

Package ‘s3’

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Title Download Files from 'AWS S3'

Version 1.1.0

Description Download files hosted on 'AWS S3' (Amazon Web Services Simple Storage Service; <<https://aws.amazon.com/s3/>>) to a local directory based on their URI. Avoid downloading files that are already present locally. Allow for customization of where to store downloaded files.

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Encoding UTF-8

RoxygenNote 7.3.2

Imports cli, prettyunits, fs, rlang, httr, glue, purrr (>= 0.3.4),
dplyr,

Suggests aws.signature, testthat, digest, withr

URL <https://github.com/brokamp-group/s3>

BugReports <https://github.com/brokamp-group/s3/issues>

NeedsCompilation no

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s3_get	<i>download s3 file</i>
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Description

Files are downloaded to the R user data directory (i.e., `tools::R_user_dir("s3", "data")`) so they can be cached across all of an R user's sessions and projects. Specify an alternative download location by setting the `R_USER_DATA_DIR` environment variable (see `?tools::R_user_dir`) or by using the `data_dir` argument.

Usage

```
s3_get(
  s3_uri,
  region = "us-east-2",
  quiet = FALSE,
  progress = FALSE,
  force = FALSE,
  public = FALSE,
  data_dir = tools::R_user_dir("s3", "data")
)
```

Arguments

<code>s3_uri</code>	URI for an S3 object
<code>region</code>	AWS region for bucket containing the file (defaults to "us-east-2", but only required for private files)
<code>quiet</code>	suppress messages?
<code>progress</code>	show download progress? (currently only for public objects)
<code>force</code>	force download to overwrite existing S3 object
<code>public</code>	defaults to FALSE; if TRUE, ignore any environment variables specifying AWS credentials and attempt to download the file as publicly available
<code>data_dir</code>	root directory for downloaded files (defaults to <code>tools::R_user_dir("s3", "data")</code>)

Value

a character string that is the file path to the downloaded file (invisibly)

Examples

```
Sys.setenv("R_USER_DATA_DIR" = tempdir())
the_file <- s3_get(s3_uri = "s3://geomarker/testing_downloads/mtcars.rds")
s3_get("s3://geomarker/testing_downloads/mtcars.rds") |>
  readRDS()
unlink(the_file)
```

s3_get_files	<i>download several s3 files</i>
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Description

Progress messages for downloading several S3 objects at once cannot be silenced. Like `s3_get`, S3 objects that have already been downloaded will not be re downloaded

Usage

```
s3_get_files(  
  s3_uri,  
  region = "us-east-2",  
  progress = FALSE,  
  force = FALSE,  
  confirm = TRUE,  
  public = FALSE,  
  data_dir = tools::R_user_dir("s3", "data")  
)
```

Arguments

<code>s3_uri</code>	vector of S3 object URIs
<code>region</code>	AWS region for bucket containing the file (defaults to "us-east-2", but only required for private files)
<code>progress</code>	show download progress for each individual file? (currently only for public objects)
<code>force</code>	force download to overwrite existing S3 objects
<code>confirm</code>	ask user to interactively confirm downloads? (only possible when session is interactive)
<code>public</code>	defaults to FALSE; if TRUE, ignore any environment variables specifying AWS credentials and attempt to download the file as publicly available
<code>data_dir</code>	root directory for downloaded files (defaults to <code>tools::R_user_dir("s3", "data")</code>)

Value

`data.frame` (or `tibble`) with `s3_uris` and corresponding file paths to downloaded files (invisibly)

Examples

```
Sys.setenv("R_USER_DATA_DIR" = tempdir())  
the_files <- s3_get_files(c(  
  "s3://geomarker/testing_downloads/mtcars.rds",  
  "s3://geomarker/testing_downloads/mtcars.fst"  
)  
)  
unlink(the_files$file_path)
```

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