Package: mighty.component (via r-universe)

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Title Mighty Components for ADaM Generation

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Description Reusable code templates (components) for the 'mighty' framework, used to generate Analysis Data Model (ADaM) programs. Components are 'Mustache' templates documented with 'roxygen2'-like tags. They can be retrieved from local directories, 'GitHub' or URLs, rendered with study-specific parameters, validated, evaluated, and unit tested with code coverage.

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`find_component` *Find a component*

Description

Find a component in one or more repos. Returns `NULL` if no repo contains it, while `get_component()` raises an error. Local repo directories must exist, otherwise an error is raised.

Usage

```
find_component(component, repos = NULL)
```

Arguments

`component`	`character(1)` Component name. If `repos` is `NULL`, path to a component file.
`repos`	Where to look. One of: • `NULL` (default): `component` is a file path. • `character` vector of repo specs, in priority order. See `mighty_repo()`. • A `mighty_repo_class` object. • A `list` of repo specs or `mighty_repo_class` objects, in priority order. • A `mighty_repos()` collection. Character vectors and lists are converted once with `mighty_repos()`.

Value

A mighty_component object, or NULL if no repo contains the component.

See Also

get_component(), list_components()

Examples

```
path <- system.file("examples", package = "mighty.component")
find_component("ady", repos = path)

find_component("does_not_exist", repos = path)
```

---

get_component *Retrieve a component*

Description

- get_component(): Find a component. Raises an error if it is not found.
- get_rendered_component(): Find a component and render it with params.

Usage

```
get_component(component, repos = NULL)

get_rendered_component(component, params = list(), repos = NULL)
```

Arguments

component	character(1) Component name. If repos is NULL, path to a component file.
repos	Where to look. One of: • NULL (default): component is a file path. • character vector of repo specs, in priority order. See mighty_repo(). • A mighty_repo_class object. • A list of repo specs or mighty_repo_class objects, in priority order. • A mighty_repos() collection. Character vectors and lists are converted once with mighty_repos().
params	named list of parameters passed to $render(). See the component's @param tags (component$params).

Details

Components are .mustache or .R files. Both use the tags described in mighty_component.

- .mustache files are Mustache templates.
- .R files are plain R components. They cannot have @param tags or Mustache placeholders.

Value

- `get_component()`: A mighty_component object.
- `get_rendered_component()`: A mighty_component_rendered object.

See Also

`find_component()`, mighty_component, mighty_component_rendered

Examples

```
path <- system.file("examples", "ady.mustache", package = "mighty.component")
get_component(path)

get_rendered_component(
  component = path,
  params = list(domain = "ADAE", variable = "ASTDY", date = "ASTDT")
)

# Find by name in a repo
repo <- system.file("examples", package = "mighty.component")
get_component("ady", repos = repo)
```

---

get_test_component *Create a test component*

Description

Retrieve and render a component as a mighty_component_test object, for unit tests with code coverage. See mighty_component_test for the workflow.

Requires the callr and covr packages.

Usage

```
get_test_component(
  component,
  params = list(),
  repos = NULL,
  check_coverage = TRUE,
  teardown_env = parent.frame()
)
```

Arguments

component	`character(1)` Component name. If `repos` is `NULL`, path to a component file.
params	named `list` of parameters passed to `$render()`. See the component's `@param` tags (`component$params`).

repos	Where to look. One of: • NULL (default): component is a file path. • character vector of repo specs, in priority order. See mighty_repo(). • A mighty_repo_class object. • A list of repo specs or mighty_repo_class objects, in priority order. • A mighty_repos() collection. Character vectors and lists are converted once with mighty_repos().
check_coverage	logical(1) If TRUE (default), $check_coverage() runs when teardown_env ends. It raises an error if any line has not run.
teardown_env	Environment that controls when the coverage check runs. Defaults to the calling environment, e.g. the test_that() block.

Value

A mighty_component_test object.

See Also

get_rendered_component(), mighty_component_test

Examples

```
path <- system.file("examples", "ady.mustache", package = "mighty.component")
x <- get_test_component(
  component = path,
  params = list(domain = "adae", variable = "ASTDY", date = "ASTDT"),
  check_coverage = FALSE
)

adae <- data.frame(
  TRTSDT = as.Date("2024-01-01"),
  ASTDT = as.Date(c("2024-01-01", "2024-01-10"))
)

x$assign("adae", adae)$eval()
x$get("adae")
x$percent_coverage
x$close()
```

---

list_components *List components in repos*

Description

List the components in one or more repos. See mighty_repo() for the component layout. Files starting with test- are not listed.

Usage

```
list_components(repos, as = c("character", "list", "tibble"))
```

Arguments

repos	Where to look. One of: • `character` vector of repo specs. See `mighty_repo()`. • A `mighty_repo_class` object. • A `list` of repo specs or `mighty_repo_class` objects. • A `mighty_repos()` collection. Character vectors and lists are converted once with `mighty_repos()`.
as	Format to list the components in: • `"character"`: component names (filenames without extension). • `"list"`: metadata for each component. • `"tibble"`: metadata for each component as a tibble. Requires the `tibble` and `tidyr` packages. When a component exists in several repos, the metadata is taken from the first repo, as in `find_component()`.

Value

Depending on `as`:

- `"character"`: `character` vector of unique component names.
- `"list"`: `list` with one element per component, each a named `list` with `id`, `title`, `description`, `type`, `origin`, `method`, `params`, `depends`, `outputs` and `code`.
- `"tibble"`: tibble with one row per component and the same columns.

See Also

`get_component()`, `find_component()`

Examples

```
path <- system.file("examples", package = "mighty.component")
list_components(path)

list_components(path, as = "list") |>
  str(max.level = 2)
```

mighty.component-options *Options for mighty.component*

Description

verbosity_level:

Verbosity level for functions in mighty.component. See zephyr::verbosity_level for details.

- Default: `NA_character_`
- Option: `mighty.component.verbosity_level`
- Environment: `R_MIGHTY.COMPONENT_VERBOSITY_LEVEL`

max_tries:

Maximum number of attempts for GitHub and URL requests. See `mighty_repo_github()` and `mighty_repo_url()` for which errors are retried.

- Default: `3L`
- Option: `mighty.component.max_tries`
- Environment: `R_MIGHTY.COMPONENT_MAX_TRIES`

timeout:

Maximum number of seconds per URL request attempt. See `mighty_repo_url()`.

- Default: `5`
- Option: `mighty.component.timeout`
- Environment: `R_MIGHTY.COMPONENT_TIMEOUT`

mighty_component *Mighty component class*

Description

R6 class for a component.

A component is a code template. Its code takes an input data set and returns a modified version with new or changed columns or rows. Components are documented with roxygen-like tags.

Use `get_component()` to create a component from a file or repo.

Details

Templates:

A template starts with tags in roxygen comments (`#'`). All lines below the `@code` tag are the R code.

Templates use Mustache placeholders. `$render()` fills them in with `whisker::whisker.render()`.

- `{{{name}}}` inserts the value of parameter `name`. Always use triple braces. Double braces (`{{name}}`) HTML-escape the value, e.g. `a<b` becomes `a<b`.
- `{{#name}}...{{/name}}` repeats the enclosed text for each element of the vector `name`. Use `{{{.}}}` to insert the current element.

Tags:

A tag continues until the next tag. Required tags must appear exactly once.

Tag	Required	Description	Example
`@title`	Yes	Title of the component.	`@title Double a column`
`@description`	Yes	Description of the component.	`@description Creates a new column.`
`@param`	No	Name, then description. One per placeholder.	`@param domain ‘character‘ Name of the`
`@type`	Yes	Component type. See *Types* below.	`@type column`
`@origin`	Yes	CDISC origin. See allowed values below.	`@origin Derived`
`@method`	Yes	Free-text method description for define.xml.	`@method Two times the input column`
`@depends`	No	Input domain, then column. Repeat for each.	`@depends {{{domain}}} USUBJID`
`@outputs`	No	Column created. Repeat for each.	`@outputs {{{output}}}`
`@code`	Yes	Last tag. All lines below are the code.	`@code`

`@origin` must be one of `Assigned`, `Collected`, `Derived`, `Not Available`, `Other`, `Predecessor`, `Protocol`.
`@depends` is split at the first space into domain and column. Do not use spaces inside its placeholders, e.g. use `{{{domain}}}`, not `{{{ domain }}}`.

Types:

- `column`: Adds or modifies columns. The row count is unchanged.
- `row`: Adds, removes or modifies rows.
- `parameter`: Derives a new `PARAMCD` (BDS parameter).
- `internal`: Helper step with no define.xml output.

Conventions:

1. The input data set is `{{{domain}}}`.
2. The code assigns the result back to `{{{domain}}}`.
3. Every placeholder is declared with `@param`.
4. Functions are called with explicit namespaces, e.g. `dplyr::mutate()`.
5. Joins specify `by`. This is enforced when rendering.

Validation:

When a component is rendered, the code is parsed and must be valid R. Joins from dplyr, tidylog and dbplyr without a `by` argument raise an error. Column existence is not checked.

Example:

This template creates a new column `output` as two times the existing column `input`:

```
#' @title Double a column
#' @description
#' Creates a new column as two times an existing column.
#'
#' @param domain `character` Name of the domain
#' @param output `character` Name of the new column
#' @param input `character` Name of the existing column
#' @type column
#' @origin Derived
#' @method Two times the input column
#' @depends {{{domain}}} {{{input}}}
#' @outputs {{{output}}}
#' @code
{{{domain}}} <- {{{domain}}} |>
  dplyr::mutate(
    {{{output}}} = 2 * {{{input}}}
  )
```

Rendered with `domain = "ADSL"`, `output = "A"` and `input = "B"`, the code (`$code`) is:

```
ADSL <- ADSL |>
  dplyr::mutate(
    A = 2 * B
  )
```

The tags are rendered too, e.g. `$depends` has domain `ADSL` and column `B`.

Active bindings

`id character(1)` Component name without file extension.

`title character(1)` Title of the component.

`description character(1)` Description of the component.

`code character` Lines below `@code`.

`template character` Full template.

`type character(1)` Component type. One of `column`, `row`, `parameter`, `internal`.

`origin character(1)` CDISC origin. One of `Assigned`, `Collected`, `Derived`, `Not Available`, `Other`, `Predecessor`, `Protocol`.

`method character(1)` Method description for define.xml.

`depends data.frame` with columns `domain` and `column`.

`outputs character` Columns created by the component.

`params data.frame` with columns `name` and `description`.

Methods

Public methods:

- mighty_component$new()
- mighty_component$print()
- mighty_component$render()
- mighty_component$document()
- mighty_component$clone()

`mighty_component$new()`: Create a component from a template.

Usage:

```
mighty_component$new(template, id)
```

Arguments:

`template` `character` Template, one element per line. See Details.

`id` `character(1)` Component ID.

`mighty_component$print()`: Print the component.

Usage:

```
mighty_component$print()
```

Returns: `(invisible)` self

`mighty_component$render()`: Render the component with `whisker::whisker.render()`.

Usage:

```
mighty_component$render(...)
```

Arguments:

`...` Named parameters used to render the template. Supply one for each `@param` tag and no others.
For `@type row` components, `domain` can be a subset marker: `".mighty_subset(<domain>, '<subset>')"`, where `<subset>` is an R expression in a string, e.g. `domain = ".mighty_subset(ADLB, 'PARAMCD =`
The code then only processes the rows where `<subset>` is `TRUE`. Other rows are kept unchanged. The marker is not allowed for other parameters or types.

Returns: Object of class mighty_component_rendered

`mighty_component$document()`: Create documentation in markdown format. Requires the knitr package.

Usage:

```
mighty_component$document()
```

Returns: `(invisible)` `character(1)` Markdown documentation. Also printed to the console.

`mighty_component$clone()`: The objects of this class are cloneable with this method.

Usage:

```
mighty_component$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

See Also

get_component(), mighty_component_rendered, vignette("mighty-component")

Examples

```
path <- system.file("examples", "ady.mustache", package = "mighty.component")
x <- mighty_component$new(template = readLines(path), id = "ady")
x

x$params
x$depends

x$render(domain = "ADAE", variable = "ASTDY", date = "ASTDT")


x$document()
```

---

mighty_component_rendered

Rendered mighty component class

Description

R6 class for a rendered component, created by mighty_component$render() or get_rendered_component().

A rendered component can be:

- Streamed into an R script with $stream().
- Evaluated in an environment with $eval().

Super class

mighty_component -> mighty_component_rendered

Methods

Public methods:

- mighty_component_rendered$new()
- mighty_component_rendered$print()
- mighty_component_rendered$stream()
- mighty_component_rendered$eval()
- mighty_component_rendered$clone()

mighty_component_rendered$new(): Create a rendered component from a rendered template. The code is validated. See the Validation section in mighty_component.

Usage:

```
mighty_component_rendered$new(template, id)
```

Arguments:

`template` `character` Rendered template, one element per line.

`id` `character(1)` Component ID.

`mighty_component_rendered$print()`**:** Print the rendered component, including its code.

Usage:

```
mighty_component_rendered$print()
```

Returns: (`invisible`) self

`mighty_component_rendered$stream()`**:** Write the code to an R script. The code is appended if the file exists.

Usage:

```
mighty_component_rendered$stream(path)
```

Arguments:

`path` `character(1)` Path to the R script.

Returns: (`invisible`) self

`mighty_component_rendered$eval()`**:** Evaluate the code.

Usage:

```
mighty_component_rendered$eval(envir = parent.frame())
```

Arguments:

`envir` Environment to evaluate the code in. Defaults to the calling environment.

Returns: Value of the last evaluated expression of the code.

`mighty_component_rendered$clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
mighty_component_rendered$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

See Also

`get_rendered_component()`, mighty_component

Examples

```
path <- system.file("examples", "ady.mustache", package = "mighty.component")
x <- get_component(path)$render(
  domain = "adae",
  variable = "ASTDY",
  date = "ASTDT"
)
x$code
```

```
# Write the code to an R script
script <- tempfile(fileext = ".R")
x$stream(script)
readLines(script)
unlink(script)


# Evaluate the code in a new environment
env <- new.env()
env$adae <- data.frame(
  TRTSDT = as.Date("2024-01-01"),
  ASTDT = as.Date(c("2024-01-01", "2024-01-10"))
)
x$eval(envir = env)
env$adae
```

`mighty_component_test` *Test mighty component class*

Description

R6 class for unit testing a component with code coverage tracking. The code runs in a separate R process (the test session), and the lines executed are counted.

Details

Test session:

`get_test_component()` starts a new R process with 'callr', the test session. Input data, the component code and its results all live in the global environment of the test session. Your own R session and its global environment are never modified.

The test session is closed with `$close()`, or when the object is garbage collected. After that, `$assign()`, `$get()`, `$ls()` and `$eval()` raise an error.

Workflow:

1. Create the test component with `get_test_component()`.
2. Assign input data in the test session with `$assign()`.
3. Run the code in the test session and update coverage with `$eval()`.
4. Retrieve results from the test session with `$get()`.
5. Test the results with testthat `expect_*()` functions.
6. Close the test session with `$close()`.

By default, `get_test_component()` checks coverage with `$check_coverage()` when the test ends. Coverage is kept in your R session, so it can still be checked after `$close()`.

Super classes

`mighty_component` -> `mighty_component_rendered` -> `mighty_component_test`

Active bindings

`percent_coverage` `numeric(1)` Percentage of lines covered (0-100).

`line_coverage` `data.frame` with columns `line` and `value` (number of times the line has run).

Methods

Public methods:

- `mighty_component_test$new()`
- `mighty_component_test$print()`
- `mighty_component_test$assign()`
- `mighty_component_test$get()`
- `mighty_component_test$ls()`
- `mighty_component_test$eval()`
- `mighty_component_test$check_coverage()`
- `mighty_component_test$close()`
- `mighty_component_test$clone()`

`mighty_component_test$new()`: Create a test component from a rendered template. Starts a new R session. Requires the callr and covr packages.

Usage:

```
mighty_component_test$new(template, id)
```

Arguments:

`template` `character` Rendered template, one element per line.

`id` `character(1)` Component ID.

`mighty_component_test$print()`: Print the test component with its code coverage.

Usage:

```
mighty_component_test$print()
```

Returns: `(invisible)` self

`mighty_component_test$assign()`: Assign a variable in the global environment of the test session. Your R session is not modified.

Usage:

```
mighty_component_test$assign(x, value)
```

Arguments:

`x` `character(1)` Variable name.

`value` Value to assign. It is copied to the test session.

Returns: `(invisible)` self

`mighty_component_test$get()`: Get a variable from the global environment of the test session.

Usage:

```
mighty_component_test$get(x)
```

Arguments:

`x character(1)` Variable name.

Returns: A copy of the variable's value.

`mighty_component_test$ls()`: List the variables in the global environment of the test session.

Usage:

```
mighty_component_test$ls()
```

Returns: `character` Variable names.

`mighty_component_test$eval()`: Run the code in the global environment of the test session and update the coverage.

Usage:

```
mighty_component_test$eval()
```

Returns: `(invisible)` self

`mighty_component_test$check_coverage()`: Check that every line of the code has run at least once. Raises an error otherwise.

Usage:

```
mighty_component_test$check_coverage()
```

Returns: `(invisible)` self

`mighty_component_test$close()`: Close the test session. Called automatically when the object is garbage collected.

Usage:

```
mighty_component_test$close()
```

Returns: `(invisible)` self

`mighty_component_test$clone()`: The objects of this class are cloneable with this method.

Usage:

```
mighty_component_test$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

See Also

`get_test_component()`

Examples

```
path <- system.file("examples", "ady.mustache", package = "mighty.component")
x <- get_test_component(
  component = path,
  params = list(domain = "adae", variable = "ADY", date = "ADT"),
  check_coverage = FALSE
)
```

```
x$percent_coverage

x$assign(
  "adae",
  data.frame(TRTSDT = as.Date("2024-01-01"), ADT = as.Date("2024-01-05"))
)
x$eval()
x$ls()
x$get("adae")$ADY
x$percent_coverage
x$check_coverage()
x$close()
```

`mighty_repo` *Component repos*

Description

- `mighty_repo()`: Create a component repo from a spec.
- `mighty_repo_class`: Abstract parent class of all component repos. It has no properties and cannot be created directly.

Specs have the form `type::path`. Supported types:

- `local`: A local directory, e.g. `local::inst/examples`. A spec without a prefix is treated as local.
- `github`: A GitHub repository, e.g. `github::owner/repo/subdir@ref`. See `mighty_repo_github()`.
- `url`: Raw files under a base URL, e.g. `url::https://example.com/components`. See `mighty_repo_url()`.

All repo types share one layout. A component `name` is the file `<name>.R` or `<name>.mustache`, either directly in the repo or in a directory named after the component (`<name>/<name>.R`). A name with an extension only matches that file.

Usage

```
mighty_repo(spec)
```

Arguments

`spec`	`character(1)` repo spec. See description.

Value

`mighty_repo()`: An object inheriting from `mighty_repo_class`.

See Also

`mighty_repo_local()`, `mighty_repo_github()`, `mighty_repo_url()`, `mighty_repos()`

Examples

```
path <- system.file("examples", package = "mighty.component")
mighty_repo(path)
mighty_repo(paste0("local::", path))
```

`mighty_repo_github` *GitHub component repo*

Description

A component repo hosted on GitHub. When the object is created, `ref` is resolved to a commit SHA and the repository tarball for that commit is downloaded and extracted to a temporary directory. Resolved SHAs are cached per ref and tarballs per commit for the session, so all lookups afterwards are local. Restart the session to pick up new commits on a branch.

`spec` is a `remotes`-style repository reference: `owner/repo`, `owner/repo/subdir`, `owner/repo@ref` or a combination.

Transient API errors (HTTP 5xx and network failures) are retried. The number of attempts is set by the `max_tries` option. See mighty.component-options.

Requires the gh and remotes packages. Private repositories need a GitHub token. gh reads it from the `GITHUB_PAT` or `GITHUB_TOKEN` environment variable, or the Git credential store. See `gh::gh_token()`.

Usage

```
mighty_repo_github(spec)
```

Arguments

`spec`	`character(1)` GitHub repository reference. See description.

Value

A `mighty_repo_github` object. It inherits from `mighty_repo_local()`, with `path` set to the downloaded repository or its `subdir`.

See Also

`mighty_repo()`

Examples

```
repo <- mighty_repo_github(
  spec = "NovoNordisk-OpenSource/mighty.standards/components@main"
)
find_component(component = "dummy", repos = repo)
```

mighty_repo_local *Local component repo*

Description

A component repo in a local directory. See `mighty_repo()` for the component layout. An error is raised if more than one file matches a component.

Usage

```
mighty_repo_local(path)
```

Arguments

`path`	`character(1)` Path to an existing directory.

Value

A `mighty_repo_local` object.

Examples

```
path <- system.file("examples", package = "mighty.component")
mighty_repo_local(path = path)
```

mighty_repo_url *URL component repo*

Description

A component repo served as raw files under a base URL. Requires httr2 (>= 1.2.2).

See `mighty_repo()` for the component layout. `.mustache` is tried before `.R`, and `<name>/` before files directly under `url`. The first found is used. Status 404 and 410 count as not found; other errors are raised. `name` is percent-encoded, and names containing `/` are not found. Responses are not cached.

Listing components (see `list_components()`) requires an HTML directory index at `<url>/`, and at `<url>/<dir>/` for nested components, e.g. Apache or nginx autoindex, or `python -m http.server`. Listing aborts if an index is unavailable or not HTML.

Transient errors (see `httr2::req_retry()`) and network failures are retried. The number of attempts is set by the `max_tries` option, and each attempt is limited by the `timeout` option (see mighty.component-options).

Usage

```
mighty_repo_url(url)
```

Arguments

`url`	`character(1)` Base URL starting with `http://` or `https://`.

Value

A `mighty_repo_url` object.

Examples

```
repo <- mighty_repo_url(
  url = paste0(
    "https://raw.githubusercontent.com/",
    "NovoNordisk-OpenSource/mighty.standards/main/components"
  )
)
format(repo)


find_component(component = "dummy", repos = repo)
```

`mighty_repos` *Collection of component repos*

Description

An ordered collection of component repos. Lookups search the repos in order, and the first match wins.

Each element of `repos` is either a repo spec, passed to `mighty_repo()`, or an object inheriting from `mighty_repo_class`. Repos are created once when the collection is created.

Usage

```
mighty_repos(repos = character(0))
```

Arguments

`repos`	`character` vector of repo specs, a single `mighty_repo_class` object, or a `list` of repo specs and `mighty_repo_class` objects.

Value

A `mighty_repos` object: a `list` of repos.

See Also

`find_component()`, `list_components()`

Examples

```
path <- system.file("examples", package = "mighty.component")
repos <- mighty_repos(repos = c(path, paste0("local::", path)))
repos

find_component(component = "ady", repos = repos)
```

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