# Package 'ralger'

October 14, 2022

2 attribute\_scrap

	scrap	 	6
	table_scrap	 	6
	tidy_scrap	 	7
	titles_scrap	 	8
	weblink_scrap	 	9
Indov			10
muex			10

attribute\_scrap

Scraping attributes from HTML elements

## **Description**

This function is used to scrape attributes from HTML elements

## Usage

```
attribute_scrap(link, node, attr, askRobot = FALSE)
```

## **Arguments**

1ink the link of the web page to scrape node the HTML element to consider

attr the attribute to scrape

askRobot logical. Should the function ask the robots.txt if we're allowed or not to scrape

the web page? Default is FALSE.

#### Value

a character vector.

```
# Extracting the web links within the World Bank research and publications page
link <- "https://ropensci.org/"
# scraping the class attributes' names from all the anchor
attribute_scrap(link = link, node = "a", attr = "class")</pre>
```

images\_noalt\_scrap 3

images\_noalt\_scrap

Scrape Images URLS that don't have 'alt' attributes

## **Description**

Scrape Images URLS that don't have 'alt' attributes

## Usage

```
images_noalt_scrap(link, askRobot = FALSE)
```

## Arguments

link the URL of the web page

askRobot logical. Should the function ask the robots.txt if we're allowed or not to scrape

the web page? Default is FALSE.

#### Value

a character vector of images' URL without "alt" attribute

## **Examples**

```
images_noalt_scrap(link = "https://www.r-consortium.org/")
```

images\_preview

Scrape Images URLs

## Description

Scrape Images URLs

#### Usage

```
images_preview(link, askRobot = FALSE)
```

## **Arguments**

link the link of the web page

askRobot logical. Should the function ask the robots.txt if we're allowed or not to scrape

the web page? Default is FALSE.

images\_scrap

## Value

Images URLs

## **Examples**

```
images_preview(link = "https://rstudio.com/")
```

images\_scrap

Scrape Images from a Web Page

## Description

Scrape Images from a Web Page

## Usage

```
images_scrap(link, imgpath = getwd(), extn, askRobot = FALSE)
```

## **Arguments**

link the link of the web page

imppath the path of the images. Defaults to the current directory

extn the extension of the image: png, jpeg ...

askRobot logical. Should the function ask the robots.txt if we're allowed or not to scrape

the web page? Default is FALSE.

#### Value

Images

```
## Not run:
images_scrap(link = "https://rstudio.com/", extn = "png")
## End(Not run)
```

paragraphs\_scrap 5

paragraphs_scrap	Website text paragraph scraping	
------------------	---------------------------------	--

## Description

This function is used to scrape text paragraphs from a website.

## Usage

```
paragraphs_scrap(
    link,
    contain = NULL,
    case_sensitive = FALSE,
    collapse = FALSE,
    askRobot = FALSE
)
```

## **Arguments**

link the link of the web page to scrape

contain filter the paragraphs according to the character string provided.

case\_sensitive logical. Should the contain argument be case sensitive? defaults to FALSE

collapse if TRUE the paragraphs will be collapsed into one element and the contain ar-

gument ignored.

askRobot logical. Should the function ask the robots.txt if we're allowed or not to scrap

the web page? Default is FALSE.

### Value

a character vector.

```
# Extracting the paragraphs displayed on the health page of the New York Times
link <- "https://www.nytimes.com/section/health"
paragraphs_scrap(link)</pre>
```

6 table\_scrap

scrap	Simple website scraping	

## Description

This function is used to scrape one element from a website.

## Usage

```
scrap(link, node, clean = FALSE, askRobot = FALSE)
```

## Arguments

link	the link of the web page to scrape
node	the HTML or CSS element to consider, the SelectorGadget tool is highly recommended
clean	logical. Should the function clean the extracted vector or not ? Default is FALSE.
askRobot	logical. Should the function ask the robots.txt if we're allowed or not to scrape the web page? Default is FALSE.

## Value

a character vector

## **Examples**

```
# Extracting imdb top 250 movie titles
link <- "https://www.imdb.com/chart/top/"
node <- ".titleColumn a"
scrap(link, node)</pre>
```

table\_scrap

HTML table scraping

## Description

This function is used to scrape an html table from a website.

tidy\_scrap 7

## Usage

```
table_scrap(link, choose = 1, header = TRUE, fill = FALSE, askRobot = FALSE)
```

#### **Arguments**

link the link of the web page containing the table to scrape

choose an integer indicating which table to scrape

header do you want the first line to be the leader (default to TRUE)

fill logical. Should be set to TRUE when the table has an inconsistent number of

columns.

askRobot logical. Should the function ask the robots.txt if we're allowed or not to scrape

the web page? Default is FALSE.

#### Value

a data frame object.

#### **Examples**

```
# Extracting premier ligue 2019/2020 top scorers
link <- "https://www.topscorersfootball.com/premier-league"
table_scrap(link)</pre>
```

tidy\_scrap Website Tidy scraping

#### **Description**

This function is used to scrape a tibble from a website.

## Usage

```
tidy_scrap(link, nodes, colnames, clean = FALSE, askRobot = FALSE)
```

#### **Arguments**

link the link of the web page to scrape

nodes the vector of HTML or CSS elements to consider, the SelectorGadget tool is

highly recommended.

colnames the names of the expected columns.

clean logical. Should the function clean the extracted tibble or not? Default is FALSE.

askRobot logical. Should the function ask the robots.txt if we're allowed or not to scrape

the web page? Default is FALSE.

8 titles\_scrap

#### Value

a tidy data frame.

#### **Examples**

```
# Extracting imdb movie titles and rating
link <- "https://www.imdb.com/chart/top/"
my_nodes <- c(".titleColumn a", "strong")
names <- c("title", "rating")
tidy_scrap(link, my_nodes, names)</pre>
```

titles\_scrap

Website title scraping

## **Description**

This function is used to scrape titles (h1, h2 & h3 html tags) from a website. Useful for scraping daily electronic newspapers' titles.

#### Usage

```
titles_scrap(link, contain = NULL, case_sensitive = FALSE, askRobot = FALSE)
```

### **Arguments**

link the link of the web page to scrape

contain filter the titles according to a character string provided.

case\_sensitive logical. Should the contain argument be case sensitive? defaults to FALSE askRobot logical. Should the function ask the robots.txt if we're allowed or not to scrape

the web page? Default is FALSE

## Value

a character vector

```
# Extracting the current titles of the New York Times
link <- "https://www.nytimes.com/"
titles_scrap(link)</pre>
```

weblink\_scrap 9

weblink_scrap Website web links scraping
------------------------------------------

## Description

This function is used to scrape web links from a website.

## Usage

```
weblink_scrap(link, contain = NULL, case_sensitive = FALSE, askRobot = FALSE)
```

## **Arguments**

link the link of the web page to scrape

contain filter the web links according to the character string provided.

 ${\tt case\_sensitive} \ \ logical. \ Should \ the \ contain \ argument \ be \ case \ sensitive \ ? \ defaults \ to \ FALSE$ 

askRobot logical. Should the function ask the robots.txt if we're allowed or not to scrape

the web page? Default is FALSE.

#### Value

a character vector.

```
# Extracting the web links within the World Bank research and publications page
link <- "https://www.worldbank.org/en/research"
weblink_scrap(link)</pre>
```

## **Index**

```
attribute_scrap, 2
images_noalt_scrap, 3
images_preview, 3
images_scrap, 4

paragraphs_scrap, 5

scrap, 6

table_scrap, 6

tidy_scrap, 7

titles_scrap, 8

weblink_scrap, 9
```