Package: sharepointr (via r-universe)

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```
Type Package
Title Read and Write from SharePoint Sites
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Maintainer Eli Pousson <eli.pousson@gmail.com>
Description A R package extending Microsoft365R to make it easier to
     read, write, and work with SharePoint items, lists, and plans.
License MIT + file LICENSE
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     https://elipousson.github.io/sharepointr/
BugReports https://github.com/elipousson/sharepointr/issues
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Suggests fs, knitr, officer, openxlsx2, rappdirs, readr, readxl,
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```

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AzureR_config

List or delete files from the AzureR configuration directory

Description

AzureR_config_ls() uses rappdirs::user_config_dir() and fs::dir_ls() to list files from the AzureR configuration directory. AzureR_config_delete() uses fs::file_delete() to remove the "graph_logins.json" configuration file if needed. Use this function with caution but it may be an option to address a "Unable to refresh token" error.

```
AzureR_config_ls(path = NULL, glob = "*.json")
AzureR_config_delete(path = NULL, filename = "graph_logins.json")
```

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Arguments

path	Path to configuration directory for AzureR package where the JSON file for
	$graph_logins\ is\ stored.\ If\ NULL,\ path\ is\ set\ with\ rappdirs:: user_config_dir("AzureR").$
glob	A wildcard aka globbing pattern (e.g. *.csv) passed on to grep() to filter paths.
filename	Filename to delete from configuration directory. Defaults to "graph_logins.json". Set to NULL if path contains a file name.
	Set to NOLL II path contains a me name.

Description

Create or update list items

```
create_sp_list_items(
  data,
  list_name = NULL,
  list_id = NULL,
  sp_list = NULL,
  allow_display_nm = TRUE,
  .id = "id",
  site_url = NULL,
  site = NULL,
  drive_name = NULL,
  drive_id = NULL,
  drive = NULL,
  check_fields = TRUE,
  sync_fields = FALSE,
  strict = FALSE,
  call = caller_env()
)
update_sp_list_items(
  data,
  list_name = NULL,
  list_id = NULL,
  sp_list = NULL,
  ...,
  .id = "id",
 allow_display_nm = TRUE,
  call = caller_env()
```

create_sp_list_items

```
update_sp_list_item(
    ...,
    .data = NULL,
    id = NULL,
    sp_list_item = NULL,
    na_fields = c("drop", "replace"),
    list_name = NULL,
    list_id = NULL,
    sp_list = NULL,
    site_url = NULL,
    site_url = NULL,
    drive_name = NULL,
    drive_id = NULL,
    drive = NULL,
    call = caller_env()
)
```

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data Required. A data frame to import as items to the supplied or identified Share-

Point list.

list_name, list_id

SharePoint List name or ID string.

drive_id, drive, and any additional parameters passed to . . . are all ignored.

... Additional parameters passed to get_sp_site() or Microsoft365R::get_sharepoint_site().

allow_display_nm

If TRUE, allow data to use list field display names instead of standard names.

Note this requires a separate API call so may result in a slower request.

. id Name of column in data to use for item ID values. Defaults to "id".

site_url A SharePoint site URL in the format "https://[tenant name].sharepoint.com/sites/[site

name]". Any SharePoint item or document URL can also be parsed to build a

site URL using the tenant and site name included in the URL.

site A ms_site object. If site is supplied, site_url, site_name, and site_id are

ignored.

drive_name, drive_id

SharePoint Drive name or ID passed to get_drive method for SharePoint site

object.

drive A ms_drive object. If drive is supplied, drive_name and drive_id are ig-

nored.

check_fields If TRUE (default), column names for the input data are matched to the fields of

the list object. If FALSE, the function will error if any column names can't be

matched to a field in the supplied SharePoint list.

sync_fields If TRUE, use the sync_fields method to sync the fields of the local ms_list

object with the fields of the SharePoint List source before retrieving list meta-

data.

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strict	Not yet implemented as of 2024-08-12. If TRUE, all column names in data must be matched to field names in the supplied SharePoint list. If FALSE (default), unmatched columns will be dropped with a warning.
call	The execution environment of a currently running function, e.g. caller_env(). The function will be mentioned in error messages as the source of the error. See the call argument of abort() for more information.
.data	A list or data frame with fields to update.
sp_list_item	Optional. A SharePoint list item object to use.
na_fields	How to handle NA fields in input data. One of "drop" (remove NA fields before updating list items, leaving existing values in place) or "replace" (overwrite existing list values with new replacement NA values).

Details

Validation of data with with create_sp_list_items()

The handling of item creation when column names in data do not match the fields names in the supplied list includes a few options:

- If no names in data match fields in the list, the function errors and lists the field names.
- If all names in data match fields in the list the records are created. Any fields that do not have corresponding names in data remain blank.
- If any names in data do not match fields in the list, by default, those columns are dropped before adding items to the list.
- If strict = TRUE and any names in data to not match fields, the function errors.

Examples

```
sp_list_url <- "<SharePoint List URL with a Name field>"
if (is_sp_url(sp_list_url)) {
  create_sp_list_items(
    data = data.frame(
       Name = c("Jim", "Jane", "Jayden")
    ),
    list_name = sp_list_url
    )
}
```

delete_sp_item

Delete SharePoint items (files and directories)

Description

delete_sp_item() deletes items including files and directories using the delete method for . By
default confirm = TRUE, which requires the user to respond to a prompt: "Do you really want to
delete the drive item ...? (yes/No/cancel)" to continue.

delete_sp_item

Usage

```
delete_sp_item(
  path = NULL,
  confirm = TRUE,
  by_item = FALSE,
  ...,
  item_id = NULL,
  item_url = NULL,
  item = NULL,
  drive_name = NULL,
  drive_id = NULL,
  drive = NULL,
  site_url = NULL,
  call = caller_env()
)
```

Arguments

path A SharePoint file URL or the relative path to a file located in a SharePoint drive.

If input is a relative path, the string should *not* include the drive name. If input is a shared file URL, the text "Shared" is removed from the start of the SharePoint drive name by default. If file is a document URL, the default_drive_name argument is used as the drive_name and the item_id is extracted from the URL.

confirm If TRUE, confirm before deleting item. If TRUE and session is not interactive, the

function will error.

by_item For business OneDrive or SharePoint document libraries, you may need to set

by_item = TRUE to delete the contents of a folder depending on the policies set up by your SharePoint administrator policies. Note, that this method can be slow

for large folders.

... Arguments passed on to get_sp_item

drive_name, drive_id SharePoint drive name or ID.

as_data_frame If TRUE, return a data frame. If FALSE (default), return a ms_item

or ms_item_properties object.

item_id A SharePoint item ID passed to the itemid parameter of the get_item method

for ms_drive objects.

item_url A SharePoint item URL used to parse the item ID, drive name, and site URL.

item A ms_drive_item class object. Optional if path or other parameters to get an

SharePoint item are supplied.

drive_name, drive_id

SharePoint drive name or ID.

drive A ms_drive object. If drive is supplied, drive_name, site_url, and any addi-

tional parameters passed to ... are ignored.

site_url A SharePoint site URL in the format "https://[tenant name].sharepoint.com/sites/[site

name]". Any SharePoint item or document URL can also be parsed to build a

site URL using the tenant and site name included in the URL.

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call

The execution environment of a currently running function, e.g. caller_env(). The function will be mentioned in error messages as the source of the error. See the call argument of abort() for more information.

Details

Trouble-shooting errors

If you get the error: "The resource you are attempting to access is locked", you or another user may have the file or a file within the directory open for editing. Close the file and try deleting the item again.

If you get the error: "Request was cancelled by event received. If attempting to delete a non-empty folder, it's possible that it's on hold." set by_item = TRUE and try again.

download_sp_item

Download one or more items from SharePoint to a file or folder

Description

download_sp_item() wraps the download method for SharePoint items making it easier to download items based on a shared file URL or document URL.

```
download_sp_item(
  path = NULL,
  new_path = "",
  item_id = NULL,
  item_url = NULL,
  item = NULL,
  drive_name = NULL,
  drive_id = NULL,
  drive = NULL,
  site_url = NULL,
  dest = NULL,
  overwrite = FALSE,
  recursive = FALSE,
 parallel = FALSE,
  call = caller_env()
)
download_sp_file(file, new_path = "", ..., call = caller_env())
```

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Arguments

path, file Required. A SharePoint shared file URL, document URL, or, if item_id is supplied, a file name to use with path to set dest with location and filename for

downloaded item.

new_path Path to directory for downloaded item. Optional if dest is supplied. If path con-

tains a file name, the item will be downloaded using that file name instead of the file name of the original item. If new_path refers to a nonexistent directory and the item is a file, the directory will be silently created using fs::dir_create().

... Arguments passed on to get_sp_item

drive_name, drive_id SharePoint drive name or ID.

properties If TRUE, use the get_item_properties method and return item

properties instead of the item.

as_data_frame If TRUE, return a data frame. If FALSE (default), return a ms_item

or ms_item_properties object.

item_id A SharePoint item ID passed to the itemid parameter of the get_item method

for ms_drive objects.

item_url A SharePoint item URL used to parse the item ID, drive name, and site URL.

item A ms_drive_item class object. Optional if path or other parameters to get an

SharePoint item are supplied.

drive_name, drive_id

SharePoint drive name or ID.

drive A ms_drive object. If drive is supplied, drive_name, site_url, and any addi-

tional parameters passed to ... are ignored.

site_url A SharePoint site URL in the format "https://[tenant name].sharepoint.com/sites/[site

name]". Any SharePoint item or document URL can also be parsed to build a

site URL using the tenant and site name included in the URL.

dest, overwrite, recursive, parallel

Parameters passed to download method for ms_drive_item object.

call The execution environment of a currently running function, e.g. caller_env().

The function will be mentioned in error messages as the source of the error. See

the call argument of abort() for more information.

Details

The default value for path is "" so, by default, SharePoint items are downloaded to the current working directory. Set overwrite = TRUE to allow this function to overwrite an existing file. download_sp_file() is identical except for the name of the path parameter (which is file instead of path).

Note, if the selected item is a folder and recurse = TRUE, it may take some time to download the enclosed items and {Microsoft365R} does not provide a progress bar for that operation.

Value

Invisibly returns the input dest or the dest parsed from the input path or item properties.

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Batch downloads for SharePoint items

If provided with a vector of paths or a vector of item ID values, download_sp_item() can execute a batch download on a set of files or folders. Make sure to supply a vector to new_path or dest vector with the directory names or file names to use as a destination for the downloads. With either option, you must supply a drive, a drive_name and site, or a drive_url. You can also pass a bare list of items and the value for the dest can be inferred from the item properties.

Examples

```
# Download a single directory
sp_dir_url <- "<SharePoint directory url>"
new_path <- "local file path"</pre>
if (is_sp_url(sp_dir_url)) {
 download_sp_item(
    sp_dir_url,
   new_path = new_path,
    recursive = TRUE
 )
}
# Batch download multiple directories from a SharePoint Drive
sp_drive_url <- "<SharePoint Drive url>"
if (is_sp_url(sp_drive_url)) {
 drive <- get_sp_drive(drive_name = sp_drive_url)</pre>
 drive_dir_list <- sp_dir_info(</pre>
    drive = drive,
    recurse = TRUE,
    type = "dir"
 download_sp_item(
    item_id = drive_dir_list$id,
    dest = drive_dir_list$name,
    recursive = TRUE,
    drive = drive
 )
}
```

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Description

download_sp_list() downloads a SharePoint list to a CSV or XLSX file.

Usage

```
download_sp_list(
    ...,
    new_path = "",
    sp_list = NULL,
    fileext = "csv",
    keep_list_cols = c("createdBy", "lastModifiedBy"),
    call = caller_env()
)
```

Arguments

call

... Arguments passed on to get_sp_list

list_name, list_id SharePoint List name or ID string.

as_data_frame If TRUE, return a data frame with a "ms_list" column. get_sp_list() returns a 1 row data frame and list_sp_lists() returns a data frame with n rows or all lists available for the SharePoint site or drive. Defaults to FALSE. Ignored is metadata = TRUE as list metadata is always returned as a data frame.

metadata If TRUE, get_sp_list() applies the get_column_info method to the returned SharePoint list and returns a data frame with column metadata for the list.

drive_name, drive_id SharePoint Drive name or ID passed to get_drive method for SharePoint site object.

drive A ms_drive object. If drive is supplied, drive_name and drive_id are ignored.

site_url A SharePoint site URL in the format "https://[tenant name].sharepoint.com/sites/[site name]". Any SharePoint item or document URL can also be parsed to build a site URL using the tenant and site name included in the URL.

site A ms_site object. If site is supplied, site_url, site_name, and site_id are ignored.

new_path Optional path to new file. If not new_path provided, the file name is pulled

from the name of the SharePoint list using the provided fileext. If new_path

is provided, fileext is ignored.

sp_list SharePoint list object. If supplied, all parameters supplied to . . . are ignored.

fileext File extension to use for output file. Must be "csv" or "xlsx".

keep_list_cols Column names for those columns to maintain in a list format instead of attempt-

ing to convert to a character vector.

The execution environment of a currently running function, e.g. caller_env(). The function will be mentioned in error messages as the source of the error. See

the call argument of abort() for more information.

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get_sp_group

Get SharePoint group for a site or list group members

Description

get_sp_group() gets the group associated with an individual site using the get_group method. list_sp_group_members() lists members in the group. Note that, as of February 1, 2024, the returned member data frame when as_data_frame = TRUE contains a large number of list columns that could be coerced into character columns. This should be addressed in a later update.

Usage

```
get_sp_group(
    site_url = NULL,
    site_name = NULL,
    site_id = NULL,
    ...,
    site = NULL,
    call = caller_env()
)

list_sp_group_members(
    site_url = NULL,
    site_id = NULL,
    site_id = NULL,
    ...,
    as_data_frame = TRUE,
    call = caller_env()
)
```

Arguments

A SharePoint site URL in the format "https://[tenant name].sharepoint.com/sites/[site name]". Any SharePoint item or document URL can also be parsed to build a site URL using the tenant and site name included in the URL.

site_name, site_id

Site name or ID of the SharePoint site as an alternative to the SharePoint site URL. Exactly one of site_url, site_name, and site_id must be supplied.

... Additional parameters passed to get_sp_site() or Microsoft365R::get_sharepoint_site().

site A ms_site object. If site is supplied, site_url, site_name, and site_id are ignored.

The execution environment of a currently running function, e.g. caller_env().

The function will be mentioned in error messages as the source of the error. See the call argument of abort() for more information.

get_sp_item

as_data_frame

If TRUE (default), converted list of members into a data frame with a list column named az_user that contains the member list and properties converted into columns.

get_sp_item

Get a SharePoint item or item properties

Description

get_sp_item() wraps the get_item method for ms_drive objects and returns a ms_drive_item
object by default. get_sp_item_properties() uses the get_item_properties method (also
available by setting properties = TRUE for get_sp_item()).

Additional parameters in ... are passed to get_sp_drive() by get_sp_item() or to get_sp_item() by get_sp_item() or delete_sp_item().

```
get_sp_item(
  path = NULL,
  item_id = NULL,
  item_url = NULL,
  . . . ,
  drive_name = NULL,
  drive_id = NULL,
  drive = NULL,
  site_url = NULL,
  properties = FALSE,
  as_data_frame = FALSE,
  call = caller_env()
)
get_sp_item_properties(
  path = NULL,
  item_id = NULL,
  item_url = NULL,
  ...,
  drive = NULL,
  drive_name = NULL,
  drive_id = NULL,
  site_url = NULL,
  as_data_frame = FALSE,
  call = caller_env()
)
```

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Arguments

path A SharePoint file URL or the relative path to a file located in a SharePoint drive.

If input is a relative path, the string should *not* include the drive name. If input is a shared file URL, the text "Shared" is removed from the start of the SharePoint drive name by default. If file is a document URL, the default_drive_name argument is used as the drive_name and the item_id is extracted from the URL.

item_id A SharePoint item ID passed to the itemid parameter of the get_item method

for ms_drive objects.

item_url A SharePoint item URL used to parse the item ID, drive name, and site URL.

... Arguments passed on to get_sp_drive

drive_name, drive_id SharePoint Drive name or ID passed to get_drive method for SharePoint site object.

drive_url A SharePoint Drive URL to parse for a Drive name and other information. If drive_name is a URL, it is used as drive_url.

default_drive_name Drive name string used only if input is a document URL and drive name is not part of the URL. Defaults to getOption("sharepointr.default_drive_name"Documents")

cache If TRUE, cache drive to a file using cache_sp_drive().

refresh If TRUE, get a new drive even if the existing drive is cached as a local option. If FALSE, use the cached ms_drive object if it exists.

cache_file File name for cached drive if cache = TRUE. Defaults to a option set with sharepointr.cache_file_drive (which defaults to "sp_drive.rds").

site A ms_site object. If site is supplied, site_url, site_name, and site_id are ignored.

overwrite If TRUE, replace the existing cached object named by cache_file with the new object. If FALSE, error if a cached file with the same cache_file name already exists.

drive_name, drive_id

SharePoint drive name or ID.

drive A ms_drive object. If drive is supplied, drive_name, site_url, and any addi-

tional parameters passed to ... are ignored.

site_url A SharePoint site URL in the format "https://[tenant name].sharepoint.com/sites/[site

name]". Any SharePoint item or document URL can also be parsed to build a

site URL using the tenant and site name included in the URL.

properties If TRUE, use the get_item_properties method and return item properties in-

stead of the item.

as_data_frame If TRUE, return a data frame. If FALSE (default), return a ms_item_properties

object.

call The execution environment of a currently running function, e.g. caller_env().

The function will be mentioned in error messages as the source of the error. See

the call argument of abort() for more information.

See Also

Microsoft365R::ms_drive_item

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Examples

```
sp_item_url <- "<SharePoint item url>"
if (is_sp_url(sp_item_url)) {
  get_sp_item(
    item_url = sp_item_url
  )
}
```

list_sp_drives

List drives for a SharePoint site

Description

list_sp_drives() loads a SharePoint site uses the list_drives method to returns a data frame with a list column or ms_drive objects or, if as_data_frame = FALSE. This is helpful if a drive has been renamed and can't easily be identified using a Drive URL alone.

Usage

```
list_sp_drives(
    ...,
    site = NULL,
    filter = NULL,
    n = NULL,
    as_data_frame = TRUE,
    call = caller_env()
)
```

Arguments

... Arguments passed on to get_sp_site

site_url A SharePoint site URL in the format "https://[tenant name].sharepoint.com/sites/[site name]". Any SharePoint item or document URL can also be parsed to build a site URL using the tenant and site name included in the URL.

site_name, site_id Site name or ID of the SharePoint site as an alternative to the SharePoint site URL. Exactly one of site_url, site_name, and site_id must be supplied.

refresh If TRUE, get a new site even if the existing site is cached as a local option. If FALSE, use the cached ms_site object.

cache If TRUE, cache site to a file using cache_sp_site().

cache_file File name for cached file if cache = TRUE. Defaults to "sp_site.rds" or option set with sharepointr.cache_file_site.

overwrite If TRUE, replace the existing cached object named by cache_file with the new object. If FALSE, error if a cached file with the same cache_file name already exists.

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site A ms_site object. If site is supplied, site_url, site_name, and site_id are

ignored.

filter Filter to apply to query

n Max number of drives to return

call The execution environment of a currently running function, e.g. caller_env().

The function will be mentioned in error messages as the source of the error. See

the call argument of abort() for more information.

See Also

Microsoft365R::ms_site

list_sp_item_versions List versions for a SharePoint item

Description

This is an implementation of a new method for a ms_item object using the do_operation method directly. The intent is to add a list_versions method back to the Microsoft365R package which may include changes to the functionality and output of this function.

Usage

```
list_sp_item_versions(..., sp_item = NULL, as_data_frame = TRUE)
```

Arguments

... Arguments passed on to get_sp_item

path A SharePoint file URL or the relative path to a file located in a SharePoint drive. If input is a relative path, the string should *not* include the drive name. If input is a shared file URL, the text "Shared" is removed from the start of the SharePoint drive name by default. If file is a document URL, the default_drive_name argument is used as the drive_name and the item_id is extracted from the URL.

item_id A SharePoint item ID passed to the itemid parameter of the get_item
 method for ms_drive objects.

item_url A SharePoint item URL used to parse the item ID, drive name, and site URL.

drive_name, drive_id SharePoint drive name or ID.

drive A ms_drive object. If drive is supplied, drive_name, site_url, and any additional parameters passed to ... are ignored.

properties If TRUE, use the get_item_properties method and return item properties instead of the item.

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> site_url A SharePoint site URL in the format "https://[tenant name].sharepoint.com/sites/[site name]". Any SharePoint item or document URL can also be parsed to build a site URL using the tenant and site name included in the URL. call The execution environment of a currently running function, e.g. caller_env(). The function will be mentioned in error messages as the source of the error. See the call argument of abort() for more information. SharePoint item to get versions for. Additional parameters passed to ... are

sp_item

ignored if sp_item is supplied.

If TRUE, return a data frame of versions. If FALSE, return a list. as_data_frame

Value

A data frame if as_data_frame = TRUE or a list if FALSE.

list_sp_pages

List SharePoint pages or get a single SharePoint page

Description

list_sp_pages() returns a list of SharePoint pages associated with a specified SharePoint site. get_sp_page() returns a single SharePoint page.

Usage

```
list_sp_pages(
  site = NULL,
 page_type = c("sitePage", "page"),
  as_data_frame = TRUE,
  call = caller_env()
)
get_sp_page(page_url = NULL, page_id = NULL, ..., site = NULL)
```

Arguments

Arguments passed on to get_sp_site . . .

> site_url A SharePoint site URL in the format "https://[tenant name].sharepoint.com/sites/[site name]". Any SharePoint item or document URL can also be parsed to build a site URL using the tenant and site name included in the URL.

site_name, site_id Site name or ID of the SharePoint site as an alternative to the SharePoint site URL. Exactly one of site_url, site_name, and site_id must be supplied.

refresh If TRUE, get a new site even if the existing site is cached as a local option. If FALSE, use the cached ms_site object.

cache If TRUE, cache site to a file using cache_sp_site().

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```
cache_file File name for cached file if cache = TRUE. Defaults to "sp_site.rds"
                       or option set with sharepointr.cache_file_site.
                  overwrite If TRUE, replace the existing cached object named by cache_file
                       with the new object. If FALSE, error if a cached file with the same cache_file
                       name already exists.
                  Optional ms_site object to use. If not provided, the . . . arguments are passed
site
                  to get_sp_site().
                  Page type to request. One of "sitePage" or "page".
page_type
as_data_frame
                  If TRUE, return a data frame with details on the SharePoint site pages. If FALSE,
                  return a list.
call
                  The execution environment of a currently running function, e.g. caller_env().
                  The function will be mentioned in error messages as the source of the error. See
                  the call argument of abort() for more information.
page_url, page_id
                  SharePoint page URL or ID.
```

read_sharepoint

Read a SharePoint item based on a file URL or file name and site details

Description

read_sharepoint() is designed to download a SharePoint item to a temporary folder and read the file based on the file extension. If a function is provided to .f, it is used to read the downloaded file. If not, class of the returned object depends on the file extension of the file parameter.

- If the file is a csv, csv2, or tsv file or a Microsoft Excel file (xlsx or xls), readr::read_delim() or readxl::read_excel() is used to return a data frame.
- If the file is a rds file, readr::read_rds() is used to return the saved object.
- If the file is a pptx or docx file, officer::read_docx() or officer::read_pptx() are used to read the file into a rdocx or rpptx object.
- If the file has a "gpkg", "geojson", "kml", "gdb", or "zip" file extension, sf::read_sf() is used to read the file into a sf data frame.

If the file has none of these file extensions, an attempt is made to read the file with readr::read_lines().

```
read_sharepoint(
   file,
    ...,
   .f = NULL,
   new_path = tempdir(),
   overwrite = TRUE,
   drive_name = NULL,
```

sp_dir_create

```
drive_id = NULL,
  drive = NULL,
  site_url = NULL,
  site_name = NULL,
  site_id = NULL,
  site = NULL
```

Arguments

file	Required. A SharePoint shared file URL, document URL, or, if item_id is supplied, a file name to use in combination with new_path to set dest with location and filename for downloaded item.	
•••	Additional parameters passed to one of the functions identified in the description or supplied to . f	
. f	Optional function to use to read file downloaded from SharePoint.	
new_path	Path to directory for downloaded item. Optional if dest is supplied. If path contains a file name, the item will be downloaded using that file name instead of the file name of the original item. If new_path refers to a nonexistent directory and the item is a file, the directory will be silently created using fs::dir_create().	
overwrite	If TRUE, replace the existing cached object named by cache_file with the new object. If FALSE, error if a cached file with the same cache_file name already exists.	
drive_name, dri	ve_id	
	SharePoint drive name or ID.	
drive	A ms_drive object. If drive is supplied, drive_name, site_url, and any additional parameters passed to are ignored.	
site_url	A SharePoint site URL in the format "https://[tenant name].sharepoint.com/sites/[site name]". Any SharePoint item or document URL can also be parsed to build a site URL using the tenant and site name included in the URL.	
site_name, site_id		
	Site name or ID of the SharePoint site as an alternative to the SharePoint site URL. Exactly one of site_url, site_name, and site_id must be supplied.	
site	A ms_site object. If site is supplied, site_url, site_name, and site_id are ignored.	

sp_dir_create	Create SharePoint folders
---------------	---------------------------

Description

sp_dir_create() is a wrapper for the create_folder method that handles character vectors. If drive_name is a folder URL and relative is TRUE, the values for path are appended to the file path parsed from the url. sp_dir_create 19

Usage

```
sp_dir_create(
  path,
    ...,
  drive_name = NULL,
  drive_id = NULL,
  drive = NULL,
  relative = FALSE,
  call = caller_env()
)
```

Arguments

path A character vector of one or more paths.

... Arguments passed on to get_sp_drive

drive_url A SharePoint Drive URL to parse for a Drive name and other information. If drive_name is a URL, it is used as drive_url.

default_drive_name Drive name string used only if input is a document URL and drive name is not part of the URL. Defaults to getOption("sharepointr.default_drive_name "Documents")

cache If TRUE, cache drive to a file using cache_sp_drive().

refresh If TRUE, get a new drive even if the existing drive is cached as a local option. If FALSE, use the cached ms_drive object if it exists.

cache_file File name for cached drive if cache = TRUE. Defaults to a option set with sharepointr.cache_file_drive (which defaults to "sp_drive.rds").

site_url A SharePoint site URL in the format "https://[tenant name].sharepoint.com/sites/[site name]". Any SharePoint item or document URL can also be parsed to build a site URL using the tenant and site name included in the URL.

site A ms_site object. If site is supplied, site_url, site_name, and site_id are ignored.

overwrite If TRUE, replace the existing cached object named by cache_file with the new object. If FALSE, error if a cached file with the same cache_file name already exists.

drive_name, drive_id

SharePoint Drive name or ID passed to get_drive method for SharePoint site object.

If TRUE and drive_name is a folder URL, the values for path are appended to the file path parsed from the url. If relative is a character vector, it must be length 1 or the same length as path and appended to path as a vector of parent directories. The second option takes precedence over any file path parsed from

the url.

The execution environment of a currently running function, e.g. caller_env(). The function will be mentioned in error messages as the source of the error. See the call argument of abort() for more information.

relative

call

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Examples

```
drive_url <- "<li>link to SharePoint drive>"
if (is_sp_url(drive_url)) {
  sp_dir_create(
   path = "parent_folder/subfolder",
   drive_name = drive_url
  sp_dir_create(
   path = c("subfolder1", "subfolder2", "subfolder3"),
   relative = "parent_folder",
   drive_name = drive_url
  )
}
dir_url <- "<link to SharePoint directory>"
if (is_sp_url(dir_url)) {
  sp_dir_create(
   path = c("subfolder1", "subfolder2", "subfolder3"),
   drive_name = dir_url,
    relative = TRUE
  )
}
```

sp_dir_info

List SharePoint files and folders

Description

sp_dir_info() is a wrapper for the list_files method with some additional features based on
fs::dir_info(). sp_dir_ls() returns a character vector and does not yet include support for the
recurse argument. If {fs} is installed, the size column is formatted using fs::as_fs_bytes()
and an additional "type" factor column is added with values for directory and file.

```
sp_dir_info(
  path = NULL,
    ...,
  info = "partial",
  full_names = TRUE,
  pagesize = 1000,
  drive_name = NULL,
  drive_id = NULL,
  drive = NULL,
```

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```
recurse = FALSE,
  type = "any",
  regexp = NULL,
  invert = FALSE,
  perl = FALSE,
 call = caller_env()
)
sp_dir_ls(
 path = NULL,
  full_names = FALSE,
  pagesize = 1000,
  drive_name = NULL,
  drive_id = NULL,
  drive = NULL,
  type = "any",
  regexp = NULL,
  invert = FALSE,
  perl = FALSE,
  call = caller_env()
)
```

Arguments

Path to directory or folder. SharePoint folder URLs are allowed. If NULL, path is set to default "/".

.. Arguments passed on to get_sp_drive

drive_url A SharePoint Drive URL to parse for a Drive name and other information. If drive_name is a URL, it is used as drive_url.

default_drive_name Drive name string used only if input is a document URL and drive name is not part of the URL. Defaults to getOption("sharepointr.default_drive_name"Documents")

cache If TRUE, cache drive to a file using cache_sp_drive().

refresh If TRUE, get a new drive even if the existing drive is cached as a local option. If FALSE, use the cached ms_drive object if it exists.

cache_file File name for cached drive if cache = TRUE. Defaults to a option
 set with sharepointr.cache_file_drive (which defaults to "sp_drive.rds").

site_url A SharePoint site URL in the format "https://[tenant name].sharepoint.com/sites/[site name]". Any SharePoint item or document URL can also be parsed to build a site URL using the tenant and site name included in the URL.

site A ms_site object. If site is supplied, site_url, site_name, and site_id are ignored.

overwrite If TRUE, replace the existing cached object named by cache_file with the new object. If FALSE, error if a cached file with the same cache_file name already exists.

sp_drive

info The information to return: "partial", "name" or "all". If "partial", a data frame

is returned containing the name, size, ID and whether the item is a file or folder. If "all", a data frame is returned containing all the properties for each item (this

can be large).

full_names If TRUE (default), return the full file path as the name for each item.

pagesize Maximum number of items to return. Defaults to 1000. Decrease if you are

experiencing timeouts.

drive_name, drive_id

SharePoint Drive name or ID passed to get_drive method for SharePoint site

object.

drive A ms_drive object. If drive is supplied, drive_name and drive_id are ig-

nored.

recurse If TRUE, get info for each directory at the supplied path and combine this info

with the item info for the supplied path.

type Type of item to return. Can be "any", "file", or "directory". "directory" is not a

supported option for sp_dir_ls()

regexp Regular expression passed to grep() and used to filter the paths before they are

returned.

invert logical. If TRUE return indices or values for elements that do *not* match.

perl logical. Should Perl-compatible regexps be used?

call The execution environment of a currently running function, e.g. caller_env().

The function will be mentioned in error messages as the source of the error. See

the call argument of abort() for more information.

Examples

```
dir_url <- "<link to SharePoint directory or drive>"
if (is_sp_url(dir_url)) {
    sp_dir_info(
```

```
sp_dir_info(
   path = dir_url
)

sp_dir_ls(
   path = dir_url
)
}
```

sp_drive

Get a SharePoint drive or set a default SharePoint drive

Description

get_sp_drive() wraps the get_drive method returns a ms_drive object.

cache_sp_drive() allows you to cache a default SharePoint drive for use by other functions. Additional parameters in . . . are passed to get_sp_drive().

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Usage

```
get_sp_drive(
  drive_name = NULL,
  drive_id = NULL,
  drive_url = NULL,
  properties = FALSE,
  site_url = NULL,
  site = NULL,
 default_drive_name = getOption("sharepointr.default_drive_name", "Documents"),
  cache = FALSE,
  refresh = TRUE,
  overwrite = FALSE,
  cache_file = getOption("sharepointr.cache_file_drive", "sp_drive.rds"),
  call = caller_env()
)
cache_sp_drive(
  drive = NULL,
  cache_file = getOption("sharepointr.cache_file_drive", "sp_drive.rds"),
  overwrite = FALSE,
  call = caller_env()
)
```

Arguments

drive_name, drive_id

SharePoint Drive name or ID passed to get_drive method for SharePoint site object.

drive_url A SharePoint Drive URL to parse for a Drive name and other information. If

drive_name is a URL, it is used as drive_url.

properties If TRUE, return the drive properties instead of the ms_drive object. Defaults to

FALSE.

Arguments passed on to get_sp_site . . .

> site_name, site_id Site name or ID of the SharePoint site as an alternative to the SharePoint site URL. Exactly one of site_url, site_name, and site_id must be supplied.

site_url

A SharePoint site URL in the format "https://[tenant name].sharepoint.com/sites/[site name]". Any SharePoint item or document URL can also be parsed to build a site URL using the tenant and site name included in the URL.

site

A ms_site object. If site is supplied, site_url, site_name, and site_id are ignored.

default_drive_name

Drive name string used only if input is a document URL and drive name is not part of the URL. Defaults to getOption("sharepointr.default_drive_name", "Documents")

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cache If TRUE, cache drive to a file using cache_sp_drive(). If TRUE, get a new drive even if the existing drive is cached as a local option. If refresh FALSE, use the cached ms_drive object if it exists. If TRUE, replace the existing cached object named by cache_file with the new overwrite object. If FALSE, error if a cached file with the same cache_file name already exists. cache_file File name for cached drive if cache = TRUE. Defaults to a option set with sharepointr.cache_file_driv (which defaults to "sp_drive.rds"). call The execution environment of a currently running function, e.g. caller_env(). The function will be mentioned in error messages as the source of the error. See the call argument of abort() for more information. drive A ms_drive object. If drive is supplied, drive_name and drive_id are ignored.

See Also

Microsoft365R::ms_drive

sp_list

Get a SharePoint list or a list of SharePoint lists

Description

get_sp_list() is a wrapper for the get_list and list_items methods. This function is still under development and does not support the URL parsing used by get_sp_item(). list_sp_lists() returns all lists for a SharePoint site or drive as a list or data frame. Note, when using filter with get_sp_list(), names used in the expression must be prefixed with "fields/" to distinguish them from item metadata.

```
get_sp_list(
   list_name = NULL,
   list_id = NULL,
   ...,
   site_url = NULL,
   drive_name = NULL,
   drive_id = NULL,
   drive = NULL,
   drive = FALSE,
   as_data_frame = FALSE,
   call = caller_env()
)
```

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```
site_url = NULL,
      filter = NULL,
     n = Inf,
      . . . ,
      site = NULL,
      drive_name = NULL,
      drive_id = NULL,
      drive = NULL,
      as_data_frame = TRUE,
      call = caller_env()
   )
   get_sp_list_metadata(
      list_name = NULL,
      list_id = NULL,
      sp_list = NULL,
      keep = c("all", "editable", "visible"),
      sync_fields = FALSE,
      site\_url = NULL,
      site = NULL,
      drive_name = NULL,
      drive_id = NULL,
     drive = NULL,
      call = caller_env()
   )
   delete_sp_list(
      list_name = NULL,
      list_id = NULL,
      sp_list = NULL,
      confirm = TRUE,
      site_url = NULL,
      site = NULL,
      drive_name = NULL,
     drive_id = NULL,
     drive = NULL,
      call = caller_env()
   )
Arguments
   list_name, list_id
                    SharePoint List name or ID string.
                    Arguments passed on to get_sp_drive
    . . .
                    drive_url A SharePoint Drive URL to parse for a Drive name and other infor-
                        mation. If drive_name is a URL, it is used as drive_url.
```

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default_drive_name Drive name string used only if input is a document URL and drive name is not part of the URL. Defaults to getOption("sharepointr.default_drive_name "Documents") cache If TRUE, cache drive to a file using cache_sp_drive(). refresh If TRUE, get a new drive even if the existing drive is cached as a local option. If FALSE, use the cached ms_drive object if it exists. cache_file File name for cached drive if cache = TRUE. Defaults to a option set with sharepointr.cache_file_drive (which defaults to "sp_drive.rds"). overwrite If TRUE, replace the existing cached object named by cache_file with the new object. If FALSE, error if a cached file with the same cache_file name already exists. site_url A SharePoint site URL in the format "https://[tenant name].sharepoint.com/sites/[site name]". Any SharePoint item or document URL can also be parsed to build a site URL using the tenant and site name included in the URL. site A ms_site object. If site is supplied, site_url, site_name, and site_id are ignored. drive_name, drive_id SharePoint Drive name or ID passed to get_drive method for SharePoint site drive A ms_drive object. If drive is supplied, drive_name and drive_id are ig-If TRUE, get_sp_list() applies the get_column_info method to the returned metadata SharePoint list and returns a data frame with column metadata for the list. as_data_frame If TRUE, return a data frame with a "ms list" column. get_sp_list() returns a 1 row data frame and list_sp_lists() returns a data frame with n rows or all lists available for the SharePoint site or drive. Defaults to FALSE. Ignored is metadata = TRUE as list metadata is always returned as a data frame. call The execution environment of a currently running function, e.g. caller_env(). The function will be mentioned in error messages as the source of the error. See the call argument of abort() for more information. filter A string with an OData expression apply as a filter to the results. Learn more in the Microsoft Graph API documentation on using filter query parameters. n Maximum number of lists, plans, tasks, or other items to return. Defaults to NULL which sets n to Inf. sp_list A ms_list object. If supplied, list_name, list_id, site_url, site, drive_name, drive_id, drive, and any additional parameters passed to . . . are all ignored. One of "all" (default), "editable", "visible" (not yet supported). Argument dekeep termines if the returned list metadata includes read only columns or hidden columns. sync_fields If TRUE, use the sync_fields method to sync the fields of the local ms_list object with the fields of the SharePoint List source before retrieving list metadata. confirm If TRUE, confirm deletion of list before proceeding.

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Value

A data frame as_data_frame = TRUE or a ms_list object (or list of ms_list objects) if FALSE.

See Also

- Microsoft365R::ms_list
- Microsoft365R::ms_list_item

sp_list_item

Get, list, update, and delete SharePoint list items

Description

list_sp_list_items() lists sp_list items. Additional functions should be completed for the
get_item, create_item, update_item, and delete_item methods documented in Microsoft365R::ms_list.

```
list_sp_list_items(
  list_name = NULL,
  list_id = NULL,
  sp_list = NULL,
  filter = NULL,
  select = NULL,
  all_metadata = FALSE,
  as_data_frame = TRUE,
  display_nm = c("drop", "label", "replace"),
  name_repair = "unique",
  pagesize = 5000,
  site_url = NULL,
  site = NULL,
  drive_name = NULL,
  drive_id = NULL,
  drive = NULL,
  call = caller_env()
)
get_sp_list_item(
  id,
  list_name = NULL,
  list_id = NULL,
  sp_list = NULL,
  site_url = NULL,
  site = NULL,
```

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```
drive_name = NULL,
  drive_id = NULL,
  drive = NULL,
  call = caller_env()
```

Arguments

list_name, list_id

SharePoint List name or ID string.

sp_list A ms_list object. If supplied, list_name, list_id, site_url, site, drive_name,

drive_id, drive, and any additional parameters passed to . . . are all ignored.

... Arguments passed on to get_sp_list

list_name, list_id SharePoint List name or ID string.

metadata If TRUE, get_sp_list() applies the get_column_info method to the returned SharePoint list and returns a data frame with column metadata for the list.

drive_name, drive_id SharePoint Drive name or ID passed to get_drive method for SharePoint site object.

filter A string with an OData expression apply as a filter to the results. Learn more in

the Microsoft Graph API documentation on using filter query parameters.

select A character vector of column names to include in the returned data frame of list

items. If NULL, the data frame includes all columns from the list.

columns, while the data fields will be in a nested data frame named fields. This

is always set to FALSE if n = NULL or as_data_frame = FALSE.

as_data_frame If TRUE, return a data frame with a "ms_list" column. get_sp_list() returns

a 1 row data frame and list_sp_lists() returns a data frame with n rows or all lists available for the SharePoint site or drive. Defaults to FALSE. Ignored is

metadata = TRUE as list metadata is always returned as a data frame.

display_nm Option of "drop" (default), "label", or "replace". If "drop", display names are not

accessed or used. If "label", display names are used to label matching columns in the returned data frame. If "replace", display names replace column names in the returned data frame. When working with the last option, the name_repair argument is required since there is no requirement on SharePoint for lists to use

unique display names and invalid data frames can result.

name_repair Passed to repair argument of vctrs::vec_as_names()

pagesize Number of list items to return. Reduce from default of 5000 is experiencing

timeouts.

site_url A SharePoint site URL in the format "https://[tenant name].sharepoint.com/sites/[site

name]". Any SharePoint item or document URL can also be parsed to build a

site URL using the tenant and site name included in the URL.

site A ms_site object. If site is supplied, site_url, site_name, and site_id are

ignored.

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drive_name, drive_id

SharePoint Drive name or ID passed to get_drive method for SharePoint site object.

drive

A ms_drive object. If drive is supplied, drive_name and drive_id are ignored.

call

The execution environment of a currently running function, e.g. caller_env(). The function will be mentioned in error messages as the source of the error. See the call argument of abort() for more information.

id

Required. A SharePoint list item ID typically an integer for the record number starting from 1 with the first record.

sp_plan

Get a SharePoint plan or list SharePoint plans

Description

get_sp_plan() returns a single ms_plan object using the get_plan method. list_sp_plans()
returns a data frame with plan properties or a list of ms_plan objects.

Usage

```
get_sp_plan(
  plan_title = NULL,
  plan_id = NULL,
  ...,
  site = NULL,
  site_url = NULL,
  as_data_frame = FALSE,
  call = caller_env()
)

list_sp_plans(
  ...,
  filter = NULL,
  n = NULL,
  site = NULL,
  as_data_frame = TRUE,
  call = caller_env()
)
```

Arguments

```
plan_title, plan_id
```

Planner title or ID. Exactly one of the two arguments must be supplied.

... Additional arguments passed to get_sp_group().

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site	A ms_site object. If site is supplied, site_url, site_name, and site_id are ignored.
site_url	A SharePoint site URL in the format "https://[tenant name].sharepoint.com/sites/[site name]". Any SharePoint item or document URL can also be parsed to build a site URL using the tenant and site name included in the URL.
as_data_frame	If TRUE (default for list_sp_plans()), return a data frame with the plan title, id, creation date/time, and owner ID with a list column named "ms_plan" containing ms_plan objects. If FALSE (default get_sp_plan()), return a ms_plan object or list of ms_plan objects.
call	The execution environment of a currently running function, e.g. caller_env(). The function will be mentioned in error messages as the source of the error. See the call argument of abort() for more information.
filter	A string with an OData expression apply as a filter to the results. Learn more in the Microsoft Graph API documentation on using filter query parameters.
n	Maximum number of lists, plans, tasks, or other items to return. Defaults to NULL which sets n to Inf.

Value

For get_sp_plan(), a ms_plan class object or a 1 row data frame with a "ms_plan" column. For list_sp_plans(), A list of ms_plan class objects or a data frame with a list column named "ms_plan".

See Also

Microsoft365R::ms_plan

sp_plan_bucket

List SharePoint planner buckets

Description

list_sp_plan_buckets() lists the buckets for a specified plan using the list_buckets method.

```
list_sp_plan_buckets(
  plan_title = NULL,
  plan_id = NULL,
  ...,
  filter = NULL,
  n = NULL,
  plan = NULL,
  as_data_frame = TRUE,
  call = caller_env()
)
```

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Arguments

plan_title, plan_id Planner title or ID. Exactly one of the two arguments must be supplied. Additional arguments passed to get_sp_group(). . . . filter A string with an OData expression apply as a filter to the results. Learn more in the Microsoft Graph API documentation on using filter query parameters. Maximum number of lists, plans, tasks, or other items to return. Defaults to NULL which sets n to Inf. A ms_plan object. If plan is supplied, plan_title, plan_id, and any addiplan tional parameters passed to . . . are ignored. as_data_frame If TRUE (default for list_sp_plan_buckets()), return a data frame of object properties with with a list column named "ms_plan_bucket" containing ms_plan_task objects. If FALSE, return a ms_plan_bucket object or list of ms_plan_bucket objects. call The execution environment of a currently running function, e.g. caller_env(). The function will be mentioned in error messages as the source of the error. See the call argument of abort() for more information.

Value

For list_sp_plan_buckets(), a list of ms_plan_bucket class objects or a data frame with a list column named "ms_plan_task".

See Also

Microsoft365R::ms_plan_task

sp_site

Get a SharePoint site or set a default SharePoint site

Description

get_sp_site() is a wrapper for Microsoft365R::get_sharepoint_site() and returns a ms_site
object. cache_sp_site() allows you to cache a default SharePoint site for use by other functions.

```
get_sp_site(
    site_url = NULL,
    site_name = NULL,
    site_id = NULL,
    ...,
    cache = FALSE,
    refresh = TRUE,
    overwrite = FALSE,
```

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```
cache_file = getOption("sharepointr.cache_file_site", "sp_site.rds"),
  call = caller_env()
)
cache_sp_site(
  site = NULL,
  cache_file = getOption("sharepointr.cache_file_site", "sp_site.rds"),
  cache_dir = "sharepointr.cache_dir",
 overwrite = FALSE,
  call = caller_env()
)
```

Arguments

site_url

A SharePoint site URL in the format "https://[tenant name].sharepoint.com/sites/[site name]". Any SharePoint item or document URL can also be parsed to build a site URL using the tenant and site name included in the URL.

site_name, site_id

Site name or ID of the SharePoint site as an alternative to the SharePoint site URL. Exactly one of site_url, site_name, and site_id must be supplied.

Arguments passed on to Microsoft365R::get_sharepoint_site

app A custom app registration ID to use for authentication. See below.

scopes The Microsoft Graph scopes (permissions) to obtain. It should never be necessary to change these.

token An AAD OAuth token object, of class AzureAuth:: AzureToken. If supplied, the tenant, app, scopes and ... arguments will be ignored. See "Authenticating with a token" below.

tenant For get_business_onedrive, get_sharepoint_site and get_team, the name of your Azure Active Directory (AAD) tenant. If not supplied, use the value of the CLIMICROSOFT365_TENANT environment variable, or "common" if that is unset.

cache If TRUE, cache site to a file using cache_sp_site().

refresh If TRUE, get a new site even if the existing site is cached as a local option. If

FALSE, use the cached ms_site object.

If TRUE, replace the existing cached object named by cache_file with the new overwrite object. If FALSE, error if a cached file with the same cache_file name already

exists.

cache_file File name for cached file if cache = TRUE. Defaults to "sp_site.rds" or option

set with sharepointr.cache_file_site.

call The execution environment of a currently running function, e.g. caller_env().

The function will be mentioned in error messages as the source of the error. See

the call argument of abort() for more information.

site A ms_site object. If site is supplied, site_url, site_name, and site_id are

ignored.

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cache_dir

Cache directory. By default, uses an environmental variable named "share-pointr.cache_dir". If "sharepointr.cache_dir" is not set, the cache directory is set to rappdirs::user_cache_dir("sharepointr").

See Also

Microsoft365R::ms_site

sp_tasks

Get a SharePoint task or list tasks from a planner

Description

get_sp_task() gets an individual planner task using the get_task method. list_sp_tasks()
lists the tasks for a specified plan using the list_tasks method.

Usage

```
get_sp_task(
  task_title = NULL,
  task_id = NULL,
  plan_title = NULL,
  plan_id = NULL,
  plan = NULL,
  as_data_frame = FALSE,
  call = caller_env()
list_sp_tasks(
  plan_title = NULL,
 plan_id = NULL,
  filter = NULL,
  n = NULL,
  plan = NULL,
  as_data_frame = TRUE,
  call = caller_env()
)
```

Arguments

```
task_title, task_id
```

Planner task title and id. Exactly one of task_title and task_id must be supplied.

... Additional arguments passed to get_sp_group().

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plan_title, plan_id

Planner title or ID. Exactly one of the two arguments must be supplied.

plan A ms_plan object. If plan is supplied, plan_title, plan_id, and any addi-

tional parameters passed to ... are ignored.

as_data_frame If TRUE (default for list_sp_tasks()), return a data frame of object properties

with with a list column named "ms_plan_task" containing ms_plan_task objects. If FALSE (default get_sp_task()), return a ms_plan_task object or list

of ms_plan_task objects.

call The execution environment of a currently running function, e.g. caller_env().

The function will be mentioned in error messages as the source of the error. See

the call argument of abort() for more information.

filter A string with an OData expression apply as a filter to the results. Learn more in

the Microsoft Graph API documentation on using filter query parameters.

n Maximum number of lists, plans, tasks, or other items to return. Defaults to

NULL which sets n to Inf.

Value

For list_sp_tasks(), a list of ms_plan_task class objects or a data frame with a list column named "ms_plan_task".

See Also

Microsoft365R::ms_plan_task

upload_sp_item

Upload a file or folder to a SharePoint Drive

Description

upload_sp_item() wraps the upload_folder and upload_file method for ms_drive objects.

```
upload_sp_item(
  file = NULL,
  dest,
    ...,
  src = NULL,
  overwrite = FALSE,
  drive_name = NULL,
  drive_id = NULL,
  drive = NULL,
  blocksize = 327680000,
  recursive = FALSE,
  parallel = FALSE,
```

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```
call = caller_env()
)
upload_sp_items(file = NULL, dest, ..., src = NULL, call = caller_env())
```

Arguments

file Path for file or directory to upload. Optional if src is supplied.

dest Destination on SharePoint for file to upload. SharePoint folder URLs are sup-

ported.

... Additional parameters passed to get_sp_site() or Microsoft365R::get_sharepoint_site().

src Data source path passed to upload_folder or upload_file method. Defaults

to NULL and set to use file value by default.

overwrite If FALSE (default), error if an item with the name specified in file or src already

exists at the specified destination. If TRUE, overwrite any existing items with the

same name. The latter is the default for the upload_file method.

drive_name, drive_id

SharePoint drive name or ID.

drive A ms_drive object. If drive is supplied, drive_name, site_url, and any addi-

tional parameters passed to . . . are ignored.

blocksize, recursive, parallel

Additional parameters passed to upload_folder or upload_file method for

ms_drive objects.

call The execution environment of a currently running function, e.g. caller_env().

The function will be mentioned in error messages as the source of the error. See

the call argument of abort() for more information.

write_sharepoint

Write an object to file and upload file to SharePoint

Description

write_sharepoint() uses upload_sp_item() to upload an object created using:

- sf::write_sf() if x is an sf object
- readr::write_csv() if x is a data.frame and file does not include a xlsx extension
- openxlsx2::write_xlsx() if x is a data.frame file does include a xlsx extension
- The print() method from {officer} if x is a rdocx, rpptx, or rxlsx object
- readr::write_rds() if x is any other class

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Usage

```
write_sharepoint(
  х,
  file,
  dest,
  .f = NULL,
  new_path = tempdir(),
  overwrite = FALSE,
  drive_name = NULL,
  drive_id = NULL,
  drive = NULL,
  site_url = NULL,
  site_name = NULL,
  site_id = NULL,
  site = NULL,
 blocksize = 327680000,
  call = caller_env()
)
```

Arguments

х	Object to write to file and upload to SharePoint. sf, rdocx, rpptx, rxlsx, and data.frame objects are saved with the functions noted in the description. All other object types are saved as rds outputs.
file	File to write to. Passed to file parameter for readr::write_csv() or readr::write_rds(), dsn for sf::write_sf(), or target for print() (when working with {officer} class objects).
dest	Destination on SharePoint for file to upload. SharePoint folder URLs are supported.
	Additional parameters passed to write function.
.f	Optional function to write the input data to disk before uploading file to Share-Point.
new_path	Path to write file to. Defaults to tempdir()
overwrite	If FALSE (default), error if an item with the name specified in file or src already exists at the specified destination. If TRUE, overwrite any existing items with the same name. The latter is the default for the upload_file method.
drive_name, drive_id	
	SharePoint drive name or ID.
drive	A ms_drive object. If drive is supplied, drive_name, site_url, and any additional parameters passed to are ignored.
site_url	A SharePoint site URL in the format "https://[tenant name].sharepoint.com/sites/[site

name]". Any SharePoint item or document URL can also be parsed to build a

site URL using the tenant and site name included in the URL.

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site_name, site_id

Site name or ID of the SharePoint site as an alternative to the SharePoint site URL. Exactly one of site_url, site_name, and site_id must be supplied.

A ms_site object. If site is supplied, site_url, site_name, and site_id are

ignored.

blocksize Additional parameter passed to upload_folder or upload_file method for

ms_drive objects.

call The execution environment of a currently running function, e.g. caller_env().

The function will be mentioned in error messages as the source of the error. See

the call argument of abort() for more information.

Value

site

Invisibly returns the input object x.

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