

Package ‘aws.polly’

May 7, 2026

Type Package

Title Client for AWS Polly

Version 0.1.5

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 httr, jsonlite, aws.signature (>= 0.3.4), tuneR

Encoding UTF-8

RoxygenNote 7.0.2

NeedsCompilation no

Author Thomas J. Leeper [aut] (ORCID: <<https://orcid.org/0000-0003-4097-6326>>),
Antoine Sachet [cre]

Maintainer Antoine Sachet <antoine.sac@gmail.com>

Repository CRAN

Date/Publication 2020-03-11 12:40:05 UTC

Contents

aws.polly-package	2
get_lexicon	2
get_synthesis	3
list_voices	4
pollyHTTP	5

Index	7
--------------	----------

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>
---------------	--------------------------

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,  
  ssml = FALSE,  
  ...  
)  
  
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	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>
-------------	------------------------------

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)
```

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

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

Index

* **package**

aws.polly-package, 2

aws.polly (aws.polly-package), 2

aws.polly-package, 2

delete_lexicon (get_lexicon), 2

GET, 5

get_lexicon, 2, 3

get_synthesis, 3

list_voices, 3, 4

locate_credentials, 5

pollyHTTP, 2-4, 5

put_lexicon (get_lexicon), 2

synthesize (get_synthesis), 3

Wave, 4