# Package 'aws.comprehend'

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Type Package

Title 'AWS Comprehend' Client Package
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<b>Description</b> Client for 'AWS Comprehend' <a href="https://aws.amazon.com/comprehend">https://aws.amazon.com/comprehend</a> , a cloud natural language processing service that can perform a number of quantitative text analyses, including language detection, sentiment analysis, and feature extraction.
License GPL (>= 2)
<pre>URL https://github.com/cloudyr/aws.comprehend</pre>
BugReports https://github.com/cloudyr/aws.comprehend/issues
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aws.comprehend-package

aws.comprehend

## **Description**

AWS Comprehend Client Package

## **Details**

Client for AWS Comprehend (https://aws.amazon.com/comprehend0, a cloud natural language processing service that can perform a number of quantitative text analyses, including language detection, sentiment analysis, and feature extraction.

#### Author(s)

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#### See Also

detect\_language, detect\_sentiment, detect\_entities, detect\_phrases

comprehendHTTP

Execute AWS Comprehend API Request

## **Description**

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

#### Usage

```
comprehendHTTP(action, query = list(), body = NULL, region = NULL,
  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.
body	A request 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".

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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)

Thomas J. Leeper

detect\_entities Detect named entities in a source text

# Description

Detect entities in a source text

# Usage

```
detect_entities(text, language = "en", ...)
```

## **Arguments**

text A character string containing a text to entities analyze, or a character vector to

perform analysis separately for each element.

language A character string containing a two-letter language code. Currently "en" and

"es" are supported.

... Additional arguments passed to comprehendHTTP.

#### Value

A data frame

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#### **Examples**

detect\_language

Detect language in a source text

# **Description**

Detect language(s) in a source text

# Usage

```
detect_language(text, ...)
```

# **Arguments**

text A character string containing a textual source, or a character vector to detect

languages separately for each element.

... Additional arguments passed to comprehendHTTP.

#### Value

A data frame of language probabilities.

## **Examples**

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detect\_phrases

Detect key phrases

## **Description**

Detect key phrases in a source text

# Usage

```
detect_phrases(text, language = "en", ...)
```

# Arguments

text A character string containing a text to analyze, or a character vector to perform

analysis separately for each element.

language A character string containing a two-letter language code. Currently "en" and

"es" are supported.

... Additional arguments passed to comprehendHTTP.

#### Value

A data frame

#### **Examples**

detect\_sentiment

Detect sentiment in a source text

# Description

Detect sentiment in a source text

## Usage

```
detect_sentiment(text, language = "en", ...)
```

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## **Arguments**

text A character string containing a text to sentiment analyze, or a character vector

to perform analysis separately for each element.

language A character string containing a two-letter language code. Currently "en" and

"es" are supported.

... Additional arguments passed to comprehendHTTP.

#### Value

A data frame

# **Examples**

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