Package 'xml2'

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```
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     'as_list.R'
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     'utils.R'
      'xml attr.R'
      'xml_children.R'
      'xml_find.R'
      'xml_modify.R'
      'xml_name.R'
      'xml_namespaces.R'
      'xml_path.R'
```

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'xml_schema.R'
'xml_serialize.R'
'xml_structure.R'
'xml_text.R'
'xml_type.R'
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'xml_write.R'
'zzz.R'

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as_list

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Coerce xml nodes to a list.

Description

This turns an XML document (or node or nodeset) into the equivalent R list. Note that this is as_list(), not as.list(): lapply() automatically calls as.list() on its inputs, so we can't override the default.

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Usage

```
as_list(x, ns = character(), ...)
```

as_xml_document 3

Arguments

x A document, node, or node set.

optionally, a named vector giving prefix-url pairs, as produced by xml_ns. If provided, all names will be explicitly qualified with the ns prefix, i.e. if the element bar is defined in namespace foo, it will be called foo:bar. (And similarly

ment bar is defined in namespace foo, it will be called foo:bar. (And similarly for attributes). Default namespaces must be given an explicit name. The ns is

ignored when using xml_name<- and xml_set_name.

... Needed for compatibility with generic. Unused.

Details

as_list currently only handles the four most common types of children that an element might have:

- Other elements, converted to lists.
- Attributes, stored as R attributes. Attributes that have special meanings in R (class, comment, dim, dimnames, names, row.names and tsp) are escaped with '.'
- Text, stored as a character vector.

Examples

```
as_list(read_xml("<foo> a <b /><c><![CDATA[<d></d>]]></c></foo>"))
as_list(read_xml("<foo> <bar><baz /></bar> </foo>"))
as_list(read_xml("<foo id = 'a'></foo>"))
as_list(read_xml("<foo><bar id='a'/><bar id='b'/></foo>"))
```

as_xml_document

Coerce a R list to xml nodes.

Description

This turns an R list into the equivalent XML document. Not all R lists will produce valid XML, in particular there can only be one root node and all child nodes need to be named (or empty) lists. R attributes become XML attributes and R names become XML node names.

Usage

```
as_xml_document(x, ...)
```

Arguments

x A document, node, or node set.

... Needed for compatibility with generic. Unused.

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Examples

```
as_xml_document(list(x = list()))
# Nesting multiple nodes
as_xml_document(list(foo = list(bar = list(baz = list()))))
# attributes are stored as R attributes
as_xml_document(list(foo = structure(list(), id = "a")))
as_xml_document(list(foo = list(
    bar = structure(list(), id = "a"),
    bar = structure(list(), id = "b"))))
```

read_xml

Read HTML or XML.

Description

Read HTML or XML.

Usage

```
read_xml(x, encoding = "", ..., as_html = FALSE, options = "NOBLANKS")

read_html(x, encoding = "", ..., options = c("RECOVER", "NOERROR",
   "NOBLANKS"))

## S3 method for class 'character'
read_xml(x, encoding = "", ..., as_html = FALSE,
   options = "NOBLANKS")

## S3 method for class 'raw'
read_xml(x, encoding = "", base_url = "", ...,
   as_html = FALSE, options = "NOBLANKS")

## S3 method for class 'connection'
read_xml(x, encoding = "", n = 64 * 1024,
   verbose = FALSE, ..., base_url = "", as_html = FALSE,
   options = "NOBLANKS")
```

Arguments

Х

A string, a connection, or a raw vector.

A string can be either a path, a url or literal xml. Urls will be converted into connections either using base::url or, if installed, curl::curl. Local paths ending in .gz, .bz2, .xz, .zip will be automatically uncompressed.

If a connection, the complete connection is read into a raw vector before being parsed.

encoding

Specify a default encoding for the document. Unless otherwise specified XML documents are assumed to be in UTF-8 or UTF-16. If the document is not UTF-8/16, and lacks an explicit encoding directive, this allows you to supply a default.

read_xml 5

... Additional arguments passed on to methods. as_html Optionally parse an xml file as if it's html.

options Set parsing options for the libxml2 parser. Zero of more of

RECOVER recover on errors **NOENT** substitute entities

DTDLOAD load the external subsetDTDATTR default DTD attributesDTDVALID validate with the DTDNOERROR suppress error reports

NOWARNING suppress warning reports
PEDANTIC pedantic error reporting
NOBLANKS remove blank nodes
SAX1 use the SAX1 interface internally

XINCLUDE Implement XInclude substitition

NONET Forbid network access

NODICT Do not reuse the context dictionary

NSCLEAN remove redundant namespaces declarations

NOCDATA merge CDATA as text nodes

NOXINCNODE do not generate XINCLUDE START/END nodes

COMPACT compact small text nodes; no modification of the tree allowed afterwards (will possibly crash if you try to modify the tree)

OLD10 parse using XML-1.0 before update 5

NOBASEFIX do not fixup XINCLUDE xml:base uris
HUGE relax any hardcoded limit from the parser
OLDSAX parse using SAX2 interface before 2.7.0
IGNORE_ENC ignore internal document encoding hint
BIG_LINES Store big lines numbers in text PSVI field

base_url When loading from a connection, raw vector or literal html/xml, this allows you

to specify a base url for the document. Base urls are used to turn relative urls

into absolute urls.

n If file is a connection, the number of bytes to read per iteration. Defaults to

64kb.

verbose When reading from a slow connection, this prints some output on every iteration

so you know its working.

Value

An XML document. HTML is normalised to valid XML - this may not be exactly the same transformation performed by the browser, but it's a reasonable approximation.

Examples

```
# Literal xml/html is useful for small examples
read_xml("<foo><bar /></foo>")
read_html("<html><title>Hi<title></html>")
read_html("<html><title>Hi")
```

From a local path

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```
read_html(system.file("extdata", "r-project.html", package = "xml2"))
# From a url
cd <- read_xml("http://www.xmlfiles.com/examples/cd_catalog.xml")
me <- read_html("http://had.co.nz")</pre>
```

url_absolute

Convert between relative and absolute urls.

Description

Convert between relative and absolute urls.

Usage

```
url_absolute(x, base)
url_relative(x, base)
```

Arguments

x A character vector of urls relative to that base

base A string giving a base url.

Value

A character vector of urls

See Also

xml_url to retrieve the URL associated with a document

```
url_absolute(c(".", "..", "/", "/x"), "http://hadley.nz/a/b/c/d")
url_relative("http://hadley.nz/a/c", "http://hadley.nz")
url_relative("http://hadley.nz/a/c", "http://hadley.nz/")
url_relative("http://hadley.nz/a/c", "http://hadley.nz/a/b")
url_relative("http://hadley.nz/a/c", "http://hadley.nz/a/b")
```

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url_escape

Escape and unescape urls.

Description

Escape and unescape urls.

Usage

```
url_escape(x, reserved = "")
url_unescape(x)
```

Arguments

x A character vector of urls.

reserved A string containing additional characters to avoid escaping.

Examples

```
url_escape("a b c")
url_escape("a b c", "")

url_unescape("a%20b%2fc")
url_unescape("%C2%B5")
```

url_parse

Parse a url into its component pieces.

Description

Parse a url into its component pieces.

Usage

```
url_parse(x)
```

Arguments

Х

A character vector of urls.

Value

A dataframe with one row for each element of x and columns: scheme, server, port, user, path, query, fragment.

```
url_parse("http://had.co.nz/")
url_parse("http://had.co.nz:1234/")
url_parse("http://had.co.nz:1234/?a=1&b=2")
url_parse("http://had.co.nz:1234/?a=1&b=2#def")
```

8 write_xml

write_xml

Write XML or HTML to disk.

Description

This writes out both XML and normalised HTML. The default behavior will output the same format which was read. If you want to force output pass option = "as_xml" or option = "as_html" respectively.

Usage

```
write_xml(x, file, ...)
## S3 method for class 'xml_document'
write_xml(x, file, ..., options = "format",
  encoding = "UTF-8")

write_html(x, file, ...)
## S3 method for class 'xml_document'
write_html(x, file, ..., options = "format",
  encoding = "UTF-8")
```

Arguments

A document or node to write to disk. It's not possible to save nodesets containing more than one node.

file Path to file or connection to write to.
... additional arguments passed to methods.

options default: 'format'. Zero or more of

format Format output

no_declaration Drop the XML declaration

no_empty_tags Remove empty tags
no_xhtml Disable XHTML1 rules
require_xhtml Force XHTML1 rules

as_xml Force XML output
as_html Force HTML output

format_whitespace Format with non-significant whitespace

encoding The character encoding to use in the document. The default encoding is 'UTF-

8'. Available encodings are specified at http://xmlsoft.org/html/libxml-encoding.

html#xmlCharEncoding.

```
h <- read_html("<p>Hi!")

tmp <- tempfile(fileext = ".xml")
write_xml(h, tmp, options = "format")
readLines(tmp)</pre>
```

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```
# write formatted HTML output
write_html(h, tmp, options = "format")
readLines(tmp)
```

xml_attr

Retrieve an attribute.

Description

xml_attrs() retrieves all attributes values as a named character vector, xml_attrs() <- or
xml_set_attrs() sets all attribute values. xml_attr() retrieves the value of single attribute and
xml_attr() <- or xml_set_attr() modifies its value. If the attribute doesn't exist, it will return
default, which defaults to NA. xml_has_attr() tests if an attribute is present.</pre>

Usage

```
xml_attr(x, attr, ns = character(), default = NA_character_)
xml_has_attr(x, attr, ns = character())
xml_attrs(x, ns = character())
xml_attr(x, attr, ns = character()) <- value
xml_set_attr(x, attr, value, ns = character())
xml_attrs(x, ns = character()) <- value
xml_set_attrs(x, value, ns = character())</pre>
```

Arguments

A document, node, or node set.

Name of attribute to extract.

Optionally, a named vector giving prefix-url pairs, as produced by xml_ns. If provided, all names will be explicitly qualified with the ns prefix, i.e. if the element bar is defined in namespace foo, it will be called foo:bar. (And similarly for attributes). Default namespaces must be given an explicit name. The ns is ignored when using xml_name<- and xml_set_name.

default

Default value to use when attribute is not present.

value

character vector of new value.

Value

xml_attr() returns a character vector. NA is used to represent of attributes that aren't defined. xml_has_attr() returns a logical vector.

 $xml_attrs()$ returns a named character vector if x x is single node, or a list of character vectors if given a nodeset

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Examples

```
x <- read_xml("<root id='1'><child id ='a' /><child id='b' d='b'/></root>")
xml_attr(x, "id")
xml_attr(x, "apple")
xml_attrs(x)
kids <- xml_children(x)</pre>
xml_attr(kids, "id")
xml_has_attr(kids, "id")
xml_attrs(kids)
# Missing attributes give missing values
xml_attr(xml_children(x), "d")
xml_has_attr(xml_children(x), "d")
\ensuremath{\text{\#}} If the document has a namespace, use the ns argument and
# qualified attribute names
x <- read_xml('
 <root xmlns:b="http://bar.com" xmlns:f="http://foo.com">
   <doc b:id="b" f:id="f" id="" />
 </root>
')
doc <- xml_children(x)[[1]]</pre>
ns \leftarrow xml_ns(x)
xml_attrs(doc)
xml_attrs(doc, ns)
# If you don't supply a ns spec, you get the first matching attribute
xml_attr(doc, "id")
xml_attr(doc, "b:id", ns)
xml_attr(doc, "id", ns)
# Can set a single attribute with `xml_attr() <-` or `xml_set_attr()`</pre>
xml_attr(doc, "id") <- "one"</pre>
xml_set_attr(doc, "id", "two")
# Or set multiple attributes with `xml_attrs()` or `xml_set_attrs()`
xml_attrs(doc) <- c("b:id" = "one", "f:id" = "two", "id" = "three")</pre>
xml_set_attrs(doc, c("b:id" = "one", "f:id" = "two", "id" = "three"))
```

xml_cdata

Construct a cdata node

Description

Construct a cdata node

Usage

```
xml_cdata(content)
```

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Arguments

content

The CDATA content, does not include <! [CDATA[

Examples

```
x <- xml_new_root("root")
xml_add_child(x, xml_cdata("<d/>"))
as.character(x)
```

xml_children

Navigate around the family tree.

Description

xml_children returns only elements, xml_contents returns all nodes. xml_length returns the number of children. xml_parent returns the parent node, xml_parents returns all parents up to the root. xml_siblings returns all nodes at the same level. xml_child makes it easy to specify a specific child to return.

Usage

```
xml_children(x)
xml_child(x, search = 1, ns = xml_ns(x))
xml_contents(x)
xml_parents(x)
xml_siblings(x)
xml_parent(x)
xml_length(x, only_elements = TRUE)
xml_root(x)
```

Arguments

x A document, node, or node set.

search For xml_child, either the child number to return (by position), or the name of

the child node to return. If there are multiple child nodes with the same name,

the first will be returned

ns Optionally, a named vector giving prefix-url pairs, as produced by xml_ns. If

provided, all names will be explicitly qualified with the ns prefix, i.e. if the element bar is defined in namespace foo, it will be called foo:bar. (And similarly for attributes). Default namespaces must be given an explicit name. The ns is

ignored when using xml_name<- and xml_set_name.

 $\verb|only_elements| For \verb|xml_length|, should it count all children, or just children that are elements|\\$

(the default)?

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Value

A node or nodeset (possibly empty). Results are always de-duplicated.

Examples

```
x \leftarrow read_xml("<foo> <bar><boo /></bar> <baz/> </foo>")
xml_children(x)
xml_children(xml_children(x))
xml_siblings(xml_children(x)[[1]])
# Note the each unique node only appears once in the output
xml_parent(xml_children(x))
# Mixed content
x \leftarrow read_xml("<foo> a <b/> c <d>e</d> f</foo>")
# Childen gets the elements, contents gets all node types
xml_children(x)
xml\_contents(x)
xml_length(x)
xml_length(x, only_elements = FALSE)
# xml_child makes it easier to select specific children
xml_child(x)
xml_child(x, 2)
xml_child(x, "baz")
```

 $xml_comment$

Construct a comment node

Description

Construct a comment node

Usage

```
xml_comment(content)
```

Arguments

content

The comment content

```
x <- xml_new_document()
r <- xml_add_child(x, "root")
xml_add_child(r, xml_comment("Hello!"))
as.character(x)</pre>
```

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 xml_dtd

Construct a document type definition

Description

This is used to create simple document type definitions. If you need to create a more complicated definition with internal subsets it is recommended to parse a string directly with read_xml().

Usage

```
xml_dtd(name = "", external_id = "", system_id = "")
```

Arguments

name The name of the declaration

external_id The external ID of the declaration

system_id The system ID of the declaration

Examples

```
r <- xml_new_root(
    xml_dtd("html",
        "-//W3C//DTD XHTML 1.0 Transitional//EN",
        "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"))
# Use read_xml directly for more complicated DTD
d <- read_xml(
'<!DOCTYPE doc [
<!ELEMENT doc (#PCDATA)>
<!ENTITY foo " test ">
]>
<doc>This is a valid document &foo; !</doc>')
```

 xml_find_all

Find nodes that match an xpath expression.

Description

Xpath is like regular expressions for trees - it's worth learning if you're trying to extract nodes from arbitrary locations in a document. Use xml_find_all to find all matches - if there's no match you'll get an empty result. Use xml_find_first to find a specific match - if there's no match you'll get an xml_missing node.

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Usage

```
xml_find_all(x, xpath, ns = xml_ns(x))
xml_find_first(x, xpath, ns = xml_ns(x))
xml_find_num(x, xpath, ns = xml_ns(x))
xml_find_chr(x, xpath, ns = xml_ns(x))
xml_find_lgl(x, xpath, ns = xml_ns(x))
```

Arguments

x A document, node, or node set.

xpath A string containing a xpath (1.0) expression.

ns Optionally, a named vector giving prefix-url pairs, as produced by xml_ns. If

provided, all names will be explicitly qualified with the ns prefix, i.e. if the element bar is defined in namespace foo, it will be called foo:bar. (And similarly for attributes). Default namespaces must be given an explicit name. The ns is

ignored when using xml_name<- and xml_set_name.

Value

xml_find_all always returns a nodeset: if there are no matches the nodeset will be empty. The result will always be unique; repeated nodes are automatically de-duplicated.

xml_find_first returns a node if applied to a node, and a nodeset if applied to a nodeset. The output is *always* the same size as the input. If there are no matches, xml_find_first will return a missing node; if there are multiple matches, it will return the first only.

xml_find_num, xml_find_chr, xml_find_lgl return numeric, character and logical results respectively.

Deprecated functions

```
xml_find_one() has been deprecated. Instead use xml_find_first().
```

See Also

```
xml_ns_strip to remove the default namespaces
```

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```
x <- read_xml("<body>
  Some <b>text</b>.
  Some <b>other</b> <b>text</b>.
  No bold here!
</body>")
para <- xml\_find\_all(x, ".//p")
# If you apply xml_find_all to a nodeset, it finds all matches,
# de-duplicates them, and returns as a single list. This means you
# never know how many results you'll get
xml_find_all(para, ".//b")
\# xml_find_first only returns the first match per input node. If there are 0
# matches it will return a missing node
xml_find_first(para, ".//b")
xml_text(xml_find_first(para, ".//b"))
# Namespaces ------
# If the document uses namespaces, you'll need use xml_ns to form
# a unique mapping between full namespace url and a short prefix
x <- read_xml('
<root xmlns:f = "http://foo.com" xmlns:g = "http://bar.com">
  <f:doc><g:baz /></f:doc>
  <f:doc><g:baz /></f:doc>
 </root>
xml_find_all(x, ".//f:doc")
xml_find_all(x, ".//f:doc", xml_ns(x))
```

xml_name

The (tag) name of an xml element.

Description

The (tag) name of an xml element.

Modify the (tag) name of an element

Usage

```
xml_name(x, ns = character())
xml_name(x, ns = character()) <- value
xml_set_name(x, value, ns = character())</pre>
```

Arguments

ns

X A	document,	node, or	node set.

Optionally, a named vector giving prefix-url pairs, as produced by xml_ns. If provided, all names will be explicitly qualified with the ns prefix, i.e. if the element bar is defined in namespace foo, it will be called foo:bar. (And similarly for attributes). Default namespaces must be given an explicit name. The ns is

ignored when using xml_name<- and xml_set_name.

value a character vector with replacement name.

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Value

A character vector.

Examples

```
x <- read_xml("<bar>123</bar>")
xml_name(x)

y <- read_xml("<bar><baz>1</baz>abc<foo /></bar>")
z <- xml_children(y)
xml_name(xml_children(y))</pre>
```

 ${\tt xml_new_document}$

Create a new document, possibly with a root node

Description

xml_new_document creates only a new document without a root node. In most cases you should instead use xml_new_root, which creates a new document and assigns the root node in one step.

Usage

```
xml_new_document(version = "1.0", encoding = "UTF-8")
xml_new_root(.value, ..., .copy = inherits(.value, "xml_node"),
   .version = "1.0", .encoding = "UTF-8")
```

Arguments

version	The version number of the document.
encoding	The character encoding to use in the document. The default encoding is 'UTF-8'. Available encodings are specified at http://xmlsoft.org/html/libxml-encoding.html#xmlCharEncoding.
.value	node or nodeset to insert.
	If named attributes or namespaces to set on the node, if unnamed text to assign to the node.
. copy	whether to copy the .value before replacing. If this is FALSE then the node will be moved from it's current location.
.version	The version number of the document, passed to xml_new_document(version).
.encoding	The encoding of the document, passed to xml_new_document(encoding).

Value

 $A \ \mathsf{xml_document} \ object.$

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xml_ns

XML namespaces.

Description

xml_ns extracts all namespaces from a document, matching each unique namespace url with the prefix it was first associated with. Default namespaces are named d1, d2 etc. Use xml_ns_rename to change the prefixes. Once you have a namespace object, you can pass it to other functions to work with fully qualified names instead of local names.

Usage

```
xml_ns(x)
xml_ns_rename(old, ...)
```

Arguments

x A document, node, or node set.

old, ... An existing xml_namespace object followed by name-value (old prefix-new prefix) pairs to replace.

Value

A character vector with class xml_namespace so the default display is a little nicer.

```
x <- read_xml('</pre>
 <root>
   <doc1 xmlns = "http://foo.com"><baz /></doc1>
   <doc2 xmlns = "http://bar.com"><baz /></doc2>
 </root>
')
xml_ns(x)
# When there are default namespaces, it's a good idea to rename
# them to give informative names:
ns \leftarrow xml_ns_rename(xml_ns(x), d1 = "foo", d2 = "bar")
ns
# Now we can pass ns to other xml function to use fully qualified names
baz <- xml_children(xml_children(x))</pre>
xml_name(baz)
xml_name(baz, ns)
xml_find_all(x, "//baz")
xml_find_all(x, "//foo:baz", ns)
str(as_list(x))
str(as_list(x, ns))
```

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xml_ns_strip

Strip the default namespaces from a document

Description

Strip the default namespaces from a document

Usage

```
xml_ns_strip(x)
```

Arguments

Х

A document, node, or node set.

Examples

xml_path

Retrieve the xpath to a node

Description

This is useful when you want to figure out where nodes matching an xpath expression live in a document.

Usage

```
xml_path(x)
```

Arguments

Х

A document, node, or node set.

Value

A character vector.

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Examples

xml_replace

Modify a tree by inserting, replacing or removing nodes

Description

xml_add_sibling() and xml_add_child() are used to insert a node as a sibling or a child.
xml_add_parent() adds a new parent in between the input node and the current parent. xml_replace()
replaces an existing node with a new node. xml_remove() removes a node from the tree.

Usage

Arguments

.x	a document, node or nodeset.
.value	node or nodeset to insert.
•••	If named attributes or namespaces to set on the node, if unnamed text to assign to the node.
.copy	whether to copy the .value before replacing. If this is FALSE then the node will be moved from it's current location.
.where	to add thenew node, for xml_add_child the position after which to add, use 0 for the first child. For xml_add_sibling either '"befeore" or '"after" indicating if the new node should be before or after .x.
free	When removing the node also free the memory used for that node. Note if you use this option you cannot use any existing objects pointing to the node or its children, it is likely to crash R or return garbage.

Details

Care needs to be taken when using xml_remove(),

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xml_serialize

Serializing XML objects to connections.

Description

Serializing XML objects to connections.

Usage

```
xml_serialize(object, connection, ...)
xml_unserialize(connection, ...)
```

Arguments

object R object to serialize.

connection an open connection or (for serialize) NULL or (for unserialize) a raw vector

(see 'Details').

... Additional arguments passed to read_xml.

Examples

xml_set_namespace

Set the node's namespace

Description

The namespace to be set must be already defined in one of the node's ancestors.

Usage

```
xml_set_namespace(.x, prefix = "", uri = "")
```

Arguments

.x a node

prefix The namespace prefix to use uri The namespace URI to use

Value

the node (invisibly)

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xml_structure

Show the structure of an html/xml document.

Description

Show the structure of an html/xml document without displaying any of the values. This is useful if you want to get a high level view of the way a document is organised. Compared to xml_structure, html_structure prints the id and class attributes.

Usage

```
xml_structure(x, indent = 2)
html_structure(x, indent = 2)
```

Arguments

x HTML/XML document (or part there of)

indent Number of spaces to ident

Examples

```
xml_structure(read_xml("<a><b><c/><c/></b><d/></a>"))

rproj <- read_html(system.file("extdata","r-project.html", package = "xml2"))
xml_structure(rproj)
xml_structure(xml_find_all(rproj, ".//p"))

h <- read_html("<body></body>")
html_structure(h)
```

xml_text

Extract or modify the text

Description

xml_text returns a character vector, xml_double returns a numeric vector, xml_integer returns an integer vector.

Usage

```
xml_text(x, trim = FALSE)
xml_text(x) <- value
xml_set_text(x, value)
xml_double(x)
xml_integer(x)</pre>
```

22 xml_type

Arguments

x A document, node, or node set.trim If TRUE will trim leading and trailing spaces.value character vector with replacement text.

Value

A character vector, the same length as x.

Examples

```
x <- read_xml("<p>This is some text. This is <b>bold!</b>")
xml_text(x)
xml_text(xml_children(x))

x <- read_xml("<x>This is some text. <x>This is some nested text.</x><")
xml_text(x)
xml_text(xml_find_all(x, "//x"))

x <- read_xml("<p> Some text ")
xml_text(x, trim = TRUE)

# xml_double() and xml_integer() are useful for extracting numeric attributes
x <- read_xml("<plot><point x='1' y='2' /><point x='2' y='1' /></plot>")
xml_integer(xml_find_all(x, "//@x"))
```

xml_type

Determine the type of a node.

Description

Determine the type of a node.

Usage

```
xml_type(x)
```

Arguments

Х

A document, node, or node set.

```
x <- read_xml("<foo> a <b /> <![CDATA[ blah]]></foo>")
xml_type(x)
xml_type(xml_contents(x))
```

xml_url 23

xml_url

The URL of an XML document

Description

This is useful for interpreting relative urls with url_relative.

Usage

```
xml_url(x)
```

Arguments

Х

A node or document.

Value

A character vector of length 1. Returns NA if the name is not set.

Examples

```
catalog <- read_xml("http://www.xmlfiles.com/examples/cd_catalog.xml")
xml_url(catalog)

x <- read_xml("<foo/>")
xml_url(x)
```

xml_validate

Validate XML schema

Description

Validate an XML document against an XML 1.0 schema.

Usage

```
xml_validate(x, schema)
```

Arguments

x A document, node, or node set.

schema an XML document containing the schema

Value

TRUE or FALSE

```
# Example from https://msdn.microsoft.com/en-us/library/ms256129(v=vs.110).aspx
doc <- read_xml(system.file("extdata/order-doc.xml", package = "xml2"))
schema <- read_xml(system.file("extdata/order-schema.xml", package = "xml2"))
xml_validate(doc, schema)</pre>
```

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