

# Package ‘toon’

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**Type** Package

**Title** Token-Oriented Object Notation (TOON)

**Version** 0.0.1

**Maintainer** Bernardo Lares <laresbernardo@gmail.com>

**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>

**RoxigenNote** 7.3.3

**License** MIT + file LICENSE

**Encoding** UTF-8

**Config/testthat.edition** 3

**Suggests** testthat (>= 3.0.0)

**NeedsCompilation** no

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**Repository** CRAN

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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"> <li>• Named lists</li> <li>• Unnamed lists and atomic vectors</li> <li>• Data frames</li> <li>• Primitive types (numeric, character, logical, NULL)</li> </ul> |
| <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(
```

```
"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)
```

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**toon***Token-Oriented Object Notation (TOON)*

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**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>

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