

Package ‘toon’

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Type Package

Title Token-Oriented Object Notation (TOON)

Version 0.0.1

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Description Token-Oriented Object Notation (TOON) is a compact, human-readable serialization format designed for passing structured data to Large Language Models with significantly reduced token usage. It's intended for LLM input as a lossless, drop-in representation of JSON data.

Depends R (>= 3.5.0)

URL <https://github.com/laresbernardo/toon>

BugReports <https://github.com/laresbernardo/toon/issues>

RoxygenNote 7.3.3

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Encoding UTF-8

Config/testthat/edition 3

Suggests testthat (>= 3.0.0)

NeedsCompilation no

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Repository CRAN

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Contents

as_toon	2
toon	3

Index	4
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`as_toon`*Convert R Objects to TOON (Token-Oriented Object Notation)*

Description

Converts a variety of R objects, including named lists (objects), unnamed lists, vectors (arrays), and data frames, into a character string formatted according to TOON (Token-Oriented Object Notation) specification.

Usage

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

Arguments

<code>x</code>	The R object to be converted. Supported types include: <ul style="list-style-type: none">• Named lists• Unnamed lists and atomic vectors• Data frames• Primitive types (numeric, character, logical, NULL)
<code>...</code>	Additional arguments passed to specific S3 methods (e.g., internal indentation parameters).

Details

TOON is designed as a highly human-readable, lightweight data serialization format that supports nested structures.

Value

A character vector of class `toon`, containing the fully formatted TOON string.

Examples

```
# 1. Simple Object (Named List)  
config_obj <- list(  
  version = 1.0,  
  is_active = TRUE,  
  user_id = 99  
)  
as_toon(config_obj)  
  
# 2. Expanded Array (Unnamed List)  
items <- list(  
  1, 2, 3, 4, 5, 6, 7, 8, 9, 10  
)  
as_toon(items)
```

```
"apple",  
list(color = "red", weight = 150),  
"banana"  
)  
as_toon(items)  
  
# 3. Data Frame  
df <- data.frame(  
  time = c(9.1, 15.4),  
  action = c("login", "update"),  
  success = c(TRUE, FALSE)  
)  
as_toon(df)
```

toon

Token-Oriented Object Notation (TOON)

Description

An R implementation for converting R objects (vectors, lists, data frames) into a custom, human-readable structured format called The Object Notation (TOON).

Author(s)

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See Also

Useful links:

- <https://github.com/laresbernardo/toon>
- Report bugs at <https://github.com/laresbernardo/toon/issues>

Index

`as_toon`, [2](#)

`print.toon (as_toon)`, [2](#)

`toon`, [3](#)

`toon-package (toon)`, [3](#)