

# Package ‘structenforcement’

April 7, 2026

**Title** Struct-Like Data Type Checking and Enforcement

**Version** 0.2.0

**Description** Enforcement of field types in lists. A drop-in tool to allow for dynamic input data that might be questionably parsed or cast to be coerced into the specific desired format in a reasonably performant manner.

**License** MIT + file LICENSE

**Encoding** UTF-8

**RoxygenNote** 7.3.3

**Suggests** testthat (>= 3.0.0)

**Config/testthat/edition** 3

**Imports** dplyr, lubridate, rlang

**NeedsCompilation** yes

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**Repository** CRAN

**Date/Publication** 2026-04-07 20:00:02 UTC

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bind_as_struct	<i>Bind as Struct</i>
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### Description

Given a set of lists/dataframes, attempt to join them as a dataframe with field types matching the specified template. The default and fastest approach simply relies on `dplyr::bind_rows` to use all fields present in the lists to be joined, while strict mode ensures that the template fields and only the template fields are present.

### Usage

```
bind_as_struct(template, ..., .list = NULL, strict = FALSE)
```

### Arguments

template	A named list to use as a template.
...	The lists to join
.list	A pre-built list of frames to join, as an alternative to ... Use exactly one of ... or .list.
strict	Use all and only the fields in the template. Default: FALSE

### Value

A dataframe containing the combined inputs.

### Examples

```
bind_as_struct(list("a" = character(0)), list("a" = 1), list("a" = "a"))
```

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type_check	<i>List Type Checking</i>
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### Description

Given two named objects, go through both and make the types of the second match the types of the first.

### Usage

```
type_check(
  template,
  target,
  with_cast = FALSE,
  log_items = c("casts", "missing", "excess", "debug")[c(1, 3)]
)
```

**Arguments**

- |                        |   |
|------------------------|---|
| <code>template</code>  | • A named list to use as a template.  |
| <code>target</code>    | • A named list to use as the output.  |
| <code>with_cast</code> | • If true, edits the target instead of just checking types.   |
| <code>log_items</code> | • Which debug info to print. Takes a character vector. By default, logs casts and excess fields (target fields not in template). We expect some missing for the moment. |

**Value**

The target object, with its types appropriately cast.

**Examples**

```
type_check(  
  list("a" = character(0), "b" = integer(0)),  
  data.frame("a" = c(1,2), "b" = c(3,4)),  
  TRUE, NULL  
)
```

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