R documentation

of all in 'man/'

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2 CalculateAll

CalculateAll Calculate All

Description

Calculate all scores, given layers and configuration.

Usage

```
CalculateAll(conf, layers)
```

Arguments

conf of class Conf layers of class Layers

debug print debug messages (default=FALSE)

Details

Performs the following sequence of functions, some of which are [optional]:

- functions.R:Setup() execute function Setup() if defined in file functions.R. This function typically installs extra packages upon which the other functions in functions.R depend.
 - 1. CalculatePressuresAll() calculate pressures across all goals using pressures_matrix.csv.
 - 2. CalculateResilienceAll() calculate resilience across all goals using resilience matrix.csv and resilience_weights.csv.
 - 3. goals.csv:preindex_functions execute code in the preindex_function column of the goals.csv file based on order_calculate using functions defined in functions.R. These funcutions are usually for calculating the goal's status and trend dimensions, ie the additional dimensions beyond pressures and resilience needed to calculate a goal index score.
 - 4. CalculateGoalIndex() run function for every goal having a status dimension assigned from the preindex_functions.
 - 5. goals.csv:postindex_functions execute code in the postindex_function column of the goals.csv file based on order_calculate using functions defined in functions.R. These functions are usually for goals containing subgoals, ie those without their own directly calculated index scores, but rather scores representing averages of subgoals.
 - 6. regional index calculate regional index score as weighted mean using goals.csv:weight.
 - 7. regional likely future calculate regional likely future score (ie goal='Index' and dimension='future') across supragoals (ie goals without a parent in goals.csv).
- functions.R:PreGlobalScores() execute function PreGlobalScores() if defined in file functions.R. This function could perform a variety of operations on the regional scores, strategically before calculating the global
 - 8. global (region_id=0) scores calculate scores for global (region_id=0) with regional values weighted by config.R:layer_region_areas.
- functions.R:FinalizeScores() execute function FinalizeScores() if defined in file functions.R. This function could perform a variety of operations on the regional and global scores.

CalculateGoalIndex 3

Value

Returns a data.frame of scores having the following columns:

 region_id - unique numeric region identifier, reserving 0 as the region_id for the area-weighted average of the entire study area

- goal the goal code or Index
- dimension the dimension code, one of: status, trend, pressures, resilience, future, score
- score the numeric score: 0-100 for all dimensions, except trend (-1 to 1)

Examples

CalculateGoalIndex

Calculate Goal Index

Description

Goal-level computation function to goal score ("component indicators for public goals") based on status, trend, resilience, pressure

Usage

```
CalculateGoalIndex(id, status, trend, resilience, pressure, DISCOUNT = 1, BETA = 0.67, default_trend = 0, xlim = c(0, 1))
```

Arguments

id is the subregion identifier

status (x) score

trend (t) score for 5 year outloook

resilience (r) score

4 CalculatePressures

```
pressure (p) score
Constants:

DISCOUNT is the discount multiplier (i.e., df = 1 - rate)

BETA is the trend dampening multiplier used in likely future status calculation default_trend The default trend value (0) if region has NA.
```

Details

Parameters:

Value

Returns a data.frame with the input data, a likely future status and OHI score, containing columns: status (x), trend (t), resilience (r), pressure (p), future status (xF) and goal score (score).

Examples

```
## Not run:
## run a model with 50 regions using random data,
## using 5 year 1-percent discount rate and beta=0.67
require(ohi)
d <- ohi.model.goal(id=1:50,</pre>
                     status=runif(50, 0, 1),
                     trend=runif(50, -1, 1),
                     resilience=runif(50, 0, 1),
                     pressure=runif(50, 0, 1),
                     DISCOUNT = (1 + 0.01)^{-5},
                    BETA = 0.67,
                     default\_trend = 0.0)
## view model output
names(d)
d[,c('id','score','xF')]
## End(Not run)
```

CalculatePressures

Calculate the pressures score for each (sub)goal.

Description

Calculate the pressures score for each (sub)goal.

Usage

```
CalculatePressures(layers, conf, gamma, debug = F)
```

CalculatePressuresAll 5

Arguments

layers object Layers conf object Conf

gamma (optional) if not specified defaults to 0.5

Value

data.frame containing columns 'region_id' and per subgoal pressures score

CalculatePressuresAll Calculate all the pressures score for each (sub)goal.

Description

Calculate all the pressures score for each (sub)goal.

Usage

```
CalculatePressuresAll(layers, conf)
```

Arguments

layers object Layers conf object Conf

Value

data.frame containing columns 'region_id' and per subgoal pressures score

CalculateResilience Calculate the resilience score for each (sub)goal.

Description

Calculate the resilience score for each (sub)goal.

Usage

```
CalculateResilience(layers, conf, debug = FALSE)
```

Arguments

layers object Layers conf object Conf

Value

data.frame containing columns 'region_id' and per subgoal resilience score

6 CheckLayers

CalculateResilienceAll

Calculate all the resilience score for each (sub)goal.

Description

Calculate all the resilience score for each (sub)goal.

Usage

```
CalculateResilienceAll(layers, conf)
```

Arguments

layers object Layers conf object Conf

Value

data.frame containing columns 'region_id' and per subgoal resilience score

CheckLayers Check Layers	
--------------------------	--

Description

Check all the input layers as defined by layers.csv and update required fields

Usage

```
CheckLayers(layers.csv, layers.dir, flds_id, verbose = TRUE)
```

Arguments

layers.csv	path to comma-seperated value file with row of metadata for each dataset used in OHI analysis.
layers.dir	full path to the directory containing the layers files (csv files that correspond to each entry in layers.csv).
flds_id	character vector of unique identifiers, typically spatial, eg c('region_id', 'country_id', 'saup_id'), described in your Conf\$layers_id_fields.
verbose	if TRUE (default), extra diagnostics are output

CheckLayers 7

Details

This function goes through all the entries in layers.csv and does several checks (e.g., that each datalayer in layers.csv is present in the layers folder, etc.). This function appends the following information:

- fld_id_num name of field used as spatial identifier, if numeric
- fld_id_chr name of field used as spatial identifier, if character
- fld_category name of field used as category
- fld_year name of field used as year
- fld_val_num name of field used as value, from fld_value, if numeric
- fld_val_chr name of field used as value, from fld_value, if character
- flds data fields used for the layer

This function also appends the following diagnostic fields to layers.csv:

- file exists input filename exists
- year_min minimum year, if year present
- year_max maximum year, if year present
- val min minimum value, if numeric
- *val_max* maximum value, if numeric
- val_0to1 TRUE if value ranges between 0 and 1
- flds_unused unused fields from input file when guessing prescribed field names (aboves)
- flds_missing fields expected, as given by Layers units, and not found
- rows_duplicated given the combination of all row-identifying fields (and excluding value fields), the number of rows which are duplicates
- num_ids_unique number of unique ids, as provided by just the unique instances of the fld_id

Value

warning messages

```
## Not run:
   CheckLayers(layers.csv, layers.dir, c('rgn_id','cntry_key','saup_id'))
## End(Not run)
```

8 Conf

compare_scores_df

Compares scores

Description

Combine two scores.csv files and calculate difference.

Usage

```
compare_scores_df(a_csv, b_csv, r_csv, g_csv)
```

Arguments

a_csv	scores.csv for A
b_csv	scores.csv for B
r_csv	region labels, ie layers/rgn_labels.cs
g_csv	goals, ie conf/goals.csv

Details

Returns a data frame with calculated differences sorted by global (region_id=0), Index, score, goal, dimension, absolute score, is.na(a), is.na(b).

Conf

Conf reference class.

Description

Conf reference class.

Usage

```
Conf(...)
```

Arguments

dir

path to directory containing necessary files

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Details

To create this object, Conf(dir). The dir is expected to have the following files:

- config.R
- functions.R
- goals.csv
- pressures_matrix.csv
- resilience_matrix.csv
- resilienceweights.csv

See also Conf_write() to write the configuration back to disk.

Value

object reference class of Config containing:

- config
- functions
- goals
- pressures_matrix
- resilience_matrix
- · resilienceweights

Conf-class

Conf reference class.

Description

Conf reference class.

Arguments

dir

path to directory containing necessary files, e.g., eez2015/conf

Details

This function creates an R object that combines into a single object all the information from the following files: config.R, functions.R, goals.csv, pressures_matrix.csv, resilience_weights.csv. To create this object, Conf(dir). The dir is expected to have the following files:

- config.R
- functions.R
- goals.csv

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- pressures_matrix.csv
- resilience_matrix.csv
- resilience_weights.csv
- pressure_categories

See also Conf_write() to write the configuration back to disk.

Value

object reference class of Config containing:

- config
- functions
- goals
- pressures_matrix
- resilience_matrix
- resilience_categories
- pressure_categories

Conf_write

Write the Conf to disk

Arguments

dir

path to directory where the Conf files should be output

Details

Use this function to write the configuration to disk, like so conf\$write(dir). This is useful for modifying and then reloading with Conf(dir).

gapfill_georegions

Gapfill using georegional means

Description

Gapfill using georegional means, providing the finest possible resolution from 3 hierarchies (r2 > r1 > r0) derived from United Nations geoscheme.

gapfill_georegions 11

Usage

```
gapfill_georegions(data, georegions, fld_id = intersect(names(data),
  names(georegions)), fld_year = ifelse("year" %in% names(data), "year",
  NA), fld_value = setdiff(names(data), c(fld_id, fld_weight, "year")),
  georegion_labels = NULL, fld_weight = NULL, rgn_weights = NULL,
  ratio_weights = FALSE, gapfill_scoring_weights = c(r0 = 1, r1 = 0.8, r2 =
  0.5, v = 0), r0_to_NA = TRUE, attributes_csv = NULL)
```

Arguments

data. frame to gapfill having at least fields: fld_id and fld_value, and option-

ally fld_weight

georegions data.frame having at least fields: fld_id and r0, r1, and r2 with georegion id

values

fld_id common spatial id field (eg region_id or country_key) between data and georegions

fld_year optional year field in data fld_value value to gapfill in data

georegion_labels

with same dimensions as georegions having fields: r0_label, r1_label, r2_label

and v_label

fld_weight optional weighting field in data

rgn_weights data frame of weights, expecting rgn_id in first column and weight in second

ratio_weights if TRUE, multiply the gapfilled value by the ratio of the region's weight to the

regional average weight. Defaults to FALSE. IMPORTANT to set to TRUE if

dealing with values that SUM!

gapfill_scoring_weights

used to determine gapfilling scoreset. should range 0 to 1. defaults to c("r0"=1, "r1"=0.8, "r2"=0.5, "r2"=0.5]

r0_to_NA assign value of NA if only georegional average available at the global level (r0).

defaults to True.

attributes_csv optional path and filename to save attribute table. defaults to NULL

Details

Gapfill using georegional means, providing the finest possible resolution from 3 hierarchies (r2 > r1 > r0).

The gapfill score (z_g _score) in the attribute table is formulated such that the higher the score, the more gapfilling performed. The maximal gapfill score is based on gapfilling at the global level (r0=1) and least if no gapfilling performed (ie z=v). But then some regional averages are applied with only a few regional values while others might have all but the gapfilled region available. To account for this aspect, the difference between the next finer level's weight is multiplied by the percent regions and subtracted from the level's weight, like so:

```
gapfill_scoring_weights[z_level] - z_n_pct * diff(gapfill_scoring_weights[z_level, z_level_finer])
```

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Value

Returns a data.frame of having all the fld_id from georegions filled in the following columns:

- fld_id spatial id (eg region_id or country_key).
- fld_value the gapfilled value (eg score).

The returned data.frame also has an attribute "gapfill_georegions" which shows the calculated georegional means and which levels were chosen:

- r0 georegional id for level 0, ie global.
- r1 georegional id for level 1.
- r2 georegional id for level 2, the finest resolution of georegions.
- id spatial id (eg region_id or country_key).
- w weight used to apply weighted.mean. Defaults to 1 if not supplied as fld_weight parameter.
- v original fld_value in data
- r2_v weighted.mean for level 2
- r1_v weighted.mean for level 1
- r0_v weighted.mean for level 0 (global)
- r2_n count of regions available for level 2
- r1_n count of regions available for level 1
- r0_n count of regions available for level 0
- r2_n_notna count of region values that are not NA for level 2
- r1_n_notna count of region values that are not NA for level 1
- r0_n_notna count of region values that are not NA for level 0
- z_level finest level available
- z_ids ids for regions that are not NA which contributed to the score
- z_n count of input values for finest level available
- z_n_pct percent of region values that are not NA over all possible [0 to 1]
- z_g_score gapfilling score (see details)
- z weighted.mean for finest level available

```
## Not run:
## setup
require(ohicore)

# gapfill
g = gapfill_georegions(data, georegions, fld_weight='w_sum')

# show result and table
head(g)
head(attr(g, 'gapfill_georegions'))

## End(Not run)
```

Layers 13

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Layers reference class.

Description

Layers reference class.

Usage

```
Layers(...)
```

Arguments

layers.csv path to comma-seperated value file with row of metadata per layer

layers.dir path of directory containing individual layer files

Details

To instantiate this object, Layers(layers.csv, layers.dir) is used. The layers.csv is expected to have the following columns:

- layer unique layer identifier (no spaces or special characters)
- *targets* a space delimited list of targets (goal code, 'Pressures', 'Resilience' or 'Regions') for which this layer is applied
- name name of the variable
- description detailed description
- units units of the value
- citation reference for documentation, typically a heading code for a supplemental document
- filename the csv data file for the layer
- fld_value required field in the layer csv file containing the value, which is often best named as a shorthand for the units without spaces or special characters

The layers.dir directory should contain all the csv filenames listed in the layers.csv file.

Value

object (non-instantiated) reference class of Layers containing

- meta metadata data frame of original layers.csv
- data named list of data frames, one per layer
- *targets* named list of character vector indicating a layer's targets, goal (status, trend) or dimension (pressures, resilience)

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Layers-class	Layers reference class.	
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Description

Layers reference class.

Arguments

layers.csv path to comma-seperated value file with row of metadata for each dataset used in OHI analysis.

layers.dir full path to the directory containing the layers files (csv files that correspond to each entry in layers.csv).

Details

This function creates an R object that combines into a single object all the information from the layers files and the layers.csv metadata. Individual layers can be accessed as: layer_object_name\$data\$layer_name To create this object, Conf(dir). The dir is expected to have the following files:

- *layer* unique layer identifier (no spaces or special characters)
- *targets* a space delimited list of targets (goal code, 'Pressures', 'Resilience' or 'Regions') for which this layer is applied
- name name of the variable
- description detailed description
- units units of the value
- citation reference for documentation, typically a heading code for a supplemental document
- filename the csv data file for the layer
- fld_value required field in the layer csv file containing the value, which is often best named as a shorthand for the units without spaces or special characters

The layers.dir directory should contain all the csv filenames listed in the layers.csv file.

Value

object (non-instantiated) reference class of Layers containing

- meta metadata data frame of original layers.csv
- data named list of data frames, one per layer
- *targets* named list of character vector indicating a layer's targets, goal (status, trend) or dimension (pressures, resilience)

map values 15

Description

Replace specified values with new values, in a vector or factor. This is copied from plyr.

Usage

```
mapvalues(x, from, to, warn_missing = TRUE)
```

Arguments

x the factor or vector to modify
 from a vector of the items to replace
 to a vector of replacement values
 warn_missing print a message if any of the old values are not actually present in x

Details

#' If x is a factor, the matching levels of the factor will be replaced with the new values.

The related revalue function works only on character vectors and factors, but this function works on vectors of any type and factors.

Value

Returns a vector with new values.

e_to_rgn Get scenarios

Description

Get scenarios from Github.

Usage

```
name_to_rgn(d, fld_name = "country", flds_unique = fld_name,
  fld_value = "value", collapse_fxn = c("sum_na", "mean",
  "weighted.mean")[1], collapse_csv = NULL, collapse_flds_join = NULL,
  dir_lookup = "~/github/ohiprep/src/LookupTables",
  rgn_master.csv = file.path(dir_lookup, "eez_rgn_2013master.csv"),
  rgn_synonyms.csv = file.path(dir_lookup, "rgn_eez_v2013a_synonyms.csv"),
  add_rgn_name = F, add_rgn_type = F)
```

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Arguments

fld_name	field name of the region from the dataset
flds_unique	field name for the dataset
fld_value	field with value, defaults to 'value'
collapse_fxn	function to collapse duplicate regions into one (example: China, Macau, Hong Kong) $$
collapse_csv	optional .csv file provided to collapse duplicate regions
collapse_flds_j	oin
	optional list of fields identified to collapse duplicate regions
dir_lookup	directory of name-to-region look up tables
rgn_master.csv rgn_synonyms.cs	.csv file of eez-to-region combinations
	.csv file of synonyms of eez-to-region combinations
add_rgn_name	T or F whether to include a column with the region name
add_rgn_type	T of F whether to include the region type (eez)
	fld_value collapse_fxn collapse_csv collapse_flds_j dir_lookup rgn_master.csv rgn_synonyms.cs add_rgn_name

Details

This function translates name to region id with a lookup.

Description

Plot flower plot

Usage

```
PlotFlower(lengths, widths, labels, disk = 0.5, max.length, center = NULL,
  main = NULL, fill.col = NULL, plot.outline = TRUE,
  label.offset = 0.15, xlim = c(-1.2, 1.2), ylim = c(-1.2, 1.2),
  uin = NULL, tol = 0.04, cex = 1, bty = "n", lty = 1,
  label.col = "black", label.font = 3, label.cex = NULL, ...)
```

Arguments

lengths length of petal outward to extent of circle widths width of petal labels petal label outside of circel disk relative radius of a central donut hole max.length ...

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center center value
main middle value
fill.col fill colors

plot.outline size of plot outline

label.offset label offset

xlim formatting

ylim formatting

uin formatting

tol formatting

cex size of middle text

bty formatting
lty line thickness
label.col label color
label.font label font

label.cex size of label text

Value

Generate something akin to a rose plot in which the width and length of each petal are directly specified by the user. Or to put it differently, this is somewhat like a pie chart in which the radius of each wedge is allowed to vary (along with the angular width, as pie charts do). As an additional enhancement, one can specify a central disk of arbitrary radius (from 0 to 1, assuming that the plot itself is scaled to the unit circle), in which case the petal heights are always measured from the edge of the disk rather than the center of the circle; if desired, text can be added in the center.

Although this kind of plot may already be well known in some circles (no pun intended), I haven't seen it clearly defined or labeled anywhere, so I'm anointing it an 'aster' plot because its component parts are reminiscent of composite flower morphology.

The 'lengths' dictates how far out each petal extends, 'widths' dictates the (angular) width of each petal, and 'disk' gives the relative radius of a central donut hole. If no widths are provided, all petals will have equal widths. Additional function arguments can also control whether petals are labeled, whether the petal lengths are rescaled to the maximum score or to a user-input score, whether spokes delineating each petal are extended to an outer circle, and more. I also wrote a quick convenience wrapper for creating a legend plot.

Note that the function here is a repurposed and very heavily modified version of the windrose() function contained in the 'circular' package, although sufficiently rewritten so as not to depend on any functionality in that package.

Author(s)

Created by Jim Regetz. Slight modifications by Darren Hardy and Ben Best.

18 read_git_csv

Examples

```
## Not run:
# generate some fake data
set.seed(1)
scores <- sample(1:10)</pre>
weights <- sample(1:10)</pre>
labels <- paste(LETTERS[1:10], "X", sep="")</pre>
# do some plots
par(mfrow=c(2,2), xpd=NA)
aster(lengths=scores, widths=weights, disk=0, main="Example 1",
    plot.outline=FALSE)
aster(lengths=scores, widths=weights, labels=labels, main="Example 2",
    lty=2, fill.col="gray", plot.outline=FALSE)
aster.legend(labels=labels, widths=weights)
aster(lengths=scores, widths=weights, disk=0.5, main="Example 3",
    center="Hello world")
## End(Not run)
```

read_git_csv

Read CSV from local Git repository

Description

Read CSV from local Git repository.

Usage

```
read_git_csv(repo, hex = NA, path, ...)
```

Arguments

repo: organization and repostiory name (e.g., 'OHI-Science/ohi-global')

hex: hex SHA hex of commit (e.g., 'c7c7329')
path: path to csv file (e.g., 'eez2015/scores.csv')

Details

This function reads a csv file from a commit from a git repository.

```
## Not run:
# get csv from github repository by SHA hex of commit
old_data <- read_git_csv('OHI-Science/ohi-global', 'c7c7329', 'eez2015/scores.csv')
head(old_data)</pre>
```

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```
## End(Not run)
```

ScoreScaling

Score Scaling Functions

Description

Scoring functions

Usage

```
score.rescale(x, xlim = NULL, method = "linear", ...)
```

Arguments

x A numeric vector of data.

xlim The scoring range. If null, derives range from data.

method Only 'linear' is supported.

... Arguments for min, max, pmin, pmax.

p A percentage buffer to add to the maximum value.

Value

Returns scores.

See Also

```
min, max, pmin, pmax
```

```
score.max(c(0.5, 1, 2)) score.max(c(0.5, 1, 2), p=0.25) score.rescale(c(0.5, 1, 2)) score.clamp(c(-0.5, 1, 2)) score.clamp(c(-0.5, 1, 2), xlim=c(-1, 1))
```

20 SelectLayersData

SelectLayersData

Select Layers to Data

Description

Select Layers to Data

Usage

```
SelectLayersData(object, targets = NULL, layers = NULL, cast = TRUE,
  narrow = FALSE, expand.time.invariant = FALSE)
```

Arguments

object instance of Layers class

targets specifies the targets of layers to be selected, defaulting to c('regions')

layers specifies the layers to be selected. If given as a named character vector, then

layers get renamed with new names as values, and old names as names per

plyr::rename

narrow narrow the resulting data frame to just the fields containing data (as described by

flds in the default wide result) #@param expand.time.invariant for layers without a year column, populate the same value throughout all years where available in other layer(s) #@param cast whether to cast the resulting dataset, or leave it

melted, defaults to TRUE

Details

If neither targets or layers are specified then all layers are returned. If targets and layers are specified, then the union of the two sets of layers are returned, with any renamed layers renamed.

Value

data.frame with the merged data of selected layers having the following fields:

- layer layer name, possibly renamed
- layer0 original layer name, if fed a named character vector to layers
- id_num numeric id
- id chr character id
- id_name fieldname of id in original layer csv file
- · category category
- category_name fieldname of character in original layer csv file
- year year
- val_num numeric value
- val chr character value
- val_name fieldname of value in original layer csv file
- flds data fields used for the layer

shp_to_geojson 21

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snp_	_to_	_geojson

Create GeoJSON from Shapefile

Description

Create GeoJSON file needed for interactive map in Shiny app

Usage

```
shp_to_geojson(shp, js, geojson = sprintf("%s.geojson",
  tools::file_path_sans_ext(js)))
```

Arguments

shp	path to shapefile with .shp extension, needs rgn_id and rgn_name fields
js	path to output javascript file with variable 'regions' of geojson content
geojson	path to output GeoJSON file. defaults to *.geojson of *.js file.

Details

Uses rgdal to write GeoJSON.

SpatialSchemes

SpatialSchemes reference class.

Description

SpatialSchemes reference class.

Usage

```
SpatialSchemes(...)
```

Value

object (non-instantiated) reference class of SpatialSchemes

22 trace_git_csv_value

Description

Trace Value from CSV through history of local Git repository

Usage

```
trace_git_csv_value(repo, csv, subset_str, select, verbose = T)
```

Arguments

repo path to repository on local filesystem
csv path to csv file with the repository as root

subset_str subset argument to the function subset quoted as string to extract row of data

from csv

select field to select from subsetted row

Details

If you have trouble running this function, please make sure: 1) your path resolves to a local Git repository, 2) you have the latest git2r (try devtools::install_github('ropensci/git2r')).

Value

data.frame having columns: hex, when, message, v.

```
## Not run:
# trace the value for a csv from github repository
d = trace_git_csv_value('~/github/ohicore', 'inst/extdata/scores.Global2013.www2013.csv', "goal=='ECO' & dimens
head(d)
## End(Not run)
```

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