Package 'yyjsonr'

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Type Package

Title Fast 'JSON', 'NDJSON' and 'GeoJSON' Parser and Generator

Version 0.1.22

Maintainer Mike Cheng <mikefc@coolbutuseless.com>

Description A fast 'JSON' parser, generator and validator which converts 'JSON', 'NDJSON' (Newline Delimited 'JSON') and 'GeoJSON' (Geographic 'JSON') data to/from R objects. The standard R data types are supported (e.g. logical, numeric, integer) with configurable handling of NULL and NA values. Data frames, atomic vectors and lists are all supported as data containers translated to/from 'JSON'. 'GeoJSON' data is read in as 'simple features' objects.
This implementation wraps the 'yyjson' 'C' library which is available from <https://github.com/ibireme/yyjson>.

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URL https://github.com/coolbutuseless/yyjsonr, https://coolbutuseless.github.io/package/yyjsonr/

BugReports https://github.com/coolbutuseless/yyjsonr/issues

Encoding UTF-8

Language en-AU

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Suggests bit64, knitr, rmarkdown, jsonlite, testthat (>= 3.0.0)

Config/testthat/edition 3

VignetteBuilder knitr

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NeedsCompilation yes

Author Mike Cheng [aut, cre, cph], Yao Yuan [aut, cph] (Author of bundled yyjson), Murat Tasan [ctb] ('json_verbatim' handling)

Repository CRAN

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Contents

`as_scalar` *Tag an atomic vector with a single element as class 'scalar'. When output to JSON it will be output as a scalar not a vector*

Description

Tag an atomic vector with a single element as class 'scalar'. When output to JSON it will be output as a scalar not a vector

Usage

```
as_scalar(x)
```

Arguments

x	atomic vector with length = 1

Value

If x is an atomic vector with length = 1, then object is returned with class 'scalar', otherwise object is returned unmodified

---

opts_read_geojson *Options for reading in GeoJSON*

Description

Options for reading in GeoJSON

Usage

```
opts_read_geojson(
  type = c("sf", "sfc"),
  property_promotion = c("string", "list"),
  property_promotion_lgl = c("integer", "string")
)
```

Arguments

type	'sf' or 'sfc'
property_promotion	What is the most general container type to use when properties differ across a FEATURECOLLECTION? E.g. if the property exists both as a numeric and a string, should all values be promoted to a 'string', or contained as different types in a 'list'. Default: 'string' will behave like `geojsonsf` package.
property_promotion_lgl	when `property_promotion = "string"` should logical values become words (i.e. `"TRUE"/"FALSE"`) or integers (i.e. `"1"/"0"`). Default: "integer" in order to match `geojsonsf` package

Value

Named list of options specific to reading GeoJSON

Examples

```
# Create a set of options to use when reading geojson
opts_read_geojson()
```

opts_read_json *Create named list of options for parsing R from JSON*

Description

Create named list of options for parsing R from JSON

Usage

```
opts_read_json(
  promote_num_to_string = FALSE,
  digits_promote = 6,
  df_missing_list_elem = NULL,
  obj_of_arrs_to_df = TRUE,
  arr_of_objs_to_df = TRUE,
  arr_of_arrs_to_matrix = TRUE,
  str_specials = c("string", "special"),
  num_specials = c("special", "string"),
  int64 = c("string", "double", "bit64"),
  length1_array_asis = FALSE,
  single_null = NULL,
  empty_array = c("list", "NULL"),
  empty_object = c("named_list", "NULL"),
  yyjson_read_flag = 0L
)
```

Arguments

`promote_num_to_string`
: Should numeric values be promoted to strings when they occur within an array with other string values? Default: FALSE means to keep numerics as numeric value and promote the *container* to be a `list` rather than an atomic vector when types are mixed. If `TRUE` then array of mixed string/numeric types will be promoted to all string values and returned as an atomic character vector. Set this to `TRUE` if you want to emulate the behaviour of `jsonlite::fromJSON()`

`digits_promote`
: When promoting numbers to be strings, how many decimal places should be used in the representation. Default: 6. This option is only valid if `promote_num_to_string = TRUE`. Valid range 0 to 30

`df_missing_list_elem`
: R value to use when elements are missing in list columns in data.frames. Default: NULL

`obj_of_arrs_to_df`
: logical. Should a named list of equal-length vectors be promoted to a data.frame? Default: TRUE. If FALSE, then result will be left as a list.

`arr_of_objs_to_df`
: logical. Should an array of objects be promoted to a data.frame? Default: TRUE. If FALSE, then results will be read as a list-of-lists.

`arr_of_arrs_to_matrix`
: logical. Should an array of objects be promoted to a matrix (if types and dimensions align)? Default: TRUE. If FALSE, then results will be read as a list-of-atomic-vectors.

`str_specials`
: Should `'NA'` in a JSON string be converted to the `'special'` `NA` value in R, or left as a `'string'`. Default: 'string'

`num_specials`
: Should JSON strings 'NA'/'Inf'/'NaN' in a numeric context be converted to the `'special'` R numeric values `NA`, `Inf`, `NaN`, or left as a `'string'`. Default: 'special'

`int64`
: how to encode large integers which do not fit into R's integer type. 'string' imports them as a character vector. 'double' will convert the integer to a double precision numeric value. 'bit64' will use the 'integer64' type from the 'bit64' package. Note that the 'integer64' type is a *signed* integer type, and a warning will be issued if JSON contains an *unsigned* integer which cannot be stored in this type.

`length1_array_asis`
: logical. Should JSON arrays with length = 1 be marked with class `AsIs`. Default: FALSE

`single_null`
: R object to return for isolated JSON `null` values. Default: NULL. Note: JSON `null` values in arrays may still be promoted to `NA`s of the appropriate type if possible.

`empty_array`
: How should empty JSON arrays be returned? Default: 'list' for an empty list. Valid values: 'list', 'NULL'

`empty_object`
: How should empty JSON objects be returned? Default: 'named_list' for an empty named list. Valid values: 'named_list', 'NULL'

`yyjson_read_flag`
: integer vector of internal `yyjson` options. See `yyjson_read_flag` in this package, and read the yyjson API documentation for more information. This is considered an advanced option.

Value

Named list of options for reading JSON

See Also

`yyjson_read_flag()`

Examples

```
opts_read_json()
```

opts_write_geojson *Options for writing from* sf *object to* GeoJSON

Description

Currently no options available.

Usage

```
opts_write_geojson()
```

Value

Named list of options specific to writing GeoJSON

Examples

```
# Create a set of options to use when writing geojson
opts_write_geojson()
```

opts_write_json *Create named list of options for serializing R to JSON*

Description

Create named list of options for serializing R to JSON

Usage

```
opts_write_json(
  digits = -1L,
  digits_secs = 0L,
  digits_signif = -1L,
  pretty = FALSE,
  auto_unbox = FALSE,
  dataframe = c("rows", "columns"),
  factor = c("string", "integer"),
  name_repair = c("none", "minimal"),
  num_specials = c("null", "string"),
  str_specials = c("null", "string"),
  fast_numerics = FALSE,
  json_verbatim = FALSE,
  null = c("null", "empty_array"),
  yyjson_write_flag = 0L
)
```

Arguments

digits	decimal places to keep for floating point numbers. Default: -1. Positive values specify number of decimal places. Using zero will write the numeric value as an integer. Values less than zero mean that the floating point value should be written as-is (the default). This argument is ignored if `digits_signif` is greater than zero.
digits_secs	decimal places for fractional seconds when converting times to a string representation. Default: 0. Valid range: 0 to 6
digits_signif	significant decimal places to store in floating point numbers. Default: -1 means to output the number as-is (while respecting the `digits`) argument. Values above 0 will produce rounding to the given number of places and the `digits` argument will be ignored.
pretty	Logical value indicating if the created JSON string should have whitespace for indentation and linebreaks. Default: FALSE. Note: this option is equivalent to `yyjson_write_flag = write_flag$YYJSON_WRITE_PRETTY`
auto_unbox	automatically unbox all atomic vectors of length 1 such that they appear as atomic elements in JSON rather than arrays of length 1.
dataframe	how to encode data.frame objects. Options 'rows' or columns'. Default: 'rows'
factor	how to encode factor objects: must be one of 'string' or 'integer' Default: 'string'
name_repair	How should unnamed items in a partially named list be handled? 'none' means to leave their names blank in JSON (which may not be valid JSON). 'minimal' means to use the integer position index of the item as its name if it is missing. Default: 'none'
num_specials	Should special numeric values (i.e. NA, NaN, Inf) be converted to a JSON `null` value or converted to a string representation e.g. "NA"/"NaN" etc. Default: 'null'
str_specials	Should a special value of `NA` in a character vector be converted to a JSON `null` value, or converted to a string "NA"? Default: 'null'
fast_numerics	Does the user guarantee that there are no NA, NaN or Inf values in the numeric vectors? Default: FALSE. If `TRUE` then numeric and integer vectors will be written to JSON using a faster method. Note: if there are NA, NaN or Inf values, an error will be thrown. Expert users are invited to also consider the `YYJSON_WRITE_ALLOW_INF_AND_NAN` and `YYJSON_WRITE_INF_AND_NAN_AS_NULL` options for `yyjson_write_flags` and should consult the `yyjson` API documentation for further details.
json_verbatim	Write strings with class 'json' directly into the result? Default: FALSE. If `json_verbatim = TRUE` and a string has the class `"json"`, then it will be written verbatim into the output.
null	How should R `NULL` values be written? Default: "null" means to write as a JSON "null" string. Other valid value is "empty_array".
yyjson_write_flag	integer vector corresponding to internal `yyjson` options. See `yyjson_write_flag` in this package, and read the yyjson API documentation for more information. This is considered an advanced option.

Value

Named list of options for writing JSON

See Also

yyjson_write_flag()

Examples

```
write_json_str(head(iris, 3), opts = opts_write_json(factor = 'integer'))
```

---

read_geojson_conn *Parse geoJSON from an R connection object.*

Description

Currently, this is not very efficient as the entire contents of the connection are read into R as a string and then the JSON parsed from there.

Usage

```
read_geojson_conn(conn, opts = list(), ...)
```

Arguments

conn	connection object. e.g. `url('https://jsonplaceholder.typicode.com/todos/1')`
opts	Named list of GeoJSON-specific options. Usually created with `opts_read_geojson()`. Default: empty `list()` to use the default options.
...	Any extra named options override those in GeoJSON-specific options - `opts`

Details

For uncompress geojson files it is faster to use `read_geojson_file()`.

Value

R object

See Also

Other JSON Parsers: `read_json_conn()`, `read_json_file()`, `read_json_raw()`, `read_json_str()`, `read_ndjson_file()`, `read_ndjson_raw()`, `read_ndjson_str()`

Examples

```
if (interactive()) {
  read_geojson_conn(gzfile("example.geojson.gz"))
}
```

`read_geojson_str` *Load GeoJSON as* `sf` *object*

Description

Coordinate reference system is always WGS84 in accordance with GeoJSON RFC.

Usage

```
read_geojson_str(str, opts = list(), ..., json_opts = list())

read_geojson_file(filename, opts = list(), ..., json_opts = list())
```

Arguments

`str`	Single string containing GeoJSON.
`opts`	Named list of GeoJSON-specific options. Usually created with `opts_read_geojson()`. Default: empty `list()` to use the default options.
`...`	Any extra named options override those in GeoJSON-specific options - `opts`
`json_opts`	Named list of vanilla JSON options as used by `read_json_str()`. This is usually created with `opts_read_json()`. Default value is an empty `list()` which means to use all the default JSON parsing options which is usually the correct thing to do when reading GeoJSON.
`filename`	Filename

Value

`sf` object

Examples

```
geojson_file <- system.file("geojson-example.json", package = 'yyjsonr')
read_geojson_file(geojson_file)
```

`read_json_conn` *Parse JSON from an R connection object.*

Description

Currently, this is not very efficient as the entire contents of the connection are read into R as a string and then the JSON parsed from there.

Usage

```
read_json_conn(conn, opts = list(), ...)
```

Arguments

`conn`	connection object. e.g. `url('https://jsonplaceholder.typicode.com/todos/1')`
`opts`	Named list of options for parsing. Usually created by `opts_read_json()`
`...`	Other named options can be used to override any options in `opts`. The valid named options are identical to arguments to `opts_read_json()`

Details

For plain text files it is faster to use `read_json_file()`.

Value

R object

See Also

Other JSON Parsers: `read_geojson_conn()`, `read_json_file()`, `read_json_raw()`, `read_json_str()`, `read_ndjson_file()`, `read_ndjson_raw()`, `read_ndjson_str()`

Examples

```
if (interactive()) {
  read_json_conn(url("https://api.github.com/users/hadley/repos"))
}
```

read_json_file *Convert JSON to R*

Description

Convert JSON to R

Usage

```
read_json_file(filename, opts = list(), ...)
```

Arguments

filename	full path to text file containing JSON.
opts	Named list of options for parsing. Usually created by opts_read_json()
...	Other named options can be used to override any options in opts. The valid named options are identical to arguments to opts_read_json()

Value

R object

See Also

Other JSON Parsers: read_geojson_conn(), read_json_conn(), read_json_raw(), read_json_str(), read_ndjson_file(), read_ndjson_raw(), read_ndjson_str()

Examples

```
tmp <- tempfile()
write_json_file(head(iris, 3), tmp)
read_json_file(tmp)
```

read_json_raw *Convert JSON in a raw vector to R*

Description

Convert JSON in a raw vector to R

Usage

```
read_json_raw(raw_vec, opts = list(), ...)
```

Arguments

raw_vec	raw vector
opts	Named list of options for parsing. Usually created by opts_read_json()
...	Other named options can be used to override any options in opts. The valid named options are identical to arguments to opts_read_json()

Value

R object

See Also

Other JSON Parsers: read_geojson_conn(), read_json_conn(), read_json_file(), read_json_str(), read_ndjson_file(), read_ndjson_raw(), read_ndjson_str()

Examples

```
raw_str <- as.raw(utf8ToInt('[1, 2, 3, "four"]'))
read_json_raw(raw_str)
```

---

read_json_str *Convert JSON in a character string to R*

Description

Convert JSON in a character string to R

Usage

```
read_json_str(str, opts = list(), ...)
```

Arguments

str	a single character string
opts	Named list of options for parsing. Usually created by opts_read_json()
...	Other named options can be used to override any options in opts. The valid named options are identical to arguments to opts_read_json()

Value

R object

See Also

Other JSON Parsers: read_geojson_conn(), read_json_conn(), read_json_file(), read_json_raw(), read_ndjson_file(), read_ndjson_raw(), read_ndjson_str()

Examples

```
read_json_str("4294967297", opts = opts_read_json(int64 = 'string'))
```

`read_ndjson_file` *Parse an NDJSON file to a data.frame or list*

Description

If reading as data.frame, each row of NDJSON becomes a row in the data.frame. If reading as a list, then each row becomes an element in the list.

Usage

```
read_ndjson_file(
  filename,
  type = c("df", "list"),
  nread = -1,
  nskip = 0,
  nprobe = 100,
  opts = list(),
  ...
)
```

Arguments

`filename`	Path to file containing NDJSON data. May e a vanilla text file or a gzipped file
`type`	The type of R object the JSON should be parsed into. Valid values are 'df' or 'list'. Default: 'df' (data.frame)
`nread`	Number of records to read. Default: -1 (reads all JSON strings)
`nskip`	Number of records to skip before starting to read. Default: 0 (skip no data)
`nprobe`	Number of lines to read to determine types for data.frame columns. Default: 100. Use `-1` to probe entire file.
`opts`	Named list of options for parsing. Usually created by `opts_read_json()`
`...`	Other named options can be used to override any options in `opts`. The valid named options are identical to arguments to `opts_read_json()`

Details

If parsing NDJSON to a data.frame it is usually better if the json objects are consistent from line-to-line. Type inference for the data.frame is done during initialisation by reading through `nprobe` lines. Warning: if there is a type-mismatch further into the file than it is probed, then you will get missing values in the data.frame, or JSON values not captured in the R data.

No flattening of the namespace is done i.e. nested object remain nested.

Value

NDJSON data read into R as list or data.frame depending on 'type' argument

See Also

Other JSON Parsers: read_geojson_conn(), read_json_conn(), read_json_file(), read_json_raw(), read_json_str(), read_ndjson_raw(), read_ndjson_str()

Examples

```
tmp <- tempfile()
write_ndjson_file(head(mtcars), tmp)
read_ndjson_file(tmp)
```

---

read_ndjson_raw *Parse an NDJSON within a raw vector to a data.frame or list*

Description

If reading as data.frame, each row of NDJSON becomes a row in the data.frame. If reading as a list, then each row becomes an element in the list.

Usage

```
read_ndjson_raw(
  x,
  type = c("df", "list"),
  nread = -1,
  nskip = 0,
  nprobe = 100,
  opts = list(),
  ...
)
```

Arguments

x	string containing NDJSON
type	The type of R object the JSON should be parsed into. Valid values are 'df' or 'list'. Default: 'df' (data.frame)
nread	Number of records to read. Default: -1 (reads all JSON strings)
nskip	Number of records to skip before starting to read. Default: 0 (skip no data)
nprobe	Number of lines to read to determine types for data.frame columns. Default: 100. Use -1 to probe entire file.
opts	Named list of options for parsing. Usually created by opts_read_json()
...	Other named options can be used to override any options in opts. The valid named options are identical to arguments to opts_read_json()

Details

If parsing NDJSON to a data.frame it is usually better if the json objects are consistent from line-to-line. Type inference for the data.frame is done during initialisation by reading through `nprobe` lines. Warning: if there is a type-mismatch further into the file than it is probed, then you will get missing values in the data.frame, or JSON values not captured in the R data.

No flattening of the namespace is done i.e. nested object remain nested.

Value

NDJSON data read into R as list or data.frame depending on `'type'` argument

See Also

Other JSON Parsers: `read_geojson_conn()`, `read_json_conn()`, `read_json_file()`, `read_json_raw()`, `read_json_str()`, `read_ndjson_file()`, `read_ndjson_str()`

Examples

```
js <- write_ndjson_raw(head(mtcars))
js
read_ndjson_raw(js, 'list')
read_ndjson_raw(js, 'df')
```

`read_ndjson_str` *Parse an NDJSON string to a data.frame or list*

Description

If reading as data.frame, each row of NDJSON becomes a row in the data.frame. If reading as a list, then each row becomes an element in the list.

Usage

```
read_ndjson_str(
  x,
  type = c("df", "list"),
  nread = -1,
  nskip = 0,
  nprobe = 100,
  opts = list(),
  ...
)
```

Arguments

x	string containing NDJSON
type	The type of R object the JSON should be parsed into. Valid values are 'df' or 'list'. Default: 'df' (data.frame)
nread	Number of records to read. Default: -1 (reads all JSON strings)
nskip	Number of records to skip before starting to read. Default: 0 (skip no data)
nprobe	Number of lines to read to determine types for data.frame columns. Default: 100. Use -1 to probe entire file.
opts	Named list of options for parsing. Usually created by opts_read_json()
...	Other named options can be used to override any options in opts. The valid named options are identical to arguments to opts_read_json()

Details

If parsing NDJSON to a data.frame it is usually better if the json objects are consistent from line-to-line. Type inference for the data.frame is done during initialisation by reading through nprobe lines. Warning: if there is a type-mismatch further into the file than it is probed, then you will get missing values in the data.frame, or JSON values not captured in the R data.

No flattening of the namespace is done i.e. nested object remain nested.

Value

NDJSON data read into R as list or data.frame depending on 'type' argument

See Also

Other JSON Parsers: read_geojson_conn(), read_json_conn(), read_json_file(), read_json_raw(), read_json_str(), read_ndjson_file(), read_ndjson_raw()

Examples

```
tmp <- tempfile()
json <- write_ndjson_str(head(mtcars))
read_ndjson_str(json, type = 'list')
```

---

validate_json_file *Validate JSON in file or string*

Description

Validate JSON in file or string

Usage

```
validate_json_file(filename, verbose = FALSE, opts = list(), ...)

validate_json_str(str, verbose = FALSE, opts = list(), ...)
```

Arguments

filename	path to file containing JSON
verbose	logical. If the JSON is not valid, should a warning be shown giving details?
opts	Named list of options for parsing. Usually created by opts_read_json()
...	Other named options can be used to override any options in opts. The valid named options are identical to arguments to opts_read_json()
str	character string containing JSON

Value

Logical value. TRUE if JSON validates as OK, otherwise FALSE

Examples

```
tmp <- tempfile()
write_json_file(head(iris, 3), tmp)
validate_json_file(tmp)
str <- write_json_str(iris)
validate_json_str(str)
```

---

write_geojson_str *Write SF to GeoJSON string*

Description

Coordinate reference system is always WGS84 in accordance with GeoJSON RFC.

Usage

```
write_geojson_str(x, opts = list(), ..., json_opts = list())

write_geojson_file(x, filename, opts = list(), ..., json_opts = list())
```

Arguments

x	sf object. Supports sf or sfc
opts	named list of options. Usually created with opts_write_geojson(). Default: empty list() to use the default options.
...	any extra named options override those in opts

json_opts	Named list of vanilla JSON options as used by write_json_str(). This is usually created with opts_write_json(). Default value is an empty list() which means to use all the default JSON writing options which is usually the correct thing to do when writing GeoJSON.
filename	filename

Value

Character string containing GeoJSON, or NULL if GeoJSON written to file.

Examples

```
geojson_file <- system.file("geojson-example.json", package = 'yyjsonr')
sf <- read_geojson_file(geojson_file)
cat(write_geojson_str(sf, json_opts = opts_write_json(pretty = TRUE)))
```

---

write_json_file *Convert R object to JSON file*

Description

Convert R object to JSON file

Usage

```
write_json_file(x, filename, opts = list(), ...)
```

Arguments

x	the object to be encoded
filename	filename
opts	Named list of serialization options. Usually created by opts_write_json()
...	Other named options can be used to override any options in opts. The valid named options are identical to arguments to opts_write_json()

Value

None

See Also

Other JSON Serializer: write_json_raw(), write_json_str(), write_ndjson_file(), write_ndjson_raw(), write_ndjson_str()

Examples

```
tmp <- tempfile()
write_json_file(head(iris, 3), tmp)
read_json_file(tmp)
```

write_json_raw *Convert R object to a raw vector of JSON data*

Description

Convert R object to a raw vector of JSON data

Usage

```
write_json_raw(x, opts = list(), ...)
```

Arguments

x	the object to be encoded
opts	Named list of serialization options. Usually created by opts_write_json()
...	Other named options can be used to override any options in opts. The valid named options are identical to arguments to opts_write_json()

Value

Raw vector containing the JSON

See Also

Other JSON Serializer: write_json_file(), write_json_str(), write_ndjson_file(), write_ndjson_raw(), write_ndjson_str()

Examples

```
js <- write_json_raw(head(iris, 3))
js
read_json_raw(js)
```

write_json_str *Convert R object to JSON string*

Description

Convert R object to JSON string

Usage

```
write_json_str(x, opts = list(), ...)
```

Arguments

x	the object to be encoded
opts	Named list of serialization options. Usually created by opts_write_json()
...	Other named options can be used to override any options in opts. The valid named options are identical to arguments to opts_write_json()

Value

Single string containing JSON

See Also

Other JSON Serializer: write_json_file(), write_json_raw(), write_ndjson_file(), write_ndjson_raw(), write_ndjson_str()

Examples

```
write_json_str(head(iris, 3), pretty = TRUE)
```

---

write_ndjson_file *Write list or data.frame object to NDJSON in a file*

Description

For list input, each element of the list is written as a single JSON string. For data.frame input, each row of the data.frame is written as aJSON string.

Usage

```
write_ndjson_file(x, filename, opts = list(), ...)
```

Arguments

x	data.frame or list to be written as multiple JSON strings
filename	JSON strings will be written to this file one-line-per-JSON string.
opts	Named list of serialization options. Usually created by opts_write_json()
...	Other named options can be used to override any options in opts. The valid named options are identical to arguments to opts_write_json()

Value

None

See Also

Other JSON Serializer: write_json_file(), write_json_raw(), write_json_str(), write_ndjson_raw(), write_ndjson_str()

Examples

```
tmp <- tempfile()
write_ndjson_file(head(mtcars), tmp)
read_ndjson_file(tmp)
```

`write_ndjson_raw` *Write list or data.frame object to NDJSON in a raw vector*

Description

For `list` input, each element of the list is written as a single JSON string. For `data.frame` input, each row of the `data.frame` is written as aJSON string.

Usage

```
write_ndjson_raw(x, opts = list(), ...)
```

Arguments

`x`	`data.frame` or `list` to be written as multiple JSON strings
`opts`	Named list of serialization options. Usually created by `opts_write_json()`
`...`	Other named options can be used to override any options in `opts`. The valid named options are identical to arguments to `opts_write_json()`

Value

Raw vector containing NDJSON character data

See Also

Other JSON Serializer: `write_json_file()`, `write_json_raw()`, `write_json_str()`, `write_ndjson_file()`, `write_ndjson_str()`

Examples

```
js <- write_ndjson_raw(head(mtcars))
js
read_ndjson_raw(js, 'list')
```

write_ndjson_str *Write list or data.frame object to NDJSON in a string*

Description

For `list` input, each element of the list is written as a single JSON string. For `data.frame` input, each row of the `data.frame` is written as aJSON string.

Usage

```
write_ndjson_str(x, opts = list(), ...)
```

Arguments

`x`	`data.frame` or `list` to be written as multiple JSON strings
`opts`	Named list of serialization options. Usually created by `opts_write_json()`
`...`	Other named options can be used to override any options in `opts`. The valid named options are identical to arguments to `opts_write_json()`

Value

String containing multiple JSON strings separated by newlines.

See Also

Other JSON Serializer: `write_json_file()`, `write_json_raw()`, `write_json_str()`, `write_ndjson_file()`, `write_ndjson_raw()`

Examples

```
write_ndjson_str(head(mtcars))
```

yyjson_read_flag *Advanced: Values for setting internal options directly on YYJSON library*

Description

This is a list of integer values used for setting flags on the `yyjson` code directly. This is an ADVANCED option and should be used with caution.

Usage

```
yyjson_read_flag
```

Format

An object of class `list` of length 16.

Details

Some of these settings overlap and conflict with code needed to handle the translation of JSON values to R.

`opts_read_json(yyjson_read_flag = c(yyjson_read_flag$x, yyjson_read_flag$y, ...))`

YYJSON_READ_NOFLAG Default option (RFC 8259 compliant):

- Read positive integer as uint64_t.
- Read negative integer as int64_t.
- Read floating-point number as double with round-to-nearest mode.
- Read integer which cannot fit in uint64_t or int64_t as double.
- Report error if double number is infinity.
- Report error if string contains invalid UTF-8 character or BOM.
- Report error on trailing commas, comments, inf and nan literals.

YYJSON_READ_INSITU Read the input data in-situ. This option allows the reader to modify and use input data to store string values, which can increase reading speed slightly. The caller should hold the input data before free the document. The input data must be padded by at least `YYJSON_PADDING_SIZE` bytes. For example: `"[1,2]"` should be `"[1,2]\0\0\0\0"`, input length should be 5.

YYJSON_READ_STOP_WHEN_DONE Stop when done instead of issuing an error if there's additional content after a JSON document. This option may be used to parse small pieces of JSON in larger data, such as "NDJSON"

YYJSON_READ_ALLOW_TRAILING_COMMAS Allow single trailing comma at the end of an object or array, such as `"[1,2,3,]"`

YYJSON_READ_ALLOW_COMMENTS Allow C-style single line and multiple line comments (non-standard).

YYJSON_READ_ALLOW_INF_AND_NAN Allow inf/nan number and literal, case-insensitive, such as 1e999, NaN, inf, -Infinity (non-standard).

YYJSON_READ_NUMBER_AS_RAW Read all numbers as raw strings (value with "YYJSON_TYPE_RAW" type), inf/nan literal is also read as raw with "ALLOW_INF_AND_NAN" flag.

YYJSON_READ_ALLOW_INVALID_UNICODE Allow reading invalid unicode when parsing string values (non-standard). Invalid characters will be allowed to appear in the string values, but invalid escape sequences will still be reported as errors. This flag does not affect the performance of correctly encoded strings. WARNING: Strings in JSON values may contain incorrect encoding when this option is used, you need to handle these strings carefully to avoid security risks.

YYJSON_READ_BIGNUM_AS_RAW Read big numbers as raw strings. These big numbers include integers that cannot be represented by "int64_t" and "uint64_t", and floating-point numbers that cannot be represented by finite "double". The flag will be overridden by "YYJSON_READ_NUMBER_AS_RAW" flag.

YYJSON_READ_ALLOW_BOM Allow UTF-8 BOM and skip it before parsing if any (non-standard)

YYJSON_READ_ALLOW_EXT_NUMBER Allow extended number formats (non-standard):

- Hexadecimal numbers
- Numbers with leading or trailing decimal point
- Numbers with a leading plus sign

YYJSON_READ_ALLOW_EXT_ESCAPE Allow extended escape sequences in strings (non-standard):

- Additional escapes
- Hex escapes
- Line continuation: backslash followed by line terminator sequences.
- Unknown escape: if backslash is followed by an unsupported character, the backslash will be removed and the character will be kept as-is.

YYJSON_READ_ALLOW_EXT_WHITESPACE Allow extended whitespace characters (non-standard):

- Vertical tab and form feed
- Line separator and paragraph separator
- Non-breaking space
- Byte order mark
- Other Unicode characters in the Zs (Separator, space) category

YYJSON_READ_ALLOW_SINGLE_QUOTED_STR Allow strings enclosed in single quotes (non-standard)

YYJSON_READ_ALLOW_UNQUOTED_KEY Allow object keys without quotes (non-standard), such as `{a:1,b:2}`. This extends the ECMAScript IdentifierName rule by allowing any non-whitespace character with code point above `U+007F`.

YYJSON_READ_JSON5 Allow JSON5 format. This flag supports all JSON5 features with some additional extensions:

- Accepts more escape sequences than JSON5.
- Unquoted keys are not limited to ECMAScript IdentifierName.
- - Allow case-insensitive NaN, Inf and Infinity literals.

Examples

```
read_json_str(
   '[12.3,] // a comment',
   opts = opts_read_json(yyjson_read_flag = c(
      yyjson_read_flag$YYJSON_READ_ALLOW_TRAILING_COMMAS,
      yyjson_read_flag$YYJSON_READ_ALLOW_COMMENTS
   ))
 )
```

yyjson_version *Version number of 'yyjson' C library*

Description

Version number of 'yyjson' C library

Usage

```
yyjson_version()
```

Value

Version of included yyjson C library as a string

Examples

```
yyjson_version()
```

yyjson_write_flag *Advanced: Values for setting internal options directly on YYJSON library*

Description

This is a list of integer values used for setting flags on the `yyjson` code directly. This is an ADVANCED option and should be used with caution.

Usage

```
yyjson_write_flag
```

Format

An object of class `list` of length 9.

Details

Some of these settings overlap and conflict with code needed to handle the translation of JSON values to R.

`opts_write_json(yyjson_write_flag = c(write_flag$x, write_flag$y, ...))`

YYJSON_WRITE_NOFLAG Default value.

- Write JSON minify.
- Report error on inf or nan number.

- Report error on invalid UTF-8 string.
- Do not escape unicode or slash.

YYJSON_WRITE_PRETTY Write JSON pretty with 4 space indent.

YYJSON_WRITE_ESCAPE_UNICODE Escape unicode as `uXXXX`, make the output ASCII only.

YYJSON_WRITE_ESCAPE_SLASHES Escape '/' as '\/'.

YYJSON_WRITE_ALLOW_INF_AND_NAN Write inf and nan number as 'Infinity' and 'NaN' literal (non-standard).

YYJSON_WRITE_INF_AND_NAN_AS_NULL Write inf and nan number as null literal. This flag will override `YYJSON_WRITE_ALLOW_INF_AND_NAN` flag.

YYJSON_WRITE_ALLOW_INVALID_UNICODE Allow invalid unicode when encoding string values (non-standard). Invalid characters in string value will be copied byte by byte. If `YYJSON_WRITE_ESCAPE_UNICODE` flag is also set, invalid character will be escaped as `U+FFFD` (replacement character). This flag does not affect the performance of correctly encoded strings.

YYJSON_WRITE_PRETTY_TWO_SPACES Write JSON pretty with 2 space indent. This flag will override `YYJSON_WRITE_PRETTY` flag.

YYJSON_WRITE_NEWLINE_AT_END Adds a newline character at the end of the JSON. This can be helpful for text editors or NDJSON

Examples

```
write_json_str("hello/there", opts = opts_write_json(
  yyjson_write_flag = yyjson_write_flag$YYJSON_WRITE_ESCAPE_SLASHES
))
```

Index