Package 'reportfactory'

July 23, 2025

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Title Lightweight Infrastructure for Handling Multiple R Markdown Documents
Version 0.4.0
Description Provides an infrastructure for handling multiple R Markdown reports, including automated curation and time-stamping of outputs, parameterisation and provision of helper functions to manage dependencies.
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URL https://github.com/reconverse/reportfactory
BugReports https://github.com/reconverse/reportfactory/issues
Encoding UTF-8
RoxygenNote 7.1.1
Suggests testthat, covr
Imports rprojroot, fs, rmarkdown, utils, yaml, callr, rstudioapi, knitr
SystemRequirements pandoc (>= 1.14) - http://pandoc.org
Config/testthat/edition 3
NeedsCompilation no
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Repository CRAN
Date/Publication 2021-08-09 12:30:02 UTC
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Description

Compile one or several R Markdown reports

Usage

```
compile_reports(
  reports = NULL,
  factory = ".",
  ignore.case = FALSE,
  params = NULL,
  quiet = TRUE,
  subfolder = NULL,
  timestamp = format(Sys.time(), "%Y-%m-%d_T%H-%M-%S"),
  ...
)
```

Arguments

reports	Either a regular expression (passed directly to grep()) that matches to the report paths you would like to compile or an integer/logical vector. If reports is an integer or logical vector then a call of compile_reports(factory, reports = idx) is equivalent to compile_reports(factory, list_reports(factory)[idx]).
factory	The path to the report factory or a folder within the desired factory. Defaults to the current directory.
ignore.case	if FALSE (default), the report pattern matching is case sensitive and if TRUE, case is ignored during matching.
params	A named list of parameters to be used for compiling reports, passed to rmarkdown::render() as the params argument. Values specified here will take precedence over default values specified in YAML headers of the reports. Note that the set of parameter is used for all compiled reports.
quiet	A logical indicating if messages from R Markdown compilation should be displayed; TRUE by default.
subfolder	Name of subfolder to store results. Not required but helps distinguish output if mapping over multiple parameters. If provided, "subfolder" will be placed before the timestamp when storing compilation outputs.

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timestamp A character indicating the date-time format to be used for timestamps. Times-

tamps are used in the folder structure of outputs. If NULL, the format format(Sys.time(), "%Y-%m-%d_T%H-%M-%S") will be used. Note that the timestamp corresponds to the time of the call to compile_reports(), so that multiple reports compiled using a single call to the function will have identical times-

tamps.

. further arguments passed to rmarkdown::render()

Value

Invisble NULL (called for side effects only).

factory_overview

Generate an overview of a report factory

Description

Print contents of directories in a tree-like format.

Usage

```
factory_overview(path = ".", ...)
```

Arguments

path The path to the report factory or a folder within the desired factory. Defaults to

the current directory.

... Additional arguments passed to fs::dir_tree().

Value

Invisibly returns a character of the files and directories within the desired folder.

install_deps

Install dependencies of reports within

Description

This function can be used to install package dependencies based on the reports within the factory.

Usage

```
install_deps(factory = ".", update = FALSE, ...)
```

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Arguments

factory The path to the report factory or a folder within the desired factory. Defaults to

the current directory.

update A logical indicating if packages which are already installed should be re-installed

(TRUE); otherwise, only missing packages are installed; defaults to FALSE.

... Arguments to be passed to install.packages().

Value

Invisble NULL (called for side effects only).

See Also

list_deps() to list dependencies of packages

list_deps

List dependencies of reports within a factory

Description

List package dependencies based on the reports and scripts within the report_sources and scripts directories respectively.

Usage

```
list_deps(
  factory = ".",
  missing = FALSE,
  check_r = TRUE,
  exclude_readme = TRUE,
  parse_first = FALSE
)
```

Arguments

factory The path to the report factory or a folder within the desired factory. Defaults to

the current directory.

missing A logical indicating if only missing dependencies should be listed (TRUE); oth-

erwise, all packages needed in the reports are listed; defaults to FALSE.

check_r If true, R scripts contained within the factory will also be checked. Note that

this will error if the script cannot be parsed.

parse_first If TRUE code will first be parsed for validity and unevaluated Rmd chunks will

not be checked for dependencies. The default value is FALSE and, in this case, files will simply be checked line by line for calls to library, require or use of

double, ::, and triple, ::: function calls.

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Value

A character vector of package dependencies.

Note

This function requires that any R scripts present in the factory are valid syntax else the function will error.

list_outputs

List outputs of the factory

Description

This function can be used to list available report outputs stored in the factory, in inside the outputs folder (or any subfolder within).

Usage

```
list_outputs(factory = ".", pattern = NULL, ...)
```

Arguments

The path to the report factory or a folder within the desired factory. Defaults to factory the current directory. An optional regular expression used to look for specific patterns in report names. pattern

additional parameters to pass to grep()

Value

A character vector containing the names of the reports in the specified factory (empty if there were no files).

list_reports

List reports in the factory

Description

This function can be used to list available reports stored in the factory, in inside the report_sources folder (or any subfolder within).

Usage

```
list_reports(factory = ".", pattern = NULL, ...)
```

new_factory

Arguments

The path to the report factory or a folder within the desired factory. Defaults to the current directory.

An optional regular expression used to look for specific patterns in report names.

additional parameters to pass to grep()

Value

A character vector containing the names of the reports in the specified factory (empty if there were no files).

new_factory

Create a new report factory

Description

This function can be used to create a new report factory. By default, the factory is created with a template of report, and the working environment is moved to the newly created factory.

Usage

```
new_factory(
  factory = "new_factory",
  path = ".",
  report_sources = "report_sources",
  outputs = "outputs",
  move_in = TRUE,
   create_README = TRUE,
   create_example_report = TRUE,
   create_data_folders = TRUE,
   create_scripts_folder = TRUE,
   use_here = TRUE,
   use_rproj = TRUE,
   create_gitignore = TRUE
```

Arguments

factory The name of the report factory to be created.

path The folder where the report factory should be created. This will default to the

current directory.

report_sources The name of the folder to be used for report templates; defaults to 'report_sources'.

outputs The name of the folder to be used for saving the built reports; defaults to 'out-

puts/'.

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move_in A logical indicating if the current session should move into the created factory;

 $\label{thm:continuous} \mbox{defaults to TRUE. If use_rproj is also TRUE and RS tudio is being used then the}$

corresponding project will be opened.

create_README A logical indicating if a 'README' file should be created; defaults to TRUE. create_example_report

A logical indicating if new_factory() should create an example report in the 'report_sources' folder along with some example data in the 'data/raw' folder; defaults to TRUE.

create_data_folders

a logical indicating if new_factory() should create folders to store data; defaults to TRUE.

create_scripts_folder

a logical indicating if new_factory() should create folders to store R scripts; defaults to TRUE.

defaults to TROE.

 $\hbox{use_here} \qquad \hbox{a logical indicating if new_factory() should create a .here file that can be} \\$

used with here::here(); defaults to TRUE.

use_rproj a logical indicating if new_factory() should create a .Rproj file that can be

used with RStudio; defaults to TRUE.

create_gitignore

a logical indicating if new_factory() should create a minimal '.gitignore' file; defaults to TRUE.

Details

Assuming the default names are used then new_factory will create a report factory folder (called "new_factory") that includes:

- report_sources: a folder for storing the .Rmd reports
- outputs: a folder storing the compiled reports
- factory_config: a control file used to anchor a report factory

Depending on the values of the logical arguments, the factory may also include:

- README . md: Example README with instructions on how to use report factory.
- .gitignore: a file used to tell git to ignore certain files including the produced outputs in outputs().
- data/raw/: a folder for storing raw data
- data/raw/example_data.csv: a set of data for use with the example report
- data/clean/: a folder for storing cleaned data
- scripts/: a folder to store additional code that may be called in reports
- report_sources/example_report.Rmd: an example .Rmd report template
- .here: a file to anchor calls to here::here()

Value

the report factory folder location (invisibly)

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Examples

```
f1 <- new_factory("new_factory_1", move_in = FALSE)
f2 <- new_factory("new_factory_2", move_in = TRUE)</pre>
```

validate_factory

Inspect and validate the content of a factory

Description

validate_factory() can be used to inspect the content of a factory and make everything looks fine. This includes various sanity checks listed in details that will error if a problem is found.

Usage

```
validate_factory(factory = ".")
```

Arguments

factory

The path to the report factory or a folder within the desired factory. Defaults to the current directory.

Details

Checks run on the factory include:

- the factory directory exists;
- the factory_config file exist;
- all mandatory folders exist by default these are 'report_sources/' and 'outputs/';

Value

A list with 4 entries:

- root the root folder path of the factory;
- factory_name the name of the report factory;
- report_sources the name of the report_sources folder; and
- outputs the name of the outputs folder.

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