

# Package ‘worcs’

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**Type** Package

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**Title** Workflow for Open Reproducible Code in Science

**Version** 0.1.5

**Description** Create reproducible and transparent research projects in 'R', with a minimal amount of code. This package is based on the Workflow for Open Reproducible Code in Science (WORCS), a step-by-step procedure based on best practices for Open Science. It includes an 'RStudio' project template, several convenience functions, and all dependencies required to make your project reproducible and transparent. WORCS is explained in the tutorial paper by Van Lissa, Brandmaier, Brinkman, Lamprecht, Struiksma, & Vreede (2020). <doi:10.17605/OSF.IO/ZCVBS>.

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add_manuscript	<i>Add Rmarkdown manuscript</i>
----------------	---------------------------------

---

### Description

Adds an Rmarkdown manuscript to a 'worcs' project.

### Usage

```
add_manuscript(
  worcs_directory = ".",
  manuscript = "APA6",
  remote_repo = "https",
  verbose = TRUE,
  ...
)
```

### Arguments

`worcs_directory`  
 Character, indicating the directory in which to create the manuscript files. Default: '.', which points to the current working directory.

manuscript	Character, indicating what template to use for the 'R Markdown' manuscript. Default: 'APA6'. Available choices include: "APA6", "github_document", "None", "ams_article", "a For more information about APA6, see the 'papaja' package, at < <a href="https://github.com/crsh/papaja">https://github.com/crsh/papaja</a> >. For more information about github_document, see <a href="#">github_document</a> . The remaining formats are documented in the 'rticles' package.
remote_repo	Character, 'https' link to the remote repository for this project. This link should have the form <code>https://[...].git</code> . This link will be inserted in the draft manuscript.
verbose	Logical. Whether or not to print messages to the console during project creation. Default: TRUE
...	Additional arguments passed to and from functions.

**Value**

No return value. This function is called for its side effects.

**Examples**

```
the_test <- "worcs_manuscript"
old_wd <- getwd()
dir.create(file.path(tempdir(), the_test))
file.create(file.path(tempdir(), the_test, ".worcs"))
add_manuscript(file.path(tempdir(), the_test),
               manuscript = "github_document")
setwd(old_wd)
unlink(file.path(tempdir(), the_test))
```

---

add\_preregistration     *Add Rmarkdown preregistration*

---

**Description**

Adds an Rmarkdown preregistration template to a 'worcs' project.

**Usage**

```
add_preregistration(
  worcs_directory = ".",
  preregistration = "COS",
  verbose = TRUE,
  ...
)
```

**Arguments**

worcs_directory	Character, indicating the directory in which to create the manuscript files. Default: '.', which points to the current working directory.
preregistration	Character, indicating what template to use for the preregistration. Default: "COS"; use "None" to omit a preregistration. See Details for other available choices.
verbose	Logical. Whether or not to print messages to the console during project creation. Default: TRUE
...	Additional arguments passed to and from functions.

**Details**

Available choices include the templates "COS", "VantVeer", "Brandt", "AsPredicted", which are imported from the [cos\\_prereg](#) package, and documented there. Furthermore, several unique templates are included with worcs:

- "PSS" Preregistration and Sharing Software (Kryptos, Klugkist, Mertens, & Engelhard, 2019)
- "Secondary" Preregistration for secondary analyses (Mertens & Kryptos, 2019)

**Value**

No return value. This function is called for its side effects.

**Examples**

```
the_test <- "worcs_prereg"
old_wd <- getwd()
dir.create(file.path(tempdir(), the_test))
file.create(file.path(tempdir(), the_test, ".worcs"))
add_preregistration(file.path(tempdir(), the_test),
                    preregistration = "COS")
setwd(old_wd)
unlink(file.path(tempdir(), the_test))
```

---

check\_worcs

*Evaluate project with respect to WORCS checklist*

---

**Description**

Evaluates whether a project meets the criteria of the WORCS checklist (see [worcs\\_checklist](#)).

**Usage**

```
check_worcs(path = ".", verbose = TRUE)
```

**Arguments**

path	Character. Path to a WORCS project folder (a project with a .worcs file). Default: '.' (path to current directory).
verbose	Logical. Whether or not to show status messages while evaluating the checklist. Default: TRUE.

**Value**

A data.frame with a description of the criteria, and a column with evaluations (\$pass). For criteria that must be evaluated manually, \$pass will be FALSE.

**Examples**

```
example_dir <- file.path(tempdir(), "badge")
dir.create(example_dir)
write("a", file.path(example_dir, ".worcs"))
check_worcs(path = example_dir)
```

---

cite\_all

*Comprehensive citation Knit function for 'RStudio'*


---

**Description**

This is a wrapper for [render](#). First, this function parses the citations in the document, converting citations marked with double at sign, e.g.: @@reference2020, into normal citations, e.g.: @reference2020. Then, it renders the file.

**Usage**

```
cite_all(...)
```

**Arguments**

... All arguments are passed to [render](#).

**Value**

Returns NULL invisibly. This function is called for its side effect of rendering an 'R Markdown' file.

**Examples**

```
# NOTE: Do not use this function interactively, as in the example below.
# Only specify it as custom knit function in an 'R Markdown' file, like so:
# knit: worcs::cite_all

file_name <- file.path(tempdir(), "citeall.Rmd")
loc <- rmarkdown::draft(file_name,
                        template = "github_document",
```

```
        package = "rmarkdown",
        create_dir = FALSE,
        edit = FALSE)
write(c("", "Optional reference: @reference2020"),
      file = file_name, append = TRUE)
cite_all(file_name)
```

---

cite\_essential

*Essential citations Knit function for 'RStudio'*

---

## Description

This is a wrapper for [render](#). First, this function parses the citations in the document, removing citations marked with double at sign, e.g.: @@reference2020. Then, it renders the file.

## Usage

```
cite_essential(...)
```

## Arguments

... All arguments are passed to [render](#).

## Value

Returns NULL invisibly. This function is called for its side effect of rendering an 'R Markdown' file.

## Examples

```
# NOTE: Do not use this function interactively, as in the example below.
# Only specify it as custom knit function in an R Markdown file, like so:
# knit: worcs::cite_all

file_name <- tempfile("citeessential", fileext = ".Rmd")
rmarkdown::draft(file_name,
                 template = "github_document",
                 package = "rmarkdown",
                 create_dir = FALSE,
                 edit = FALSE)
write(c("", "Optional reference: @reference2020"),
      file = file_name, append = TRUE)
cite_essential(file_name)
```

---

`closed_data`*Use closed data in WORCS project*

---

## Description

This function saves a data.frame as a .csv file (using [write.csv](#)), stores a checksum in '.worcs', appends the .gitignore file to exclude filename, and saves a synthetic copy of data for public use. To generate these synthetic data, the function [synthetic](#) is used.

## Usage

```
closed_data(  
  data,  
  filename = paste0(deparse(substitute(data)), ".csv"),  
  codebook = paste0("codebook_", deparse(substitute(data)), ".Rmd"),  
  worcs_directory = ".",  
  ...  
)
```

## Arguments

<code>data</code>	A data.frame to save.
<code>filename</code>	Character, naming the file data should be written to. By default, constructs a filename from the name of the object passed to data.
<code>codebook</code>	Character, naming the file the codebook should be written to. An 'R Markdown' codebook will be created and rendered to <a href="#">github_document</a> ('markdown' for 'GitHub'). By default, constructs a filename from the name of the object passed to data, adding the word 'codebook'. Set this argument to NULL to avoid creating a codebook.
<code>worcs_directory</code>	Character, indicating the WORCS project directory to which to save data. The default value "." points to the current directory.
<code>...</code>	Additional arguments passed to and from functions.

## Value

Returns NULL invisibly. This function is called for its side effects.

## See Also

`open_data` `closed_data` `save_data`

**Examples**

```
test_dir <- file.path(tempdir(), "data")
old_wd <- getwd()
dir.create(test_dir)
setwd(test_dir)
worcs::write_worcsfile(".worcs")
df <- iris[1:10, ]
closed_data(df, codebook = NULL)
setwd(old_wd)
unlink(test_dir, recursive = TRUE)
```

---

descriptives	<i>Describe a dataset</i>
--------------	---------------------------

---

**Description**

Provide descriptive statistics for a dataset.

**Usage**

```
descriptives(x, ...)
```

**Arguments**

x	An object for which a method exists.
...	Additional arguments.

**Value**

A data.frame with descriptive statistics for x.

**Examples**

```
descriptives(iris)
```

---

export_project	<i>Export project to .zip file</i>
----------------	------------------------------------

---

**Description**

Export project to .zip file

**Usage**

```
export_project(zipfile = NULL, worcs_directory = ".", open_data = TRUE)
```



**Arguments**

zipfile	Character. Path to a .zip file that is to be created. The default argument NULL creates a .zip file in the directory one level above the 'worcs' project directory. By default, all files tracked by 'Git' are included in the .zip file, excluding 'data.csv' if open_data = FALSE.
worcs_directory	Character. Path to the WORCS project directory to export. Defaults to ".", which refers to the current working directory.
open_data	Logical. Whether or not to include the original data, 'data.csv', if this file exists. If open_data = FALSE and an open data file does exist, then it is excluded from the .zip file. If it does not yet exist, a synthetic data set is generated and added to the .zip file.

**Value**

Logical, indicating the success of the operation. This function is called for its side effect of creating a .zip file.

**Examples**

```
export_project(worcs_directory = tempdir())
```

---

git_update	<i>Add, commit, and push changes.</i>
------------	---------------------------------------

---

**Description**

This function is a wrapper for [git\\_add](#), [git\\_commit](#), and [git\\_push](#). It adds all locally changed files to the staging area of the local 'Git' repository, then commits these changes (with an optional) message, and then pushes them to a remote repository. This is used for making a "cloud backup" of local changes. Do not use this function when working with privacy sensitive data, or any other file that should not be pushed to a remote repository. The [git\\_add](#) argument force is disabled by default, to avoid accidentally committing and pushing a file that is listed in .gitignore.

**Usage**

```
git_update(
  message = paste0("update ", Sys.time()),
  files = ".",
  repo = ".",
  author,
  committer,
  remote,
  refspect,
  password,
  ssh_key,
```

```

    mirror,
    force,
    verbose
)

```

### Arguments

message	a commit message
files	vector of paths relative to the git root directory. Use "." to stage all changed files.
repo	a path to an existing repository, or a git_repository object as returned by git_open, git_init or git_clone.
author	A git_signature value, default is git_signature_default.
committer	A git_signature value, default is same as author
remote	name of a remote listed in git_remote_list()
refspec	string with mapping between remote and local refs
password	a string or a callback function to get passwords for authentication or password protected ssh keys. Defaults to askpass which checks getOption('askpass').
ssh_key	path or object containing your ssh private key. By default we look for keys in ssh-agent and credentials::ssh_key_info.
mirror	use the <code>-mirror</code> flag
force	use the <code>-force</code> flag
verbose	display some progress info while downloading

### Value

No return value. This function is called for its side effects.

### Examples

```
git_update()
```

---

git_user	<i>Set global 'Git' credentials</i>
----------	-------------------------------------

---

### Description

This function is a wrapper for `git_config_global_set`. It sets two name/value pairs at once: name = "user.name" is set to the value of the name argument, and name = "user.email" is set to the value of the email argument.

### Usage

```
git_user(name, email, overwrite = !has_git_user(), verbose = TRUE)
```

**Arguments**

name	Character. The user name you want to use with 'Git'.
email	Character. The email address you want to use with 'Git'.
overwrite	Logical. Whether or not to overwrite existing 'Git' credentials. Use this to prevent code from accidentally overwriting existing 'Git' credentials. The default value uses <code>has_git_user</code> to set <code>overwrite</code> to FALSE if user credentials already exist, and to TRUE if no user credentials exist.
verbose	Logical. Whether or not to print status messages to the console. Default: TRUE

**Value**

No return value. This function is called for its side effects.

**Examples**

```
do.call(git_user, worcs:::get_user())
```

---

<code>has_git_user</code>	<i>Check whether global 'Git' credentials exist</i>
---------------------------	---

---

**Description**

Check whether the values `user.name` and `user.email` exist exist in the 'Git' global configuration settings. Uses `git_config_global`.

**Usage**

```
has_git_user()
```

**Value**

Logical, indicating whether 'Git' global configuration settings could be retrieved, and contained the values `user.name` and `user.email`.

**Examples**

```
has_git_user()
```

load\_data

*Load WORCS project data***Description**

Scans the WORCS project file for data that have been saved using [open\\_data](#) or [closed\\_data](#), and loads these data into the global (working) environment. The function will load the original data if available on the current system. If only a synthetic dataset is available, this function loads the synthetic data. The name of the object containing the data is derived from the file name by removing the file extension, and, when applicable, the prefix "synthetic\_". Thus, both "data.csv" and "synthetic\_data.csv" will be loaded into an object called data.

**Usage**

```
load_data(
  worcs_directory = ".",
  to_envir = TRUE,
  envir = parent.frame(1),
  verbose = TRUE
)
```

**Arguments**

worcs_directory	Character, indicating the WORCS project directory from which to load data. The default value "." points to the current directory.
to_envir	Logical, indicating whether to load objects directly into the environment, or return a <a href="#">list</a> containing the objects. The environment is designated by argument <code>envir</code> . Loading objects directly into the global environment is user-friendly, but has the risk of overwriting an existing object with the same name, as explained in <a href="#">load</a> . The function <code>load_data</code> gives a warning when this happens.
envir	The environment where the data should be loaded. The default value <code>parent.frame(1)</code> refers to the global environment in an interactive session.
verbose	Logical. Whether or not to print status messages to the console. Default: TRUE

**Value**

Returns a list invisibly. If `to_envir = TRUE`, this list contains the loaded data files. If `to_envir = FALSE`, the list is empty, and the loaded data files are attached directly to the global environment.

**Examples**

```
test_dir <- file.path(tempdir(), "loaddata")
old_wd <- getwd()
dir.create(test_dir)
setwd(test_dir)
worcs:::write_worcsfile(".worcs")
```

```
df <- iris[1:5, ]
suppressWarnings(closed_data(df, codebook = NULL))
load_data()
data
rm("data")
file.remove("data.csv")
load_data()
data
setwd(old_wd)
unlink(test_dir, recursive = TRUE)
```

---

make\_codebook

*Create codebook for a dataset*


---

## Description

Creates a codebook for a dataset in 'R Markdown' format, and renders it to 'markdown' for 'GitHub'. Users can customize the 'R Markdown' document and re-knit it, for example, to add a paragraph with details on the data collection procedures. The variable descriptives are stored in a .csv file, which can be edited in 'R' or a spreadsheet program. Columns can be appended, and we encourage users to complete at least the following two columns in this file:

- category Describe the type of variable in this column. For example: "morality".
- description Provide a plain-text description of the variable. For example, the full text of a questionnaire item: "People should be willing to do anything to help a member of their family".

Re-knitting the 'R Markdown' file (using [render](#)) will transfer these changes to the 'markdown' file for 'GitHub'.

## Usage

```
make_codebook(
  data,
  filename = "codebook.Rmd",
  render_file = TRUE,
  csv_file = gsub("Rmd$", "csv", filename),
  verbose = TRUE
)
```

## Arguments

data	A data.frame for which to create a codebook.
filename	Character. File name to write the codebook rmarkdown file to.
render_file	Logical. Whether or not to render the document.
csv_file	Character. File name to write the codebook rmarkdown file to. By default, uses the filename stem of the filename argument. Set to NULL to write the codebook only to the 'R Markdown' file, and not to .csv.
verbose	Logical. Whether or not to print status messages to the console. Default: TRUE

**Value**

Logical, indicating whether or not the operation was successful. This function is mostly called for its side effect of rendering an 'R Markdown' codebook.

**Examples**

```
library(rmarkdown)
library(knitr)
filename <- tempfile("codebook", fileext = ".Rmd")
make_codebook(iris, filename = filename, csv_file = NULL)
unlink(c(
  ".worcs",
  filename,
  gsub("\\.Rmd", "\\md", filename),
  gsub("\\.Rmd", "\\html", filename),
  gsub("\\.Rmd", "_files", filename)
), recursive = TRUE)
```

---

open\_data

*Use open data in WORCS project*


---

**Description**

This function saves a data.frame as a .csv file (using [write.csv](#)), stores a checksum in '.worcs', and amends the .gitignore file to exclude filename.

**Usage**

```
open_data(
  data,
  filename = paste0(deparse(substitute(data)), ".csv"),
  codebook = paste0("codebook_", deparse(substitute(data)), ".Rmd"),
  worcs_directory = ".",
  ...
)
```

**Arguments**

data	A data.frame to save.
filename	Character, naming the file data should be written to. By default, constructs a filename from the name of the object passed to data.
codebook	Character, naming the file the codebook should be written to. An 'R Markdown' codebook will be created and rendered to <a href="#">github_document</a> ('markdown' for 'GitHub'). By default, constructs a filename from the name of the object passed to data, adding the word 'codebook'. Set this argument to NULL to avoid creating a codebook.

`worcs_directory` Character, indicating the WORCS project directory to which to save data. The default value "." points to the current directory.  
`...` Additional arguments passed to and from functions.

**Value**

Returns NULL invisibly. This function is called for its side effects.

**See Also**

`open_data` `closed_data` `save_data`

**Examples**

```

test_dir <- file.path(tempdir(), "data")
old_wd <- getwd()
dir.create(test_dir)
setwd(test_dir)
worcs::write_worcsfile(".worcs")
df <- iris[1:5, ]
open_data(df, codebook = "bla.Rmd")
setwd(old_wd)
unlink(test_dir, recursive = TRUE)
  
```

---

skew_kurtosis	<i>Calculate skew and kurtosis</i>
---------------	------------------------------------

---

**Description**

Calculate skew and kurtosis, standard errors for both, and the estimates divided by two times the standard error. If this latter quantity exceeds an absolute value of 1, the skew/kurtosis is significant. With very large sample sizes, significant skew/kurtosis is common.

**Usage**

```
skew_kurtosis(x, verbose = FALSE, se = FALSE, ...)
```

**Arguments**

`x` An object for which a method exists.  
`verbose` Logical. Whether or not to print messages to the console, Default: FALSE  
`se` Whether or not to return the standard errors, Default: FALSE  
`...` Additional arguments to pass to and from functions.

**Value**

A matrix of skew and kurtosis statistics for `x`.

**Examples**

```
skew_kurtosis(datasets::anscombe)
```

---

 synthetic

*Generate synthetic data*


---

**Description**

Generates a synthetic version of a `data.frame`, with similar characteristics to the original. See Details for the algorithm used.

**Usage**

```
synthetic(
  data,
  model_expression = ranger(x = x, y = y),
  predict_expression = predict(model, data = xsynth)$predictions,
  missingness_expression = NULL,
  verbose = TRUE
)
```

**Arguments**

<code>data</code>	A <code>data.frame</code> of which to make a synthetic version.
<code>model_expression</code>	An R-expression to estimate a model. Defaults to <code>ranger(x = x, y = y)</code> , which uses the fast implementation of random forests in <a href="#">ranger</a> . The expression is evaluated in an environment containing objects <code>x</code> and <code>y</code> , where <code>x</code> is a <code>data.frame</code> with the predictor variables, and <code>y</code> is a vector of outcome values (see Details).
<code>predict_expression</code>	An R-expression to generate predicted values based on the model estimated by <code>model_expression</code> . Defaults to <code>predict(model, data = xsynth)\$predictions</code> . This expression must return a vector of predicted values. The expression is evaluated in an environment containing objects <code>model</code> and <code>xsynth</code> , where <code>model</code> is the model estimated by <code>model_expression</code> , and <code>xsynth</code> is the <code>data.frame</code> of synthetic data used to predict the next column (see Details).
<code>missingness_expression</code>	Optional. An R-expression to impute missing values. Defaults to <code>NULL</code> , which means listwise deletion is used. The expression is evaluated in an environment containing the object <code>data</code> , as specified in the call to <code>synthetic</code> . It must return a <code>data.frame</code> with the same dimensions and column names as the original data. For example, use <code>missingness_expression = missRanger::missRanger(data = data)</code> for a fast implementation of the excellent 'missForest' single imputation technique.
<code>verbose</code>	Logical, Default: <code>TRUE</code> . Whether to show a progress bar while running the algorithm and provide informative messages.



## Details

This function uses a simple algorithm to generate a synthetic dataset with similar characteristics to the original. The algorithm is as follows:

1. Let `x` be the original `data.frame`, with columns `1:j`
2. Let `xsynth` be a synthetic `data.frame`, with columns `1:j`
3. Column `1` of `xsynth` is a bootstrapped version of column `1` of `x`
4. Using `model_expression`, a predictive model is built for column `c`, for `c` along `2:j`, with `c` predicted from columns `1:(c-1)` of the original data.
5. Using `predict_expression`, columns `1:(c-1)` of the synthetic data are used to predict synthetic values for column `c`.

Variables are thus imputed in order of occurrence in the `data.frame`. To impute in a different order, reorder the data.

Note that, for data synthesis to work properly, it is essential that the `class` of variables is defined correctly. The default algorithm `ranger` supports numeric, integer, and factor types. Other types of variables should be converted to one of these types, or users can use a custom `model_expression` when calling `synthetic`.

## Value

A `data.frame` with synthetic data, based on `data`.

## Examples

```
iris_syn <- synthetic(iris)
iris_missings <- iris
for(i in 1:10){
  iris_missings[sample.int(nrow(iris_missings), 1, replace = TRUE),
                 sample.int(ncol(iris_missings), 1, replace = TRUE)] <- NA
}
iris_miss_syn <- synthetic(iris_missings)
```

---

worcs\_badge

*Add WORCS badge to README.md*

---

## Description

Evaluates whether a project meets the criteria of the WORCS checklist (see [worcs\\_checklist](#)), and adds a badge to the project's `README.md`.

## Usage

```
worcs_badge(
  path = ".",
  update_readme = "README.md",
  update_csv = "checklist.csv"
)
```

**Arguments**

path	Character. This can either be the path to a WORCS project folder (a project with a <code>.worcs</code> file), or the path to a <code>checklist.csv</code> file. The latter is useful if you want to evaluate a manually updated checklist file. Default: <code>'.'</code> (path to current directory).
update_readme	Character. Path to the <code>README.md</code> file to add the badge to. Default: <code>'README.md'</code> . Set to <code>NULL</code> to avoid updating the <code>README.md</code> file.
update_csv	Character. Path to the <code>README.md</code> file to add the badge to. Default: <code>'checklist.csv'</code> . Set to <code>NULL</code> to avoid updating the <code>checklist.csv</code> file.

**Value**

No return value. This function is called for its side effects.

**Examples**

```
example_dir <- file.path(tempdir(), "badge")
dir.create(example_dir)
write("a", file.path(example_dir, ".worcs"))
worcs_badge(path = example_dir,
  update_readme = NULL)
```

---

worcs_checklist	<i>WORCS checklist</i>
-----------------	------------------------

---

**Description**

This checklist can be used to see whether a project adheres to the principles of open reproducible code in science, as set out in the WORCS paper.

**Usage**

```
data(worcs_checklist)
```

**Format**

A data frame with 15 rows and 5 variables.

**Details**

<b>category</b>	factor	Category of the checklist element.
<b>name</b>	factor	Name of the checklist element.
<b>description</b>	factor	What are the requirements to claim that this checklist element is met?
<b>importance</b>	factor	Whether the checklist element is essential to obtain a green 'open science' badge, or optional.
<b>check</b>	logical	Whether the criterion is checked automatically by <code>worcs_badge</code> .

## References

Van Lissa, C. J., Brandmaier, A. M., Brinkman, L., Lamprecht, A., Peikert, A., , Struiksma, M. E., & Vreede, B. (2020) <doi:10.17605/OSF.IO/ZCVBS>.

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worcs_project	<i>Create new WORCS project</i>
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## Description

Creates a new 'worcs' project. This function is invoked by the 'RStudio' project template manager, but can also be called directly to create a WORCS project through syntax or the console.

## Usage

```
worcs_project(
  path = "worcs_project",
  manuscript = "APA6",
  preregistration = "COS",
  add_license = "CC_BY_4.0",
  use_renv = TRUE,
  remote_repo = "https",
  verbose = TRUE,
  ...
)
```

## Arguments

path	Character, indicating the directory in which to create the 'worcs' project. Default: 'worcs_project'.
manuscript	Character, indicating what template to use for the 'R Markdown' manuscript. Default: 'APA6'. Available choices include: "APA6", "github_document", "None", "ams_article", "a For more information, see <a href="#">add_manuscript</a> .
preregistration	Character, indicating what template to use for the preregistration. Default: 'COS'. Available choices include: "COS", "VantVeer", "Brandt", "AsPredicted", "PSS", "Secondary", "None For more information, see <a href="#">add_preregistration</a> .
add_license	Character, indicating what license to include. Default: 'CC_BY_4.0'. Available options include: "CC_BY_4.0", "CC_BY-SA_4.0", "CC_BY-NC_4.0", "CC_BY-NC-SA_4.0", "CC_BY-ND_4.0 For more information, see < <a href="https://creativecommons.org/licenses/">https://creativecommons.org/licenses/</a> >.
use_renv	Logical, indicating whether or not to use 'renv' to make the project reproducible. Default: TRUE. See <a href="#">init</a> .

remote_repo	Character, 'https' link to the remote repository for this project. This link should have the form <code>https://[...].git</code> . If a valid remote repository link is provided, a commit will be made containing the 'README.md' file, and will be pushed to the remote repository. Default: 'https'. When no 'https' address is provided, an 'SSH' address of the form <code>git@[...].git</code> is also accepted.
verbose	Logical. Whether or not to print messages to the console during project creation. Default: TRUE
...	Additional arguments passed to and from functions.

### Value

No return value. This function is called for its side effects.

### Examples

```
the_test <- "worcs_template"
old_wd <- getwd()
dir.create(file.path(tempdir(), the_test))
do.call(git_user, worcs:::get_user())
worcs_project(file.path(tempdir(), the_test, "worcs_project"),
              manuscript = "github_document",
              preregistration = "None",
              add_license = "None",
              use_renv = FALSE,
              remote_repo = "https")
setwd(old_wd)
unlink(file.path(tempdir(), the_test))
```

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