

# Package ‘rconvertu’

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**Title** From/to Classification Converter

**Version** 1.1.0

**Description** Convert text into target classifications (e.g., ISO 3166-1) using a JSON mapping with regular expressions. Provides helpers to return the full mapping and associated metadata.

**Language** en-US

**License** MIT + file LICENSE

**Encoding** UTF-8

**Depends** R (>= 4.3)

**Imports** jsonlite

**Suggests** testthat (>= 3.0.0)

**Config/testthat/edition** 3

**URL** <https://github.com/econcz/rconvertu>

**BugReports** <https://github.com/econcz/rconvertu/issues>

**Config/roxygen2/version** 8.0.0

**NeedsCompilation** no

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cconv	<i>Convert text into target classifications (e.g., ISO 3166-1) using a JSON mapping with regular expressions.</i>
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### Description

Pure-R implementation of the **convertu** API. Converts text into a target classification using a JSON mapping, or returns mapping/metadata (info / dump modes).

### Usage

```
cconv(
  data = NULL,
  json_file = NULL,
  info = FALSE,
  dump = FALSE,
  to = NULL,
  text = character()
)
```

```
convertu(
  data = NULL,
  json_file = NULL,
  info = FALSE,
  dump = FALSE,
  to = NULL,
  text = character()
)
```

### Arguments

data	list of named lists (optional). A complete classification mapping provided directly. If supplied without <code>json_file</code> , this data will be used in-memory for conversions without reading from disk. If both <code>data</code> and <code>json_file</code> are supplied, the data is written to <code>json_file</code> and the file path is returned.
json_file	character(1). Path to the classification JSON file. If not provided, the default bundled <code>classification.json</code> is used (resolved via <code>system.file("extdata", "classification.json", package="rconvertu")</code> ). When <code>data</code> is not supplied, this file is loaded and used as the source mapping. When <code>data</code> is supplied along with <code>json_file</code> , the data is written to <code>json_file</code> .
info	logical(1). If TRUE, return only metadata/sources entries. No conversion is performed.
dump	logical(1). If TRUE, return the full mapping (filtered of metadata/sources). No conversion is performed.
to	character(1). Target field name to return from matched records (e.g., "iso3").
text	character(). One or more input strings to convert. A single string input yields a single string output; a vector yields a character vector of converted results.

## Details

Behavior:

- `info = TRUE` → returns only metadata and sources entries (no conversion).
- `dump = TRUE` → returns the full classification (no metadata/sources).
- Otherwise → converts text using regex-based matching and returns the value from the requested field to.

## Value

If `info = TRUE` or `dump = TRUE`, returns a list of records. Otherwise, returns a character vector of converted values:

- If `length(text) == 1`, returns a length-one character scalar.
- If no match is found for an input, the original value is returned.

## Data template (list of named lists)

The classification is a top-level list with three kinds of elements:

1. Many record elements (unnamed or named) with fields:
  - `regex (chr)`: pattern matching the input text.
  - `name_en (chr)`: English short name.
  - `name_fr (chr)`: French short name (optional).
  - `iso3 (chr)`: alpha-3 code (example field).
  - `iso2 (chr)`: alpha-2 code (example field).
  - `isoN (chr)`: numeric code (example field).
2. One element metadata (named list) mapping field names to their human-readable descriptions:

```
metadata = list(
  name_en = "English short name",
  name_fr = "French short name",
  iso3    = "alpha-3 code",
  iso2    = "alpha-2 code",
  isoN    = "numeric"
)
```

3. One element sources (character vector) with references:

```
sources = c(
  "https://www.iso.org/iso-3166-country-codes.html",
  "https://en.wikipedia.org/wiki/List_of_alternative_country_names"
)
```

### Examples

```
# Single conversion
cconv(to = "iso3", text = "Czech Republic")

# Multiple conversions
cconv(to = "iso3", text = c("Czech Republic", "Slovakia"))

# Show bundled metadata
cconv(info = TRUE)

# Dump classification mapping only
cconv(dump = TRUE)
```

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check\_classification *Validate a classification list.*

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### Description

Ensures the provided JSON-based classification data follows the expected structure and contains valid fields.

### Usage

```
check_classification(x)
```

### Arguments

x list. The classification object loaded via `jsonlite::fromJSON(..., simplifyVector = FALSE)`.

### Value

Logical, TRUE if valid, otherwise an error is raised.

### Examples

```
path <- system.file("extdata", "classification.json", package = "rconvertu")
cls <- jsonlite::fromJSON(path, simplifyVector = FALSE)
check_classification(cls)
```

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