Package 'downloader'

March 26, 2025

Maintainer Winston Chang <winston@stdout.org>

Version 0.4.1

License GPL-2

Title Download Files over HTTP and HTTPS

Description Provides a wrapper for the download.file function, making it possible to download files over HTTPS on Windows, Mac OS X, and other Unix-like platforms. The 'RCurl' package provides this functionality (and much more) but can be difficult to install because it must be compiled with external dependencies. This package has no external dependencies, so it is much easier to install.

URL https://github.com/wch/downloader

Imports utils, digest

Suggests testthat

BugReports https://github.com/wch/downloader/issues

RoxygenNote 7.3.2

NeedsCompilation no

Author Winston Chang [aut, cre]

Repository CRAN

Date/Publication 2025-03-26 21:40:01 UTC

Contents

Index

d	ownload .																								2
d	ownloader																								3
S	ha_url																								3
S	ource_url .		•			•									•	•	•	•		•		•	•	•	4
																									6

1

download

Description

This is a wrapper for download.file and takes all the same arguments. The only difference is that, if the protocol is https, it changes some settings to make it work. How exactly the settings are changed differs among platforms.

Usage

download(url, ...)

Arguments

url	The URL to download.
	Other arguments that are passed to download.file.

Details

This function also should follow http redirects on all platforms, which is something that does not happen by default when curl is used, as on Mac OS X.

With Windows, it either uses the "wininet" method (for R 3.2) or uses the "internal" method after first ensuring that setInternet2, is active (which tells R to use the internet2.dll).

On other platforms, it will try to use libcurl, wget, then curl, and then lynx to download the file. R 3.2 will typically have the libcurl method and for previous versions of R Linux platforms will have wget installed, and Mac OS X will have curl.

Note that for many (perhaps most) types of files, you will want to use mode="wb" so that the file is downloaded in binary mode.

See Also

download.file for more information on the arguments that can be used with this function.

Examples

End(Not run)

downloader

downloader: a package for making it easier to download files over https

Description

This package provides a wrapper for the download.file function, making it possible to download files over https on Windows, Mac OS X, and other Unix-like platforms. The RCurl package provides this functionality (and much more) but can be difficult to install because it must be compiled with external dependencies. This package has no external dependencies, so it is much easier to install.

Author(s)

Maintainer: Winston Chang <winston@stdout.org>

See Also

Useful links:

- https://github.com/wch/downloader
- Report bugs at https://github.com/wch/downloader/issues

sha_url

Download a file from a URL and find a SHA-1 hash of it

Description

This will download a file and find a SHA-1 hash of it, using digest(). The primary purpose of this function is to provide an easy way to find the value of sha which can be passed to source_url().

Usage

sha_url(url, cmd = TRUE)

Arguments

url	The URL of the file to find a hash of.
cmd	If TRUE (the default), print out a command for sourcing the URL with source_url(), including the hash.

Examples

```
## End(Not run)
```

source_url

Download an R file from a URL and source it

Description

This will download a file and source it. Because it uses the download() function, it can handle https URLs.

Usage

source_url(url, sha = NULL, ..., prompt = TRUE, quiet = FALSE)

Arguments

url	The URL to download.
sha	A SHA-1 hash of the file at the URL.
	Other arguments that are passed to source().
prompt	Prompt the user if no value for sha is provided.
quiet	If FALSE (the default), print out status messages about checking SHA.

Details

By default, source_url() checks the SHA-1 hash of the file. If it differs from the expected value, it will throw an error. The default expectation is that a hash is provided; if not, source_url() will prompt the user, asking if they are sure they want to continue, unless prompt=FALSE is used. In other words, if you use prompt=FALSE, it will run the remote code without checking the hash, and without asking the user.

The purpose of checking the hash is to ensure that the file has not changed. If a source_url command with a hash is posted in a public forum, then others who source the URL (with the hash)

4

source_url

are guaranteed to run the same code every time. This means that the author doesn't need to worry about the security of the server hosting the file. It also means that the users don't have to worry about the file being replaced with a damaged or maliciously-modified version.

To find the hash of a local file, use digest(). For a simple way to find the hash of a remote file, use sha_url().

See Also

source() for more information on the arguments that can be used with this function. The sha_url()
function can be used to find the SHA-1 hash of a remote file.

Examples

downloader::sha_url(test_url)

End(Not run)

Index

digest, 3, 5
download, 2, 4
download.file, 2
downloader, 3
downloader-package(downloader), 3

sha_url, 3, 5
source, 4, 5
source_url, 3, 4