NAME

xmlwrite – gawk facilities for writing XML fragments or whole documents.

SYNOPSIS

```
@include "xmlwrite"

xwopen(filename[, options])
xwclose()

xwdeclaration(version, encoding, standalone)
xwstartdoct(root, pubid, sysid)
xwenddoct()

xwprocinst(name, string)
xwcomment(comment)

xwstarttag(name)
xwattrib(name, value)
xwendtag(name)

xwtext(string)
xwstartcdata()
xwendcdata()

xwunparsed(string)

xwdoctype(root, pubid, sysid, declarations)
xwstyle(type, uri)
xwelement(name, content)
xwcdata(string)
xwcopy()
```

DESCRIPTION

The *xmlwrite* library facilitates writing a XML document serially, piece by piece. A whole XML document can be composed this way. The composed document may be indented if desired. *xmlwrite* takes care of some peculiarities of the XML standard, like metacharacters escaping, whitespace handling, markup indentation, etc.

Output file and mode

xwopen(filename[, options])

Initializes output to the given file. The optional argument is an array of named options:

options["INDENT"]

Indent step (-1 = no indent), default = 2.

options["QUOTE"]

Preferred quote character (’, "), default = (").

xwclose()

Closes the current opened output file.

XML prologue

xwdeclaration(version, encoding, standalone)

Writes an XML declaration (`<?xml ... ?>`). All the arguments are optional.

xwstartdoct(root, pubid, sysid)

Writes the starting part of a DOCTYPE declaration (`<!DOCTYPE ...`). All the arguments are optional.Internal DOCTYPE declarations, if any, may be inserted by subsequent *xwunparsed()* calls.

xwenddoct()
> Writes the closing mark of the DOCTYPE declaration (`]>`).

Processing Instructions and Comments

xwprocinst(name, string)
> Prints a Processing Instruction with the given name and contents (`<?name string?>`).

xwcomment(comment)
> Prints a XML comment (`<!--comment-->`).

Elements and attributes

xwstarttag(name)
> Prints the opening mark of an element start tag (`<name ...>`).

xwattrib(name, value)
> Prints an attribute markup fragment (`name="value"`). Must be invoked immediately after the *xwstartag()* call.

xwendtag(name)
> Prints an element closing tag (`</name>`). If the element is empty, just closes its collapsed markup (`/>`).

Character data

xwtext(string)
> Writes the escaped text. If it is invoked inside a CDATA section, the text is written unescaped.

xwstartcdata()
> Writes the opening mark of a CDATA section (`<![CDATA[`).

xwendcdata()
> Writes the closing mark of a CDATA section (`]]>`).

Unparsed markup

xwunparsed(string)
> Writes a text fragment literally. Can be used to directly insert special markup fragments.

Higher level convenience functions

xwdoctype(root, pubid, sysid, declarations)
> Writes a complete DOCTYPE declaration with a single call. All the arguments are optional.

xwstyle(type, uri)
> Writes a stylesheet processing instruction (`<?xsl-stylesheet type="text/type" href="uri"?>`).

xwelement(name, content)
> Writes a complete simple element markup with a single call. Attributes are not supported. Nested child elements are not supported.

xwcdata(string)
> Writes a complete CDATA section with a single call.

Integration with the XML extension
> If the *xmlwrite* library and the *gawk-xml* extension are used together, then it is possible to directly copy XML input markup.

xwcopy()
> Writes the markup fragment equivalent to the current XML input token. Should be used instead of the *XmlCopy()* function provided by the *xmlcopy* library.

NOTES

> *xmlwrite* is a standalone library that can be used independently of the *gawk-xml* extension (except the *xwcopy*() function).

BUGS

        Improper use of the provided functions may produce non-wellformed markup.

        The whole output document must be written with the provided functions. Mixing *xmlwrite* calls and direct print commands may produce corrupted markup.

        It is not possible to write several output documents concurrently.

SEE ALSO

        XML Processing With gawk, *xmlbase*(3am), *xmlcopy*(3am), *xmlsimple*(3am), *xmltree*(3am).

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