

Package ‘cloudSimplifieR’

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Type Package

Title Fetch Data from Amazon AWS

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Description Simple helper functions to fetch and read data from various formats stored on Amazon AWS S3 Buckets <<https://aws.amazon.com/s3/>> . Most functions are essentially wrapping over cloudyR <<https://cloudyr.github.io/>> which is a project and group of packages which provide easier cloud computing solutions for R.

License GPL-2

Encoding UTF-8

LazyData false

Imports aws.s3, aws.signature, jsonlite, readr

RoxygenNote 6.1.1

NeedsCompilation no

Repository CRAN

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csvToDataframe	<i>csvToDataframe</i>
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Description

This function returns a dataframe from a .csv file stored on AWS S3.

Usage

```
csvToDataframe(s3URL)
```

Arguments

s3URL	This is the S3 URL to the .csv file.
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Value

A dataframe made from .csv.

Examples

```
csvToDataframe("s3://cloudsimplifier-examples/example.csv")
```

getFileData	<i>getFileData</i>
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Description

This function returns a dataframe from a file stored on an AWS S3 Bucket.

Usage

```
getFileData(filename, format, bucket)
```

Arguments

filename	This is the name of the file with extension.
format	This is the format of the file. Currently supports: .csv, .json
bucket	This is the name of the S3 Bucket.

Value

A dataframe

Examples

```
getFileData("example.csv", "csv", "cloudsimplifier-examples")
```

getFilenames	<i>getFilenames</i>
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Description

This function returns a list of filenames in a specified S3 Bucket. This will not work until you set environment variables using "setEnvironment"

Usage

```
getFilenames(bucket)
```

Arguments

bucket	This is the bucketname from which to return files. This function assumes there is no hierarchy and won't dive into folders.
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Value

filenames A simple list of files in the S3 Bucket

jsonToDataframe	<i>jsonToDataframe</i>
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Description

This function returns a dataframe from a json file stored on AWS S3.

Usage

```
jsonToDataframe(s3URL)
```

Arguments

s3URL	This is the S3 URL to the json file.
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Value

A dataframe made from json. If the json is invalid, it prints an error message and returns the json string for debugging or other exploration.

Examples

```
jsonToDataframe("s3://cloudsimplifier-examples/example.json")
```

setEnvironment	<i>setEnvironment</i>
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Description

This function sets the environment variables for the AWS environment

Usage

```
setEnvironment(key, secret, region)
```

Arguments

key	This goes into the <code>AWS_ACCESS_KEY_ID</code>
secret	This goes into the <code>AWS_SECRET_ACCESS_KEY</code>
region	This goes into the <code>AWS_DEFAULT_REGION</code>

Examples

```
setEnvironment("xxxxxxxx", "xxxxx/xxx", "ap-south-1")
```

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