

Package ‘rzig’

September 12, 2026

Type Package

Title Safe Zig Bindings

Version 0.2.3

Description Scaffolds packages backed by Zig and generates a safe native boundary for plain Zig functions. The generated integration converts objects at the language boundary, registers native routines, propagates errors, and compiles across platforms without requiring C++.

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URL <https://github.com/MarekDejaUJ/rzig>

BugReports <https://github.com/MarekDejaUJ/rzig/issues>

Encoding UTF-8

SystemRequirements Zig (>= 0.16.0), see <https://ziglang.org/download/>

NeedsCompilation no

Suggests knitr, rmarkdown

VignetteBuilder knitr

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Repository CRAN

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 rzig-package

Safe Zig Bindings

Description

RZig scaffolds packages backed by Zig and generates safe native bindings for plain Zig functions.

Author(s)

Marek Deja

 document

Generate R Bindings from Zig Exports

Description

Scans public Zig functions marked with `/// @export`, regenerates the Zig manifest and R wrappers, and updates a managed block in 'NAMESPACE'.

Usage

```
document(path)
```

Arguments

`path` Path to a package previously initialized with `use_rzig()`.

Value

The normalized package path, invisibly.

Examples

```
local({
  package_path <- tempfile("rzig-document-", tmpdir = tempdir())
  dir.create(package_path)
  on.exit(unlink(package_path, recursive = TRUE), add = TRUE)
  writeLines(
    c("Package: examplepkg", "Version: 0.0.1"),
    file.path(package_path, "DESCRIPTION")
  )
  use_rzig(package_path)
  document(package_path)
  file.exists(file.path(package_path, "R", "rzig-wrappers.R"))
})
```

`use_rzig`*Add RZig to a Package*

Description

Creates a Zig source tree, portable build files, a generated native entry stub, and a working `hello_zig()` example in an existing package.

Usage

```
use_rzig(path, overwrite = FALSE)
```

Arguments

<code>path</code>	Path to the package root.
<code>overwrite</code>	Replace files previously managed by RZig.

Value

The normalized package path, invisibly.

Examples

```
local({
  package_path <- tempfile("rzig-example-", tmpdir = tempdir())
  dir.create(package_path)
  on.exit(unlink(package_path, recursive = TRUE), add = TRUE)
  writeLines(
    c("Package: examplepkg", "Version: 0.0.1"),
    file.path(package_path, "DESCRIPTION")
  )
  use_rzig(package_path)
  file.exists(file.path(package_path, "src", "rzig", "src", "main.zig"))
})
```

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