

Package ‘clarifai’

May 8, 2026

Title Access to Clarifai API

Version 0.4.2

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Description Get description of images from Clarifai API. For more information, see <<http://clarifai.com>>. Clarifai uses a large deep learning cloud to come up with descriptive labels of the things in an image. It also provides how confident it is about each of the labels.

URL <http://github.com/soodoku/clarifai>

BugReports <http://github.com/soodoku/clarifai/issues>

Depends R (>= 3.2.0)

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LazyData true

VignetteBuilder knitr

Imports curl, jsonlite

Suggests knitr, rmarkdown, testthat

RoxygenNote 6.0.1

NeedsCompilation no

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Repository CRAN

Date/Publication 2017-04-12 13:41:15 UTC

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clarifai-package	<i>clarifai: Get Description of (Moving) Images</i>
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Description

Get Description of Images. Understand what is in the images. See <http://clarifai.com/>. Details about results of calls to the API can be found at <https://developer.clarifai.com>.

Your need credentials to use this application. If you haven't already, you can get this at <https://developer.clarifai.com/>.

Author(s)

Gaurav Sood

See Also

[get_token](#)

clarifai_check_auth	<i>Check if authentication information is in the environment</i>
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Description

Check if authentication information is in the environment

Usage

clarifai_check_auth()

clarifai_check_results
Check results

Description

Check results

Usage

```
clarifai_check_results(res)
```

Arguments

res results being returned by the API

clarifai_check_token *Check if authentication token is in the environment*

Description

Check if authentication token is in the environment

Usage

```
clarifai_check_token()
```

clarifai_GET *GET*

Description

GET

Usage

```
clarifai_GET(path, query, ...)
```

Arguments

path path to specific API request URL
query query list
... Additional arguments passed to [curl_fetch_memory](#).

Value

list

clarifai_POST	<i>Base POST AND GET functions. Not exported.</i>
---------------	---

Description

POST

Usage

```
clarifai_POST(path, query = NULL, ...)
```

Arguments

path	path to specific API request URL
query	query list
...	Additional arguments passed to curl_fetch_memory .

Value

list

feedback	<i>Provide Feedback on Tags of an Image</i>
----------	---

Description

Suggest tags, suggest removal of tags, suggest (dis)similar documents, or let clarifai know which tag was clicked on

Usage

```
feedback(file_path = "", feedback_type = "add_tags", feedback_value = "",
...)
```

Arguments

file_path	image on which the feedback is being provided
feedback_type	must be one of the following types: add_tags vector of suggested tags; default remove_tags vector of tags you suggest be removed search_click which tag(s) where clicked on similar_docids similar documents dissimilar_docids dissimilar documents
feedback_value	what tags to add, remove etc.
...	Additional arguments passed to clarifai_POST .

References

<https://developer.clarifai.com/guide/>

Examples

```
## Not run:  
  
# Before calling the function, set API secret and id via secret_id(c("client_id", "secret"))  
# and get token via get_token()  
  
feedback(file_path="path_to_image", feedback_type="add_tags", feedback_value="suggested_tag")  
  
## End(Not run)
```

get_color

Get the dominant colors present in images or videos

Description

Get the dominant colors present in images or videos

Usage

```
get_color(file_paths = NULL, ...)
```

Arguments

file_paths a vector of paths to image file(s) for which you want tags
... Additional arguments passed to `clarifai_POST`.

Value

Named list of length 3: `status_code`, `status_msg`, and `results`. `results` is a named list of length 12. Contains information about max. and min. image and video size allowed etc.

Prints `status_msg` by default

References

<https://developer.clarifai.com/>

Examples

```
## Not run:

# Before calling the function, set API secret and id via secret_id(c("client_id", "secret"))
# and get token via get_token()

get_color(file_paths="path_to_image")

## End(Not run)
```

get_color_urls	<i>Get the dominant colors present in images or videos</i>
----------------	--

Description

Get the dominant colors present in images or videos

Usage

```
get_color_urls(img_urls = NULL, meta = FALSE, ...)
```

Arguments

img_urls	A string or character vector of URLs of images for which you want tags
meta	Boolean that toggles whether or not you want the entire object. Default is FALSE. When FALSE, the function returns just a data.frame of results
...	Additional arguments passed to <code>clarifai_POST</code> .

Value

Named list of length 3: status_code, status_msg, and results. results is a named list of length 12. Contains information about max. and min. image and video size allowed etc.

Prints status_msg by default

References

<https://developer.clarifai.com/>

Examples

```
## Not run:

# Before calling the function, set API secret and id via secret_id(c("client_id", "secret"))
# and get token via get_token()

get_color_urls("https://samples.clarifai.com/metro-north.jpg")
get_color_urls(c("https://samples.clarifai.com/metro-north.jpg",
"https://samples.clarifai.com/metro-north.jpg"))
```

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

get_info	<i>Get Information</i>
----------	------------------------

Description

Basic information about the application — what are maximum sizes allowed, default language, max. and min. image and video size, max. batch size, etc.

Usage

```
get_info(...)
```

Arguments

... Additional arguments passed to `clarifai_GET`.

Value

Named list of length 3: `status_code`, `status_msg`, and `results`. `results` is a named list of length 12. Contains information about max. and min. image and video size allowed etc.

Prints `status_msg` by default

References

<https://developer.clarifai.com/>

Examples

```
## Not run:  
  
# Before calling the function, set API secret and id via secret_id(c("client_id", "secret"))  
# and get token via get_token()  
  
get_info()  
  
## End(Not run)
```

get_langs	<i>List all the languages that the tag API call supports</i>
-----------	--

Description

List all the languages that the tag API call supports

Usage

```
get_langs(...)
```

Arguments

... Additional arguments passed to [clarifai_GET](#).

Value

character vector listing all the languages that tag API call supports. See [tag_images](#) and [codetag_image_urls](#)

References

<https://developer.clarifai.com/>

Examples

```
## Not run:  
  
# Before calling the function, set API secret and id via secret_id(c("client_id", "secret"))  
# and get token via get_token()  
  
get_langs()  
  
## End(Not run)
```

get_token	<i>Get Access Token</i>
-----------	-------------------------

Description

Once you have set your Application ID and Secret via [secret_id](#), get the access token.

Usage

```
get_token(...)
```

Arguments

... Additional arguments passed to [clarifai_POST](#).

Value

a list with 4 things: access_token, token_type, expires_in, scope

References

<https://developer.clarifai.com/>

Examples

```
## Not run:  
  
# Before calling the function, set API secret and id via secret_id(c("client_id", "secret"))  
  
get_token()  
  
## End(Not run)
```

get_usage	<i>Get API usage for the current month and hour</i>
-----------	---

Description

Get API usage for the current month and hour

Usage

```
get_usage(...)
```

Arguments

... Additional arguments passed to [clarifai_GET](#).

Value

named list with four items status_code, status_msg, results (user and application details — credits consumed, total credit)

References

<https://developer.clarifai.com/>

Examples

```
## Not run:  
  
# Before calling the function, set API secret and id via secret_id(c("client_id", "secret"))  
# and get token via get_token()  
  
get_usage()  
  
## End(Not run)
```

secret_id	<i>Sets Application ID and Secret</i>
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Description

Set Client ID and Secret. Needed for interfacing with Clarifai. Run this before anything else.

Usage

```
secret_id(appdetails = NULL, force = FALSE)
```

Arguments

appdetails	A vector of client_id, client_secret. Get these from https://developer.clarifai.com/ . Set them before you use other functions.
force	force reset client id and secret

Details

The function looks for ClarifaiId and ClarifaiSecret in the environment. If it doesn't find them and if we don't want to force change in them, it looks for arguments. And if no arguments are passed, it asks for user to input the values.

References

<https://developer.clarifai.com/>

Examples

```
## Not run:  
setapp(c("client_id", "client_secret"))  
  
## End(Not run)
```

tag_images	<i>Tag Images on the Computer</i>
------------	-----------------------------------

Description

Tag Images on the Computer

Usage

```
tag_images(file_paths = NULL, model = NULL, language = NULL,
           meta = FALSE, simplify = TRUE, ...)
```

Arguments

file_paths	a vector of paths to image file(s) for which you want tags
model	For topic specific answers. Optional. Can be one of the following: general-v1.3, nsfw-v1.0, weddings-v1.0, travel-v1.0, food-items-v0.1 Default is NULL
language	Return tag in another language than english. 2 digit code. Optional. See <code>list{get_langs}</code> for the supported languages and their 2 digit codes.
meta	Boolean that toggles whether or not you want the entire object.
simplify	Boolean that toggles whether or not you want a simplified data frame with each label and associated probability in a separate row. Default is TRUE.
...	Additional arguments passed to <code>clarifai_POST</code> .

The entire object returned by the API contains a lot of meta data. By default a simplified data.frame with `img_url`, associated labels, and probabilities is returned.

Value

If meta is TRUE, a named list of length 4 with following elements is returned: `status_code` OK or not `status_msg` Successful or not `meta` Named list of 1 containing another list named `tag` Sublist `tag` has three elements: `timestamp`, `model` and `config` `results` is a data.frame of length 6 and 1 row. Column names are: `docid`, `status_code`, `status_msg`, `local_id` and a data.frame named `tag` which has a data.frame `result` which contains two columns: `labels` and `probabilities`

If meta is FALSE and simplify is TRUE, a data.frame with three columns: `file_paths`, `labels` and `probs` returned

If meta is FALSE and simplify is FALSE, a data.frame with two columns carrying a vector of labels, vector of probs is returned for each image

References

<https://developer.clarifai.com/>

See Also

[tag_image_urls](#)

Examples

```
## Not run:

# Before calling the function, set API secret and id via secret_id(c("client_id", "secret"))
# and get token via get_token()

tag_images(file_paths="path_to_image")

## End(Not run)
```

tag_image_urls	<i>Tag Remote Images</i>
----------------	--------------------------

Description

Tag Remote Images

Usage

```
tag_image_urls(img_urls = NULL, model = NULL, language = NULL,
               meta = FALSE, simplify = TRUE, ...)
```

Arguments

img_urls	A string or character vector of URLs of images for which you want tags
model	For topic specific answers. Optional. Can be one of the following: general-v1.3, nsfw-v1.0, weddings-v1.0, travel-v1.0, food-items-v0.1 Default is NULL
language	Return tag in another language than english. 2 digit code. Optional. See <code>list{get_langs}</code> for the supported languages and their 2 digit codes.
meta	Boolean that toggles whether or not you want the entire object.
simplify	Boolean that toggles whether or not you want a simplified data frame with each label and associated probability in a separate row. Default is TRUE.
...	Additional arguments passed to <code>clarifai_POST</code> .

The entire object returned by the API contains a lot of meta data. By default a simplified data.frame with `img_url`, associated labels, and probabilities is returned.

Value

If `meta` is TRUE, a named list of length 4 with following elements is returned: `status_code` OK or not `status_msg` Successful or not `meta` Named list of 1 containing another list named `tag` Sublist `tag` has three elements: `timestamp`, `model` and `config` `results` is a data.frame of length 6 and 1 row. Column names are: `docid`, `status_code`, `status_msg`, `local_id` and a data.frame named `tag` which has a data.frame result which contains two columns: `labels` and `probabilities`

If `meta` is FALSE and `simplify` is TRUE, a data.frame with three columns: `img_urls`, `labels` and `probs` returned

If `meta` is `FALSE` and `simplify` is `FALSE`, a `data.frame` with two columns carrying a vector of labels, vector of probs is returned for each image

References

<https://developer.clarifai.com/>

See Also

[tag_images](#)

Examples

```
## Not run:  
  
# Before calling the function, set API secret and id via secret_id(c("client_id", "secret"))  
# and get token via get_token()  
  
tag_image_urls(img_urls="url_of_image")  
tag_image_urls("https://samples.clarifai.com/metro-north.jpg")  
tag_image_urls("https://samples.clarifai.com/metro-north.jpg", language="es")  
tag_image_urls("https://samples.clarifai.com/nsfw.jpg", model="nsfw-v1.0")  
  
## End(Not run)
```

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