Package 'tinylabels'

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Title Lightweight Variable Labels

Version 0.2.5

Description Assign, extract, or remove variable labels from R vectors.
Lightweight and dependency-free.

Imports methods, stats

Suggests testthat, vctrs, dplyr, knitr, rmarkdown

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URL https://github.com/mariusbarth/tinylabels

BugReports https://github.com/mariusbarth/tinylabels/issues

VignetteBuilder knitr

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Repository CRAN

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as.character.tiny_labelled
```
Conversion of Labelled Vectors

Description

Functions to convert labelled vectors to other types, possibly keeping the variable label and the class attribute `tiny_labelled`.

Usage

```
## S3 method for class 'tiny_labelled'
as.character(x, keep_label = TRUE, ...)

## S3 method for class 'tiny_labelled'
as.logical(x, keep_label = TRUE, ...)

## S3 method for class 'tiny_labelled'
as.integer(x, keep_label = TRUE, ...)

## S3 method for class 'tiny_labelled'
as.double(x, keep_label = TRUE, ...)

## S3 method for class 'tiny_labelled'
as.complex(x, keep_label = TRUE, ...)
```

Arguments

x	Object to be coerced
keep_label	Logical indicating whether the variable labels and class `tiny_labelled` should be kept.
...	Further arguments passed to methods

```
label_variable
```
Label Variables Using Pipes

Description

`label_variable()` can be used to assign variable labels within a workflow using the tidyverse's pipe operator.

Usage

```
label_variable(x, ...)

label_variables(x, ...)
```

Arguments

x	Either a vector or a `data.frame`.
...	Variable label(s) to be assigned. For data frames, these have to be name-value pairs, see example.

Examples

```
library(dplyr)
test <- npk %>%
  label_variable(N = "Nitrogen", P = "Phosphate")
variable_label(test)
```

---

relevel.tiny_labelled   *Reorder Levels of Labelled Factor*

Description

The levels of a factor are re-ordered so that the level specified by ref is first and the others are moved down. This is a copy from [relevel](#) in the **stats** package, but preserves the `label` attribute and class `tiny_labelled`.

Usage

```
## S3 method for class 'tiny_labelled'
relevel(x, ref, ...)
```

Arguments

x	an unordered factor.
ref	the reference level, typically a string.
...	additional arguments for future methods.

---

unlabel   *Remove Labels from Objects*

Description

Remove [variable_labels](#) from a labelled vector or from the columns of a data frame.

Usage

```
unlabel(x)
```

Arguments

x	An R object.

Value

Object as x but without variable labels and with class `tiny_labelled` removed.

`variable_label`	*Assign or Extract Variable Labels*

Description

Assign or extract variable labels of a `vector` *or* the columns (i.e., vectors) of a `data.frame`.

Usage

```
variable_label(x, ...)

## Default S3 method:
variable_label(x, ...)

## S3 method for class 'data.frame'
variable_label(x, ...)

variable_label(x) <- value

## Default S3 replacement method:
variable_label(x) <- value

## S3 replacement method for class 'data.frame'
variable_label(x) <- value

variable_labels(x, ...)

variable_labels(x) <- value
```

Arguments

x	Either a vector or a `data.frame`.
...	Further arguments that may be passed to methods.
value	Character. The variable label(s) to be assigned. If `variable_label()` is applied to a single vector, this should be a length-one argument. If applied to a `data.frame`, `value` is required to be a *named* vector or a *named* list. NULL elements of this name-value list are ignored. Check the examples for details.

Value

For vectors, `variable_label()` returns NULL or the variable label (typically of length one). For data frames, `variable_label()` returns a named list where each column corresponds to a column of the data frame.

The assignment methods `variable_label()<-` return the labelled object.

See Also

See `label_variable()` for an alternative that is compatible with the tidyverse's pipe operator.

Examples

```
# label a single vector
variable_label(letters) <- "The alphabet" # Assign
variable_label(letters)                   # Extract

# label some columns of a data frame:
variable_labels(npk) <- c(                # Assign
  N = "Nitrogen"
  , P = "Phosphate"
  , K = "Potassium"
)
variable_labels(npk)                      # Extract

# using a list on the right, character and expression can be mixed:
variable_labels(npk) <- list(             # Assign
  N = "Nitrogen"
  , P = "Phosphate"
  , K = expression(italic(K))
)
variable_labels(npk)                      # Extract
```

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