Package: getCRUCLdata (via r-universe)

December 18, 2024

Type Package

Title 'CRU' 'CL' v. 2.0 Climatology Client

Version 1.0.2

Description Provides functions that automate downloading and importing
University of East Anglia Climate Research Unit ('CRU') 'CL' v.
2.0 climatology data, facilitates the calculation of minimum
temperature and maximum temperature and formats the data into a
data.table object or a list of 'terra' 'rast' objects for use.
'CRU' 'CL' v. 2.0 data are a gridded climatology of 1961-1990
monthly means released in 2002 and cover all land areas
(excluding Antarctica) at 10 arc minutes (0.1666667 degree)
resolution. For more information see the description of the
data provided by the University of East Anglia Climate Research
Unit, <https://crudata.uea.ac.uk/cru/data/hrg/tmc/readme.txt>.

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URL https://github.com/ropensci/getCRUCLdata,
https://docs.ropensci.org/getCRUCLdata/

BugReports https://github.com/ropensci/getCRUCLdata/issues

Depends R (>= 4.0.0)

Imports cli, curl, data.table, hoardr, rlang, terra, utils

Suggests ggplot2, knitr, rappdirs, rmarkdown, roxygen2, roxyglobals,
spelling, testthat, viridis, withr

VignetteBuilder knitr

ByteCompile TRUE

Config/roxyglobals/filename globals.R

Config/roxyglobals/unique FALSE

Config/roxylint list(linters = roxylint::tidy)

Config/testthat/edition 3

Config/testthat/parallel true

Encoding UTF-8

Language en-US

Roxygen list(markdown = TRUE, roclets = c(``collate'', ``namespace'',
``rd'', ``roxyglobals::global_roclet'', ``roxylint::roxylint''))

RoxygenNote 7.3.2

X-schema.org-applicationCategory Tools

X-schema.org-isPartOf https://ropensci.org

X-schema.org-keywords anglia-cru, climate-data, cru-cl2, temperature,
rainfall, elevation, data-access, wind, relative-humidity,
solar-radiation, diurnal-temperature, frost

Config/pak/sysreqs libgdal-dev gdal-bin libgeos-dev libssl-dev
libproj-dev libsqlite3-dev

Repository https://ropensci.r-universe.dev

RemoteUrl https://github.com/ropensci/getCRUCLdata

RemoteRef main

RemoteSha 5a5d2216224a147fb3692d4984fb5cb4bbc63b55

Contents

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create_CRU_df	*Create a data.table of CRU CL v. 2.0 climatology elements from local disk files*

Description

Automates importing CRU CL v.2.0 climatology data and creates a **data.table** of the data. If requested, minimum and maximum temperature may also be automatically calculated as described in the data readme.txt file. Data may be cached for later use by this function, saving time downloading files in future using this function. This function can be useful if you have network connection issues that mean automated downloading of the files using R does not work properly.

Usage

```
create_CRU_df(
  pre = FALSE,
  pre_cv = FALSE,
  rd0 = FALSE,
  tmp = FALSE,
  dtr = FALSE,
  reh = FALSE,
  tmn = FALSE,
  tmx = FALSE,
  sunp = FALSE,
  frs = FALSE,
  wnd = FALSE,
  elv = FALSE,
  dsn
)

create_cru_df(
  pre = FALSE,
  pre_cv = FALSE,
  rd0 = FALSE,
  tmp = FALSE,
  dtr = FALSE,
  reh = FALSE,
  tmn = FALSE,
  tmx = FALSE,
  sunp = FALSE,
  frs = FALSE,
  wnd = FALSE,
  elv = FALSE,
  dsn
)
```

Arguments

pre	Loads precipitation (millimetres/month) from server and returns in the data frame, TRUE. Defaults to FALSE.
pre_cv	Loads cv of precipitation (percent) from server and returns in the data frame, TRUE. Defaults to FALSE. NOTE. Setting this to TRUE will always results in **pre** being set to TRUE and returned as well.
rd0	Loads wet-days (number days with >0.1 millimetres rain per month) and returns in the data frame, TRUE. Defaults to FALSE.
tmp	Loads temperature (degrees Celsius) and returns it in the data frame, TRUE. Defaults to FALSE.
dtr	Loads mean diurnal temperature range (degrees Celsius) and returns it in the data frame, TRUE. Defaults to FALSE.
reh	Loads relative humidity and returns it in the data frame, TRUE. Defaults to FALSE.

tmn	Calculate minimum temperature values (degrees Celsius) and returns it in the data frame, TRUE. Defaults to FALSE.
tmx	Calculate maximum temperature (degrees Celsius) and return it in the data frame, TRUE. Defaults to FALSE.
sunp	Loads sunshine, percent of maximum possible (percent of day length) and returns it in the data frame, TRUE. Defaults to FALSE.
frs	Loads ground-frost records (number of days with ground- frost per month) and returns it in the data frame, TRUE. Defaults to FALSE.
wnd	Load 10 m wind speed (metres/second) and returns it in the data frame, TRUE. Defaults to FALSE.
elv	Loads elevation (converted to metres) and returns it in the data frame, TRUE. Defaults to FALSE.
dsn	Local file path where CRU CL v.2.0 .dat.gz files are located.

Value

A data.table::data.table object of CRU CL v. 2.0 climatology elements.

Nomenclature and Units

pre precipitation (millimetres/month)

   cv cv of precipitation (percent)

rd0 wet-days (number days with >0.1 millimetres rain per month)

tmp mean temperature (degrees Celsius)

dtr mean diurnal temperature range (degrees Celsius)

reh relative humidity (percent)

sunp sunshine (percent of maximum possible (percent of day length))

frs ground-frost (number of days with ground-frost per month)

wnd 10 metre windspeed (metres/second)

elv elevation (automatically converted to metres)

For more information see the description of the data provided by CRU, `https://crudata.uea.ac.uk/cru/data/hrg/tmc/readme.txt`

Author(s)

Adam H. Sparks, <adamhsparks@gmail.com>

Source

pre `https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_pre.dat.gz`

rd0 `https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_rd0.dat.gz`

tmp `https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_tmp.dat.gz`

dtr `https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_dtr.dat.gz`

reh https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_reh.dat.gz

sunp https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_sunp.dat.gz

frs https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_frs.dat.gz

wnd https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_wnd.dat.gz, areas originally including Antarctica are removed.

elv https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_elv.dat.gz, values are converted from kilometres to metres.

This package crops all spatial outputs to an extent of ymin = -60, ymax = 85, xmin = -180, xmax = 180.

References

New, Mark, et al. "A high-resolution data set of surface climate over global land areas." Climate research 21.1 (2002): 1-25. https://crudata.uea.ac.uk/cru/data/hrg/tmc/new_et_al_10minute_climate_CR.pdf

See Also

get_CRU_df.

Examples

```
# Create a data frame of temperature from locally available files in the
# tempdir() directory.

download.file(
  url = "https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_tmp.dat.gz",
  destfile = file.path(tempdir(), "grid_10min_tmp.dat.gz")
)

CRU_tmp <- create_CRU_df(tmp = TRUE, dsn = tempdir())

CRU_tmp
```

---

create_CRU_stack | *Create a list of terra rast objects of CRU CL v. 2.0 climatology elements from local disk files*

Description

Automates importing CRU CL v.2.0 climatology data and creates a **terra** terra::rast object of the data. If requested, minimum and maximum temperature may also be automatically calculated as described in the data readme.txt file. Data may be cached for later use by this function, saving time downloading files in future using this function. This function can be useful if you have network connection issues that mean automated downloading of the files using R does not work properly.

Usage

```
create_CRU_stack(
  pre = FALSE,
  pre_cv = FALSE,
  rd0 = FALSE,
  tmp = FALSE,
  dtr = FALSE,
  reh = FALSE,
  tmn = FALSE,
  tmx = FALSE,
  sunp = FALSE,
  frs = FALSE,
  wnd = FALSE,
  elv = FALSE,
  dsn
)

create_cru_stack(
  pre = FALSE,
  pre_cv = FALSE,
  rd0 = FALSE,
  tmp = FALSE,
  dtr = FALSE,
  reh = FALSE,
  tmn = FALSE,
  tmx = FALSE,
  sunp = FALSE,
  frs = FALSE,
  wnd = FALSE,
  elv = FALSE,
  dsn
)
```

Arguments

pre	Loads precipitation (millimetres/month) from server and returns in the data frame, TRUE. Defaults to FALSE.
pre_cv	Loads cv of precipitation (percent) from server and returns in the data frame, TRUE. Defaults to FALSE. NOTE. Setting this to TRUE will always results in **pre** being set to TRUE and returned as well.
rd0	Loads wet-days (number days with >0.1 millimetres rain per month) and returns in the data frame, TRUE. Defaults to FALSE.
tmp	Loads temperature (degrees Celsius) and returns it in the data frame, TRUE. Defaults to FALSE.
dtr	Loads mean diurnal temperature range (degrees Celsius) and returns it in the data frame, TRUE. Defaults to FALSE.
reh	Loads relative humidity and returns it in the data frame, TRUE. Defaults to FALSE.

tmn	Calculate minimum temperature values (degrees Celsius) and returns it in the data frame, TRUE. Defaults to FALSE.
tmx	Calculate maximum temperature (degrees Celsius) and return it in the data frame, TRUE. Defaults to FALSE.
sunp	Loads sunshine, percent of maximum possible (percent of day length) and returns it in the data frame, TRUE. Defaults to FALSE.
frs	Loads ground-frost records (number of days with ground- frost per month) and returns it in the data frame, TRUE. Defaults to FALSE.
wnd	Load 10 m wind speed (metres/second) and returns it in the data frame, TRUE. Defaults to FALSE.
elv	Loads elevation (converted to metres) and returns it in the data frame, TRUE. Defaults to FALSE.
dsn	Local file path where CRU CL v.2.0 .dat.gz files are located.

Value

A base::list of terra::rast objects of CRU CL v. 2.0 climatology elements.

Nomenclature and Units

pre precipitation (millimetres/month)

    cv cv of precipitation (percent)

rd0 wet-days (number days with >0.1 millimetres rain per month)

tmp mean temperature (degrees Celsius)

dtr mean diurnal temperature range (degrees Celsius)

reh relative humidity (percent)

sunp sunshine (percent of maximum possible (percent of day length))

frs ground-frost (number of days with ground-frost per month)

wnd 10 metre windspeed (metres/second)

elv elevation (automatically converted to metres)

For more information see the description of the data provided by CRU, `https://crudata.uea.ac.uk/cru/data/hrg/tmc/readme.txt`

Author(s)

Adam H. Sparks, <adamhsparks@gmail.com>

Source

pre `https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_pre.dat.gz`

rd0 `https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_rd0.dat.gz`

tmp `https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_tmp.dat.gz`

dtr `https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_dtr.dat.gz`

reh https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_reh.dat.gz

sunp https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_sunp.dat.gz

frs https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_frs.dat.gz

wnd https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_wnd.dat.gz, areas origi-
nally including Antarctica are removed.

elv https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_elv.dat.gz, values are con-
verted from kilometres to metres.

This package crops all spatial outputs to an extent of ymin = -60, ymax = 85, xmin = -180, xmax =
180.

References

New, Mark, et al. "A high-resolution data set of surface climate over global land areas." Cli-
mate research 21.1 (2002): 1-25. https://crudata.uea.ac.uk/cru/data/hrg/tmc/new_et_
al_10minute_climate_CR.pdf

See Also

get_CRU_stack.

Examples

```
download.file(
  url = "https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_tmp.dat.gz",
  destfile = file.path(tempdir(), "grid_10min_tmp.dat.gz")
)

CRU_tmp <- create_CRU_stack(tmp = TRUE, dsn = tempdir())

CRU_tmp
```

---

get_CRU_df   *Download and create a data.table of CRU CL v. 2.0 climatology ele-*
ments

Description

This function automates downloading and importing CRU CL v. 2.0 climatology data and creates a
data.table of the data. If requested, minimum and maximum temperature may also be automatically
calculated as described in the data readme.txt file. Data may be cached for later use by this function,
saving time downloading files in future use of this function.

Usage

```
get_CRU_df(
  pre = FALSE,
  pre_cv = FALSE,
  rd0 = FALSE,
  tmp = FALSE,
  dtr = FALSE,
  reh = FALSE,
  tmn = FALSE,
  tmx = FALSE,
  sunp = FALSE,
  frs = FALSE,
  wnd = FALSE,
  elv = FALSE,
  cache = FALSE
)

get_cru_df(
  pre = FALSE,
  pre_cv = FALSE,
  rd0 = FALSE,
  tmp = FALSE,
  dtr = FALSE,
  reh = FALSE,
  tmn = FALSE,
  tmx = FALSE,
  sunp = FALSE,
  frs = FALSE,
  wnd = FALSE,
  elv = FALSE,
  cache = FALSE
)
```

Arguments

`pre`	Fetches precipitation (millimetres/month) from server and returns it in the data frame, `TRUE`. Defaults to `FALSE`.
`pre_cv`	Fetch cv of precipitation (percent) from server and returns it in the data frame, `TRUE`. Defaults to `FALSE`. NOTE Setting this to `TRUE` will always results in **pre** being set to `TRUE` and returned as well.
`rd0`	Fetches wet-days (number days with >0.1 millimetres rain per month) and returns it in the data frame? Defaults to `FALSE`.
`tmp`	Fetches temperature (degrees Celsius) and returns it in the data frame, `TRUE`. Defaults to `FALSE`.
`dtr`	Fetches mean diurnal temperature range (degrees Celsius) and returns it in the data frame? Defaults to `FALSE`.

reh	Fetches relative humidity and returns it in the data frame, TRUE. Defaults to FALSE.
tmn	Calculates minimum temperature values (degrees Celsius) and returns it in the data frame, TRUE. Defaults to FALSE.
tmx	Calculates maximum temperature (degrees Celsius) and returns it in the data frame, TRUE. Defaults to FALSE.
sunp	Fetch sunshine, percent of maximum possible (percent of day length) and return it in the data frame? Defaults to FALSE.
frs	Fetches ground-frost records (number of days with ground- frost per month) and return it in the data frame? Defaults to FALSE.
wnd	Fetches 10m wind speed (metres/second) and returns it in the data frame, TRUE. Defaults to FALSE.
elv	Fetches elevation (converted to metres) and returns it in the data frame, TRUE. Defaults to FALSE.
cache	Stores CRU CL v. 2.0 data files locally for later use. If FALSE, the downloaded files are removed when the R session is closed. To take advantage of cached files in future sessions, use cache = TRUE even after the initial download and caching. Defaults to FALSE.

Value

A [data.table::data.table](#) object of CRU CL v. 2.0 climatology elements.

Nomenclature and Units

pre precipitation (millimetres/month)

    cv cv of precipitation (percent)

rd0 wet-days (number days with >0.1 millimetres rain per month)

tmp mean temperature (degrees Celsius)

dtr mean diurnal temperature range (degrees Celsius)

reh relative humidity (percent)

sunp sunshine (percent of maximum possible (percent of day length))

frs ground-frost (number of days with ground-frost per month)

wnd 10 metre windspeed (metres/second)

elv elevation (automatically converted to metres)

For more information see the description of the data provided by CRU, `https://crudata.uea.ac.uk/cru/data/hrg/tmc/readme.txt`

Author(s)

Adam H. Sparks, <adamhsparks@gmail.com>

Source

pre https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_pre.dat.gz

rd0 https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_rd0.dat.gz

tmp https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_tmp.dat.gz

dtr https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_dtr.dat.gz

reh https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_reh.dat.gz

sunp https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_sunp.dat.gz

frs https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_frs.dat.gz

wnd https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_wnd.dat.gz, areas originally including Antarctica are removed.

elv https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_elv.dat.gz, values are converted from kilometres to metres.

This package crops all spatial outputs to an extent of ymin = -60, ymax = 85, xmin = -180, xmax = 180.

References

New, Mark, et al. "A high-resolution data set of surface climate over global land areas." Climate research 21.1 (2002): 1-25. https://crudata.uea.ac.uk/cru/data/hrg/tmc/new_et_al_10minute_climate_CR.pdf

See Also

create_CRU_stack, manage_cache.

Examples

```
# Download data and create a data frame of precipitation and temperature
# without caching the data files
CRU_pre_tmp <- get_CRU_df(pre = TRUE, tmp = TRUE)

head(CRU_pre_tmp)
CRU_pre_tmp
```

---

get_CRU_stack   *Download and create a list of terra rast objects of CRU CL v. 2.0*
                         climatology elements

Description

This function automates downloading and importing CRU CL v. 2.0 climatology data into R and creates a list of **terra** terra::rast objects of the data. If requested, minimum and maximum temperature may also be automatically calculated as described in the data readme.txt file. Data may be cached for later use by this function, saving time downloading files in future using this function.

Usage

```
get_CRU_stack(
  pre = FALSE,
  pre_cv = FALSE,
  rd0 = FALSE,
  tmp = FALSE,
  dtr = FALSE,
  reh = FALSE,
  tmn = FALSE,
  tmx = FALSE,
  sunp = FALSE,
  frs = FALSE,
  wnd = FALSE,
  elv = FALSE,
  cache = FALSE
)

get_cru_stack(
  pre = FALSE,
  pre_cv = FALSE,
  rd0 = FALSE,
  tmp = FALSE,
  dtr = FALSE,
  reh = FALSE,
  tmn = FALSE,
  tmx = FALSE,
  sunp = FALSE,
  frs = FALSE,
  wnd = FALSE,
  elv = FALSE,
  cache = FALSE
)
```

Arguments

pre	Fetches precipitation (millimetres/month) from server and returns it in the data frame, TRUE. Defaults to FALSE.
pre_cv	Fetch cv of precipitation (percent) from server and returns it in the data frame, TRUE. Defaults to FALSE. NOTE Setting this to TRUE will always results in **pre** being set to TRUE and returned as well.
rd0	Fetches wet-days (number days with >0.1 millimetres rain per month) and returns it in the data frame? Defaults to FALSE.
tmp	Fetches temperature (degrees Celsius) and returns it in the data frame, TRUE. Defaults to FALSE.
dtr	Fetches mean diurnal temperature range (degrees Celsius) and returns it in the data frame? Defaults to FALSE.

reh	Fetches relative humidity and returns it in the data frame, `TRUE`. Defaults to `FALSE`.
tmn	Calculates minimum temperature values (degrees Celsius) and returns it in the data frame, `TRUE`. Defaults to `FALSE`.
tmx	Calculates maximum temperature (degrees Celsius) and returns it in the data frame, `TRUE`. Defaults to `FALSE`.
sunp	Fetch sunshine, percent of maximum possible (percent of day length) and return it in the data frame? Defaults to `FALSE`.
frs	Fetches ground-frost records (number of days with ground- frost per month) and return it in the data frame? Defaults to `FALSE`.
wnd	Fetches 10m wind speed (metres/second) and returns it in the data frame, `TRUE`. Defaults to `FALSE`.
elv	Fetches elevation (converted to metres) and returns it in the data frame, `TRUE`. Defaults to `FALSE`.
cache	Stores CRU CL v. 2.0 data files locally for later use. If `FALSE`, the downloaded files are removed when the R session is closed. To take advantage of cached files in future sessions, use `cache = TRUE` even after the initial download and caching. Defaults to `FALSE`.

Value

A base::list of terra::rast objects of CRU CL v. 2.0 climatology elements.

Nomenclature and Units

pre precipitation (millimetres/month)

    cv cv of precipitation (percent)

rd0 wet-days (number days with >0.1 millimetres rain per month)

tmp mean temperature (degrees Celsius)

dtr mean diurnal temperature range (degrees Celsius)

reh relative humidity (percent)

sunp sunshine (percent of maximum possible (percent of day length))

frs ground-frost (number of days with ground-frost per month)

wnd 10 metre windspeed (metres/second)

elv elevation (automatically converted to metres)

For more information see the description of the data provided by CRU, `https://crudata.uea.ac.uk/cru/data/hrg/tmc/readme.txt`

Author(s)

Adam H. Sparks, <adamhsparks@gmail.com>

Source

pre https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_pre.dat.gz

rd0 https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_rd0.dat.gz

tmp https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_tmp.dat.gz

dtr https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_dtr.dat.gz

reh https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_reh.dat.gz

sunp https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_sunp.dat.gz

frs https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_frs.dat.gz

wnd https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_wnd.dat.gz, areas originally including Antarctica are removed.

elv https://crudata.uea.ac.uk/cru/data/hrg/tmc/grid_10min_elv.dat.gz, values are converted from kilometres to metres.

This package crops all spatial outputs to an extent of ymin = -60, ymax = 85, xmin = -180, xmax = 180.

References

New, Mark, et al. "A high-resolution data set of surface climate over global land areas." Climate research 21.1 (2002): 1-25. https://crudata.uea.ac.uk/cru/data/hrg/tmc/new_et_al_10minute_climate_CR.pdf

See Also

create_CRU_stack, manage_cache.

Examples

```
# Download data and create a list of {terra} `rast` objects of precipitation
# and temperature without caching the data files
CRU_pre_tmp <- get_CRU_stack(pre = TRUE, tmp = TRUE)

CRU_pre_tmp
```

---

manage_cache   *Manage locally cached CRU CL v. 2.0 files*

Description

Manage cached **getCRUCLdata** files with **hoardr**.

Details

The default cache directory is `tools::R_user_dir(package = "getCRUCLdata")`, but you can set your own path using `manage_cache$cache_path_set()`.

`manage_cache$cache_delete` only accepts one file name, while `manage_cache$cache_delete_all` does not accept any names, but deletes all files. For deleting many specific files, use `manage_cache$cache_delete` in an base::lapply type call.

Useful user functions

`manage_cache$cache_path_get()` get cache path

`manage_cache$cache_path_set()` set cache path

`manage_cache$list()` returns a character vector of full path file names

`manage_cache$files()` returns file objects with metadata

`manage_cache$details()` returns files with details

`manage_cache$delete()` delete specific files

`manage_cache$delete_all()` delete all files, returns nothing

Author(s)

Adam H. Sparks, <adamhsparks@gmail.com>

Examples

```
## Not run:

# list files in cache
manage_cache$list()

# delete certain database files
manage_cache$delete("file path")
manage_cache$list()

# delete all files in cache
manage_cache$delete_all()
manage_cache$list()

# set a different cache path from the default
manage_cache$cache_path_set("~/tmp")

## End(Not run)
```

Index