

Package ‘xmlrpc2’

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Type Package

Title Implementation of the Remote Procedure Call Protocol ('XML-RPC')

Version 1.2

Description The 'XML-RPC' is a remote procedure call protocol based on 'XML'. The 'xmlrpc2' package is inspired by the 'XMLRPC' package but uses the 'curl' and 'xml2' packages instead 'RCurl' and 'XML'.

License GPL-3

Imports curl, xml2, base64enc

Encoding UTF-8

NeedsCompilation no

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from_xmlrpc	<i>Convert from the XML-RPC Format into an R Object.</i>
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Description

Convert an object of class "xml_code" or a character in the XML-RPC Format into an R Object.

Usage

```
from_xmlrpc(xml, raise_error = TRUE)
```

Arguments

`xml` a character string containing XML in the remote procedure call protocol format.

`raise_error` a logical controlling the behavior if the XML-RPC signals a fault. If TRUE an error is raised, if FALSE an object inheriting from "c("xmlrpc_error", "error")" is returned.

Value

an R object derived from the input.

Examples

```
params <- list(1L, 1:3, rnorm(3), LETTERS[1:3], charToRaw("A"))
xml <- to_xmlrpc("some_method", params)
from_xmlrpc(xml)
```

rpc_serialize

Convert R Objects into the XML-RPC Format

Description

Serialize R Objects so they can be passed to `to_xmlrpc` as parameters.

Usage

```
rpc_serialize(x, ...)
```

Arguments

`x` an R object.

`...` additional optional arguments (currently ignored).

Value

an object of class "xml_node".

Examples

```
rpc_serialize(1L)
rpc_serialize(1:2)
rpc_serialize(LETTERS[1:2])
```

`to_xmlrpc`*Create a XML-RPC Call*

Description

Constructs the XML body for an XML-RPC request. This function takes the target method name and a list of R objects as parameters. Each parameter in the list is converted into its corresponding XML-RPC representation using the 'rpc_serialize' method. The resulting XML structure follows the XML-RPC specification for a method call, encapsulating the method name and the serialized parameters. This function is typically used internally by the main 'xmlrpc' function to prepare the request before sending it to the server, but it can also be used directly to inspect the XML that would be generated.

Usage

```
to_xmlrpc(method, params)
```

Arguments

method	a character string giving the name of the method to be invoked.
params	a list containing the parameters which are added to the XML file sent via the remote procedure call.

Value

an object of class "xml_node" containing a XML-RPC call.

Examples

```
params <- list(1L, 1:3, rnorm(3), LETTERS[1:3], charToRaw("A"))
cat(as.character(to_xmlrpc("some_method", params)))
```

`xmlrpc`*Call the Remote Procedure*

Description

Call a remote procedure with the XML-RPC protocol.

Usage

```
xmlrpc(
  url,
  method,
  params = list(),
  handle = NULL,
  opts = list(),
  convert = TRUE,
  useragent = "xmlrpc",
  raise_error = TRUE
)
```

Arguments

url	a character string giving the url to the server.
method	a character string giving the name of the method to be invoked.
params	a list containing the parameters which are added to the XML file sent via the remote procedure call.
handle	a object of class "curl_handle".
opts	a list of options passed to the function "handle_setopt".
convert	a logical, if convert is TRUE (default) the curl response is converted else it is left unchanged.
useragent	a character string giving the name of the "User-Agent".
raise_error	a logical controlling the behavior if the status code of curl_fetch_memory signals an error. If raise_error is TRUE an error is raised, if raise_error is FALSE no error is raised and an object inheriting from c("fetch_error", "error")} is returned. This object is the return value from <code>curl_fetch_memory</code> where just the class <code>c("fetch_error", "error")</code> is added.

Value

the response of curl or the response converted to R objects.

Examples

```
## Not run:
url <- "https://www.neos-server.org"
xmlrpc(url, "listAllSolvers")
xmlrpc(url, "listSolversInCategory", params = list(category = "socp"))

## End(Not run)
```

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