

# Package ‘foundry’

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**Type** Package

**Title** 'Palantir Foundry' Software Development Kit

**Version** 0.13.0

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**Description** Interface to 'Palantir Foundry', including  
reading and writing structured or unstructured datasets, and more  
<<https://www.palantir.com/platforms/foundry/>>.

**URL** <https://github.com/palantir/palantir-r-sdk>

**BugReports** <https://github.com/palantir/palantir-r-sdk/issues>

**Encoding** UTF-8

**License** Apache License 2.0

**RoxygenNote** 7.2.1

**Depends** R (>= 3.5.0)

**Imports** arrow (>= 0.14.0), jsonlite, httr, R6, yaml

**Suggests** lintr, httpptest, testthat (>= 3.0.0), withr

**Collate** 'config.R' 'api\_client.R' 'utils.R' 'schema.R'  
'datasets\_api\_client.R' 'datasets.R'

**NeedsCompilation** no

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datasets.download\_files

*Download Foundry Files locally.*

---

### Description

Download Foundry Files locally.

### Usage

```
datasets.download_files(alias, files)
```

### Arguments

alias	The alias representing the Dataset.
files	The file paths or file properties.

### Value

A list mapping Foundry Dataset files to the local file paths where files were downloaded.

### Examples

```
## Not run:  
# Download a single file in a Dataset  
downloaded_file <- datasets.download_files("my_alias", c("dir/my_file.csv"))  
read.csv(downloaded_file$`dir/my_file.csv`)  
  
# Extract text from all PDF files in a Dataset  
pdf_files <- datasets.list_files("my_alias", regex = ".*\\.pdf")  
downloaded_files <- datasets.download_files("my_alias", pdf_files)  
contents <- lapply(download_files, pdftools::pdf_text)  
  
## End(Not run)
```

---

datasets.list\_files     *Lists the files stored in a Foundry Dataset.*

---

### Description

Lists the files stored in a Foundry Dataset.

### Usage

```
datasets.list_files(alias, regex = ".*")
```

### Arguments

alias	The alias representing the Dataset.
regex	A regex used to filter files by path.

### Value

The lists of file properties.

### Examples

```
## Not run:  
# List all PDF files in a Dataset  
all_files <- datasets.list_files("my_dataset", regex=".*\\.pdf")  
  
# Get all file names  
file_names <- sapply(all_files, function(x) x$path)  
  
## End(Not run)
```

---

datasets.read\_table     *Reads a tabular Foundry dataset as data.frame or an Apache Arrow Table.*

---

### Description

Reads a tabular Foundry dataset as data.frame or an Apache Arrow Table.

### Usage

```
datasets.read_table(  
  alias,  
  columns = NULL,  
  row_limit = NULL,  
  format = "data.frame"  
)
```

**Arguments**

alias	The alias representing the Dataset. The Dataset must be tabular, i.e. have a schema.
columns	The subset of columns to retrieve.
row_limit	The maximum number of rows to retrieve.
format	The output format, can be 'arrow' or 'data.frame'.

**Value**

A data.table or an Arrow Table

**Column types**

Note that types may not match exactly the Foundry column types. See <https://arrow.apache.org/docs/r/articles/arrow.html> for details on type conversions from an arrow Table to a data.frame.

**Examples**

```
## Not run:
# Download a subset of a tabular Dataset
df <- datasets.read_table("my_input", columns = c("columnA", "columnB"), row_limit = 1000)

## End(Not run)
```

---

datasets.upload\_files *Upload a local file or folder to a Foundry Dataset.*

---

**Description**

Upload a local file or folder to a Foundry Dataset.

**Usage**

```
datasets.upload_files(files, alias)
```

**Arguments**

files	The local files and folders to upload. If a folder is provided, all files found recursively in subfolders will be uploaded.
alias	The alias representing the Dataset.

**Value**

A list mapping local file paths to the corresponding Foundry Dataset file.

## Examples

```
## Not run:  
# Upload RDS files to a Dataset  
local_dir <- file.path(tempdir(), "to_upload")  
dir.create(local_dir)  
saveRDS(iris, file.path(local_dir, "iris.rds"))  
saveRDS(Titanic, file.path(local_dir, "Titanic.rds"))  
  
datasets.upload_files(local_dir, "my_output")  
  
## End(Not run)
```

---

datasets.write\_table *Writes a data.frame to a Foundry dataset.*

---

## Description

Writes a data.frame to a Foundry dataset.

## Usage

```
datasets.write_table(data, alias)
```

## Arguments

data	A data.frame or an arrow Table.
alias	The alias representing the Dataset.

## Column types

Note that types may not be exactly preserved and all types are not supported. See <https://arrow.apache.org/docs/r/articles/arrow> for details on type conversions from a data.frame to an arrow Table. Use `arrow::Table$create` to use more granular types.

## Row Names

Row names are silently removed.

## Examples

```
## Not run:  
datasets.write_table(mtcars, "my_output")  
  
## End(Not run)
```

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