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Xpath cheatsheet

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Xpath test bed

Test queries in the Xpath test bed:
Xpath test bed (whitebeam.org)

Browser cc

```
$x("//div
```

Works in Fi

≠ Selectors

Descendant selectors

`h1`	`//h1`
`div p`	`//div//p`
`ul > li`	`//ul/li`
`ul > li > a`	`//ul/li/a`
`div > *`	`//div/*`
`:root`	`/`
`:root > body`	`/body`

Attribute s

`#id`
`.class`
`input[typ`
`a#abc[for`
`a[rel]`
`a[href^='`
`a[href$='`

Order selectors

`ul > li:first-child`	`//ul/li[1]`
`ul > li:nth-child(2)`	`//ul/li[2]`
`ul > li:last-child`	`//ul/li[last()]`
`li#id:first-child`	`//li[@id="id"][1]`

Siblings

`?`
`h1 ~ ul`
`h1 + ul`
`h1 ~ #id`

jQuery

`a:first-child`	`//a[1]`
`a:last-child`	`//a[last()]`
`h1:not([id])`	`//h1[not(@id)]`
Text match	`//button[text()="Submit"]`
Text match (substring)	`//button[contains(text(),"Go")]`
Arithmetic	`//product[@price > 2.50]`
Has children	`//ul[*]`
Has children (specific)	`//ul[li]`
Or logic	`//a[@name or @href]`
Union (joins results)	`//a | //div`

Other things

≠ Expressions

Steps and axes

`//`	`ul`	`/`	`a[@id='link']`
Axis	Step	Axis	Step

Axes

Axis	Example	What
`/`	`//ul/li/a`	
`//`	`//[@id="list"]//a`	

Separate your steps with `/`. Use two (`//`) if you don't want to select direct children.

Prefixes

Prefix	
`//`	
`./`	

Class chec

```
//div[con
```

Xpath does

Steps

```
//div
//div[@na
//[@id='l
```

A step may
other thing

```
//a/text(
//a/@href
//a/*
```

≠ Predicates

Predicates

```
//div[true()]
//div[@class="head"]
//div[@class="head"][@id="top"]
```

Restricts a nodeset only if some condition is true. They can be chained.

Using nodes

```
# Use them inside functions
//ul[count(li) > 2]
//ul[count(li[@class='hide']) > 0]
```

```
# This returns `<ul>` that has a `<li>` child
//ul[li]
```

You can use nodes inside predicates.

Chaining order

```
a[1][@href='/']
a[@href='/'][1]
```

Order is significant, these two are different.

Operators

```
# Compari
//a[@id =
//a[@id !
//a[@pric
```

```
# Logic (
//div[@id
//div[(x
```

pa

Indexing

```
//a[1]
//a[last(
//ol/li[2
//ol/li[p
//ol/li[p
```

Use [] with

Nesting pr

```
//section
```

This returns

Functions

Node functions

```
name()                  # //[starts-with(name(), 'h')]
text()                  # //button[text()="Submit"]
                        # //button/text()

lang(str)
namespace-uri()
```

Boolean fu

```
not(expr)
```

String func

```
count()                  # //table[count(tr)=1]
position()               # //ol/li[position()=2]
```

Type conversion

```
string()
number()
boolean()
```

```
contains(
starts-wi
ends-with
```

```
concat(x,
substring
ng
ng
te
ze
le
```

Axes

Using axes

```
//ul/li                       # ul > li
//ul/child::li                # ul > li (same)
//ul/following-sibling::li    # ul ~ li
//ul/descendant-or-self::li   # ul li
//ul/ancestor-or-self::li     # $('ul').closest('li')
```

Steps of an expression are separated by `/`, usually used to pick child nodes. That's not always true: specify a different "axis" with `::`.

`//`	`ul`	`/child::`	`li`
Axis	Step	Axis	Step

Child axis

```
# both th
//ul/li/a
//child::
```

```
child:: is
```

```
# both th
# this wo
//ul[li]
//ul[chil
```

```
# both th
//ul[coun
//ul[coun
```

Descendant-or-self axis

```
# both the same
//div//h4
//div/descendant-or-self::h4
```

`//` is short for the `descendant-or-self::` axis.

```
# both the same
//ul//[last()]
//ul/descendant-or-self::[last()]
```

Other axes

Axis
ancestor
ancestor-
attribute
child

Unions

```
//a | //span
```

Use | to join two expressions.

More examples

Examples

```
//*                 # all elements
count(//*)          # count all elements
(//h1)[1]/text()    # text of the first h1 heading
//li[span]          # find a <li> with an <span> inside it
                    # ...expands to //li[child::span]
//ul/li/..          # use .. to select a parent
```

Closest

```
./ancestor-or-self::[@class="box"]
```

Works like jQuery's `$().closest('.box')`.

References

- Xpath test bed (whitebeam.org)

an
an
namespace
self
parent
following
following
Find a pare
preceding
//section
Finds a <se
//section
Finds a <se
of child)
Attributes
//item[@p
Finds <iter

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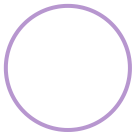

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