

Package ‘oncrawlR’

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Type Package

Title Machine Learning for S.E.O

Version 0.1.6

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Description Measures different aspects of page content, structure and performance for SEO (Search Engine Optimization).

Aspects covered include HTML tags used in SEO, duplicate and near-duplicate content, structured data, on-

site linking structure and popularity transfer, and many other amazing things.

This package can be used to generate a real, full SEO audit report, which serves to detect errors or inefficiencies on a page that can be corrected in order to optimise its performance on search engines.

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Encoding UTF-8

LazyData true

Depends R (>= 3.5.0)

Imports RCurl (>= 1.8), jsonlite (>= 1.6), dplyr (>= 0.7), xgboost (>= 0.8), pROC (>= 1.1), ggplot2 (>= 3.1), caret (>= 6.0), DALEX (>= 0.3), rlist (>= 0.4.6), readr (>= 1.3), rlang (>= 0.3), formattable (>= 0.2), sparkline (>= 0.2), webshot (>= 0.5), e1071 (>= 1.7), pdp (>= 0.7), fs (>= 1.3), scales (>= 1.0.0), tidyr (>= 0.8.2), htmltools (>= 0.3.5)

Suggests devtools (>= 1.12.0), testthat

RoxygenNote 6.1.1

NeedsCompilation no

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export_formattableWidget

Transform HTML widget into picture

Description

Transform HTML widget into picture

Usage

```
export_formattableWidget(w, file, width = 400, background = "white",
  delay = 0.2)
```

Arguments

w	HTML content to print
file	A vector of names of output files. Should end with .png, .pdf, or .jpeg. If several screenshots have to be taken and only one filename is provided, then the function appends the index number of the screenshot to the file name.
width	Viewport width. This is the width of the browser "window".
background	Background color for web page
delay	Time to wait before taking screenshot, in seconds. Sometimes a longer delay is needed for all assets to display properly.

`getCrawl`*Get a crawl*

Description

Get a crawl

Usage

```
getCrawl(crawlId)
```

Arguments

`crawlId` Id of your crawl

Details

[<http://developer.oncrawl.com/#Get-a-crawl>](http://developer.oncrawl.com/#Get-a-crawl)

ResCode 400 : Returned when the request has incompatible values or does not match the API specification. 401 : Returned when the request is not authenticated. 403 : Returned the current quota does not allow the action to be performed. 404 : Returned when any of resources referred in the request is not found. 403 : Returned when the request is authenticated but the action is not allowed. 409 : Returned when the requested operation is not allowed for current state of the resource. 500 : Internal error

The HTTP response is JSON object with a single `crawl` key containing the crawl's data

Value

Json

Author(s)

Vincent Terrasi

Examples

```
## Not run:  
initAPI()  
project <- getCrawl("YOURCRAWLID")  
  
## End(Not run)
```

getPageFields	<i>List all available fields from a crawl</i>
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Description

List all available fields from a crawl

Usage

```
getPageFields(crawlId)
```

Arguments

crawlId	ID of your crawl
---------	------------------

Details

ResCode 400 : Returned when the request has incompatible values or does not match the API specification. 401 : Returned when the request is not authenticated. 403 : Returned the current quota does not allow the action to be performed. 404 : Returned when any of resource(s) referred in the request is not found. 403 : Returned when the request is authenticated but the action is not allowed. 409 : Returned when the requested operation is not allowed for current state of the resource. 500 : Internal error

Value

Character Array

Author(s)

Vincent Terrasi

Examples

```
## Not run:  
pages <- getFields(YOURCRAWLID)  
  
## End(Not run)
```

`getProject`*Get a project*

Description

Get a project

Usage

```
getProject(projectId)
```

Arguments

`projectId` Id of your project

Details

<<http://developer.oncrawl.com/#Get-a-project>>

ResCode 400 : Returned when the request has incompatible values or does not match the API specification. 401 : Returned when the request is not authenticated. 403 : Returned the current quota does not allow the action to be performed. 404 : Returned when any of resource(s) referred in the request is not found. 403 : Returned when the request is authenticated but the action is not allowed. 409 : Returned when the requested operation is not allowed for current state of the resource. 500 : Internal error

The HTTP response is JSON object with three keys: - A project key with the project's data - A crawl_configs key with a list of all the project's crawl configurations. - A crawls key with a list of all project's crawl.

Value

Json

Author(s)

Vincent Terrasi

Examples

```
## Not run:  
initAPI()  
project <- getProject(YOURPROJECTID)  
  
## End(Not run)
```

initAPI *Prepare Token for API calls*

Description

Prepare Token for API calls

Usage

```
initAPI(path)
```

Arguments

path path of your conf file

Details

Example file for oncrawl_configuration.txt

```
key = 5516LP29W5Q9XXXXXXXXXXXXXXXXXOEUGWHM9 debug = FALSE api = https://app.oncrawl.com/api/v2/
```

Value

ok if no error with API authentication

Author(s)

Vincent Terrasi

Examples

```
## Not run:  
initAPI("oncrawl_configuration.txt")  
  
## End(Not run)
```

listLinks *List all links from a crawl*

Description

List all links from a crawl

Usage

```
listLinks(crawlId, originFilter = "", targetFilter = "")
```

Arguments

crawlId	ID of your crawl
originFilter	select a specific source
targetFilter	select a specific target

Details

<<http://developer.oncrawl.com/#Data-types>>

ResCode 400 : Returned when the request has incompatible values or does not match the API specification. 401 : Returned when the request is not authenticated. 403 : Returned the current quota does not allow the action to be performed. 404 : Returned when any of resource(s) referred in the request is not found. 403 : Returned when the request is authenticated but the action is not allowed. 409 : Returned when the requested operation is not allowed for current state of the resource. 500 : Internal error

Value

Json

Author(s)

Vincent Terrasi

Examples

```
## Not run:  
links <- listLinks(YOURCRAWLID)  
  
## End(Not run)
```

listLogs

List all pages from logs monitoring

Description

List all pages from logs monitoring

Usage

```
listLogs(projectId)
```

Arguments

projectId	ID of your project
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Details

<<http://developer.oncrawl.com/#Data-types>>

ResCode 400 : Returned when the request has incompatible values or does not match the API specification. 401 : Returned when the request is not authenticated. 403 : Returned the current quota does not allow the action to be performed. 404 : Returned when any of resources referred in the request is not found. 403 : Returned when the request is authenticated but the action is not allowed. 409 : Returned when the requested operation is not allowed for current state of the resource. 500 : Internal error

Value

Json

Author(s)

Vincent Terrasi

Examples

```
## Not run:  
pages <- listLogs(YOURPROJECTID)  
  
## End(Not run)
```

listPages

List all pages from a crawl

Description

List all pages from a crawl

Usage

```
listPages(crawlId)
```

Arguments

crawlId ID of your crawl

Details

<<http://developer.oncrawl.com/#Data-types>>

ResCode 400 : Returned when the request has incompatible values or does not match the API specification. 401 : Returned when the request is not authenticated. 403 : Returned the current quota does not allow the action to be performed. 404 : Returned when any of resource(s) referred in the request is not found. 403 : Returned when the request is authenticated but the action is not allowed. 409 : Returned when the requested operation is not allowed for current state of the resource. 500 : Internal error

Value

Json

Author(s)

Vincent Terrasi

Examples

```
## Not run:  
pages <- listPages(YOURCRAWLID)  
  
## End(Not run)
```

<code>listProjects</code>	<i>List all projects</i>
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Description

List all projects

Usage

```
listProjects(limit = 100)
```

Arguments

limit number of projects

Details

<<http://developer.oncrawl.com/#List-projects>>

ResCode 400 : Returned when the request has incompatible values or does not match the API specification. 401 : Returned when the request is not authenticated. 403 : Returned the current quota does not allow the action to be performed. 404 : Returned when any of resources referred in the request is not found. 403 : Returned when the request is authenticated but the action is not allowed. 409 : Returned when the requested operation is not allowed for current state of the resource. 500 : Internal error

Value

Json

Author(s)

Vincent Terrasi

Examples

```
initAPI()  
projects <- listProjects()
```

oncrawlCreateDashboard
Create a dashboard

Description

Create a dashboard

Usage

```
oncrawlCreateDashboard(dataset, namefile, width, pathfile = tempdir())
```

Arguments

dataset	Dataset with 3 columns : date, unique name of metric, value
namefile	Filename for the export
width	Width of your picture
pathfile	string. Optional. If not specified, the intermediate files are created under TEMPDIR, with the assumption that directory is granted for written permission.

Value

a graph

Author(s)

Vincent Terrasi

Examples

```
## Not run:  
oncrawlCreateDashboard(res, "metric.png", 500, ".")  
  
## End(Not run)
```

oncrawlCreateGraph *Create a graph*

Description

Create a graph

Usage

```
oncrawlCreateGraph(dataset, namefile, width, height,  
                  pathfile = tempdir())
```

Arguments

dataset	dataset generated by DALEX package
namefile	the filename for the export
width	width of your picture
height	height of your picture
pathfile	string. Optional. If not specified, the intermediate files are created under TMPDIR, with the assumption that directory is granted for written permission.

Value

file

Author(s)

Vincent Terrasi

Examples

```
## Not run:  
oncrawlCreateGraph(res, "metric.png", width=5, height=4, ".")  
  
## End(Not run)
```

oncrawlCreateSegmentation

Transform a character array of URLs into JSON file for OnCrawl platform

Description

Transform a character array of URLs into JSON file for OnCrawl platform

Usage

```
oncrawlCreateSegmentation(list_urls, namefile, pathfile = tempdir())
```

Arguments

list_urls	your urls
namefile	the filename for the JSON export
pathfile	string. Optional. If not specified, the intermediate files are created under TEMPDIR, with the assumption that directory is granted for written permission.

Value

JSON file

Author(s)

Vincent Terrasi

Examples

```
mylist <- c("/cat/domain", "/cat/")  
oncrawlCreateSegmentation(mylist, "test.json")
```

oncrawlExplainModel *Explain XGBoost Model by displaying each importance variables*

Description

Explain XGBoost Model by displaying each importance variables

Usage

```
oncrawlExplainModel(model, x, y, max = 10, path = tempdir())
```

Arguments

model	your XgBoost model
x	your training data
y	your predicted data
max	the number of importance variable you want to explain
path	path of your conf file

Value

graphs

Author(s)

Vincent Terrasi

Examples

```
## Not run:  
list <- oncrawlTrainModel(dataset,200)  
oncrawlExplainModel(list$model, list$x, list$y, 3)  
  
## End(Not run)
```

oncrawlSplitURL	<i>Split URLs</i>
-----------------	-------------------

Description

Split URLs

Usage

```
oncrawlSplitURL(list_urls, limit = 15)
```

Arguments

list_urls	your urls
limit	the maximum of URLS you want

Value

data.frame

Author(s)

Vincent Terrasi

Examples

```
mylist <- c("/cat/domain/web/", "/cat/", "/cat/domain/")
oncrawlSplitURL(mylist, 2)
```

oncrawlTrainModel *Train XGBoost Model*

Description

Train XGBoost Model

Usage

```
oncrawlTrainModel(dataset, nround = 300, verbose = 1)
```

Arguments

dataset	your data frame
nround	number of iterations
verbose	display errors ?

Value

a list with your ML model, your training data

Author(s)

Vincent Terrasi

Examples

```
## Not run:
list <- oncrawlTrainModel(dataset)
plot(list$roc)
print(list$matrix)

## End(Not run)
```

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