

# Package ‘RcppNLOptExample’

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**Type** Package

**Title** 'Rcpp' Package Illustrating Header-Only Access to 'NLOpt'

**Version** 0.0.1

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**Description** An example package which shows use of 'NLOpt' functionality from C++ via 'Rcpp' without requiring linking, and relying just on 'nloptr' thanks to the exporting API added there by Jelmer Ypma. This package is a fully functioning, updated, and expanded version of the initial example by Julien Chiquet at <<https://github.com/jchiquet/RcppArmadilloNLOptExample>> also containing a large earlier pull request of mine.

**License** GPL (>= 2)

**Encoding** UTF-8

**LinkingTo** Rcpp, nloptr (>= 1.2.0)

**Imports** Rcpp, nloptr (>= 1.2.0)

**Depends** R (>= 3.0.2)

**RoxygenNote** 6.0.1

**NeedsCompilation** yes

**Repository** CRAN

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`testConstrainedProblem`*NLopt Call Example from Rcpp*

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**Description**

A simple example for for NLopt integration for Rcpp, using an example from the NLopt tutorial.

**Usage**

```
testConstrainedProblem(method = "MMA", verbose = FALSE)
```

**Arguments**

method	A string defaulting to ‘MMA’ (also allowing ‘COBYLA’) which selects the algorithm use.
verbose	A boolean toggle defaulting to ‘false’

**Value**

A numeric vector with two elements

**See Also**

[https://nlopt.readthedocs.io/en/latest/NLopt\\_Tutorial/](https://nlopt.readthedocs.io/en/latest/NLopt_Tutorial/)

**Examples**

```
testConstrainedProblem("MMA", TRUE)
```

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