

# Package ‘RcppTOML’

April 25, 2017

**Type** Package

**Title** 'Rcpp' Bindings to Parser for Tom's Obvious Markup Language

**Version** 0.1.3

**Date** 2017-04-25

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**Description** The configuration format defined by 'TOML' (which expands to ``Tom's Obvious Markup Language") specifies an excellent format (described at <<https://github.com/toml-lang/toml>>) suitable for both human editing as well as the common uses of a machine-readable format. This package uses 'Rcpp' to connect the 'cpptoml' parser written by Chase Geigle (in modern C++11) to R.

**SystemRequirements** A C++11 compiler; g++ (>= 4.8.\*) should be fine.

**BugReports** <https://github.com/eddelbuettel/rcpptoml/issues>

**URL** <http://dirk.eddelbuettel.com/code/rcpp.toml.html>

**Imports** Rcpp (>= 0.11.5)

**Depends** R (>= 3.3.0)

**LinkingTo** Rcpp

**License** GPL (>= 2)

**NeedsCompilation** yes

**Repository** CRAN

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RcppTOML-package

*R Access to Parser for TOML (Tom's Obvious Markup Language)*


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## Description

TOML (“Tom’s Obvious Markup Language”) is a configuration file grammar for humans. It is easier to read and edit than the alternatives yet arguably more useful as it is strongly typed: values come back as integer, double, (multiline-) character (strings), boolean or Datetime. Moreover, complex nesting and arrays are supported as well.

## Details

At present, a single parsing function `parseTOML` (with convenience aliases `tomlparse` and `parseToml`) is implemented. It returns a list object corresponding to the configuration from the supplied file.

## Author(s)

Dirk Eddelbuettel put together the R package. Charles Geigle wrote the `cpptoml` parser. Tom Preston-Werner is the Tom behind TOML.

Maintainer: Dirk Eddelbuettel <edd@debian.org>

## References

TOML: <https://github.com/toml-lang/toml>

## Examples

```
library(RcppTOML)

file <- system.file("toml", "example.toml", package="RcppTOML")

toml <- parseTOML(file) # given file, return parsed object

summary(toml)          # really sparse summary method
print(toml)            # print is a wrapper around str()
```

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parseTOML

*Parse a TOML configuration file*


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## Description

The `parseTOML` function parses ‘TOML’ (for ‘Tom’s Obvious Markup Language’) files. The TOML format both highly readable and expressive, allows comments, indentation and other aspects suitable for *human* readers, contains typed objects yet allows everything similar configuration languages permit.

**Usage**

```
parseTOML(input, verbose = FALSE, fromFile=TRUE)

## S3 method for class 'toml'
print(x, ...)
## S3 method for class 'toml'
summary(object, ...)
```

**Arguments**

input	A character object either denoting a path and file (where tilde-expansion is performed as well) from parsing from file, or a containing a suitable ‘TOML’ expression that is parsed from this expression.
verbose	A logical switch to turn on (very) verbose operation which can be useful in debugging a parsing issue in a file.
fromFile	A logical switch indicating whether input is interpreted as a filename (with path) which is to be parsed, or a whether the ‘TOML’ expression in the string is parsed; default is file mode.
x	A toml object.
object	A toml object.
...	Furter arguments.

**Details**

The package uses the ‘cpptoml’ C++11 parser by Charles Geigle. This requires a recent-enough C++11 compiler which excludes one deployed by Rtools on Windows at the time the package was initially put together.

**Value**

A toml object is returned, which is really just a list object with a class attribute to allow for print and summary methods.

**Author(s)**

Dirk Eddelbuettel put together the R package. Charles Geigle wrote the cpptoml parser. Tom Preston-Werner is the Tom behind TOML.

Maintainer: Dirk Eddelbuettel <edd@debian.org>

**References**

TOML: <https://github.com/toml-lang/toml> cpptoml: <https://github.com/skystribe/cpptoml>

**Examples**

```
library(RcppTOML)

file <- system.file("toml", "example.toml", package="RcppTOML")

toml <- parseTOML(file) # given file, return parsed object

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