

Package ‘tomledit’

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Title Parse, Read, and Edit 'TOML'

Version 0.1.1

Description A toolkit for working with 'TOML' files in R while preserving formatting, comments, and structure. 'tomledit' enables serialization of R objects such as lists, data.frames, numeric, logical, and date vectors.

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Encoding UTF-8

Language en

RoxygenNote 7.3.2

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SystemRequirements Cargo (Rust's package manager), rustc

Depends R (>= 4.2)

Imports rlang (>= 1.1.0)

URL <https://extendr.github.io/tomledit/>,
<https://github.com/extendr/tomledit>

BugReports <https://github.com/extendr/tomledit/issues>

NeedsCompilation yes

Author Josiah Parry [aut, cre] (ORCID:
<<https://orcid.org/0000-0001-9910-865X>>)

Maintainer Josiah Parry <josiah.parry@gmail.com>

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`as_toml`*Create Toml objects*

Description

Use `as_toml()` to convert a named list to a Toml object. Or, create a Toml object by passing in named values to `toml()`.

Usage

```
as_toml(x, df_as_array = TRUE)
```

```
toml(..., df_as_array = TRUE)
```

Arguments

<code>x</code>	a named list
<code>df_as_array</code>	default TRUE. Creates an array of tables from a <code>data.frame</code> . When FALSE, creates a single table with an array for each column in the <code>data.frame</code> .
<code>...</code>	named items to be serialized to TOML.

Details

If you are serializing a `data.frame` to a single table with `df_as_array = FALSE`, note that **missing values are omitted** when serializing a vector to an array as there is no concept of missing values in TOML.

Value

an object of class Toml

Examples

```
toml(person = list(age = 30L, name = "Wilma"))

as_toml(
  list(
    person = list(age = 30L, name = "Wilma")
  )
)
```

from_toml	<i>Convert Toml to an R object</i>
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Description

Use `from_toml()` to convert a Toml document to an R object. Note that that due to the encoding of values in the TOML specification a perfect round trip from TOML to R is not always possible.

Usage

```
from_toml(x)
```

Arguments

`x` a Toml object.

Value

a list

Examples

```
from_toml(toml(hello = "world"))
```

parse_toml	<i>Read and parse TOML</i>
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Description

Use `parse_toml()` to parse a string into a Toml document. Use `read_toml()` to read a `.toml` file from disk.

Usage

```
parse_toml(x)
```

```
read_toml(file)
```

Arguments

`x` a character scalar containing valid TOML

`file` path to the file to write.

Value

an object of class `Toml`

Examples

```
# TOML string
raw_toml <- '# Top-level table begins.
name = "Fido"
breed = "pug"

# Top-level table ends.
[owner]
name = "Regina Dogman"
member_since = 1999-08-04'

# write the TOML string to a temp file
tmp <- tempfile()
writeLines(raw_toml, tmp)

# parse the TOML string
parse_toml(raw_toml)

# read the TOML file
read_toml(tmp)
```

remove_items

Modify a Toml object

Description

remove_items() removes one or more items from the TOML document. Alternatively, insert_items() inserts key value pairs into the TOML document.

Usage

```
remove_items(x, keys)

insert_items(x, ..., df_as_array = TRUE)

get_item(x, key)
```

Arguments

x	an object of class Toml.
keys	a character vector of key names to remove. Cannot contain missing values.
...	named items to be serialized to TOML.
df_as_array	default TRUE. Creates an array of tables from a data.frame. When FALSE, creates a single table with an array for each column in the data.frame.
key	a character vector of key values. The keys are used recursively. For example with key = c("a", "b") the item a is grabbed first, then b is searched for inside of a.

Value

an object of class Toml

Examples

```
x <- toml(  
  date = list(  
    full = as.Date("2025-02-07"),  
    parts = list(year = 2015L, month = "February", day = 7L)  
  ),  
  season = "winter"  
)  
  
# fetch the date table  
get_item(x, "date")  
  
# fetch the month value  
get_item(x, c("date", "parts", "month"))  
  
# remove an item based on name  
remove_items(x, "season")  
  
# add multiple items  
insert_items(x, temperature = 31, cloudy = TRUE)
```

write_toml

Generate TOML

Description

Write a Toml object to a file or to a string. Use `write_toml()` to write to a file on disk. Or, use `to_toml()` to create a string containing TOML.

Usage

```
write_toml(x, file)
```

```
to_toml(x)
```

Arguments

x	an object of class Toml.
file	path to the file to write.

Value

`write_toml()` returns a Toml object invisibly. `to_toml()` returns a string.

Examples

```
tmp <- tempfile(fileext = ".toml")

x <- toml(
  today = Sys.Date(),
  human = list(person = "Greg", age = 29, bday = "1969-07-02"),
)

write_toml(x, tmp)
read_toml(tmp)
to_toml(x)
```

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