Package: RcppTOML (via r-universe)

October 27, 2026

Type Package

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

Version 0.2.3.1

Date 2025-05-28

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

Date/Publication 2026-01-28 02:34:44 UTC

RemoteUrl https://github.com/eddelbuettel/rcpptoml

RemoteRef HEAD

RemoteSha 04a574f443aead50f3a03197c536d38e5b2f8671

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

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 stronly types: 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 togther 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()
```

parseTOML *Parse a TOML file*

Description

The function `parseTOML`, also aliased to `tomlparse` and `parseToml`, parse TOML content inout. 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 'cpptoml' library by Chase Geigle (see https://github.com/skystrife/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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