

# Package ‘Rigraphlib’

May 26, 2026

**Type** Package

**Version** 1.4.0

**Date** 2025-12-07

**Title** igraph library as an R package

**License** GPL-3

**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

**git\_last\_commit** f37a2ce

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**Repository** Bioconductor 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 igrph relevant to the requested opt. If igrph 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 **igrph** source.

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

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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 <b>igraph</b> expected by <b>Rigraphlib</b> and its downstream dependencies. This corresponds to the version that is vendored into the <b>Rigraphlib</b> 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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