

# Package ‘ralger’

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**Type** Package

**Title** Easy Web Scraping

**Version** 2.2.4

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**Description** The goal of 'ralger' is to facilitate web scraping in R.

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**URL** <https://github.com/feddelegrand7/ralger>

**BugReports** <https://github.com/feddelegrand7/ralger/issues>

**VignetteBuilder** knitr

**Imports** rvest, xml2, tidyr, dplyr, stringr, robotstxt, crayon, curl,  
stringi

**Suggests** knitr, testthat, rmarkdown, covr

**RoxygenNote** 7.1.1

**NeedsCompilation** no

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**Repository** CRAN

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attribute_scrap	<i>Scraping attributes from HTML elements</i>
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### Description

This function is used to scrape attributes from HTML elements

### Usage

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

### Arguments

link	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.

### Examples

```
# 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")
```

---

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.

**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
imgpath	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

**Examples**

```
## Not run:
```

```
images_scrap(link = "https://rstudio.com/", extn = "png")
```

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

---

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 argument 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.

## Examples

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

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)
```

---

table\_scrap*HTML table scraping*

---

**Description**

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

**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)
```

---

tidy_scrap	<i>Website Tidy scraping</i>
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**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.

**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)
```

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titles_scrap	<i>Website title scraping</i>
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**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

**Examples**

```
# Extracting the current titles of the New York Times

link      <- "https://www.nytimes.com/"

titles_scrap(link)
```



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weblink_scrap	<i>Website web links scraping</i>
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---

**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.
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.

**Examples**

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