

Package ‘Rigraphlib’

September 23, 2026

Type Package

Version 1.4.0

Date 2025-12-07

Title igraph library as an R package

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Description Vendors the igraph C source code and builds it into a static library.
Other Bioconductor packages can link to libigraph.a in their own C/C++ code.
This is intended for packages wrapping C/C++ libraries that depend on the igraph C library and cannot be easily adapted to use the igraph R package.

LinkingTo biocmake

Suggests BiocStyle, knitr, rmarkdown, testthat

VignetteBuilder knitr

biocViews Clustering, GraphAndNetwork

NeedsCompilation yes

URL <https://github.com/libscran/Rigraphlib>

BugReports <https://github.com/libscran/Rigraphlib/issues>

Encoding UTF-8

RoxygenNote 7.3.3

git_url <https://git.bioconductor.org/packages/Rigraphlib>

git_branch RELEASE_3_23

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pkgconfig	<i>Configure compilation flags</i>
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Description

Configure flags for compiling downstream packages.

Usage

```
pkgconfig(opt = c("PKG_CPPFLAGS", "PKG_LIBS"))
```

Arguments

opt String specifying the Makevars option to print.

Details

If the RIGRAPHLIB_<OPT> environment variable is set (where <OPT> is replaced by opt), the contents of that variable will be printed by this function, regardless of any other settings.

If the RIGRAPHLIB_USE_SYSTEM_LIBRARY environment was set to 1 during **Rigraphlib** installation or is currently set to 1, this function will print the output of pkg-config igraph relevant to the requested opt. If igraph cannot be found by pkg-config, an error is thrown.

Otherwise, this function will print flags to link to the binaries generated from the vendored **igraph** source.

If any of the above environment variables are specified, the version of the corresponding **igraph** instance should be consistent with that of the vendored **igraph** source. See [version\(TRUE\)](#) for the expected version of the **igraph** library.

Value

Flags to add to the requested opt of the Makevars are printed to the screen.

Author(s)

Aaron Lun

Examples

```
pkgconfig("PKG_CPPFLAGS")
pkgconfig("PKG_LIBS")
```

version	<i>Version of the igraph library.</i>
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Description

Reports the version of the igraph library used by [pkgconfig](#).

Usage

```
version(expected = FALSE)
```

Arguments

expected	Boolean indicating whether to report the version of igraph expected by Rigraphlib and its downstream dependencies. This corresponds to the version that is vendored into the Rigraphlib package.
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Details

If the RIGRAPHLIB_LIBRARY_VERSION environment variable is set, the contents of that variable will be returned by this function if expected=FALSE.

If the RIGRAPHLIB_USE_SYSTEM_LIBRARY variable was set to 1 during **Rigraphlib** installation or is currently set to 1, the version of **igraph** reported by pkg-config is returned if expected=FALSE. If igraph cannot be found by pkg-config, an error is thrown.

Otherwise, the version of the vendored **igraph** is returned.

Value

If expected=FALSE, the actual version of the **igraph** library linked by [pkgconfig](#).

If expected=TRUE, the expected version of the **igraph** library to be provided by **Rigraphlib**.

Examples

```
Rigraphlib::version()
```

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