Package 'aws.polly'

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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.

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.

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Value

A list.

Examples

```
## Not run:
list_lexicons()
## End(Not run)
```

get_synthesis

Synthesize Speech

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 <pre>get_lexicon</pre> .
ssml	A logical indicating whether text contains SSML markup.
	Additional arguments passed to pollyHTTP.

list_voices

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)</pre>
```

list_voices

List available voices

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)
```

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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.

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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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