

Package: kwb.site (via r-universe)

September 12, 2024

Title R Package for Scraping Our Official KWB Website (Before Re-Design in 2021)

Version 0.1.0

Description This package contains functions for scraping our official [KWB website](https://kompetenz-wasser.de). The data for all projects and people can be collected in order to provide an overview of the website`s content and in order to be integrate that data into a KWB knowledge repo.

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URL <https://github.com/KWB-R/kwb.site>

BugReports <https://github.com/KWB-R/kwb.site/issues>

Imports data.table, dplyr, forcats, lubridate, jsonlite, glue, kwb.utils, ggplot2, htmlwidgets, plotly, stringr, tibble, rvest, rlang, xml2, magrittr

Suggests covr, DT, knitr, readr, rmarkdown, sessioninfo

Remotes github::kwb-r/kwb.utils

VignetteBuilder knitr

Encoding UTF-8

LazyData true

RoxygenNote 7.1.1

Repository https://kwb-r.r-universe.dev

RemoteUrl https://github.com/KWB-R/kwb.site

RemoteRef HEAD

RemoteSha 99af4687dca4b4f3e6b7a7d3d08b2427cced6d00

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clean_projects	<i>Helper function: Clean projects</i>
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Description

Helper function: Clean projects

Usage

```
clean_projects(projects_json)
```

Arguments

projects_json projects_json (default: "https://kwb-r.github.io/kwb.site/projects.json")

Value

tibble with title and extracted project "id"

extract_funder_ids	<i>Helper function: extract funder ids</i>
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Description

Helper function: extract funder ids

Usage

```
extract_funder_ids(funder_logo_urls)
```

Arguments

funder_logo_urls
vector with funder urls

Value

vector with funder names

extract_project_ids *Helper function: Extract project IDs*

Description

Helper function: Extract project IDs

Usage

```
extract_project_ids(title)
```

Arguments

title project title (as retrieved by get_projects() function)

Value

tibble with title and extracted project "id"

get_project *Get Project*

Description

Get Project

Usage

```
get_project(url, debug = TRUE)
```

Arguments

url url of KWB project
debug print debug messages (default: TRUE)

Value

tibble with project infos

Examples

```
url <- "https://www.kompetenz-wasser.de/en/project/flusshygiene/"  
project_info <- get_project(url)  
str(project_info)
```

get_projects	<i>Get Projects Info (English and German)</i>
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Description

Get Projects Info (English and German)

Usage

```
get_projects(debug = TRUE)
```

Arguments

debug print debug messages (default: TRUE)

Value

tibble with infos for all projects in English and German

Examples

```
## Not run:  
project_infos <- get_projects()  
project_infos  
  
## End(Not run)
```

get_project_urls	<i>Get Project URLs</i>
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Description

Get Project URLs

Usage

```
get_project_urls(language = "en", debug = TRUE)
```

Arguments

language website language "en" (English) or "de" (German), default: "en"
debug print debug messages (default: TRUE)

Value

character vector with project urls

Examples

```
project_urls_en <- get_project_urls("en")
head(project_urls_en)

## Not run: project_urls_de <- get_project_urls("de")
head(project_urls_de)

## End(Not run)
```

```
plot_gantt_chart_project
      Create KWB Projects Gant Chart
```

Description

Create KWB Projects Gant Chart

Usage

```
plot_gantt_chart_project(
  projects_json = "https://kwb-r.github.io/kwb.site/projects.json",
  tag_selection = "department",
  language_selection = "en",
  interactive = FALSE,
  interactive_export = FALSE,
  interactive_export_dir = ".",
  alpha = 0.5
)
```

Arguments

```
projects_json  default: "https://kwb-r.github.io/kwb.site/projects.json")
tag_selection  default: "department" (or "topic")
language_selection
               default: "en" (or "de")
interactive     should interactive ploty be used (default: FALSE)
interactive_export
               should interactive plotly graph exported? default: FALSE
interactive_export_dir
               export directory in case of interactive = TRUE, default: "."
alpha          alpha (default: 0.5)
```

Value

KWB projects gant chart

Examples

```
## Not run:
projects_by_department_en <- plot_project_gant_chart()
plot_project_gant_chart(interactive = TRUE)
projects_by_department_de <- plot_project_gant_chart(language_selection = "de")
projects_by_topic_en <- plot_project_gant_chart(tag_selection = "topic")
projects_by_topic_de <- plot_project_gant_chart(tag_selection = "topic", language_selection = "de")

## End(Not run)
```

```
plot_gantt_chart_project_by_funder
```

Create KWB Projects by Funder Gantt Chart

Description

Create KWB Projects by Funder Gantt Chart

Usage

```
plot_gantt_chart_project_by_funder(
  projects_json = "https://kwb-r.github.io/kwb.site/projects.json",
  language_selection = "en",
  interactive = FALSE,
  interactive_export = FALSE,
  interactive_export_dir = ".",
  alpha = 0.5
)
```

Arguments

```
projects_json    default: "https://kwb-r.github.io/kwb.site/projects.json")
language_selection
                 default: "en" (or "de")
interactive      should interactive plotly be used (default: FALSE)
interactive_export
                 should interactive plotly graph exported? default: FALSE
interactive_export_dir
                 export directory in case of interactive = TRUE, default: "."
alpha           alpha (default: 0.5)
```

Value

KWB projects by funder gantt chart

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