

Package ‘tidyrgee’

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Title 'tidyverse' Methods for 'Earth Engine'

Version 0.1.0

Description Provides 'tidyverse' methods for wrangling and analyzing 'Earth Engine' <<https://earthengine.google.com/>> data. These methods help the user with filtering, joining and summarising 'Earth Engine' image collections.

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URL <https://github.com/r-tidy-remote-sensing/tidyrgee>

BugReports <https://github.com/r-tidy-remote-sensing/tidyrgee/issues/>

Depends R (>= 4.1)

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add_date_to_bandname *add_date_to_band_name*

Description

append date to band name

Usage

add_date_to_bandname(x)

Arguments

x ee\$ImageCollection or ee\$Image

Value

a date to band name in x.

| | |
|-------|---|
| as_ee | <i>as_ee tidyee to ee\$ImageCollection or ee\$Image</i> |
|-------|---|

Description

as_ee tidyee to ee\$ImageCollection or ee\$Image

Usage

```
as_ee(x)
```

Arguments

x tidyee

Value

ee\$ImageCollection or ee\$Image

Examples

```
## Not run:
library(rgee)
librar(tidyee)

modis_ic <- ee$ImageCollection("MODIS/006/MOD13Q1")

# create tidyee class
modis_ic_tidy <- as_tidyee(modis_ic)
# convert back to origina ee$ImageCollection class
modis_ic_tidy |>
  as_ee()

## End(Not run)
```

| | |
|-----------|-------------------|
| as_tidyee | <i>as_tidy_ee</i> |
|-----------|-------------------|

Description

The function returns a list containing the original object (Image/ImageCollection) as well as a "virtual data.frame (vrt)" which is a data.frame holding key properties of the ee\$Image/ee\$ImageCollection. The returned list has been assigned a new class "tidyee".

Usage

```
as_tidyee(x, time_end = FALSE)
```

Arguments

`x` ee\$Image or ee\$ImageCollection
`time_end` logical include time_end ("system:time_end") in vrt (default=F)

Value

tidyee class object which contains a list with two components ("x","vrt")

Examples

```
## Not run:
library(tidyrggee)
library(rgee)
ee_initialize()
modis_ic <- ee$ImageCollection("MODIS/006/MOD13Q1")
modis_ic_tidy <- as_tidyee(modis_ic)

## End(Not run)
```

 bgd_msna

A subset of question responses from the 2019 Host Community MSNA in Bangladesh

Description

Data frame of responses with anonymized coordinates

Usage

```
bgd_msna
```

Format

A data frame with 1374 rows and 15 variables:

_uuid unique identifier

informed_consent informed consent

survey_date date of survey

end_survey date of end of survey

electricity_grid question about electricity grid

solar_light question about solar light

illness_HH_count repeat group calculation on # hh members with illness in past x days

cooking_fuel/collected_firewood select multiple response - did HH collect firewood for cooking fuel

income_source/agricultural_production_sale income source question - ariculture
agricultural_land question on agricultural land
employment_source/agricultural_casual employment source - ag
employment_source/non_agricultural_casual employment source - non-ag
employment_source/fishing employment source - fishing
_gps_reading_longitude longitude - jittered/anonymized
_gps_reading_latitude latitude - jittered/anonymized ...

Value

data frame

| | |
|----------|------------------------------|
| bind_ics | <i>bind ImageCollections</i> |
|----------|------------------------------|

Description

bind ImageCollections

Usage

```
bind_ics(x)
```

Arguments

x list of tidyee objects

Value

tidyee object containing single image collection and vrt

Examples

```

## Not run:
library(tidyrg)
library(rgee)
ee_initialize()
modis_ic <- ee$ImageCollection("MODIS/006/MOD13Q1")
modis_ic_tidy <- as_tidyee(modis_ic)
modis_tidy_list <- modis_tidy |>
  group_split(month)
modis_tidy_list |>
  bind_ics()

## End(Not run)

```

| | |
|------|--|
| clip | <i>clip flexible wrapper for rgee::ee\$Image\$clip()</i> |
|------|--|

Description

allows clipping of tidyee, ee\$Imagecollection, or ee\$Image classes. Also allows objects to be clipped to sf object in addition to ee\$FeatureCollections/ee\$Feature

Usage

```
clip(x, y, return_tidyee = TRUE)
```

Arguments

| | |
|---------------|---|
| x | object to be clipped (tidyee, ee\$ImageCollection, ee\$Image) |
| y | geometry object to clip to (sf, ee\$Feature, ee\$FeatureCollections) |
| return_tidyee | logical return tidyee class (default = TRUE) object or ee\$ImageCollection. Faster performance if F |

Value

x as tidyee or ee\$Image/ee\$ImageCollection depending on return_tidyee argument.

Examples

```
## Not run:
library(tidyrgree)
library(tidyverse)
library(rgee)
rgee::ee_initialize()

# create geometry and convert to sf
coord_tibble <- tibble::tribble(
  ~X,          ~Y,
  92.2303683692011, 20.9126490153521,
  92.2311567217866, 20.9127410439304,
  92.2287527311594, 20.9124072954926,
  92.2289221219251, 20.9197352745068,
  92.238724724534, 20.9081803233546
)
sf_ob <- sf::st_as_sf(coord_tibble, coords=c("X", "Y"), crs=4326)

roi <- ee$Geometry$Polygon(list(
  c(-114.275, 45.891),
  c(-108.275, 45.868),
  c(-108.240, 48.868),
  c(-114.240, 48.891)
))
```

```
# load landsat
ls = ee$ImageCollection("LANDSAT/LC08/C01/T1_SR")

# create tidyee class
ls_tidy <- as_tidyee(ls)

# filter_bounds on sf object
# return tidyee object
ls_tidy |>
  filter_bounds(y = roi,return_tidyee = FALSE) |>
  clip(roi,return_tidyee = FALSE)

# pretty instant with return_tidyee=FALSE
ls_clipped_roi_ic <- ls_tidy |>
  filter_bounds(y = roi,return_tidyee = FALSE) |>
  clip(roi,return_tidyee = FALSE)

# takes more time with return_tidyee=T, but you get the vrt
ls_clipped__roi_tidyee <- ls_tidy |>
  filter_bounds(y = roi,return_tidyee = FALSE) |>
  clip(roi,return_tidyee = TRUE)

# demonstrating on sf object
ls_clipped_sf_ob_ic <- ls_tidy |>
  filter_bounds(y = sf_ob,return_tidyee = FALSE) |>
  clip(roi,return_tidyee = FALSE)

ls_clipped_sf_ob_tidyee <- ls_tidy |>
  filter_bounds(y = roi,return_tidyee = FALSE) |>
  clip(roi,return_tidyee = TRUE)

## End(Not run)
```

create_tidyee

create_tidyee

Description

helper function to assign new tidyee when running as_tidyee

Usage

```
create_tidyee(x, vrt)
```

Arguments

| | |
|-----|---------------------|
| x | ee\$ImageCollection |
| vrt | virtual table |

Value

tidyee class list object

| | |
|--------------|---------------------|
| ee_composite | <i>ee_composite</i> |
|--------------|---------------------|

Description

ee_composite

Usage

```
ee_composite(x, ...)

## S3 method for class 'tidyee'
ee_composite(x, stat, ...)
```

Arguments

| | |
|------|--|
| x | tidyee object containing ee\$ImageCollection |
| ... | other arguments |
| stat | A character indicating what to reduce the ImageCollection by, e.g. 'median' (default), 'mean', 'max', 'min', 'sum', 'sd', 'first'. |

Value

tidyee class containing ee\$Image where all images within ee\$ImageCollection have been aggregated based on pixel-level stats

| | |
|-----------------|------------------------|
| ee_extract_tidy | <i>ee_extract_tidy</i> |
|-----------------|------------------------|

Description

ee_extract_tidy

Usage

```
ee_extract_tidy(
  x,
  y,
  stat = "mean",
  scale,
  via = "getInfo",
  container = "rgee_backup",
  sf = TRUE,
  lazy = FALSE,
  quiet = FALSE,
  ...
)
```

Arguments

| | |
|-----------|--|
| x | tidyee, ee\$Image, or ee\$ImageCollection |
| y | sf or ee\$feature or ee\$FeatureCollection |
| stat | zonal stat ("mean", "median", "min", "max" etc) |
| scale | A nominal scale in meters of the Image projection to work in. By default 1000. |
| via | Character. Method to export the image. Three method are implemented: "getInfo", "drive", "gcs". |
| container | Character. Name of the folder ('drive') or bucket ('gcs') to be exported into (ignore if via is not defined as "drive" or "gcs"). |
| sf | Logical. Should return an sf object? |
| lazy | Logical. If TRUE, a future::sequential object is created to evaluate the task in the future. Ignore if via is set as "getInfo". See details. |
| quiet | Logical. Suppress info message. |
| ... | additional parameters |

Value

data.frame in long format with point estimates for each time-step and y feature based on statistic provided

See Also

[ee_extract](#) for information about ee_extract on ee\$ImageCollections and ee\$Images

Examples

```
## Not run:
library(rgee)
library(tidyrg)
ee_initialize()
modis_ic <- ee$ImageCollection("MODIS/006/MOD13Q1")
```

```

point_sample_buffered <- tidygee::bgd_msna |>
  sample_n(3) |>
  sf::st_as_sf(coords=c("_gps_reading_longitude",
                       "_gps_reading_latitude"), crs=4326) |>
  sf::st_transform(crs=32646) |>
  sf::st_buffer(dist = 500) |>
  dplyr::select(`_uuid`)
modis_ic_tidy <- as_tidyee(modis_ic)
modis_monthly_baseline_mean <- modis_ic_tidy |>
  select("NDVI") |>
  filter(year %in% 2000:2015) |>
  group_by(month) |>
  summarise(stat="mean")

ndvi_monthly_mean_at_pt<- modis_monthly_baseline_mean |>
  ee_extract(y = point_sample_buffered,
            fun="mean",
            scale = 500)

## End(Not run)

```

ee_month_composite *Pixel-level composite by month*

Description

Pixel-level composite by month

Usage

```

ee_month_composite(x, ...)

## S3 method for class 'ee.imagecollection.ImageCollection'
ee_month_composite(x, stat, months, ...)

## S3 method for class 'tidyee'
ee_month_composite(x, stat, ...)

```

Arguments

| | |
|--------|--|
| x | An earth engine ImageCollection or tidyee class. |
| ... | extra args to pass on |
| stat | A character indicating what to reduce the ImageCollection by, e.g. 'median' (default), 'mean', 'max', 'min', 'sum', 'sd', 'first'. |
| months | A vector of months, e.g. c(1, 12). |

Value

tidyee class containing ee\$Image or ee\$ImageCollection with pixels aggregated by month

| | |
|-----------------|------------------------|
| ee_month_filter | <i>ee_month_filter</i> |
|-----------------|------------------------|

Description

ee_month_filter

Usage

```
ee_month_filter(imageCol, month, ...)
```

Arguments

| | |
|----------|---|
| imageCol | ee\$ImageCollection |
| month | numeric vector containing month values (1-12) |
| ... | other arguments |

Value

ee\$ImageCollection or ee\$Image filtered by month

| | |
|-------------------|--------------------------------------|
| ee_year_composite | <i>Pixel level composite by year</i> |
|-------------------|--------------------------------------|

Description

Pixel level composite by year

Usage

```
ee_year_composite(x, ...)
```

```
## S3 method for class 'ee.imagecollection.ImageCollection'
ee_year_composite(x, stat, year, ...)
```

```
## S3 method for class 'tidyee'
ee_year_composite(x, stat, ...)
```

Arguments

| | |
|------|--|
| x | An earth engine ImageCollection or tidyee class. |
| ... | other arguments |
| stat | A character indicating what to reduce the ImageCollection by, e.g. 'median' (default), 'mean', 'max', 'min', 'sum', 'sd', 'first'. |
| year | numeric vector containing years (i.e c(2001,2002,2003)) |

Value

tidyee class containing ee\$Image or ee\$ImageCollection with pixels aggregated by year

| | |
|----------------|-----------------------|
| ee_year_filter | <i>ee_year_filter</i> |
|----------------|-----------------------|

Description

ee_year_filter

Usage

```
ee_year_filter(imageCol, year, ...)
```

Arguments

| | |
|----------|---|
| imageCol | ee\$ImageCollection |
| year | numeric vector containing years (i.e c(2001,2002,2003)) |
| ... | other arguments |

Value

ee\$ImageCollection or ee\$Image filtered by year

| | |
|-------------------------|--|
| ee_year_month_composite | <i>Pixel-level composite by year and month</i> |
|-------------------------|--|

Description

Pixel-level composite by year and month

Usage

```
ee_year_month_composite(x, ...)

## S3 method for class 'ee.imagecollection.ImageCollection'
ee_year_month_composite(x, stat, startDate, endDate, months, ...)

## S3 method for class 'tidyee'
ee_year_month_composite(x, stat, ...)
```

Arguments

| | |
|-----------|--|
| x | An earth engine ImageCollection or tidyee class. |
| ... | args to pass on. |
| stat | A character indicating what to reduce the ImageCollection by, e.g. 'median' (default), 'mean', 'max', 'min', 'sum', 'sd', 'first'. |
| startDate | character format date, e.g. "2018-10-23". |
| endDate | character format date, e.g. "2018-10-23". |
| months | numeric vector, e.g. c(1,12). |

Value

tidyee class containing ee\$Image or ee\$ImageCollection with pixels aggregated by year and month

ee_year_month_filter *ee_year_month_filter*

Description

ee_year_month_filter

Usage

```
ee_year_month_filter(imageCol, year, month, ...)
```

Arguments

| | |
|----------|---|
| imageCol | ee\$ImageCollection |
| year | numeric vector contain years to filter |
| month | numeric vector contain months to filter |
| ... | other arguments |

Value

ee\$ImageCollection or ee\$Image filtered by year & month

| | |
|--------|--|
| filter | <i>filter ee\$ImageCollections or tidyee objects that contain imageCollections</i> |
|--------|--|

Description

filter ee\$ImageCollections or tidyee objects that contain imageCollections

Arguments

| | |
|-------|--|
| .data | ImageCollection or tidyee class object |
| ... | other arguments |

Value

filtered image or imageCollection form filtered imageCollection

See Also

[filter](#) for information about filter on normal data tables.

Examples

```
## Not run:

library(rgee)
library(tidygee)
ee_initialize()
l8 = ee$ImageCollection('LANDSAT/LC08/C01/T1_SR')
l8 |>
  filter(date>"2016-01-01",date<"2016-03-04")

# example with tidyee class
modis_ic <- ee$ImageCollection("MODIS/006/MOD13Q1")
modis_ic_tidy <- as_tidyee(modis_ic)

# filter by month
modis_march_april <- modis_ic_tidy |>
  filter(month %in% c(3,4))

## End(Not run)
```

| | |
|---------------|--|
| filter_bounds | <i>filter_bounds a wrapper for rgee::ee\$ImageCollection\$filterBounds</i> |
|---------------|--|

Description

filter_bounds a wrapper for rgee::ee\$ImageCollection\$filterBounds

Usage

```
filter_bounds(x, y, use_tidyee_index = FALSE, return_tidyee = TRUE)
```

Arguments

| | |
|------------------|--|
| x | tidyee object containing ee\$ImageCollection or ee\$ImageCollection |
| y | feature to filter bounds by (sf, ee\$FeatureCollection, ee\$Feature, ee\$Geometry) |
| use_tidyee_index | filter on tidyee_index (default = F) or system_index (by default) |
| return_tidyee | logical return tidyee class (default = TRUE) object or ee\$ImageCollection. Faster performance if set to FALSE |

Value

tidyee class or ee\$ImageCollection class object with scenes filtered to bounding box of y geometry

Examples

```
## Not run:

library(tidyrgree)
library(tidyverse)
library(rgee)
rgee::ee_initialize()

# create geometry and convert to sf
coord_tibble <- tibble::tribble(
  ~X,          ~Y,
  92.2303683692011, 20.9126490153521,
  92.2311567217866, 20.9127410439304,
  92.2287527311594, 20.9124072954926,
  92.2289221219251, 20.9197352745068,
  92.238724724534, 20.9081803233546
)
sf_ob <- sf::st_as_sf(coord_tibble, coords=c("X", "Y"), crs=4326)

# load landsat
ls = ee$ImageCollection("LANDSAT/LC08/C01/T1_SR")

#create tidyee class
```

```

ls_tidy <- as_tidyee(ls)

# filter_bounds on sf object
# return tidyee object
ls_tidy |>
  filter_bounds(sf_ob)
# return ee$ImageCollection
ls_tidy |>
  filter_bounds(sf_ob, return_tidyee = FALSE)

# filter_bounds on ee$Geometry object
# return tidyee object
ee_geom_ob <- sf_ob |> rgee::ee_as_sf()
ls_tidy |>
  filter_bounds(ee_geom_ob)

## End(Not run)

```

| | |
|----------|---|
| group_by | <i>Group an imageCollection or tidyee object with Imagecollections by a parameter</i> |
|----------|---|

Description

Group an imageCollection or tidyee object with Imagecollections by a parameter

Arguments

| | |
|-------|---|
| .data | ee\$ImageCollection or tidyee object |
| ... | group_by variables |
| .add | When FALSE, the default, group_by() will override existing groups. To add to the existing groups, use .add = TRUE. This argument was previously called add, but that prevented creating a new grouping variable called add, and conflicts with our naming conventions. |
| .drop | Drop groups formed by factor levels that don't appear in the data? The default is TRUE except when .data has been previously grouped with .drop = FALSE. See group_by_drop_default() for details. |

Value

ee\$ImageCollection with grouped_vars attribute

See Also

[group_by](#) for information about group_by on normal data tables.

Examples

```
## Not run:
library(tidyrg)
ee_initialize()
modis_ic <- ee$ImageCollection("MODIS/006/MOD13Q1")
modis_ic |>
  filter(date>="2016-01-01", date<="2019-12-31") |>
  group_by(year)

## End(Not run)
```

| | |
|-------------|--|
| group_split | <i>filter ee\$ImageCollections or tidyee objects that contain imageCollections</i> |
|-------------|--|

Description

filter ee\$ImageCollections or tidyee objects that contain imageCollections

Arguments

| | |
|---------------|--|
| .tbl | ImageCollection or tidyee class object |
| ... | other arguments |
| return_tidyee | logical return tidyee object(default =T), if FALSE - only return ee\$ImageCollection |

Value

filtered image or imageCollection form filtered imageCollection

See Also

[group_split](#) for information about filter on normal data tables.

Examples

```
## Not run:

library(rgee)
library(tidyrg)
ee_initialize()
l8 = ee$ImageCollection('LANDSAT/LC08/C01/T1_SR')
l8 |>
  filter(date>"2016-01-01", date<"2016-03-04")

# example with tidyee class
modis_ic <- ee$ImageCollection("MODIS/006/MOD13Q1")
modis_ic_tidy <- as_tidyee(modis_ic)
```

```
# filter by month
modis_march_april <- modis_ic_tidy |>
filter(month %in% c(3,4))

## End(Not run)
```

| | |
|------------|--|
| inner_join | <i>inner_join bands from different image/ImageCollections based on shared property</i> |
|------------|--|

Description

inner_join bands from different image/ImageCollections based on shared property

Arguments

| | |
|------|--|
| x, y | A pair of tidyee objects containing ee\$ImageCollections |
| by | A character vector of variables to join by. |

Value

An object of the same type as x. The output has the following properties: Same number of images as x Total number of bands equal the number of bands in x plus the number of bands in y

See Also

[inner_join](#) for information about inner_join on normal data tables.

| | |
|--------|--|
| mutate | <i>mutate columns into tidyee vrt which can later be used to modify tidyee ImageCollection</i> |
|--------|--|

Description

mutate columns into tidyee vrt which can later be used to modify tidyee ImageCollection

Arguments

| | |
|-------|--|
| .data | tidyee class object (list of ee_ob, vrt) |
| ... | mutate arguments |

Value

return tidyee class object with vrt data.frame mutated.

See Also

[mutate](#) for information about mutate on normal data tables.

Examples

```
## Not run:
library(tidyrgEE)
library(rgee)
ee_initialize()
modis_ic <- ee$ImageCollection("MODIS/006/MOD13Q1")
modis_ic_tidy <- as_tidyee(modis_ic)

## End(Not run)
```

| | |
|--------------|---------------------|
| print.tidyee | <i>print tidyee</i> |
|--------------|---------------------|

Description

print tidyee

Usage

```
## S3 method for class 'tidyee'
print(x, ...)
```

Arguments

| | |
|-----|----------------------|
| x | tidyee object |
| ... | additional arguments |

Value

printed tidyee object

| | |
|--------|---|
| select | <i>Select bands from ee\$Image or ee\$ImageCollection</i> |
|--------|---|

Description

Select bands from ee\$Image or ee\$ImageCollection

Arguments

| | |
|-------|---|
| .data | tidyee class object containing ee\$ImageCollection or ee\$Image |
| ... | one or more quoted or unquoted expressions separated by commas. |

Value

tidyee class object with specified (...) bands selected

See Also

[select](#) for information about select on normal data tables.

Examples

```
## Not run:
library(tidyrgree)
ee_initialize()
modis_ic <- ee$ImageCollection("MODIS/006/MOD13Q1")
modis_ic_tidy <- as_tidyee(modis_ic)

# select NDVI band
modis_ndvi <- modis_ic_tidy |>
  select("NDVI")

# select NDVI band, but change band to new name
modis_ndvi_renamed <- modis_ic_tidy |>
  select(ndvi_new= "NDVI")

## End(Not run)
```

set_idx

set_idx

Description

set_idx

Usage

```
set_idx(x, idx_name = "tidyee_index")
```

Arguments

x tidyee or ee\$ImageCollection class object
 idx_name name for index to create (default = "tidyee_index")

Value

tidyee or ee\$ImageCollection class object with new index containing sequential 0-based indexing

Examples

```
## Not run:
library(rgee)
library(tidyrgree)
ee_initialize()
modis_link <- "MODIS/006/MOD13Q1"
modisIC <- ee$ImageCollection(modis_link)
modis_ndvi_tidy <- as_tidyee(modisIC) |>
  select("NDVI")
modis_ndvi_tidy |>

## End(Not run)
```

| | |
|-------|---|
| slice | <i>slice ee\$ImageCollections or tidyee objects that contain imageCollections</i> |
|-------|---|

Description

slice ee\$ImageCollections or tidyee objects that contain imageCollections

Arguments

| | |
|-------|--|
| .data | ImageCollection or tidyee class object |
| ... | other arguments |

Value

sliced/filtered image or imageCollection form filtered imageCollection

See Also

[slice](#) for information about slice on normal data tables.

Examples

```
## Not run:

library(rgee)
library(tidyrgree)
ee_initialize()
l8 = ee$ImageCollection('LANDSAT/LC08/C01/T1_SR')
l8 |>
  filter(date>"2016-01-01", date<"2016-03-04")

# example with tidyee class
modis_ic <- ee$ImageCollection("MODIS/006/MOD13Q1")
```

```

modis_ic_tidy <- as_tidyee(modis_ic)

# filter by month
modis_march_april <- modis_ic_tidy |>
  filter(month %in% c(3,4))

## End(Not run)

```

| | |
|-----------|---|
| summarise | <i>Summary pixel-level stats for ee\$ImageCollection or tidygee objects with ImageCollections</i> |
|-----------|---|

Description

Summary pixel-level stats for ee\$ImageCollection or tidygee objects with ImageCollections

Usage

```

## S3 method for class 'ee.imagecollection.ImageCollection'
summarise(.data, stat, ...)

## S3 method for class 'tidyee'
summarise(.data, stat, ..., join_bands = TRUE)

```

Arguments

| | |
|------------|--|
| .data | ee\$Image or ee\$ImageCollection |
| stat | character stat/function to apply |
| ... | other arguments |
| join_bands | logical (default= TRUE) if multiple stats selected should bands be joined? |

Value

ee\$Image or ee\$ImageCollection where pixels are summarised by group_by and stat
 ee\$Image or ee\$ImageCollection where pixels are summarised by group_by and stat
 ee\$Image or ee\$ImageCollection where pixels are summarised by group_by and stat

See Also

[summarise](#) for information about summarise on normal data tables.

Examples

```
## Not run:
library(tidyrggee)
library(rgee)
ee_initialize()
modis_ic <- ee$ImageCollection("MODIS/006/MOD13Q1")
modis_ic |>
  filter(date>="2016-01-01",date<="2019-12-31") |>
  group_by(year) |>
  summarise(stat="max")

## End(Not run)
```

ungroup

ungroup

Description

ungroup

Arguments

| | |
|-----|---------------|
| x | tidyee object |
| ... | ungroup args |

Value

tidyee class object with vrt ungrouped.

See Also

[ungroup](#) for information about ungroup on normal data tables.

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