

Package: aws.polly (via r-universe)

August 21, 2024

Type Package

Title Client for AWS Polly

Version 0.1.6

Date 2020-03-10

Description A client for AWS Polly
<<http://aws.amazon.com/documentation/polly>>, a speech synthesis service.

License GPL (>= 2)

URL <https://github.com/cloudyr/aws.polly>

BugReports <https://github.com/cloudyr/aws.polly/issues>

Imports htrr, jsonlite, aws.signature (>= 0.3.4), tuneR, lifecycle

Encoding UTF-8

RoxygenNote 7.1.2

Repository <https://cloudyr.r-universe.dev>

RemoteUrl <https://github.com/cloudyr/aws.polly>

RemoteRef HEAD

RemoteSha 12da38c1479731097485eb5d0f05855de0dc228c

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aws.polly-package *aws.polly*

Description

Client for AWS Polly

Details

This is a client for AWS Polly, a speech synthesis service.

Author(s)

Thomas J. Leeper <thosjleeper@gmail.com>

See Also

[AWS Polly Documentation](#)

get_lexicon *Lexicons*

Description

List, put, and delete lexicons

Usage

```
get_lexicon(lexicon, token, ...)
```

```
put_lexicon(lexicon, content, ...)
```

```
delete_lexicon(lexicon, ...)
```

Arguments

lexicon	A character string specifying the name of a lexicon. If missing, a list of available lexicons is returned.
token	Optionally, a pagination token.
...	Additional arguments passed to pollyHTTP .
content	A character string containing the content of the PLS lexicon.

Details

Note: `put_lexicon` will overwrite an existing lexicon with the same name.

Value

A list.

Examples

```
## Not run:
list_lexicons()

## End(Not run)
```

get_synthesis	<i>Synthesize Speech</i>
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Description

Pass text to the synthesis API and return an audio file

Usage

```
get_synthesis(
  text,
  voice,
  format = c("mp3", "ogg_vorbis", "pcm"),
  rate = deprecated(),
  lexicon = deprecated(),
  ssml = FALSE,
  lexicon_names = NULL,
  sample_rate = NULL,
  engine = c("standard", "neural"),
  language = NULL,
  ...
)

synthesize(text, voice, ...)
```

Arguments

text	Either a plain text character string (maximum 1500 characters) or a character string containing SSML (ssml should be set to TRUE).
voice	Name of an AWS Polly voice. See list_voices .
format	Output file format: one of ‘mp3’ (default), ‘ogg_vorbis’ or ‘pcm’.
rate	Deprecated. Use sample_rate instead.
lexicon	Deprecated. Use lexicon_names instead.
ssml	A logical indicating whether text contains SSML markup.
lexicon_names	Optional character vector (max length 5) specifying the names of lexicons to apply during synthesis. See get_lexicon .

sample_rate	Audio frequency in Hertz. One of '24000', '22050', '16000' or '8000'. If 'NULL' (default), 'AWS' will pick an appropriate value depending on the voice, engine and output format.
engine	Engine type: either 'standard' (default) or 'neural'. Not all voices support the neural engine, see list_voices .
language	Optional language code. This is useful for bilingual voices.
...	Additional arguments passed to pollyHTTP .

Value

`get_synthesis` returns a raw vector (i.e., the bytes representing the audio as the requested file format). `synthesize` is a convenience wrapper around that, which returns an object of class "Wave" (see [Wave](#)).

Examples

```
## Not run:
hello <- synthesize("hello world!", voice = "Geraint")
if (interactive() & require("tuneR")) {
  try(play(hello))
}

## End(Not run)
```

list_voices	<i>List available voices</i>
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Description

Retrieve a list of available voices

Usage

```
list_voices(
  language = NULL,
  token = NULL,
  engine = NULL,
  include_additional_languages = FALSE,
  ...
)
```

Arguments

language	Optional ISO 3166 country identification tag. If 'NULL', voices for all available languages are returned.
token	Optional pagination token.

engine	Optional engine name: "standard" or "neural". If specified, only voices available for that engine are returned.
...	Additional arguments passed to pollyHTTP .
include_additional_language	Optional boolean specifying whether to return bilingual voices listing the requested language as an additional language (as opposed to their main default language).

Value

A data frame of available names.

Examples

```
## Not run:
list_voices(language = "cy-GB")
list_voices()

## End(Not run)
```

pollyHTTP

Execute AWS Polly API Request

Description

This is the workhorse function to execute calls to the Polly API.

Usage

```
pollyHTTP(
  action,
  query = list(),
  headers = list(),
  body = NULL,
  verb = c("GET", "POST", "PUT", "DELETE"),
  version = "v1",
  raw_response = if (verb == "POST") TRUE else FALSE,
  verbose = getOption("verbose", FALSE),
  region = Sys.getenv("AWS_DEFAULT_REGION", "us-east-1"),
  key = NULL,
  secret = NULL,
  session_token = NULL,
  ...
)
```

Arguments

action	A character string specifying the API action to take
query	An optional named list containing query string parameters and their character values.
headers	A list of headers to pass to the HTTP request.
body	A request body
verb	A character string specifying the HTTP verb to implement.
version	A character string specifying the API version.
raw_response	A logical indicating whether to return the raw response body.
verbose	A logical indicating whether to be verbose. Default is given by options("verbose").
region	A character string specifying an AWS region. See locate_credentials .
key	A character string specifying an AWS Access Key. See locate_credentials .
secret	A character string specifying an AWS Secret Key. See locate_credentials .
session_token	Optionally, a character string specifying an AWS temporary Session Token to use in signing a request. See locate_credentials .
...	Additional arguments passed to GET .

Details

This function constructs and signs an Polly API request and returns the results thereof, or relevant debugging information in the case of error.

Value

If successful, a named list. Otherwise, a data structure of class "aws-error" containing any error message(s) from AWS and information about the request attempt.

Author(s)

Thomas J. Leeper

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