Package ‘clarifai’

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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)
License MIT + file LICENSE
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clarifai-package clarifai: Get Description of (Moving) Images

Description


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 Check if authentication information is in the environment

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  Base POST AND GET functions. Not exported.

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     Provide Feedback on Tags of an Image

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; de-

fault 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.
get_color

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/
get_color_urls

**Examples**

```r
## 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**  
*Get the dominant colors present in images or videos*

**Description**

Get the dominant colors present in images or videos

**Usage**

```r
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 `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/](https://developer.clarifai.com/)

**Examples**

```r
## 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"))
```
get_info

## End(Not run)

---

### get_info

#### Get Information

---

**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_token

get_langs

List all the languages that the tag API call supports

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

Get Access Token

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.
get_usage

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

Get API usage for the current month and hour

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/
secret_id

Examples

```r
## 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**

Sets Application ID and Secret

Description

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

Usage

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

Arguments

- 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/](https://developer.clarifai.com/)

Examples

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

## End(Not run)
```
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 `list(get_langs)` 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 `clarifai_POST`.

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

- `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`
tag_image_urls

Examples

```r
## 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(file_paths="path_to_image")

## End(Not run)
```

### Description
Tag Remote Images

### Usage

```r
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 list(get_langs) 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 `clarifai_POST`.

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_url`, `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

```r
## 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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