

Package ‘httpRequest’

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Title Basic HTTP Request

Author Eryk Witold Wolski, Andreas Westfeld

Maintainer Andreas Westfeld <andreas.westfeld@htw-dresden.de>

Description HTTP Request protocols. Implements the GET, POST and multipart POST request.

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getToHost	<i>Sends Get Request to HTTP Server (host)</i>
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Description

Sends Get Request to HTTP Server

Usage

```
getToHost(host, path, referer, port=80)
```

Arguments

host	The host to which to send the Request e. g.: www.spiegel.de, 127.0.0.1
path	The path to the file eg. /cgi/getpasswords.pl?test=best or /index.html
referer	something like www.myhome.org
port	its 80 or 8080 most frequently

Details

It is a simple http client. So it does not take care of special chars e.g. whitespaces. For details see e.g. perl HTTP::Request::Common documentation and http://www.w3.org/Protocols/rfc1341/0_TableOfContents.html

Value

The document which the server returns as a string.

Author(s)

E.W.Wolski wolski@molgen.mpg.de

See Also

postToHost, simplePostToHost

Examples

```
#check first if www.molgen.mpg.de is running.
#port <- 80
#getToHost("www.molgen.mpg.de",
#         "/~wolski/test.php4?test=test1&test2=test2&test3=3",
#         "www.test.pl", port=port)
```

getToHost2

Sends Get Request to HTTP Server (host) with raw contents

Description

Sends Get Request to HTTP Server (experimental version of getToHost based on raw data type)

Usage

```
getToHost2(host,path,referer,port=80)
```

Arguments

host	The host to which to send the Request e. g.: www.spiegel.de, 127.0.0.1
path	The path to the file eg. /cgi/getpasswords.pl?test=best or /index.html
referer	something like www.myhome.org
port	its 80 or 8080 most frequently

Details

It is a simple http client. So it does not take care of special chars e.g. whitespaces. For details see e.g. perl HTTP::Request::Common documentation and http://www.w3.org/Protocols/rfc1341/0_TableOfContents.html

Value

The document which the server returns as a string.

Author(s)

E.W.Wolski wolski@molgen.mpg.de

See Also

getToHost

Examples

```
#check first if www.molgen.mpg.de is running.
#port <- 80
#getToHost2("www.molgen.mpg.de",
#         "/~wolski/test.php4?test=test1&test2=test2&test3=3",
#         "www.test.pl", port=port)
```

postToHost

Sends Multiform Post Request to HTTP Server

Description

Sends Multiform Post Request to HTTP Server

Usage

```
postToHost(host, path, data.to.send, referer, port=80, ua, accept,
accept.language, accept.encoding, accept.charset, contenttype, cookie)
```

Arguments

host	The host to which to send the Request e. g.: www.spiegel.de, 127.0.0.1
path	The path to the file e. g. /cgi/getpasswords.pl or /index.html, default "/"
data.to.send	is a list of name value pairs e. g. list(name=value, name1=value1, name2=value2). The value may be a list("filename"=X, "object"=Y), where Y is a vector of type raw and X is a name to be posted as the filename of Y.
referer	something like www.myhome.org, default: NULL (not present in header)
port	port to connect to, default 80
ua	Identifier of the user agent, default "Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.5) Gecko/20070719 Icedeasel/2.0.0.5 (Debian-2.0.0.5-2)"
accept	document types that are accepted by the client, default: "text/xml,application/xml,application/xhtml+xml,text/html;q=0.9,text/plain;q=0.8,image/png,*/*;q=0.5"
accept.language	languages that are preferred by the client, default: "de,de-de;q=0.8,en-us;q=0.5,en;q=0.3"
accept.encoding	compressions that are accepted by the client, default: "gzip,deflate"
accept.charset	charset accepted by the client, default: "ISO-8859-1,utf-8;q=0.7,*;q=0.7"
content.type	type of data that is sent to the server, default: "application/octet-stream"
cookie	e. g., "SessionID=1008XVG0F1F5D8H94294967295", default: NULL (not present in header)

Details

It is a simple http client. So it does not take care of special chars e.g. whitespaces. For details see e.g. perl HTTP::Request::Common documentation and http://www.w3.org/Protocols/rfc1341/0_TableOfContents.html

Value

document which the server returns.

Author(s)

E.W.Wolski wolski@molgen.mpg.de, Andreas Westfeld andreas.westfeld@htw-dresden.de

See Also

getToHost, simplePostToHost

Examples

```
#to test uncomment. First check that the host is running.
#port <- 80
#test2 <- list(
```

```

# "fruit"="apple",
# "dat_defs"="20021204/F113213.dat",
# "myimage"=list(
# "filename"="myimage.raw",
# "object"=as.raw(as.vector(mymatrix))
# ),
# "upsa"="test"
#)
#postToHost("www.molgen.mpg.de", "~/wolski/test.php4", test2,
#          referer="www.test.de", port=port)

```

simplePostToHost	<i>Sends Simple Post Request to HTTP Server (host)</i>
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Description

Sends Post Request to HTTP Server

Usage

```
simplePostToHost(host, path, datatosend, referer, contenttype,
                port=80, maxlen=131063L)
```

Arguments

host	The host to which to send the Request eg.: www.spiegel.de, localhost
path	The path to the file eg. '/cgi-bin/paramlist.cgi' or '/index.html'
datatosend	key value pairs pairs separated by \& "pid=14\&pollvotenummer=2\n4"
referer	something like www.myhome.org
contenttype	default: application/x-www-form-urlencoded
port	its 80 or 8080 most frequently
maxlen	maximum blocksize read at once

Details

It is a simple http client. So it does not take care of special chars e.g. whitespaces. For details see e.g. perl HTTP::Request::Common documentation and http://www.w3.org/Protocols/rfc1341/0_TableOfContents.html The output is gathered in several blocks, if necessary. The parameter maxlen is used to determine the last data block by its length. The first block with less than maxlen bytes is considered the last one.

Value

The document which the server returns as a string.

Author(s)

E.W.Wolski wolski@molgen.mpg.de, Andreas Westfeld

See Also

getToHost, postToHost

Examples

```
host <- "api.scb.se"  
path <- "/OV0104/v1/doris/en/ssd"  
data <- '{"format":"json"}'  
simplePostToHost(host, path, data, contenttype="text/json")
```

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