XQuery Functions

‹ Previous Next ›

XQuery 1.0, XPath 2.0, and XSLT 2.0 share the same functions library.

XQuery Functions

XQuery is built on XPath expressions. XQuery 1.0 and XPath 2.0 share the same data model and support the same functions and operators.

XPath Operators

XPath Functions

You can also define your own functions in XQuery.

XQuery Data Types

XQuery shares the same data types as XML Schema 1.0 (XSD).

XSD String

XSD Date

XSD Numeric

XSD Misc

Examples of Function Calls

```
<name>{upper-case($booktitle)}</name>
```

Example 2: In the predicate of a path expression

```
doc("books.xml")/bookstore/book[substring(title,1,5)='Harry']
```

Example 3: In a let clause

```
let $name := (substring($booktitle,1,4))
```

XQuery User-Defined Functions

If you cannot find the XQuery function you need, you can write your own.

User-defined functions can be defined in the query or in a separate library.

Syntax

```
{
 ...function code here...
};
```

Notes on user-defined functions:

- Use the declare function keyword
- The name of the function must be prefixed
- The data type of the parameters are mostly the same as the data types defined in XML Schema
- The body of the function must be surrounded by curly braces

Example of a User-defined Function Declared in the Query

```
declare function local:minPrice($p as xs:decimal?,$d as xs:decimal?)
as xs:decimal?
{
let $disc := ($p * $d) div 100
return ($p - $disc)
};

Below is an example of how to call the function above:

<minPrice>{local:minPrice($book/price,$book/discount)}</minPrice>
```

‹ Previous Next ›

W3schools Pathfinder
Track your progress - it's free! Sign Up Log in

Get Lifelong Access to
All Current & Future Courses
Our certifications are recognised worldwide.
Original price: $1,465
Discount price: $695
Start Today!

COLOR PICKER

C++ Tutorial
jQuery Tutorial

Top References

HTML Reference
CSS Reference
JavaScript Reference
SQL Reference
Python Reference
W3.CSS Reference
Bootstrap Reference
PHP Reference
HTML Colors
Java Reference
Angular Reference
jQuery Reference

Top Examples

HTML Examples
CSS Examples
JavaScript Examples
How To Examples
SQL Examples
Python Examples
W3.CSS Examples
Bootstrap Examples
PHP Examples
Java Examples
XML Examples
jQuery Examples

Get Certified

HTML Certificate
CSS Certificate
JavaScript Certificate
Front End Certificate
SQL Certificate
Python Certificate
PHP Certificate
jQuery Certificate
Java Certificate
C++ Certificate
C# Certificate
XML Certificate

W3Schools is optimized for learning and training. Examples might be simplified to improve reading and learning.
Tutorials, references, and examples are constantly reviewed to avoid errors, but we cannot warrant full correctness
of all content. While using W3Schools, you agree to have read and accepted our terms of use, cookie and privacy policy.

Copyright 1999-2024 by Refsnes Data. All Rights Reserved. W3Schools is Powered by