## **CSS to XPath Conversion Guide**

### **Targeting using Element Tags**

| Description | CSS | XPath |
| --- | --- | --- |
| Any element | \* | //\* |
| Any <p> element | p | //p |
| Any <div> element | div | //div |

### **Targeting using Attributes**

| Description | CSS | XPath |
| --- | --- | --- |
| Any <button> where name equals send | button[name="send"] | //button[@name="send"] |
| Any element where type equals submit | [type="submit"] | //\*[@type="submit"] |
| Any element where href begins with abc | [href^="abc"] | //\*[starts-with(@href, "abc")] |
| Any element where href ends with xyz | [href$="abc"] | //\*[ends-with(@href, "abc")] |
| Any element where href contains mno | [href\*="mno"] | //\*[contains(@href, "abc")] |

**Targeting using IDs**

| Description | CSS | XPath |
| --- | --- | --- |
| Any element where id equals sample | #sample | //\*[@id="sample"] |

**Targeting using Classes**

| Description | CSS | XPath |
| --- | --- | --- |
| Any element where class includes highlight | .highlight | //\*[contains(concat(" ", @class, " "), " highlight ")] |
| Any element where class includes highlight | .highlight | //\*[@class="highlight")] |

### **Targeting using Contents**

| Description | CSS | XPath |
| --- | --- | --- |
| Any h1 element containing text Dashboard | h1:contains("Dashboard") | //h1[contains(text(), "Dashboard")] |

**Targeting using Hierarchy**

Leveraging hierarchy allows us to match descendent elements that are nested inside of other elements. Here's some sample HTML to help clarify the difference between a "child" and a "descendent".

<div id="sample">

<span>This is both a child and descendent of #sample.</span>

<div class="nested">

<span>This is a descendent of #sample only.</span>

</div>

</div>

| Description | CSS | XPath |
| --- | --- | --- |
| Any <span> element that's a "direct" child of #sample | #sample > span | //\*[@id="sample"]/span |
| Any <span> element that's a descendent of #sample | #sample span | //\*[@id="sample"]//span |

**Additional Targeting Options**

| Description | CSS | XPath |
| --- | --- | --- |
| The 3rd <li> element in a list | li:nth-of-type(3) | //li[3] |
| The last <li> element in a list | li:last-child | //li[last()] |