

Package: prefab (via r-universe)

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Title Opinionated Project Scaffolding via Composable Themes

Version 0.4.0

Description Provides a composable theme system for project scaffolding. Themes are ordered lists of steps that deploy files, inline text, or execute functions, with per-file merge strategies for handling pre-existing content. Includes pre-set themes for R analysis projects, targets workflows, and Claude Code agent configuration.

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claude_r_analysis	<i>Claude Code configuration theme for R analysis projects</i>
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Description

Creates a theme that deploys Claude Code agent settings and rules for an R analysis project.

Usage

```
claude_r_analysis(settings_json = TRUE)
```

Arguments

`settings_json` Logical. If TRUE (default), merges the package `settings.json` into `.claude/settings.json`.

Value

A `prefab_theme` object.

Examples

```
claude_r_analysis()
```

claude_r_package	<i>Claude Code configuration theme for R packages</i>
------------------	-------------------------------------------------------

Description

Creates a theme that deploys Claude Code agent settings and rules for an R package.

Usage

```
claude_r_package()
```

Value

A `prefab_theme` object.

Examples

```
claude_r_package()
```

claude_r_targets	<i>Claude Code configuration theme for R targets projects</i>
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Description

Creates a theme that deploys Claude Code agent settings and rules for an R targets project.

Usage

```
claude_r_targets(settings_json = TRUE)
```

Arguments

`settings_json` Logical. If TRUE (default), merges the package `settings.json` into `.claude/settings.json`.

Value

A `prefab_theme` object.

Examples

```
claude_r_targets()
```

create_project	<i>Create a new project and apply a theme</i>
----------------	-----------------------------------------------

Description

Creates a new project directory and applies a theme to it. If RStudio is available, opens the new project in a new session.

Usage

```
create_project(path, theme)
```

Arguments

path	Path for the new project directory. Resolved to an absolute path via <code>fs::path_abs()</code> .
theme	A <code>prefab_theme</code> object created by <code>new_theme()</code> or a pre-set theme function.

Value

The normalized project path (invisibly).

Examples

```
## Not run:  
create_project("~/projects/my-analysis", r_analysis())  
create_project("my-targets-project", r_targets() + clauder_targets())  
  
## End(Not run)
```

from_dir	<i>Create a step-builder from a local directory</i>
----------	-----------------------------------------------------

Description

Returns a step-builder function that resolves source paths relative to a local directory. The directory path is resolved to an absolute path at creation time.

Usage

```
from_dir(path)
```

Arguments

path	Path to the directory. Resolved to absolute via <code>fs::path_abs()</code> at creation time. Must exist.
------	-----------------------------------------------------------------------------------------------------------

Value

A function with signature `function(source, dest, strategy = "overwrite", data = NULL)` that returns a `step_file()` object.

from_package	<i>Create a step-builder from an installed package</i>
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Description

Returns a step-builder function that resolves source paths relative to a package's `inst/` directory. Works with both installed packages and during development with `devtools::load_all()`.

Usage

```
from_package(package)
```

Arguments

package	Package name (string).
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Value

A function with signature `function(source, dest, strategy = "overwrite", data = NULL)` that returns a `step_file()` object.

load_themes	<i>Load custom theme definitions</i>
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Description

Sources an R file containing custom theme functions into the global environment, making them available for use with `use_theme()` and `create_project()`.

Usage

```
load_themes(file = NULL)
```

Arguments

file	Path to an R file defining theme functions. If <code>NULL</code> , falls back to the <code>PREFAB_THEMES</code> environment variable, then <code>~/ .prefab-themes.R</code> .
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Details

The file is resolved in order: the explicit `file` argument, then the `PREFAB_THEMES` environment variable, then `~/ .prefab-themes.R`.

Value

The file path that was sourced (invisibly), or NULL invisibly if no file was found.

Examples

```
## Not run:
# Source from default locations
load_themes()

# Source from a specific file
load_themes("~/my-org-themes.R")

## End(Not run)
```

new_theme	<i>Create a theme from steps</i>
-----------	----------------------------------

Description

Constructs a theme from step objects. NULL arguments are silently dropped, enabling conditional steps via `if (cond) step(...)`.

Usage

```
new_theme(...)
```

Arguments

... Step objects ([step_file\(\)](#), [step_text\(\)](#), [step_run\(\)](#)).

Value

A list with class "prefab_theme" containing a steps element.

r_analysis	<i>R analysis project theme</i>
------------	---------------------------------

Description

Creates a theme that scaffolds a simple R analysis project with `main.R`, `README.md`, and `.gitignore`.

Usage

```
r_analysis(data_dirs = TRUE)
```

Arguments

data_dirs Logical. If TRUE (default), creates directories ./data_raw and ./data_processed.

Value

A prefab_theme object.

Examples

```
r_analysis()
```

r_targets	<i>R targets project theme</i>
-----------	--------------------------------

Description

Creates a theme that scaffolds an R targets project with _targets.R, packages.R, README.md, and .gitignore.

Usage

```
r_targets()
```

Value

A prefab_theme object.

Examples

```
r_targets()
```

step_file	<i>Create a file deployment step</i>
-----------	--------------------------------------

Description

Creates a step that deploys a file or directory to the project.

Usage

```
step_file(source, dest, strategy = "overwrite", data = NULL)
```

Arguments

source	Absolute path to the source file or directory. Typically produced by a source helper (<code>from_package()</code> , <code>from_dir()</code>) rather than written by hand.
dest	Path to the destination, relative to the project root.
strategy	How to handle a pre-existing destination file. One of "overwrite", "skip", "union", "append", or "merge_json".
data	NULL (default) for static file copy, "auto" to interpolate using only auto-discovered project variables (<code>project_dir</code> , <code>package_name</code> , <code>year</code> , <code>date</code>), or a named list of variables to interpolate into the file via <code>{{var}}</code> syntax before deploying.

Value

A list with class "prefab_step_file".

step_run	<i>Create a function execution step</i>
----------	-----------------------------------------

Description

Creates a step that executes an R function for its side effects.

Usage

```
step_run(fn, ..., .label = NULL)
```

Arguments

fn	A function to execute.
...	Additional arguments passed to fn at execution time.
.label	Optional label for display. When NULL (default), captured via <code>deparse(substitute(fn))</code> .

Value

A list with class "prefab_step_run".

step_text	<i>Create an inline text deployment step</i>
-----------	----------------------------------------------

Description

Creates a step that deploys inline text content to the project. Like `step_file()` but takes a character vector instead of a source file path.

Usage

```
step_text(content, dest, strategy = "overwrite")
```

Arguments

content	Character vector of lines to deploy (one element per line). <code>character(0)</code> is allowed except with <code>strategy = "merge_json"</code> .
dest	Path to the destination, relative to the project root.
strategy	How to handle a pre-existing destination file. One of "overwrite", "skip", "union", "append", or "merge_json".

Value

A list with class "prefab_step_text".

theme_code	<i>Print R code that reproduces a theme</i>
------------	---------------------------------------------

Description

Prints the R code that would reproduce the given theme via `cat()`, and returns the code invisibly as a single character string.

Usage

```
theme_code(theme)
```

Arguments

theme	A <code>prefab_theme</code> object.
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Value

The generated R code as a single character string (invisibly).

theme_from_dir	<i>Create a theme from a directory of template files</i>
----------------	----------------------------------------------------------

Description

Converts a directory tree into a theme where each file becomes a `step_file()`. An optional `_prefab.yml` sidecar file in the directory can override the strategy and template data per file.

Usage

```
theme_from_dir(path, strategy = "skip")
```

Arguments

path	Path to a directory of template files. Resolved to an absolute path via <code>fs::path_abs()</code> . Must exist.
strategy	Default merge strategy for all files. Can be overridden per file via a <code>_prefab.yml</code> sidecar. One of "overwrite", "skip", "union", "append", or "merge_json".

Value

A `prefab_theme` object.

Examples

```
## Not run:
# Create a theme from a directory of config files
use_theme(theme_from_dir("~/my-template"))

# Compose with other themes
use_theme(r_analysis() + theme_from_dir("~/my-extras"))

## End(Not run)
```

use_theme	<i>Apply a theme to the current project</i>
-----------	---------------------------------------------

Description

Discovers the project root and executes the theme against it.

Usage

```
use_theme(theme)
```

Arguments

theme A prefab_theme object created by [new_theme\(\)](#) or a pre-set theme function.

Value

The project root path (invisibly).

Examples

```
## Not run:  
use_theme(r_analysis())  
use_theme(r_analysis() + claude_r_analysis())  
  
## End(Not run)
```

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