

Package ‘aws.polly’

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Type Package

Title Client for AWS Polly

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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 httr, jsonlite, aws.signature (>= 0.2.6), tuneR

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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)

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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.
content	A character string containing the content of the PLS lexicon.
...	Additional arguments passed to pollyHTTP .

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 = c(22050, 16000, 8000), lexicon = NULL, ssm1 = FALSE, ...)

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

Arguments

text	Either a plain text character string or a character string containing SSML (ssml should be set to TRUE).
voice	A character string specifying the name of an AWS Polly voice. See list_voices .
format	A character string specifying an output file format.
rate	An integer value specifying the audio frequency in Hertz.
lexicon	Optionally, a character vector (max length 5) specifying the names of lexicons to apply during synthesis. See get_lexicon .
ssml	A logical indicating whether text contains SSML markup.
...	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 = "en-US", token, ...)
```

Arguments

language	An ISO 3166 country identification tag.
token	Optionally, a pagination token.
...	Additional arguments passed to pollyHTTP .

Value

A data frame of available names.

Examples

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

## 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(), body = NULL, verb = c("GET", "POST",
  "PUT", "DELETE"), version = "v1", raw_response = if (verb == "POST") TRUE
  else FALSE, region = Sys.getenv("AWS_DEFAULT_REGION"),
  key = Sys.getenv("AWS_ACCESS_KEY_ID"),
  secret = Sys.getenv("AWS_SECRET_ACCESS_KEY"),
  session_token = Sys.getenv("AWS_SESSION_TOKEN"), ...)
```

Arguments

action	A character string specifying the API action to take
query	An optional named list containing query string parameters and their character values.
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.
region	A character string containing an AWS region. If missing, the default "us-east-1" is used.
key	A character string containing an AWS Access Key ID. The default is pulled from environment variable "AWS_ACCESS_KEY_ID".
secret	A character string containing an AWS Secret Access Key. The default is pulled from environment variable "AWS_SECRET_ACCESS_KEY".
session_token	Optionally, a character string containing an AWS temporary Session Token. If missing, defaults to value stored in environment variable "AWS_SESSION_TOKEN".
...	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)

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