

Package: SimpleITK.foyer (via r-universe)

June 23, 2026

Version 1.0.0

Title Lightweight Installer for SimpleITK

Description Provides a lightweight installer for the SimpleITK package, which is an interface to the Insight Toolkit (ITK) for medical image segmentation and registration. After installing this package, call `install_simpleitk()` to download and install the pre-built binary packages for your platform from the SimpleITKInstaller GitHub releases. Due to the large size of the compiled package, the actual functionality is distributed as platform-specific binaries on GitHub.

License Apache License (≥ 2)

URL <https://github.com/SimpleITK/SimpleITKInstaller>

BugReports <https://github.com/SimpleITK/SimpleITKInstaller/issues>

Encoding UTF-8

Depends R (≥ 4.0)

Imports utils

SystemRequirements Internet connection for downloading binary packages

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Config/roxygen2/version 8.0.0

Repository <https://simpleitk.r-universe.dev>

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RemoteUrl <https://github.com/SimpleITK/SimpleITKInstaller>

RemoteRef HEAD

RemoteSha 67fd7166392517a3ddef972a1062329cdbc12860

RemoteSubdir SimpleITK_Foyer

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install_simpleitk	<i>Install SimpleITK Binary Package</i>
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Description

Downloads and installs the pre-built SimpleITK binary package for your platform and R version from GitHub releases.

Usage

```
install_simpleitk(  
  version = NULL,  
  lib = .libPaths()[1],  
  repos = NULL,  
  force = FALSE,  
  quiet = FALSE  
)
```

Arguments

version	Character string specifying the SimpleITK version to install. Defaults to the version of this foyer package.
lib	Character string specifying the library path where the package should be installed. Defaults to the first element of <code>.libPaths()</code> .
repos	Character string specifying alternative repository URL. By default, uses GitHub releases.
force	Logical. If TRUE, forces reinstallation even if the package is already installed.
quiet	Logical. If TRUE, suppresses progress messages.

Details

This function detects your operating system, R version, and architecture, then downloads the appropriate pre-built binary package from the SimpleITK GitHub releases. The binary packages are built by the SimpleITK project and hosted at: <https://github.com/SimpleITK/SimpleITKInstaller/releases>

Supported platforms:

- Windows x86_64 (R >= 4.0)
- macOS x86_64 (R >= 4.0)
- macOS ARM64 (R >= 4.0)
- Linux x86_64 (R >= 4.0)

Value

Invisibly returns TRUE if installation succeeds, FALSE otherwise.

Examples

```
## Not run:  
# Install SimpleITK for your platform  
install_simpleitk()  
  
# Install a specific version  
install_simpleitk(version = "2.5.0")  
  
# Force reinstallation  
install_simpleitk(force = TRUE)  
  
## End(Not run)
```

Version

SimpleITK Version Information (Stub)

Description

This is a stub function that will be replaced by the actual function once the full SimpleITK package is installed via `install_simpleitk()`.

Usage

```
Version()
```

Value

NULL if SimpleITK is not installed, otherwise calls the real `Version` function

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