies">  
<li><a href="aaa.html">Software Testing</a></li>   □ This  
<li><a href="aaa.html">Mobile Testing</a></li>  
</ul>
```

Xpath:

```
Xpath=//*[@id='java_technologies']//child::li[1]
```

# Proceeding = All nodes before current node

Source:

`<input type="Submit" name="btnLogin" value="LOGIN"/>`    ☐ This

`<input type="reset" name="btnReset" value="RESET"/>`

`<input type="submit"/>`

Xpath:

Xpath=`//*[@type='submit']//preceding::input[1]`

# Following-Sibling

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Source:

```
<input type="submit" value="Login" name="btnLogin" />
```

```
<input type="reset" value="Reset" name="btnReset" /> <-- This
```

Xpath:

```
Xpath=//*[@type='submit']//following-sibling::input
```

# Parent

---

Source:

```
<div id='rt-mainbody'> <-- This  
  <div id='rt-feature'> <id id='rt-compnent'>  
    </div></div></div>
```

Xpath:

```
Xpath=//*[@id='rt-feature']//parent::div[1]
```

# Normalize-space

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Source:

```
<input name=" card " />
```

```
<div name="uid"> username </div>
```

Xpath:

```
Xpath=//input[normalize-space(@name)="card\"]
```

```
Xpath=//div[normalize-space(text())="username\"]
```

# UpperLeven tag

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Source:

```
<div>abc
```

```
<div classs="input_234234324"></div></div>
```

Xpath:

```
Xpath=//div[div[contains(@class, 'input')]]
```

```
-> getText()=abc
```



# Array of Xpath

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Source:

<div>

<div>

<div>

<div></div> <-- This

</div></div></div>

Xpath:

Xpath=(//div)[4]