Package 'labelVector'

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Title Label Attributes for Atomic Vectors

Version 0.1.2

Description Labels are a common construct in statistical software providing a human readable description of a variable. While variable names are succinct, quick to type, and follow a language's naming conventions, labels may be more illustrative and may use plain text and spaces. R does not provide native support for labels. Some packages, however, have made this feature available. Most notably, the 'Hmisc' package provides labelling methods for a number of different object. Due to design decisions, these methods are not all exported, and so are unavailable for use in package development. The 'labelVector' package supports labels for atomic vectors in a light-weight design that is suitable for use in other packages.

Depends R (>= 2.0.0)

Suggests Hmisc, knitr, testthat

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VignetteBuilder knitr

NeedsCompilation no

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extract_labelled

Description

Extraction and replacement methods for labelled vectors.

Usage

```
## S3 method for class 'labelled'
x[i, ...]
```

```
## S3 replacement method for class 'labelled'
x[i, ...] <- value</pre>
```

Arguments

х	An atomic vector inheriting the labelled class.
i	The elements to extract.
	Arguments to pass to other methods.
value	typically a vector of similar class of length i

See Also

Extract

Examples

```
x <- set_label(1:10, "Integers")
x[1:3]
x[3] <- pi
x</pre>
```

get_label

Extract Label Attribute From a Labelled Vector

Description

Retrieve the label attribute of a labelled vector. If the vector has no label, the vector name is returned as a string.

get_label

Usage

```
get_label(x, ...)
## Default S3 method:
get_label(x, ...)
## S3 method for class 'data.frame'
get_label(x, vars = NULL, ..., return_vector = TRUE)
```

Arguments

х	An atomic vector.
	Arguments to pass to other methods.
vars	A character vector of variable names in x for which to retrieve labels. If NULL, all labels are returned.
return_vector	logical. When TRUE, a vector of the variables is returned. Otherwise, a named list mapping variable names to labels is returned. The named list can be useful for restoring labels after various transformations that may drop attributes.

See Also

set_label

Examples

is_labelled

Description

Functions to determine if a vector has a label.

Usage

```
is.labelled(x)
```

is_labelled(x)

Arguments

х

An atomic vector

Value

Returns a logical(1).

Functional Requirements

- 1. Return a logical value of length 1.
- 2. Cast an error if x is not atomic.

print.labelled Print Method for Labelled Vectors

Description

Labelled vectors are printed with their label appearing above the content of the vector.

Usage

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

Arguments

х	A vector inheriting class labelled
	Additional arguments to pass to other methods.

set_label

Description

Variable labels are a common construct in statistical software, giving users the ability to provide plain text descriptions for variables. These descriptions can be more informative of the variable's purpose, since they need not be restricted to the naming conventions imposed on variable names.

Usage

```
set_label(x, ...)
## Default S3 method:
set_label(x, label, ...)
## S3 method for class 'data.frame'
set_label(x, ..., .dots = list())
```

Arguments

х	An atomic vector
	For the default method, arguments to pass to other methods. For the data.frame method, key-pairs of the pattern variable = 'label'.
label	character(1), A character string denoting the label to assign to the variable.
.dots	for data frames, a named list of key-pairs mapping the variable name to the label.

Source

Frank E Harrell Jr, with contributions from Charles Dupont and many others. (2017). Hmisc: Harrell Miscellaneous. R package version 4.0-3. https://CRAN.R-project.org/package=Hmisc

See Also

get_label

Examples

set_label

mpg = "Miles per Gallon", gear = "Number of gears")

get_label(mtcars2)

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