Package 'urlparse'

July 22, 2025

Type Package Title Fast Simple URL Parser Version 0.2.1 Description A fast and simple 'URL' parser package for 'R'. This package provides functions to parse 'URLs' into their components, such as scheme, user, password, host, port, path, query, and fragment. License MIT + file LICENSE URL https://github.com/dyfanjones/urlparse, https://dyfanjones.r-universe.dev/urlparse BugReports https://github.com/dyfanjones/urlparse/issues **Encoding** UTF-8 LinkingTo Rcpp Imports Rcpp RoxygenNote 7.3.2 **Suggests** testthat (>= 3.0.0) Config/testthat/edition 3 NeedsCompilation yes Author Dyfan Jones [aut, cre] Maintainer Dyfan Jones <dyfan.r.jones@gmail.com> **Repository** CRAN Date/Publication 2025-04-14 15:00:02 UTC

Contents

encoding	
url_build	3
url_modify	4
url_parse	5
url_parse_v2	6
	7

Index

encoding

Description

This function encodes a character vector for use in URLs, escaping all special characters except for those specified in the safe parameter.

Usage

url_encoder(urls, safe = "")

url_decoder(urls)

Arguments

urls	A character vector to be encoded/decoded.
safe	A character vector of extra characters that should not be encoded.

Value

A character vector with the encoded URLs.

Examples

```
library(urlparse)
# Example 1:
url_encoder("foo = bar + 5")
# Example 2:
# prevent special characters being encoded:
url <- "https://example.com/path?query= 1+2"
url_encoder(url, ":/?=")
# Example 3:
url_decoder(url_encoder("foo = bar + 5"))</pre>
```

url_build

Description

Builds a URL string from its components.

Usage

url_build(url_components)

Arguments

url_components A list containing the components of the URL: scheme, host, port, path, query, and fragment.

- scheme A character string for the new scheme (e.g., "http" or "https") or NULL to keep it unchanged.
- host A character string for the new host or NULL to keep it unchanged.
- port A character string for the new port or NULL to keep it unchanged.
- path A character string for the new path or NULL to keep it unchanged.
- **query** A list or character of new query parameters or NULL to keep it unchanged.
- **fragment** A character string for the new fragment or NULL to keep it unchanged.

Value

A URL string constructed from the provided components

Examples

```
library(urlparse)
url_build(list(
  scheme = "https",
  user = "",
  password = "",
  host = "host.com",
  port = 8000,
  path = "/path",
  query = "query",
  fragment = "fragment"
))
```

```
url_modify
```

Description

This function modifies a URL string by updating its components such as scheme, user, password, host, port, query, raw query, and fragment. If any of these components are not provided (i.e., NULL), the existing components of the URL are retained.

Usage

```
url_modify(
  url,
  scheme = NULL,
  user = NULL,
  password = NULL,
  host = NULL,
  port = NULL,
  path = NULL,
  query = NULL,
  fragment = NULL
)
set_scheme(url, scheme)
set_user(url, user)
set_password(url, password)
set_host(url, host)
set_port(url, port)
set_path(url, path)
set_query(url, query)
set_fragment(url, fragment)
```

Arguments

url	A character string representing the original URL.
scheme	A character string for the new scheme (e.g., "http" or "https") or NULL to keep it unchanged.
user	A character string for the username or NULL to keep it unchanged.
password	A character string for the new password or NULL to keep it unchanged.

host	A character string for the new host or NULL to keep it unchanged.
port	A character string for the new port or NULL to keep it unchanged.
path	A character string for the new path or NULL to keep it unchanged.
query	A list or character of new query parameters or NULL to keep it unchanged.
fragment	A character string for the new fragment or NULL to keep it unchanged.

Value

A character string representing the modified URL.

Examples

library(urlparse)

```
# Example 1: Modify the scheme and host of a URL
url_modify(
    "https://user:pass@host.com/path?query#fragment",
    scheme = "http",
    host = "example.com"
)
# Example 2: Add a query parameter to a URL
url_modify(
    "https://host.com/path", query = list(key1 = "value1", key2 = "value2")
)
# Example 3: Change the fragment of a URL
url_modify("https://host.com/path#old_fragment", fragment = "new_fragment")
```

url_parse

Parses a URL string into its components.

Description

Parses a URL string into its components.

Usage

```
url_parse(url)
```

Arguments

url The URL string to parse.

Value

A list containing the components of the URL: scheme, user, password, host, path, raw_path, query, raw_query, and fragment.

Examples

```
library(urlparse)
url_parse("https://host.com/path?query#fragment")
```

url_parse_v2

Parses a vector URLs into a dataframe.

Description

Parses a vector of URLs into their respective components. It returns a data.frame where each row represents a URL, and each column represents a specific component of the URL such as the scheme, user, password, host, port, path, raw path, raw query, and fragment.

Usage

url_parse_v2(url)

Arguments

url

A vector of strings, where each string is a URL to be parsed.

Value

A data frame with the following columns: - href: The original URL. - scheme: The scheme component of the URL (e.g., "http", "https"). - user: The user component of the URL. - password: The password component of the URL. - host: The host component of the URL. - port: The port component of the URL. - path: The decoded path component of the URL. - raw_path: The raw path component of the URL. - raw_query: The raw query component of the URL. - fragment: The fragment component of the URL.

Examples

6

Index

encoding, 2

```
set_fragment (url_modify), 4
set_host (url_modify), 4
set_password (url_modify), 4
set_path (url_modify), 4
set_port (url_modify), 4
set_query (url_modify), 4
set_scheme (url_modify), 4
set_user (url_modify), 4
```

url_build, 3 url_decoder (encoding), 2 url_encoder (encoding), 2 url_modify, 4 url_parse, 5 url_parse_v2, 6