

Package: saros.base (via r-universe)

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Type Package

Title Base Tools for Semi-Automatic Reporting of Ordinary Surveys

Version 0.2.0

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Description Scaffold an entire web-based report using template chunks, based on a small chapter overview and a dataset. Highly adaptable with prefixes, suffixes, translations, etc. Also contains tools for password-protecting, e.g. for each organization's report on a website. Developed for the common case of a survey across multiple organizations/sites where each organization wants to obtain results for their organization compared with everyone else. See 'saros' (<<https://CRAN.R-project.org/package=saros>>) for tools used for authors in the drafted reports.

Note Free to use for non-Norwegian institutions, otherwise see LICENSE.

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URL <https://nifu-no.github.io/saros.base/>,
<https://github.com/NIFU-NO/saros.base>

BugReports <https://github.com/NIFU-NO/saros.base/issues>

Depends R (>= 4.2.0)

Imports cli, utils, vctrs, dplyr, tidyr, tidyselect, glue, rlang, stringi, yaml, forcats, fs, zip, rstudioapi, bcrypt

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copy_folder_contents_to_dir

Convenience Function to Copy Only the Contents of A Folder to Another Folder

Description

Convenience Function to Copy Only the Contents of A Folder to Another Folder

Usage

```
copy_folder_contents_to_dir(
  from,
  to,
  overwrite = FALSE,
  only_copy_folders = FALSE
)
```

Arguments

`to, from` String, path from where to copy the contents, and where to copy them to.

`overwrite` Flag. Defaults to FALSE.

`only_copy_folders` Flag. Defaults to FALSE. If TRUE, only copies folders.

Value

No return value, called for side effects

Examples

```
copy_folder_contents_to_dir(
  from = system.file("help", "figures", package = "dplyr"),
  to = tempdir()
)
```

create_directory_structure

Create a Pre-defined Directory Hierarchy on Disk

Description

Create a Pre-defined Directory Hierarchy on Disk

Usage

```
create_directory_structure(
  path,
  structure_path = system.file("templates", "_project_structure_en.yaml", package =
    "saros.base"),
  numbering_prefix = c("none", "max_local", "max_global"),
  numbering_inheritance = TRUE,
  word_separator = NULL,
  numbering_parent_child_separator = word_separator,
  numbering_name_separator = " ",
  case = c("asis", "sentence", "title", "lower", "upper", "snake"),
  replacement_list = c(project_initials = "SSN"),
```

```

    create = FALSE,
    count_existing_folders = FALSE
  )

```

Arguments

path String, path to where to create the project files

structure_path String. Path to the YAML file that defines the folder structure. Defaults to `system.file("templates", "_project_structure_en.yaml")`.

numbering_prefix String. One of `c("none", "max_local", "max_global")`.

numbering_inheritance Flag. Whether to inherit numbering from parent folder.

word_separator String. Replace separators between words in folder names. Defaults to `NULL`.

numbering_parent_child_separator String. Defaults to `word_separator`.

numbering_name_separator String. Separator between numbering part and name.

case String. One of `c("asis", "sentence", "lower", "upper", "title", "snake")`.

replacement_list named character vector. Each name in this vector will be replaced with its `"{{value}}"` in the `structure_path` file

create Boolean. Defaults to `TRUE` in `initialize_saros_project()`, `FALSE` in `create_directory_structure()`.

count_existing_folders Boolean. Defaults to `FALSE`.

Value

No return value, called for side effects

Examples

```
create_directory_structure(path = tempdir())
```

```
create_email_credentials
```

Create Data Frame Containing Email Drafts with User Credentials

Description

Create Data Frame Containing Email Drafts with User Credentials

Usage

```

create_email_credentials(
  email_data_frame,
  email_col = "email",
  username_col = "username",
  local_main_password_path = ".htpasswd_private",
  ignore_missing_emails = FALSE,
  email_body = "Login credentials are \nUsername: {username},\nPassword: {password}",
  email_subject = "User credentials for website example.net.",
  ...
)

```

Arguments

`email_data_frame` Data.frame/tibble with (at least) emails and usernames

`email_col` String, name of email column

`username_col` String, name of username column in `email_data_frame`

`local_main_password_path` Path to a local `.htpasswd` file containing `username:password` header and `:` as separator.

`ignore_missing_emails` Flag, defaults to `FALSE`. Whether usernames existing in password file but not email file will result in warnings.

`email_body`, `email_subject` String, subject line and email body respectively. Supports glue syntax referring to columns found in the email data frame or password file.

`...` Dynamic dots forwarded to `quarto::quarto_render`

Value

Data.frame

<code>create_r_files</code>	<i>Create Folder with Placeholder R-files Based on Structure in CSV-file</i>
-----------------------------	--

Description

Create Folder with Placeholder R-files Based on Structure in CSV-file

Usage

```

create_r_files(
  r_files_out_path,
  r_files_source_path = system.file("templates", "r_files.csv", package = "saros.base"),
  r_optionals = TRUE,
  r_add_file_scope = TRUE,
  r_prefix_file_scope = "### ",
  r_add_folder_scope_as_README = FALSE,
  word_separator = NULL,
  case = c("asis", "sentence", "title", "lower", "upper", "snake"),
  numbering_prefix = c("none", "max_local", "max_global"),
  numbering_inheritance = TRUE,
  numbering_parent_child_separator = word_separator,
  numbering_name_separator = " "
)

```

Arguments

r_files_out_path
String, path to where to place R placeholder files. If NULL, will not create any.

r_files_source_path
String, path to where to find CSV-field containing the columns folder_name, folder_scope, file_name, file_scope. If NULL, defaults to system.file("templates", "r_files.csv").

r_optionals
Flag. Whether to add files marked as 1 (or TRUE) in the optional column. Defaults to TRUE.

r_add_file_scope
Flag. Whether to add value from column 'file_scope' to beginning of each file. Default to TRUE.

r_prefix_file_scope
String to add before file_scope. Defaults to "### "

r_add_folder_scope_as_README
Flag. Whether to create README file in each folder with the folder_scope column cell in r_files_source_path. Defaults to FALSE.

word_separator
String. Replace separators between words in folder names. Defaults to NULL.

case
String. One of c("asis", "sentence", "lower", "upper", "title", "snake").

numbering_prefix
String. One of c("none", "max_local", "max_global").

numbering_inheritance
Flag. Whether to inherit numbering from parent folder.

numbering_parent_child_separator
String. Defaults to word_separator.

numbering_name_separator
String. Separator between numbering part and name.

Value

No return value, called for side effects

Examples

```
create_r_files(r_files_out_path = tempdir())
```

download_zip_to_folder

Wrapper to Download and Unzip a Github Repository to A Folder

Description

Wrapper to Download and Unzip a Github Repository to A Folder

Usage

```
download_zip_to_folder(
  github_zip_url = "https://github.com/NIFU-NO/nifutemplates/archive/refs/heads/main.zip",
  zip_path = tempfile(fileext = ".zip"),
  files = NULL,
  out_path,
  prompt = TRUE,
  overwrite = FALSE,
  open_project = FALSE,
  newSession = TRUE
)
```

Arguments

github_zip_url	URL to zip file, as string.
zip_path	String, where to store zip-file. Defaults to a temporary location.
files	Character vector of files in zip-file to include. See <code>zip::unzip()</code> .
out_path	String, directory to where to store the unzipped files.
prompt	Flag, whether to ask user if conflicting files should be overwritten, if any. Defaults to TRUE.
overwrite	Flag, whether to overwrite files in out_path. Defaults to FALSE.
open_project	Flag or string. If FALSE (default), does nothing. If TRUE (requires <code>rstudioapi</code> pkg), opens an assumed <code>.Rproj</code> -file in out_path after copying, or gives warning if not found. Alternatively, a string (path) can be provided. Defaults to <code>file.path(out_path, ".Rproj")</code> if such exists. Set to NULL or FALSE to ignore.
newSession	Flag. Whether to open new project in a new RStudio session. Defaults to TRUE.

Value

Character vector of unzipped files.

Examples

```
download_zip_to_folder(
  github_zip_url = "https://github.com/NIFU-NO/nifutemplates/archive/refs/heads/main.zip",
  out_path = tempdir(), overwrite = TRUE
)
```

draft_report

Automatically Draft a Quarto Report

Description

The `draft_report()` function takes a raw dataset (`data`-argument) and the output from the `refine_chapter_overview()`-function as the `chapter_structure`-argument and outputs a set of pre-populated qmd-files in the specified path-folder. You can edit, render, and ultimately publish these as usual with Quarto features in RStudio. See also `{saros.post}`-package for post-processing tools.

Usage

```
draft_report(
  data,
  chapter_structure,
  ...,
  path = tempdir(),
  title = "Report",
  authors = NULL,
  authors_col = "author",
  chapter_yaml_file = NULL,
  chapter_qmd_start_section_filepath = NULL,
  chapter_qmd_end_section_filepath = NULL,
  index_filename = "index",
  index_yaml_file = NULL,
  index_qmd_start_section_filepath = NULL,
  index_qmd_end_section_filepath = NULL,
  report_filename = "0_report",
  report_yaml_file = NULL,
  report_qmd_start_section_filepath = NULL,
  report_qmd_end_section_filepath = NULL,
  ignore_heading_for_group = c(".template_name", ".variable_type_dep",
  ".variable_type_indep", ".variable_group_dep", "chapter"),
  replace_heading_for_group = c(.variable_label_suffix_dep = ".variable_name_dep",
  .variable_label_suffix_indep = ".variable_name_indep"),
  prefix_heading_for_group = NULL,
  suffix_heading_for_group = NULL,
  require_common_categories = TRUE,
  combined_report = TRUE,
  attach_chapter_dataset = TRUE,
  auxiliary_variables = NULL,
```



```

    serialized_format = c("rds", "qs"),
    max_path_warning_threshold = 260,
    log_file = NULL
  )

```

Arguments

data	<p><i>Survey data</i></p> <p>obj:<data.frame> obj:<tbl_df> obj:<srvyr> // Required</p> <p>A data frame (or a srvyr-object) with the columns specified in the chapter_structure 'dep', etc columns.</p>
chapter_structure	<p><i>What goes into each chapter and sub-chapter</i></p> <p>obj:<data.frame> obj:<tbl_df> // Required</p> <p>Data frame (or tibble, possibly grouped). One row per chapter. Should contain the columns 'chapter' and 'dep', Optionally 'indep' (independent variables) and other informative columns as needed.</p>
...	<p><i>Dynamic dots</i></p> <p><dynamic-dots></p> <p>Arguments forwarded to the corresponding functions that create the elements.</p>
path	<p><i>Output path</i></p> <p>scalar<character> // default: tempdir() (optional)</p> <p>Path to save all output. Defaults to a temporary directory.</p>
title	<p><i>Title of report</i></p> <p>scalar<character> // default: NULL (optional)</p> <p>Added automatically to YAML-header of index.qmd and report.qmd-files.</p>
authors	<p><i>Authors of entire report</i></p> <p>vector<character> // default: NULL (optional)</p> <p>If NULL, infers from chapter_structure[[authors_col]], and collates for entire report. If multiple authors per chapter, separate with semicolon. Ensure consistency.</p>
authors_col	<p><i>Column name for author</i></p> <p>scalar<character> // default: "author" (optional)</p> <p>Only used if it exists. Multiple authors are separated by semicolon (and optionally with a subsequent space).</p>
chapter_yaml_file	<p><i>Path to YAML-file to insert into each chapter qmd-file</i></p> <p>scalar<character> // default: NULL (optional)</p> <p>Path to file used to insert header YAML, in each chapter.</p>
chapter_qmd_start_section_filepath, chapter_qmd_end_section_filepath, index_qmd_start_section_filepath, index_qmd_end_section_filepath, report_qmd_start_section_filepath, report_qmd_end_section_filepath	<p><i>Path to qmd-bit for start/end of each qmd</i></p> <p>scalar<character> // default: NULL (optional)</p> <p>Path to qmd-snippet placed before/after body of all chapter/index/report qmd-files.</p>

`index_filename` *Index filename*
 scalar<character> // default: "index.qmd" (optional)
 The name of the main index Quarto file used as landing page for each report. Will link to a PDF (report.qmd) which collects all chapters.

`index_yaml_file, report_yaml_file`
Path to YAML-file to insert into index.qmd and 0_report.qmd respectively
 scalar<character> // default: NULL (optional)
 Path to file used to insert header YAML, in index and report files.

`report_filename`
Report filename
 scalar<character> // default: "0_report.qmd" (optional)
 The name of the main report QMD-file used when compiling a complete report collecting all chapters in its folder (except itself). If provided, will be linked to in the index. If NULL, will generate a filename based on the report title, prefixed with "0_". To turn off, set pdf=FALSE.

`ignore_heading_for_group`
Ignore heading for group
 vector<character> // default: NULL (optional)
 Type of refined chapter_structure data for which to suppress the heading in the report output. Typically variable_name_dep, variable_name_indep, etc.

`replace_heading_for_group`
Replacing heading for group
 named vector<character> // default: c(".variable_label_suffix_dep" = ".variable_name_dep")
 Occasionally, one needs to replace the heading with another piece of information in the refined chapter_structure. For instance, one may want to organize output by variable_name_indep, but to display the variable_label_indep instead. Use the name for the replacement and the value for the original.

`prefix_heading_for_group, suffix_heading_for_group`
Prefix and suffix headings
 vector<named character> // default: NULL (optional)
 Names are heading_groups, values are the prefixes and suffixes. Note that prefixes should end with a \n as headings must begin on a new line.

`require_common_categories`
Check common categories
 scalar<logical> // default: NULL (optional)
 Whether to check if all items share common categories.

`combined_report`
Create a combined report?
 scalar<logical> // default: FALSE (optional)
 Whether to create a qmd file that merges all chapters into a combined report.

`attach_chapter_dataset`
Toggle inclusion of chapter-specific datasets in qmd-files
 scalar<logical> // default: FALSE
 Whether to save in each chapter folder an 'Rds'-file with the chapter-specific dataset, and load it at the top of each QMD-file.

auxiliary_variables	<p><i>Auxiliary variables to be included in datasets</i></p> <p>vector<character> // default: NULL (optional)</p> <p>Column names in data that should always be included in datasets for chapter qmd-files, if attach_chapter_dataset=TRUE. Not publicly available.</p>
serialized_format	<p><i>Serialized format</i></p> <p>scalar<string> // default: "rds"</p> <p>Format for serialized data when storing chapter dataset. One of "rds" (default), "qs" or "fst". The latter two requires the respective packages to be installed. "qs" is usually the fastest and most space efficient, but sets package dependencies on the report project.</p>
max_path_warning_threshold	<p><i>Maximum number of characters in paths warning</i></p> <p>scalar<integer> // default: 260 (optional)</p> <p>Microsoft has set an absolute limit of 260 characters for its Sharepoint/OneDrive file paths. This will mean that files with cache (hash suffixes are added) will quickly breach this limit. When set, a warning will be returned if files are found to be longer than this threshold. Also note that spaces count as three characters due to its URL-conversion: %20. To avoid test, set to Inf</p>
log_file	<p><i>Path to log file</i></p> <p>scalar<string> // default: "_log.txt" (optional)</p> <p>Path to log file. Set to NULL to disable logging.</p>

Details

Note that saros treats data as they are stored: numeric, integer, factor, ordinal, character, and date-time. Currently, only factor/ordinal and character are implemented.

Value

The path-argument.

Examples

```
ex_survey_ch_structure <-
  refine_chapter_overview(
    chapter_overview = ex_survey_ch_overview,
    data = ex_survey
  )
index_filepath <-
  draft_report(
    chapter_structure = ex_survey_ch_structure,
    data = ex_survey,
    path = tempdir()
  )
```

 ex_survey

ex_survey: Mockup dataset of a survey.

Description

A dataset containing fake respondents' answers to survey questions. The first two, `x_sex` and `x_human`, are intended to be independent variables, whereas the remaining are dependent. The underscore `_` in variable names separates item groups (prefix) from items (suffix) (i.e. `a_1-a_9` => `a + 1-9`), whereas `' - '` separates the same for labels. The latter corresponds with the default in `SurveyXact`.

Usage

```
ex_survey
```

Format

A data frame with 100 rows and 29 variables:

x1_sex Gender

x2_human Is respondent human?

x3_nationality Where is the respondent born?

a_1 Do you consent to the following? - Agreement #1

a_2 Do you consent to the following? - Agreement #2

a_3 Do you consent to the following? - Agreement #3

a_4 Do you consent to the following? - Agreement #4

a_5 Do you consent to the following? - Agreement #5

a_6 Do you consent to the following? - Agreement #6

a_7 Do you consent to the following? - Agreement #7

a_8 Do you consent to the following? - Agreement #8

a_9 Do you consent to the following? - Agreement #9

b_1 How much do you like living in - Beijing

b_2 How much do you like living in - Brussels

b_3 How much do you like living in - Budapest

c_1 How many years of experience do you have in - Company A

c_2 How many years of experience do you have in - Company B

d_1 Rate your degree of confidence doing the following - Driving

d_2 Rate your degree of confidence doing the following - Drinking

d_3 Rate your degree of confidence doing the following - Driving

d_4 Rate your degree of confidence doing the following - Dancing

e_1 How often do you do the following? - Eat

- e_2** How often do you do the following? - Eavesdrop
- e_3** How often do you do the following? - Exercise
- e_4** How often do you do the following? - Encourage someone whom you have only recently met and who struggles with simple tasks that they cannot achieve by themselves
- p_1** To what extent do you agree or disagree to the following policies - Red Party
- p_2** To what extent do you agree or disagree to the following policies - Green Party
- p_3** To what extent do you agree or disagree to the following policies - Yellow Party
- p_4** To what extent do you agree or disagree to the following policies - Blue Party
- f_uni** Which of the following universities would you prefer to study at?
- open_comments** Do you have any comments to the survey?
- resp_status** Response status

ex_survey_ch_overview *ex_survey_ch_overview: Mock overview of chapter structure*

Description

Note that only chapter and dep are compulsory.

Usage

```
ex_survey_ch_overview
```

Format

A data frame with 5 rows (chapters) and 5 variables:

chapter Manual entry chapter title

author Single, or multiple authors separated by semicolon

dep Columns in ex_survey having the role of dependent variable

indep Columns in ex_survey having the role of independent variable

irrelevant_col Just a column about something else to verify that the system works also with superfluous information.

filename_sanitizer	<i>File/folder name sanitizer replacing space and punctuation with underscore</i>
--------------------	---

Description

File/folder name sanitizer replacing space and punctuation with underscore

Usage

```
filename_sanitizer(  
  x,  
  max_chars = NA_integer_,  
  accept_hyphen = FALSE,  
  sep = "_",  
  valid_obj = FALSE,  
  to_lower = FALSE,  
  make_unique = TRUE  
)
```

Arguments

x	Character vector of file/folder names
max_chars	Maximum character length
accept_hyphen	Flag, whether a hyphen - is acceptable.
sep	String, replacement for illegal characters and spaces.
valid_obj	Flag, whether output should be valid as R object name.
to_lower	Flag, whether to force all characters to lower.
make_unique	Flag, whether all should be unique.

Value

Character vector of same length as x

Examples

```
filename_sanitizer(c("Too long a name", "with invalid *^/&#"))
```

generate_yaml_from_directory
Generate YAML File from Directory Structure

Description

Generate YAML File from Directory Structure

Usage

```
generate_yaml_from_directory(  
    input_path = tempdir(),  
    output_yaml_path = "_project_structure_en.yaml",  
    remove_prefix_numbers = FALSE  
)
```

Arguments

input_path String. The path to the directory whose structure needs to be captured.
output_yaml_path String. The path where the YAML file will be saved.
remove_prefix_numbers Boolean. Whether to remove numeric prefixes and any resulting leading non-alphanumeric characters from folder names. Defaults to FALSE.

Value

No return value, called for side effects

Examples

```
generate_yaml_from_directory(  
    output_yaml_path =  
        tempfile("_project_structure_en", fileext = ".yaml")  
)
```

get_chunk_template_defaults
Get Global Options for Chunk Templates

Description

Get Global Options for Chunk Templates

Usage

```
get_chunk_template_defaults(variant = 1)
```

Arguments

variant Positive integer.

Value

List with options in R

Examples

```
get_chunk_template_defaults()
```

get_raw_labels	<i>Helper function to extract raw variable labels from the data</i>
----------------	---

Description

Helper function to extract raw variable labels from the data

Usage

```
get_raw_labels(data, col_pos = NULL, return_as_list = FALSE)
```

Arguments

data Dataset

col_pos Optional, character vector of column names or integer vector of positions

return_as_list Flag, whether to return as list or character vector

Value

List or character vector

```
initialize_saros_project
    Initialize Folder Structure
```

Description

Can be used programatically from the console, or simply use the New Project Wizard.

Usage

```
initialize_saros_project(
    path,
    structure_path = NULL,
    numbering_prefix = c("none", "max_local", "max_global"),
    numbering_inheritance = TRUE,
    word_separator = NULL,
    numbering_name_separator = " ",
    replacement_list = NULL,
    numbering_parent_child_separator = word_separator,
    case = c("asis", "sentence", "title", "lower", "upper", "snake"),
    count_existing_folders = FALSE,
    r_files_out_path = NULL,
    r_files_source_path = system.file("templates", "r_files.csv", package = "saros.base"),
    r_optionals = TRUE,
    r_add_file_scope = TRUE,
    r_prefix_file_scope = "### ",
    r_add_folder_scope_as_README = FALSE,
    create = TRUE
)
```

Arguments

path	String, path to where to create the project files
structure_path	String. Path to the YAML file that defines the folder structure. Defaults to system.file("templates", "_project_structure_en.yaml").
numbering_prefix	String. One of c("none", "max_local", "max_global").
numbering_inheritance	Flag. Whether to inherit numbering from parent folder.
word_separator	String. Replace separators between words in folder names. Defaults to NULL.
numbering_name_separator	String. Separator between numbering part and name.
replacement_list	named character vector. Each name in this vector will be replaced with its "{{value}}" in the structure_path file

numbering_parent_child_separator
String. Defaults to word_separator.

case
String. One of c("asis", "sentence", "lower", "upper", "title", "snake").

count_existing_folders
Boolean. Defaults to FALSE.

r_files_out_path
String, path to where to place R placeholder files. If NULL, will not create any.

r_files_source_path
String, path to where to find CSV-field containing the columns folder_name, folder_scope, file_name, file_scope. If NULL, defaults to system.file("templates", "r_files.csv").

r_optionals
Flag. Whether to add files marked as 1 (or TRUE) in the optional column. Defaults to TRUE.

r_add_file_scope
Flag. Whether to add value from column 'file_scope' to beginning of each file. Default to TRUE.

r_prefix_file_scope
String to add before file_scope. Defaults to "### "

r_add_folder_scope_as_README
Flag. Whether to create README file in each folder with the folder_scope column cell in r_files_source_path. Defaults to FALSE.

create
Boolean. Defaults to TRUE in initialize_saros_project(), FALSE in create_directory_structure().

Value

Returns invisibly path

Examples

```
initialize_saros_project(path = tempdir())
```

is_string	<i>Is x A String?</i>
-----------	-----------------------

Description

Returns TRUE if object is a character of length 1.

Usage

```
is_string(x)
```

Arguments

x Object

Value

Bool

```
read_default_draft_report_args
```

Read Default Arguments for `draft_report()` from YAML-file

Description

Read Default Arguments for `draft_report()` from YAML-file

Usage

```
read_default_draft_report_args(path)
```

Arguments

```
path          scalar<character> // Required. default: settings.yaml
```

Value

The defaults as a yaml-object.

Examples

```
tmpfile <- tempfile(fileext = ".yaml")
write_default_draft_report_args(path = tmpfile)
read_default_draft_report_args(path = tmpfile)
```

```
refine_chapter_overview
```

Processes A 'chapter_overview' Data Frame

Description

Processes A 'chapter_overview' Data Frame

Usage

```
refine_chapter_overview(
  chapter_overview = NULL,
  data = NULL,
  chunk_templates = NULL,
  label_separator = " - ",
  name_separator = NULL,
  single_y_bivariates_if_indep_cats_above = 3,
  single_y_bivariates_if_deps_above = 20,
  always_show_bi_for_indep = NULL,
  hide_bi_entry_if_sig_above = 1,
```

```

hide_chunk_if_n_below = 10,
hide_variable_if_all_na = TRUE,
organize_by = c("chapter", ".variable_label_prefix_dep", ".variable_name_indep",
  ".template_name"),
arrange_section_by = c(chapter = FALSE, .variable_name_dep = FALSE,
  .variable_name_indep = FALSE, .template_name = FALSE),
na_first_in_section = TRUE,
max_width_obj = 128,
max_width_chunk = 128,
max_width_file = 64,
max_width_folder_name = 12,
sep_obj = "_",
sep_chunk = "-",
sep_file = "-",
...,
progress = TRUE,
variable_group_dep = ".variable_group_dep",
variable_group_prefix = NULL,
n_range_glue_template_1 = "{n}",
n_range_glue_template_2 = "[{n[1]}-{n[2]})",
log_file = NULL
)

```

Arguments

chapter_overview
What goes into each chapter and sub-chapter
obj: <data.frame>|obj: <tbl_df> // Required
Data frame (or tibble, possibly grouped). One row per chapter. Should contain the columns 'chapter' and 'dep', optionally 'indep' (independent variables) and other informative columns as needed.

data
Survey data
obj: <data.frame>|obj: <tbl_df>|obj: <srvyr> // Required
A data frame (or a srvyr-object) with the columns specified in the chapter_structure 'dep', etc columns.

chunk_templates
Chunk templates
obj: <data.frame>|obj: <tbl_df>|NULL // default: NULL (optional)
Must contain columns name (user-specified unique name for the template), template (the chunk template as {glue}-specification, variable_type_dep and optionally variable_type_indep. The latter two are list-columns of prototype vectors specifying which data the template will be applied to. Can optionally contain columns whose names match the default options for the function. These will then override the default function-wide options for the specific template.

label_separator
Variable label separator
scalar<character> // default: NULL (optional)
String to split labels on main question and sub-items.

name_separator *Variable name separator*
 scalar<character> // default: NULL (optional)
 String to split column names in data between main question and sub-items

single_y_bivariates_if_indep_cats_above
Single y bivariates if indep-cats above ...
 scalar<integer> // default: 3 (optional)
 Figures and tables for bivariates can become very long if the independent variable has many categories. This argument specifies the number of indep categories above which only single y bivariates should be shown.

single_y_bivariates_if_deps_above
Single y bivariates if dep-vars above ...
 scalar<integer> // default: 20 (optional)
 Figures and tables for bivariates can become very long if there are many dependent variables in a battery/question matrix. This argument specifies the number of dep variables above which only single y bivariates should be shown. Set to 0 to always show single y bivariates.

always_show_bi_for_indep
Always show bivariate for indep-variable
 vector<character> // default: NULL (optional)
 Specific combinations with a by-variable where bivariates should always be shown.

hide_bi_entry_if_sig_above
p-value threshold for hiding bivariate entry
 scalar<double> // default: 1 (optional)
 Whether to hide bivariate entry if significance is above this value. Defaults to showing all.

hide_chunk_if_n_below
Hide result if N below
 scalar<integer> // default: 10 (optional)
 Whether to hide result if N for a given dataset is below this value. NOTE: Exceptions will be made to chr_table and chr_plot as these are typically exempted in the first place. This might change in the future with a separate argument.

hide_variable_if_all_na
Hide variable from outputs if containing all NA
 scalar<boolean> // default: TRUE (optional)
 Whether to remove variables if all values are NA.

organize_by *Grouping columns*
 vector<character> // default: NULL (optional)
 Column names used for identifying chapters and sections.

arrange_section_by *Grouping columns*
 vector<character> or named vector<logical> // default: NULL (optional)
 Column names used for sorting section within each organize_by group. If character vector, will assume all are to be arranged in ascending order. If a named logical vector, FALSE will indicate ascending, TRUE descending. Defaults to

sorting in ascending order (alphabetical) for commonly needed variable name/label info, and in descending order for chunk_templates as one typically wants *univariates* before *bivariates*.

`na_first_in_section`
Whether to place NAs first when sorting
 scalar<logical> // default: TRUE (optional)
 Default ascending and descending sorting with `dplyr::arrange()` is to place NAs at the end. This would have placed *univariates* at the end, etc. Thus, `saros` places NAs first in the section. Set this to FALSE to override.

`max_width_obj`, `max_width_chunk`, `max_width_file`
Maximum object width
 scalar<integer> // default: NULL (optional)
 Maximum width for names of objects (in R/Python environment), chunks (# label:) and optional files. Note, will always replace variable labels with variable names, to avoid very long file names. Note for filenames: Due to OneDrive having a max path of about 400 characters, this can quickly be exceeded with a long path base path, long file names if using labels as part of structure, and hashing with Quarto's cache: true feature. Thus consider restricting `max_width_file` to lower than what you optimally would have wished for.

`max_width_folder_name`
Maximum clean folder name length
 scalar<integer> // default: NULL (optional)
 Whereas `max_width_file` truncates the file name, this argument truncates the folder name. It will not impact the report or chapter names in website, only the folders.

`sep_obj`, `sep_chunk`, `sep_file`
Separator string
 scalar<character> // default: "_" (optional)
 Separator to use between grouping variables. Defaults to underscore for object names and hyphen for chunk labels and file names.

...
Dynamic dots
 <dynamic-dots>
 Arguments forwarded to the corresponding functions that create the elements.

`progress`
Whether to display progress message
 scalar<logical> // default: TRUE
 Mostly useful when `hide_bi_entry_if_sig_above < 1`

`variable_group_dep`
Name for the variable_group_dep column
 scalar<string> // default: ".variable_group_dep"
 This column is used to group variables that are part of the same bivariate analysis.

`variable_group_prefix`
Set a prefix to more easily find it in your labels
 scalar<string> // default: NULL
 By default, the `.variable_group` column is just integers. If you wish to use this as part of your object/label/filename numbering scheme, a number by itself will not

be very informative. Hence you could set a prefix such as "Group" to distinguish this column from other columns in the chapter_structure.

```
n_range_glue_template_1, n_range_glue_template_2
  scalar<string> // default: "{n}" and "[{n[1]}, {n[2]}]" (optional)
  Glue templates for the n_range columns to be created.
```

```
log_file
  Path to log file
  scalar<string> // default: "_log.txt" (optional)
  Path to log file. Set to NULL to disable logging.
```

Value

Grouped tibble.

Examples

```
ref_df <- refine_chapter_overview(chapter_overview = ex_survey_ch_overview)

ref_df2 <- refine_chapter_overview(chapter_overview = ex_survey_ch_overview,
  data = ex_survey, hide_bi_entry_if_sig_above=.05)
```

```
setup_access_restrictions
```

Setup files needed for basic password-based access restriction for website

Description

Create a _headers file for 'Netlify' publishing or a set of .htaccess and .htpasswd files (FTP) placed in the specific subfolders.

Usage

```
setup_access_restrictions(
  remote_basepath = "/home/",
  local_basepath,
  rel_path_base_to_parent_of_user_restricted_folder = file.path("Reports", "2022",
    "Mesos"),
  warn = TRUE,
  local_main_password_path = ".main_htpasswd_public",
  username_folder_matching_df = NULL,
  universal_usernames = c("admin"),
  log_rounds = 12,
  append_users = TRUE,
  password_input = "prompt",
  type = c("netlify", "apache")
)
```

Arguments

remote_basepath	String. Folder where site will be located if using FTP-server. Needed for .htaccess-files.
local_basepath	String. Local folder for website, typically "_site".
rel_path_base_to_parent_of_user_restricted_folder	String, relative path from basepath to the folder where the restricted folders are located. (E.g. the "mesos"-folder)
warn	Flag. Whether to provide warning or error if paths do not exist.
local_main_password_path	String. Path to main file containing all usernames and passwords formatted with a colon between username and password.
username_folder_matching_df	Data frame. If NULL (default), will use folder names as usernames. Otherwise, a data frame with two columns: "folder" and "username" where "folder" is the name of the folder and "username" is the username for that folder.
universal_usernames	Character vector. Usernames in local_main_htpasswd_path which always have access to folder
log_rounds	Integer, number of rounds in the bcrypt algorithm. The higher the more time consuming and harder to brute-force.
append_users	Boolean, if TRUE (default) will create new users and add them to local_main_password_path. See also password_input.
password_input	String, either "prompt" which asks the user for input. Alternatively, a number stored as string for a generated random password of said length: "8", "10", "12", "16"
type	Character vector. "netlify" will create _headers file used for Netlify. "apache" will create .htaccess and .htpasswd files used for general FTP-servers.

Value

String, the path to the newly created _headers-file or .htaccess files.

write_default_draft_report_args

Write Default Arguments for `draft_report()` to YAML-file

Description

Write Default Arguments for `draft_report()` to YAML-file

Usage

```
write_default_draft_report_args(  
  path,  
  ignore_args = c("data", "...", "dep", "indep", "chapter_structure", "chapter_overview",  
                 "path")  
)
```

Arguments

path	scalar<character> // Required. <i>default</i> : settings.yaml
ignore_args	vector<character> // Optional. <i>default</i> : c("data", "...", "dep", "indep", "chapter_structure", "chapter_overview") A character vector of argument (names) not to be written to file.

Value

The defaults as a yaml-object.

Examples

```
write_default_draft_report_args(path = tempfile(fileext = ".yaml"))
```

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