

# Package ‘RcppCGAL’

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**Type** Package

**Title** Rcpp Integration for CGAL

**Version** 5.4.1

**Date** 2022-03-18

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**Description** Creates a header only package to link to the CGAL (Computational Geometry Algorithms Library) header files in Rcpp. There are a variety of potential uses for the software such as Hilbert sorting, KDtree nearest neighbors, and convex hull algorithms. There is only one R function in this package, which returns the current version of the CGAL library included. For more information about how to use the header files, see the CGAL documentation at <<https://www.cgal.org>>. Currently includes the CGAL 5.4 stable release.

**License** GPL (>= 3)

**Imports** utils, Rcpp

**BugReports** <https://github.com/ericdunipace/RcppCGAL/issues>

**NeedsCompilation** no

**RoxygenNote** 7.1.1

**Repository** CRAN

**Date/Publication** 2022-03-21 08:30:22 UTC

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## Description

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## Author(s)

**Maintainer:** Eric Dunipace <[edunipace@mail.harvard.edu](mailto:edunipace@mail.harvard.edu)> ([ORCID](#))

## References

The CGAL Project. (2022). CGAL User and Reference Manual (5.4). Retrieved from <<https://doc.cgal.org/5.4/Manual/packa>>

## See Also

Useful links:

- Report bugs at <https://github.com/ericdunipace/RcppCGAL/issues>

## Examples

```
## Not run:
# To use this in a C++ file make sure you add an appropriate
# dependency in your header C++ code. Make sure to use CGAL/basic.h

#include <Rcpp.h>
// [[Rcpp::depends(RcppCGAL)]]
#include <CGAL/basic.h>

// function code

## End(Not run)
```

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<code>cgal_version</code>	<i>Return CGAL version</i>
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**Description**

Return CGAL version

**Usage**

`cgal_version()`

**Value**

prints the CGAL version of the package

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