Cheatography

# XPath Cheat Sheet Cheat Sheet

by BenHuf via cheatography.com/163984/cs/34359/

## XPath

| | |
|---|---|
| *nodename* | Selects all nodes with the name "*nodename*" |
| / | Selects from the root node |
| // | Selects nodes in the document from the current node that match the selection no matter where they are |
| . | Selects the current node |
| .. | Selects the parent of the current node |
| @ | Selects attributes |

## Wildcards and Multiple Paths

| | |
|---|---|
| * | Matches any element node |
| @* | Matches any attribute node |
| node() | Matches any node of any kind |
| \| | Place between paths to select several paths |
| /bookstore/* | Selects all the child element nodes of the bookstore element |
| //* | Selects all elements in the document |
| //title[@*] | Selects all title elements which have at least one attribute of any kind |
| //book/title \| //book/price | Selects all the title AND price elements of all book elements |
| //title \| //price | Selects all the title AND price elements in the document |

## Wildcards and Multiple Paths (cont)

| | |
|---|---|
| /bookstore/book/title \| //price | Selects all the title elements of the book element of the bookstore element AND all the price elements in the document |

## Location Step Examples

The syntax for a location step is:

```
axisname::nodetest[predicate]
```

| | |
|---|---|
| child::book | Selects all book nodes that are children of the current node |
| attribute::lang | Selects the lang attribute of the current node |
| child::* | Selects all element children of the current node |
| attribute::* | Selects all attributes of the current node |
| child::text() | Selects all text node children of the current node |
| child::node() | Selects all children of the current node |
| descendant::book | Selects all book descendants of the current node |
| ancestor::book | Selects all book ancestors of the current node |
| ancestor-or-self::book | Selects all book ancestors of the current node - and the current node as well if it is a book node |
| child::*/child::price | Selects all price grandchildren of the current node |

## XPath Operators

| | | |
|---|---|---|
| \| | Computes two node-sets | //book \| //cd |
| + | Addition | 6 + 4 |
| - | Subtraction | 6 - 4 |
| * | Multiplication | 6 * 4 |
| div | Division | 8 div 4 |
| = | Equal | price=9.80 |
| != | Not equal | price!=9.80 |
| < | Less than | price<9.80 |
| <= | Less than or equal to | price<=9.80 |
| > | Greater than | price>9.80 |
| >= | Greater than or equal to | price>=9.80 |
| or | or | price=9.80 or price=9.70 |
| and | and | price>9.00 and price<9.90 |
| mod | Modulus | 5 mod 2 |

## Predicates

| | |
|---|---|
| /bookstore/book[1] | Selects the first book element that is the child of the bookstore element. |
| /bookstore/book[last()] | Selects the last book element that is the child of the bookstore element |
| /bookstore/book[last()-1] | Selects the last but one book element that is the child of the bookstore element |




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## Predicates (cont)

| | |
|---|---|
| /bookstore/book[position()<3] | Selects the first two book elements that are children of the bookstore element |
| //title[@lang] | Selects all the title elements that have an attribute named lang |
| //title[@lang='en'] | Selects all the title elements that have a "lang" attribute with a value of "en" |
| /bookstore/book[price>35.00] | Selects all the book elements of the bookstore element that have a price element with a value greater than 35.00 |
| /bookstore/book[price>35.00]/title | Selects all the title elements of the book elements of the bookstore element that have a price element with a value greater than 35.00 |

**Note:** In IE 5,6,7,8,9 first node is[0], but according to W3C, it is [1]. To solve this problem in IE, set the SelectionLanguage to XPath.

In JavaScript: xml.setProperty("SelectionLanguage","XPath");

## XPath Examples

| | |
|---|---|
| bookstore | Selects all nodes with the name "bookstore" |
| /bookstore | Selects the root element bookstore |
| bookstore/book | Selects all book elements that are children of bookstore |
| //book | Selects all book elements no matter where they are in the document |
| bookstore//book | Selects all book elements that are descendant of the bookstore element, no matter where they are under the bookstore element |
| //@lang | Selects all attributes that are named lang |
| /bookstore/book/title | Selects all title nodes that are descendants of book that are descendants of bookstore |
| /bookstore/book[1]/title | Selects the title of the first book node under the bookstore element |
| /bookstore/book/price[text()] | Selects the text from all bookstore/book/price nodes |
| /bookstore/book[price>35]/price | Selects all the bookstore/book/price nodes with a price greater than 35 |

**Note:** If the path started with a slash ( / ) it always represents an absolute path to an element!

## XPath Axes

| | |
|---|---|
| ancestor | Selects all ancestors of the current node |
| ancestor-or-self | Selects all ancestors of the current node and the current node itself |
| attribute | Selects all attributes of the current node |
| child | Selects all children of the current node |
| descendant | Selects all descendants of the current node |
| descendant-or-self | Selects all descendants of the current node and the current nod itself |
| following | Selects everything in the document after the closing tag of the current node |
| following-sibling | Selects all siblings after the current node |
| namespace | Selects all namespace nodes of the current node |
| parent | Selects the parent of the current node |
| preceding | Selects all nodes that appear before the current node in the document, except ancestors, attribute nodes, and namespace nodes |
| preceding-sibling | Selects all siblings before the current node |
| self | Selects the current node |




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