

# Package: RcppTOML (via r-universe)

October 22, 2024

**Type** Package

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

**Version** 0.2.2

**Date** 2023-01-29

**Description** The configuration format defined by 'TOML' (which expands to ``Tom's Obvious Markup Language'') specifies an excellent format (described at <<https://toml.io/en/>>) suitable for both human editing as well as the common uses of a machine-readable format. This package uses 'Rcpp' to connect to the 'toml++' parser written by Mark Gillard to R.

**SystemRequirements** A C++17 compiler

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

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

**Imports** Rcpp (>= 1.0.8)

**Depends** R (>= 3.3.0)

**LinkingTo** Rcpp

**Suggests** tinytest

**License** GPL (>= 2)

**Repository** <https://eddelbuettel.r-universe.dev>

**RemoteUrl** <https://github.com/eddelbuettel/rcpptoml>

**RemoteRef** HEAD

**RemoteSha** 87a6243210d655fb7186b8714fb9a697eb122935

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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.

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## References

TOML: <https://toml.io/en/>

## 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 file*


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## Description

The function `parseTOML`, also aliased to `tomlparse` and `parseToml`, parse TOML content in/out. This is usually a file given by its name, or a character variable with a TOML expression.

**Usage**

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

```
tomlparse(...)
```

```
parseToml(...)
```

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

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

**Arguments**

|           |                                                                                  |
|-----------|----------------------------------------------------------------------------------|
| input     | [character] TOML input, either as chracter value or path to TOML file            |
| verbose   | [logical] Optional verbosity flag, no current effect                             |
| fromFile  | [logical] Optional with default value 'TRUE' indicating parsing from file        |
| includize | [logical] Optional legacy option, no current effect                              |
| escape    | [logical] Optional boolean whether strings should be escaped, defaults to 'TRUE' |
| ...       | Used for aliased function and S3 methods                                         |
| x         | Used for S3 method                                                               |
| object    | Used for S3 method                                                               |

**Details**

This implementation uses the 'tomlplusplus' library by Mark Gillar (see <https://github.com/marzer/tomlplusplus>) which is TOML 1.0 compliant. In earlier work the package used the 'cpp-toml' library by Chase Geigle (see <https://github.com/skystrike/cpptoml> for which development ceased once TOML 0.5.0 parity was reached.

**Value**

A list object with the parsed content as an S3 object of class 'toml'

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