

# Package ‘fusen’

August 4, 2021

**Title** Build a Package from Rmarkdown File

**Version** 0.2.4

**Description** Use Rmarkdown First method to build your package. Start your package with documentation, functions, examples and tests in the same unique file. Everything can be set from the Rmarkdown template file provided in your project, then inflated as a package. Inflating the template copies the relevant chunks and sections in the appropriate files required for package development.

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**URL** <https://thinkr-open.github.io/fusen/>,  
<https://github.com/Thinkr-open/fusen>

**Depends** R (>= 3.5.0)

**Imports** attachment, cli, desc, glue, here (>= 1.0.0), magrittr, parsermd, rcmdcheck, roxygen2, stats, stringr, tibble, tidyr, usethis (>= 1.5.0)

**Suggests** knitr, pkgload, rmarkdown, spelling, testthat, withr

**VignetteBuilder** knitr

**Encoding** UTF-8

**Language** en-US

**RoxygenNote** 7.1.1

**NeedsCompilation** no

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**Repository** CRAN

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add_dev_history	<i>Add dev_history.Rmd file that drives package development</i>
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### Description

Add dev\_history.Rmd file that drives package development

### Usage

```
add_dev_history(  
  pkg = ".",  
  overwrite = FALSE,  
  open = TRUE,  
  dev_dir = "dev",  
  name = c("full", "minimal", "additional", "teaching")  
)
```

### Arguments

pkg	Path where to save file
overwrite	Whether to overwrite existing dev_history.Rmd file
open	Logical. Whether to open file after creation
dev_dir	Name of directory for development Rmarkdown files. Default to "dev".
name	Name of the template file. See details.

### Details

Choose name among the different templates available:

- "full": the full template with a reproducible package to inflate directly. Default.
- "minimal": Minimal template to start a new package when you already know fusen.
- "additional": Template for an additional vignette, thus additional functions.
- "teaching": Template with a reproducible package, simpler than "full", but everything to teach the minimal structure of a package.

### Value

Create a dev\_history.Rmd file and return its path

## Examples

```
# Create a new project
tmpdir <- tmpdir()
dummypackage <- file.path(tmpdir, "dummypackage")
dir.create(dummypackage)

# Add
add_dev_history(pkg = dummypackage)

# Delete dummy package
unlink(dummypackage, recursive = TRUE)
```

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fill_description	<i>Fill DESCRIPTION file of the package</i>
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## Description

Fill DESCRIPTION file of the package

## Usage

```
fill_description(pkg = ".", fields, overwrite = FALSE)
```

## Arguments

pkg	Path to package
fields	A named list of fields to add to DESCRIPTION, potentially overriding default values. See <a href="#">use_description</a> for how you can set personalized defaults using package options
overwrite	Whether to overwrite existing DESCRIPTION

## Value

Fill DESCRIPTION file with fields. Return path to file.

## Examples

```
# Create a new project
tmpdir <- tmpdir()
dummypackage <- file.path(tmpdir, "dummypackage")
dir.create(dummypackage)

fill_description(
  pkg = dummypackage,
  fields = list(
    Title = "Build A Package From Rmarkdown file",
    Description = paste("Use Rmd First method to build your package.",
                        "Start your package with documentation.",
```

```

      "Everything can be set from a Rmarkdown file in your project."),
  `Authors@R` = c(
    person("Sebastien", "Rochette", email = "sebastien@thinkr.fr",
          role = c("aut", "cre"), comment = c(ORCID = "0000-0002-1565-9313")),
    person(given = "ThinkR", role = "cph")
  )
)
)

# Delete dummy package
unlink(dummypackage, recursive = TRUE)

```

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 inflate

*Inflate Rmd to package*


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## Description

Inflate Rmd to package

## Usage

```

inflate(
  pkg = ".",
  rmd = file.path("dev", "dev_history.Rmd"),
  name = "exploration",
  check = TRUE,
  document = TRUE,
  overwrite = c("ask", "yes", "no")
)

```

## Arguments

pkg	Path to package
rmd	Path to Rmarkdown file to inflate
name	Name of the resulting vignette
check	Logical. Whether to check package after Rmd inflating
document	Logical. Whether to document your package using <a href="#">att_amend_desc</a>
overwrite	Logical. Whether to overwrite vignette and functions if already exists.

## Value

Package structure. Return path to current package.

**Examples**

```
# Create a new project
tmpdir <- tempdir()
dummypackage <- file.path(tmpdir, "dummypackage")
dir.create(dummypackage)

# {fusen} steps
fill_description(pkg = dummypackage, fields = list(Title = "Dummy Package"))
dev_file <- add_dev_history(pkg = dummypackage, overwrite = TRUE)
inflate(pkg = dummypackage, rmd = dev_file, name = "Exploration of my Data", check = FALSE)

# Explore directory of the package
# browseURL(dummypackage)

# Try pkgdown build
# pkgdown::build_site(dummypackage)
# usethis::use_build_ignore("docs")
# usethis::use_git_ignore("docs")
# Delete dummy package
unlink(dummypackage, recursive = TRUE)
```

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