

# Package ‘aws.polly’

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**Type** Package

**Title** Client for AWS Polly

**Version** 0.1.5

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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** htr, jsonlite, aws.signature (>= 0.3.4), tuneR

**Encoding** UTF-8

**RoxygenNote** 7.0.2

**NeedsCompilation** no

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aws.polly-package      *aws.polly*

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### 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](#)

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get\_lexicon      *Lexicons*

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### 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 <a href="#">pollyHTTP</a> .
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)
```

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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,
  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 <a href="#">list_voices</a> .
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 <a href="#">get_lexicon</a> .
ssml	A logical indicating whether text contains SSML markup.
...	Additional arguments passed to <a href="#">pollyHTTP</a> .

**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)
```

---

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

Retrieve a list of available voices

**Usage**

```
list_voices(language = "en-US", token, ...)
```

**Arguments**

<code>language</code>	An ISO 3166 country identification tag.
<code>token</code>	Optionally, a pagination token.
<code>...</code>	Additional arguments passed to <a href="#">pollyHTTP</a> .

**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 <a href="#">locate_credentials</a> .
<code>key</code>	A character string specifying an AWS Access Key. See <a href="#">locate_credentials</a> .
<code>secret</code>	A character string specifying an AWS Secret Key. See <a href="#">locate_credentials</a> .
<code>session_token</code>	Optionally, a character string specifying an AWS temporary Session Token to use in signing a request. See <a href="#">locate_credentials</a> .
<code>...</code>	Additional arguments passed to <a href="#">GET</a> .

**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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