

Package: adaR (via r-universe)

October 23, 2024

Title A Fast 'WHATWG' Compliant URL Parser

Version 0.3.3

Description A wrapper for 'ada-url', a 'WHATWG' compliant and fast URL parser written in modern 'C++'. Also contains auxiliary functions such as a public suffix extractor.

URL <https://gesistsa.github.io/adaR/>, <https://github.com/gesistsa/adaR>

BugReports <https://github.com/gesistsa/adaR/issues>

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Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.1

LinkingTo Rcpp

Imports Rcpp, triebeard

Suggests knitr, rmarkdown, testthat (>= 3.0.0)

Config/testthat/edition 3

Depends R (>= 4.2)

VignetteBuilder knitr

Repository <https://gesistsa.r-universe.dev>

RemoteUrl <https://github.com/gesistsa/adar>

RemoteRef HEAD

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ada_clear_port	<i>Clear a specific component of URL</i>
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Description

These functions clears a specific component of URL.

Usage

```
ada_clear_port(url, decode = TRUE)
ada_clear_hash(url, decode = TRUE)
ada_clear_search(url, decode = TRUE)
```

Arguments

url	character. one or more URL to be parsed
decode	logical. Whether to decode the output (see utils::URLdecode()), default to TRUE

Value

character, NA if not a valid URL

Examples

```
url <- "https://user_1:password_1@example.org:8080/dir/./api?q=1#frag"
ada_clear_port(url)
ada_clear_hash(url)
ada_clear_search(url)
```

ada_get_href	<i>Get a specific component of URL</i>
--------------	--

Description

These functions get a specific component of URL.

Usage

```
ada_get_href(url, decode = TRUE)

ada_get_username(url, decode = TRUE)

ada_get_password(url, decode = TRUE)

ada_get_port(url, decode = TRUE)

ada_get_hash(url, decode = TRUE)

ada_get_host(url, decode = TRUE)

ada_get_hostname(url, decode = TRUE)

ada_get_pathname(url, decode = TRUE)

ada_get_search(url, decode = TRUE)

ada_get_protocol(url, decode = TRUE)

ada_get_domain(url, decode = TRUE)

ada_get_basename(url)
```

Arguments

url	character. one or more URL to be parsed
decode	logical. Whether to decode the output (see utils::URLdecode()), default to TRUE

Value

character, NA if not a valid URL

Examples

```
url <- "https://user_1:password_1@example.org:8080/dir/./api?q=1#frag"
ada_get_href(url)
ada_get_username(url)
ada_get_password(url)
ada_get_port(url)
ada_get_hash(url)
ada_get_host(url)
ada_get_hostname(url)
ada_get_pathname(url)
ada_get_search(url)
ada_get_protocol(url)
ada_get_domain(url)
```

```
ada_get_basename(url)
## these functions are vectorized
urls <- c("http://www.google.com", "http://www.google.com:80", "noturl")
ada_get_port(urls)
```

ada_has_credentials *Check if URL has a certain component*

Description

These functions check if URL has a certain component.

Usage

```
ada_has_credentials(url)

ada_has_empty_hostname(url)

ada_has_hostname(url)

ada_has_non_empty_username(url)

ada_has_non_empty_password(url)

ada_has_port(url)

ada_has_hash(url)

ada_has_search(url)
```

Arguments

url character. one or more URL to be parsed

Value

logical, NA if not a valid URL.

Examples

```
url <- c("https://user_1:password_1@example.org:8080/dir/../../api?q=1#frag")
ada_has_credentials(url)
ada_has_empty_hostname(url)
ada_has_hostname(url)
ada_has_non_empty_username(url)
ada_has_non_empty_password(url)
ada_has_port(url)
ada_has_hash(url)
ada_has_search(url)
```

```
## these functions are vectorized
urls <- c("http://www.google.com", "http://www.google.com:80", "noturl")
ada_has_port(urls)
```

ada_set_href	<i>Set a specific component of URL</i>
--------------	--

Description

These functions set a specific component of URL.

Usage

```
ada_set_href(url, input, decode = TRUE)
ada_set_username(url, input, decode = TRUE)
ada_set_password(url, input, decode = TRUE)
ada_set_port(url, input, decode = TRUE)
ada_set_host(url, input, decode = TRUE)
ada_set_hostname(url, input, decode = TRUE)
ada_set_pathname(url, input, decode = TRUE)
ada_set_protocol(url, input, decode = TRUE)
ada_set_search(url, input, decode = TRUE)
ada_set_hash(url, input, decode = TRUE)
```

Arguments

url	character. one or more URL to be parsed
input	character. containing new component for URL. Vector of length 1 or same length as url.
decode	logical. Whether to decode the output (see utils::URLdecode()), default to TRUE

Value

character, NA if not a valid URL

Examples

```
url <- "https://user_1:password_1@example.org:8080/dir/../../api?q=1#frag"
ada_set_href(url, "https://google.de")
ada_set_username(url, "user_2")
ada_set_password(url, "hunter2")
ada_set_port(url, "1234")
ada_set_hash(url, "#section1")
ada_set_host(url, "example.de")
ada_set_hostname(url, "example.de")
ada_set_pathname(url, "path/")
ada_set_search(url, "q=2")
ada_set_protocol(url, "ws:")
```

ada_url_parse	<i>Use ada-url to parse a url</i>
---------------	-----------------------------------

Description

Use ada-url to parse a url

Usage

```
ada_url_parse(url, decode = TRUE)
```

Arguments

url	character. one or more URL to be parsed
decode	logical. Whether to decode the output (see utils::URLdecode()), default to TRUE

Details

For details on the returned components refer to the introductory vignette.

Value

A data frame of the url components: href, protocol, username, password, host, hostname, port, pathname, search, and hash

Examples

```
ada_url_parse("https://user_1:password_1@example.org:8080/dir/../../api?q=1#frag")
```

public_suffix	<i>Extract the public suffix from a vector of domains or hostnames</i>
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Description

Extract the public suffix from a vector of domains or hostnames

Usage

```
public_suffix(domains)
```

Arguments

domains character. vector of domains or hostnames

Value

public suffixes of domains as character vector

Examples

```
public_suffix("http://example.com")

# doesn't work for general URLs
public_suffix("http://example.com/path/to/file")

# extracting hostname first does the trick
public_suffix(ada_get_hostname("http://example.com/path/to/file"))
```

url_decode2	<i>Function to percent-decode characters in URLs</i>
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Description

Similar to [utils::URLdecode](#)

Usage

```
url_decode2(url)
```

Arguments

url a character vector

Value

percent decoded URLs as character vector

Examples

```
url_decode2("Hello%20World")
```


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