

Package ‘labelled’

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Type Package

Title Manipulating Labelled Data

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Description Work with labelled data imported from 'SPSS' or 'Stata' with 'haven' or 'foreign'. This package provides useful functions to deal with ``haven_labelled" and ``haven_labelled_spss" classes introduced by 'haven' package.

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Enhances memisc

URL <https://larmarange.github.io/labelled/>,
<https://github.com/larmarange/labelled>

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copy_labels	<i>Copy variable and value labels and SPSS-style missing value</i>
-------------	--

Description

This function copies variable and value labels (including missing values) from one vector to another or from one data frame to another data frame. For data frame, labels are copied according to variable names, and only if variables are the same type in both data frames.

Usage

```
copy_labels(from, to, .strict = TRUE)

copy_labels_from(to, from, .strict = TRUE)
```

Arguments

from	A vector or a data.frame (or survey design) to copy labels from.
to	A vector or data.frame (or survey design) to copy labels to.
.strict	When from is a labelled vector, to have to be of the same type (numeric or character) in order to copy value labels and SPSS-style missing values. If this is not the case and .strict = TRUE, an error will be produced. If .strict = FALSE, only variable label will be copied.

Details

Some base R functions like `base::subset()` drop variable and value labels attached to a variable. `copy_labels` could be used to restore these attributes.

`copy_labels_from` is intended to be used with **dplyr** syntax, see examples.

Examples

```
library(dplyr)
df <- tibble(
  id = 1:3,
  happy = factor(c("yes", "no", "yes")),
  gender = labelled(c(1, 1, 2), c(female = 1, male = 2))
) %>%
  set_variable_labels(
    id = "Individual ID",
    happy = "Are you happy?",
    gender = "Gender of respondent"
  )
var_label(df)
fdf <- df %>% filter(id < 3)
var_label(fdf) # some variable labels have been lost
fdf <- fdf %>% copy_labels_from(df)
var_label(fdf)

# Alternative syntax
fdf <- subset(df, id < 3)
fdf <- copy_labels(from = df, to = fdf)
```

`dictionary_to_variable_labels`*Convert a dictionary data frame into a list of variable / value labels*

Description

These helpers could be used to generate, from a data frame corresponding to a variable dictionary, a list of variable or value labels that could be passed to `set_variable_labels()` or to `set_value_labels()`.

Usage

```
dictionary_to_variable_labels(dictionary, names_from = 1, labels_from = 2)
```

```
dictionary_to_value_labels(  
  dictionary,  
  names_from = 1,  
  values_from = 2,  
  labels_from = 3,  
  delim_entries = NULL,  
  delim_value_label = NULL,  
  data = NULL  
)
```

Arguments

<code>dictionary</code>	A data frame or a tibble containing the definitions of the variable / value labels.
<code>names_from</code>	<tidy-select> Column containing the names of the variables.
<code>labels_from</code>	<tidy-select> Column containing the labels (unused if <code>delim_value_label</code> is provided).
<code>values_from</code>	<tidy-select> Column containing the values or the pairs of values and labels (see examples).
<code>delim_entries</code>	Optional string giving the delimiter between several pairs of value and labels if provided in a unique row. NULL if each pair is defined in a separate row (see examples).
<code>delim_value_label</code>	Optional string giving the delimiter between the value and the label.
<code>data</code>	A data frame or a tibble containing the raw data to identify the type (integer, numeric, character) of each variable.

Details

It should be noted that value labels could be

Examples

```
dic <- dplyr::tibble(
  variable = c("mpg", "vs", "am", "cyl"),
  label = c("miles / gallon", "Engine", "Transmission", NA),
  values = c(NA, "0:V-Shaped,1:straight", "0:automatic,1:manual", NA)
)
dic
```

```
l <- dic %>% dictionary_to_variable_labels()
l
mtcars %>%
  set_variable_labels(.labels = l) %>%
  look_for()
```

```
v1 <- dic %>%
  dictionary_to_value_labels(
    values_from = values,
    delim_entries = ",",
    delim_value_label = ":",
    data = mtcars
  )
mtcars %>%
  set_value_labels(.labels = v1) %>%
  look_for()
```

```
dic2 <- dplyr::tibble(
  variable = c("am", "am", "vs", "vs"),
  labels = c("0:automatic", "1:manual", "0:V-shaped", "1:straight")
)
dic2 %>%
  dictionary_to_value_labels(
    delim_value_label = ":",
    data = mtcars
  )
```

```
dic3 <- dplyr::tibble(
  code = c(0, 1, 0, 1),
  label = c("automatic", "manual", "V-shaped", "straight"),
  var = c("am", "am", "vs", "vs")
)
dic3 %>%
  dictionary_to_value_labels(
    names_from = var,
    values_from = code,
    labels_from = label,
    data = mtcars
  )
```

`drop_unused_value_labels`*Drop unused value labels*

Description

Drop value labels associated to a value not present in the data.

Usage

```
drop_unused_value_labels(x)
```

Arguments

`x` A vector, a data frame or a survey design.

Examples

```
x <- labelled(c(1, 2, 2, 1), c(yes = 1, no = 2, maybe = 3))
x
drop_unused_value_labels(x)
```

`is_prefixed`*Check if a factor is prefixed*

Description

Check if a factor is prefixed

Usage

```
is_prefixed(x)
```

Arguments

`x` a factor

look_for	<i>Look for keywords variable names and descriptions / Create a data dictionary</i>
----------	---

Description

look_for() emulates the lookfor Stata command in R. It supports searching into the variable names of regular R data frames as well as into variable labels descriptions, factor levels and value labels. The command is meant to help users finding variables in large datasets.

Usage

```
look_for(  
  data,  
  ...,  
  labels = TRUE,  
  values = TRUE,  
  ignore.case = TRUE,  
  details = c("basic", "none", "full")  
)
```

```
lookfor(  
  data,  
  ...,  
  labels = TRUE,  
  values = TRUE,  
  ignore.case = TRUE,  
  details = c("basic", "none", "full")  
)
```

```
generate_dictionary(  
  data,  
  ...,  
  labels = TRUE,  
  values = TRUE,  
  ignore.case = TRUE,  
  details = c("basic", "none", "full")  
)
```

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

```
look_for_and_select(  
  data,  
  ...,  
  labels = TRUE,  
  values = TRUE,
```

```

  ignore.case = TRUE
)

convert_list_columns_to_character(x, sep_value_labels = "[ ]", sep_other = "; ")

lookfor_to_long_format(x, sep_value_labels = "[ ]")

to_gt(
  x,
  column_labels = list(pos = "#", variable = "Variable", col_type = "Type", label =
    "Variable label", values = "Values", missing = "Missing values", unique_values =
    "Unique values", na_values = "User-defined missings (values)", na_range =
    "User-defined missings (range)")
)

```

Arguments

data	a data frame or a survey object
...	optional list of keywords, a character string (or several character strings), which can be formatted as a regular expression suitable for a <code>base::grep()</code> pattern, or a vector of keywords; displays all variables if not specified
labels	whether or not to search variable labels (descriptions); TRUE by default
values	whether or not to search within values (factor levels or value labels); TRUE by default
ignore.case	whether or not to make the keywords case sensitive; TRUE by default (case is ignored during matching)
details	add details about each variable (full details could be time consuming for big data frames, FALSE is equivalent to "none" and TRUE to "full")
x	a tibble returned by <code>look_for()</code>
sep_value_labels	(string) for value labels, separator between value and name
sep_other	separator for other list columns
column_labels	Optional column labels

Details

When no keyword is provided, it will produce a data dictionary of the overall data frame.

The function looks into the variable names for matches to the keywords. If available, variable labels are included in the search scope. Variable labels of data.frame imported with **foreign** or **memisc** packages will also be taken into account (see `to_labelled()`). If no keyword is provided, it will return all variables of data.

`look_for()`, `lookfor()` and `generate_dictionary()` are equivalent.

By default, results will be summarized when printing. To deactivate default printing, use `dplyr::as_tibble()`.

`lookfor_to_long_format()` could be used to transform results with one row per factor level and per value label.

Use `convert_list_columns_to_character()` to convert named list columns into character vectors (see examples).

The function `to_gt()` transform the results of `look_for()` into a nicely formatted table using `gt::gt()`. This table could be easily be exported to a file with `gt::gt_save()`. `gt::tab_header()` could be used to add a title to the table (see examples).

`look_for_and_select()` is a shortcut for selecting some variables and applying `dplyr::select()`s to return a data frame with only the selected variables.

Value

a tibble data frame featuring the variable position, name and description (if it exists) in the original data frame

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Source

Inspired by the `lookfor` command in Stata.

See Also

`vignette("look_for")`

Examples

```
look_for(iris)

# Look for a single keyword.
look_for(iris, "petal")
look_for(iris, "s")
iris %>%
  look_for_and_select("s") %>%
  head()

# Look for with a regular expression
look_for(iris, "petal|species")
look_for(iris, "s$")

# Look for with several keywords
look_for(iris, "pet", "sp")
look_for(iris, "pet", "sp", "width")
look_for(iris, "Pet", "sp", "width", ignore.case = FALSE)

# Look_for can search within factor levels or value labels
look_for(iris, "vers")

# Quicker search without variable details
look_for(iris, details = "none")
```

```

# To obtain more details about each variable
look_for(iris, details = "full")

# To deactivate default printing, convert to tibble
look_for(iris, details = "full") %>%
  dplyr::as_tibble()

# To convert named lists into character vectors
look_for(iris) %>% convert_list_columns_to_character()

# Long format with one row per factor and per value label
look_for(iris) %>% lookfor_to_long_format()

# Both functions can be combined
look_for(iris) %>%
  lookfor_to_long_format() %>%
  convert_list_columns_to_character()

# Labelled data
d <- dplyr::tibble(
  region = labelled_spss(
    c(1, 2, 1, 9, 2, 3),
    c(north = 1, south = 2, center = 3, missing = 9),
    na_values = 9,
    label = "Region of the respondent"
  ),
  sex = labelled(
    c("f", "f", "m", "m", "m", "f"),
    c(female = "f", male = "m"),
    label = "Sex of the respondent"
  )
)
look_for(d)
d %>%
  look_for() %>%
  lookfor_to_long_format(sep_value_labels = ":")
d %>%
  look_for() %>%
  convert_list_columns_to_character(sep_value_labels = ":", sep_other = "|")

iris %>% look_for(details = TRUE) %>% to_gt()
d %>%
  generate_dictionary() %>%
  to_gt() %>%
  gt::tab_header(gt::md("**Variable dictionary**"))

```

names_prefixed_by_values

Turn a named vector into a vector of names prefixed by values

Description

Turn a named vector into a vector of names prefixed by values

Usage

```
names_prefixed_by_values(x, sep = "[ ]")
```

Arguments

x vector to be prefixed
sep (string) separator between value and name

Examples

```
df <- dplyr::tibble(
  c1 = labelled(c("M", "M", "F"), c(Male = "M", Female = "F")),
  c2 = labelled(c(1, 1, 2), c(Yes = 1, No = 2))
)
val_labels(df$c1)
val_labels(df$c1) %>% names_prefixed_by_values()
val_labels(df)
val_labels(df) %>% names_prefixed_by_values()
val_labels(df) %>% names_prefixed_by_values(sep = ":")
```

na_values

Get / Set SPSS missing values

Description

Get / Set SPSS missing values

Usage

```
na_values(x)

na_values(x) <- value

na_range(x)

na_range(x) <- value

get_na_values(x)

get_na_range(x)

set_na_values(.data, ..., .values = NA, .strict = TRUE)
```

```
set_na_range(.data, ..., .values = NA, .strict = TRUE)
```

```
is_user_na(x)
```

```
is_regular_na(x)
```

```
user_na_to_na(x)
```

```
user_na_to_regular_na(x)
```

```
user_na_to_tagged_na(x)
```

Arguments

<code>x</code>	A vector, a data frame, or a survey design.
<code>value</code>	A vector of values that should also be considered as missing (for <code>na_values</code>) or a numeric vector of length two giving the (inclusive) extents of the range (for <code>na_values</code> , use <code>-Inf</code> and <code>Inf</code> if you want the range to be open ended).
<code>.data</code>	a data frame, a survey design or a vector
<code>...</code>	name-value pairs of missing values (see examples)
<code>.values</code>	missing values to be applied to the data.frame, using the same syntax as <code>value</code> in <code>na_values(df) <- value</code> or <code>na_range(df) <- value</code> .
<code>.strict</code>	should an error be returned if some labels doesn't correspond to a column of <code>x</code> ?

Details

See [`haven::labelled_spss\(\)`](#) for a presentation of SPSS's user defined missing values.

Note that `base::is.na()` will return TRUE for user defined missing values. It will also return TRUE for regular NA values. If you want to test if a specific value is a user NA but not a regular NA, use `is_user_na()`. If you want to test if a value is a regular NA but not a user NA, not a tagged NA, use `is_regular_na()`.

You can use `user_na_to_na()` to convert user defined missing values to regular NA. Note that any value label attached to a user defined missing value will be lost. `user_na_to_regular_na()` is a synonym of `user_na_to_na()`.

The method `user_na_to_tagged_na()` will convert user defined missing values into `haven::tagged_na()`, preserving value labels. Please note that `haven::tagged_na()` are defined only for double vectors. Therefore, integer `haven_labelled_spss` vectors will be converted into double `haven_labelled` vectors; and `user_na_to_tagged_na()` cannot be applied to a character `haven_labelled_spss` vector.

`tagged_na_to_user_na()` is the opposite of `user_na_to_tagged_na()` and convert tagged NA into user defined missing values.

Value

`na_values()` will return a vector of values that should also be considered as missing. `na_range()` will return a numeric vector of length two giving the (inclusive) extents of the range.

`set_na_values()` and `set_na_range()` will return an updated copy of `.data`.

Note

get_na_values() is identical to na_values() and get_na_range() to na_range().
 set_na_values() and set_na_range() could be used with **dplyr** syntax.

See Also

[haven::labelled_spss\(\)](#), [user_na_to_na\(\)](#)

Examples

```
v <- labelled(
  c(1, 2, 2, 2, 3, 9, 1, 3, 2, NA),
  c(yes = 1, no = 3, "don't know" = 9)
)
v
na_values(v) <- 9
na_values(v)
v

is.na(v) # TRUE for the 6th and 10th values
is_user_na(v) # TRUE only for the 6th value

user_na_to_na(v)
na_values(v) <- NULL
v
na_range(v) <- c(5, Inf)
na_range(v)
v
user_na_to_na(v)
user_na_to_tagged_na(v)

# it is not recommended to mix user NAs and tagged NAs
x <- c(NA, 9, tagged_na("a"))
na_values(x) <- 9
x
is.na(x)
is_user_na(x)
is_tagged_na(x)
is_regular_na(x)

if (require(dplyr)) {
  # setting value label and user NAs
  df <- tibble(s1 = c("M", "M", "F", "F"), s2 = c(1, 1, 2, 9)) %>%
    set_value_labels(s2 = c(yes = 1, no = 2)) %>%
    set_na_values(s2 = 9)
  na_values(df)

  # removing missing values
  df <- df %>% set_na_values(s2 = NULL)
  df$s2

  # example with a vector
```

```

v <- 1:10
v <- v %>% set_na_values(5, 6, 7)
v
v %>% set_na_range(8, 10)
v %>% set_na_range(.values = c(9, 10))
v %>% set_na_values(NULL)
}

```

nolabel_to_na

Recode values with no label to NA

Description

For labelled variables, values with no label will be recoded to NA.

Usage

```
nolabel_to_na(x)
```

Arguments

x Object to recode.

Examples

```

v <- labelled(c(1, 2, 9, 1, 9), c(yes = 1, no = 2))
nolabel_to_na(v)

```

recode.haven_labelled *Recode values*

Description

Extend `dplyr::recode()` method from **dplyr** to works with labelled vectors.

Usage

```

## S3 method for class 'haven_labelled'
recode(
  .x,
  ...,
  .default = NULL,
  .missing = NULL,
  .keep_value_labels = TRUE,
  .combine_value_labels = FALSE,
  .sep = " / "
)

```

Arguments

<code>.x</code>	A vector to modify
<code>...</code>	<code><dynamic-dots></code> Replacements. For character and factor <code>.x</code> , these should be named and replacement is based only on their name. For numeric <code>.x</code> , these can be named or not. If not named, the replacement is done based on position i.e. <code>.x</code> represents positions to look for in replacements. See examples. When named, the argument names should be the current values to be replaced, and the argument values should be the new (replacement) values. All replacements must be the same type, and must have either length one or the same length as <code>.x</code> .
<code>.default</code>	If supplied, all values not otherwise matched will be given this value. If not supplied and if the replacements are the same type as the original values in <code>.x</code> , unmatched values are not changed. If not supplied and if the replacements are not compatible, unmatched values are replaced with NA. <code>.default</code> must be either length 1 or the same length as <code>.x</code> .
<code>.missing</code>	If supplied, any missing values in <code>.x</code> will be replaced by this value. Must be either length 1 or the same length as <code>.x</code> .
<code>.keep_value_labels</code>	If TRUE, keep original value labels. If FALSE, remove value labels.
<code>.combine_value_labels</code>	If TRUE, will combine original value labels to generate new value labels. Note that unexpected results could be obtained if a same old value is recoded into several different new values.
<code>.sep</code>	Separator to be used when combining value labels.

See Also

[dplyr::recode\(\)](#)

Examples

```
x <- labelled(1:3, c(yes = 1, no = 2))
x
dplyr::recode(x, `3` = 2L)

# do not keep value labels
dplyr::recode(x, `3` = 2L, .keep_value_labels = FALSE)

# be careful, changes are not of the same type (here integers),
# NA are created
dplyr::recode(x, `3` = 2)

# except if you provide .default or new values for all old values
dplyr::recode(x, `1` = 1, `2` = 1, `3` = 2)

# if you change the type of the vector (here transformed into character)
# value labels are lost
dplyr::recode(x, `3` = "b", .default = "a")
```

```

# use .keep_value_labels = FALSE to avoid a warning
dplyr::recode(x, `3` = "b", .default = "a", .keep_value_labels = FALSE)

# combine value labels
x <- labelled(
  1:4,
  c(
    "strongly agree" = 1,
    "agree" = 2,
    "disagree" = 3,
    "strongly disagree" = 4
  )
)
dplyr::recode(
  x,
  `1` = 1L,
  `2` = 1L,
  `3` = 2L,
  `4` = 2L,
  .combine_value_labels = TRUE
)
dplyr::recode(
  x,
  `2` = 1L,
  `4` = 3L,
  .combine_value_labels = TRUE
)
dplyr::recode(
  x,
  `2` = 1L,
  `4` = 3L,
  .combine_value_labels = TRUE,
  .sep = " or "
)
dplyr::recode(
  x,
  `2` = 1L,
  .default = 2L,
  .combine_value_labels = TRUE
)

# example when combining some values without a label
y <- labelled(1:4, c("strongly agree" = 1))
dplyr::recode(y, `2` = 1L, `4` = 3L, .combine_value_labels = TRUE)

```

 recode_if

Recode some values based on condition

Description

Recode some values based on condition

Usage

```
recode_if(x, condition, true)
```

Arguments

x	vector to be recoded
condition	logical vector of same length as x
true	values to use for TRUE values of condition. It must be either the same length as x, or length 1.

Value

Returns x with values replaced by true when condition is TRUE and unchanged when condition is FALSE or NA. Variable and value labels are preserved unchanged.

Examples

```
v <- labelled(c(1, 2, 2, 9), c(yes = 1, no = 2))
v %>% recode_if(v == 9, NA)
if (require(dplyr)) {
  df <- tibble(s1 = c("M", "M", "F"), s2 = c(1, 2, 1)) %>%
    set_value_labels(
      s1 = c(Male = "M", Female = "F"),
      s2 = c(A = 1, B = 2)
    ) %>%
    set_variable_labels(s1 = "Gender", s2 = "Group")

  df <- df %>%
    mutate(
      s3 = s2 %>% recode_if(s1 == "F", 2),
      s4 = s2 %>% recode_if(s1 == "M", s2 + 10)
    )
  df
  df %>% look_for()
}
```

remove_attributes	<i>Remove attributes</i>
-------------------	--------------------------

Description

This function removes specified attributes. When applied to a data.frame, it will also remove recursively the specified attributes to each column of the data.frame.

Usage

```
remove_attributes(x, attributes)
```

Arguments

x an object
 attributes a character vector indicating attributes to remove

Examples

```
## Not run:
library(haven)
path <- system.file("examples", "iris.sav", package = "haven")
d <- read_sav(path)
str(d)
d <- remove_attributes(d, "format.spss")
str(d)

## End(Not run)
```

remove_labels	<i>Remove variable label, value labels and user defined missing values</i>
---------------	--

Description

Use `remove_var_label()` to remove variable label, `remove_val_labels()` to remove value labels, `remove_user_na()` to remove user defined missing values (*na_values* and *na_range*) and `remove_labels()` to remove all.

Usage

```
remove_labels(
  x,
  user_na_to_na = FALSE,
  keep_var_label = FALSE,
  user_na_to_tagged_na = FALSE
)

remove_var_label(x)

remove_val_labels(x)

remove_user_na(x, user_na_to_na = FALSE, user_na_to_tagged_na = FALSE)
```

Arguments

x A vector, a data frame or a survey design.
 user_na_to_na Convert user defined missing values into NA?
 keep_var_label Keep variable label?

user_na_to_tagged_na

Convert user defined missing values into tagged NA? It could be applied only to numeric vectors. Note that integer labelled vectors will be converted to double labelled vectors.

Details

Be careful with `remove_user_na()` and `remove_labels()`, user defined missing values will not be automatically converted to NA, except if you specify `user_na_to_na = TRUE`. `user_na_to_na(x)` is an equivalent of `remove_user_na(x, user_na_to_na = TRUE)`.

If you prefer to convert variables with value labels into factors, use `to_factor()` or use `unlabelled()`.

Examples

```
x <- labelled_spss(1:10, c(Good = 1, Bad = 8), na_values = c(9, 10))
var_label(x) <- "A variable"
x

remove_labels(x)
remove_labels(x, user_na_to_na = TRUE)
remove_user_na(x, user_na_to_na = TRUE)
remove_user_na(x, user_na_to_tagged_na = TRUE)
```

sort_val_labels	<i>Sort value labels</i>
-----------------	--------------------------

Description

Sort value labels according to values or to labels

Usage

```
sort_val_labels(x, according_to = c("values", "labels"), decreasing = FALSE)
```

Arguments

x	A labelled vector or a data.frame
according_to	According to values or to labels?
decreasing	In decreasing order?

Examples

```
v <- labelled(c(1, 2, 3), c(maybe = 2, yes = 1, no = 3))
v
sort_val_labels(v)
sort_val_labels(v, decreasing = TRUE)
sort_val_labels(v, "1")
sort_val_labels(v, "1", TRUE)
```

tagged_na_to_user_na *Convert tagged NAs into user NAs*

Description

`tagged_na_to_user_na()` is the opposite of `user_na_to_tagged_na()` and convert tagged NA into user defined missing values (see `labelled_spss()`).

Usage

```
tagged_na_to_user_na(x, user_na_start = NULL)
```

```
tagged_na_to_regular_na(x)
```

Arguments

<code>x</code>	a vector, a data frame or a survey design
<code>user_na_start</code>	minimum value of the new user na, if NULL, computed automatically (maximum of observed values + 1)

Details

`tagged_na_to_regular_na()` converts tagged NAs into regular NAs.

Examples

```
x <- c(1:5, tagged_na("a"), tagged_na("z"), NA)
x
print_tagged_na(x)
tagged_na_to_user_na(x)
tagged_na_to_user_na(x, user_na_start = 10)

y <- c(1, 0, 1, tagged_na("r"), 0, tagged_na("d"))
val_labels(y) <- c(
  no = 0, yes = 1,
  "don't know" = tagged_na("d"),
  refusal = tagged_na("r")
)
y
tagged_na_to_user_na(y, user_na_start = 8)
tagged_na_to_regular_na(y)
tagged_na_to_regular_na(y) %>% is_tagged_na()
```

to_character	<i>Convert input to a character vector</i>
--------------	--

Description

By default, `to_character()` is a wrapper for `base::as.character()`. For labelled vector, `to_character` allows to specify if value, labels or labels prefixed with values should be used for conversion.

Usage

```
to_character(x, ...)  
  
## S3 method for class 'double'  
to_character(x, explicit_tagged_na = FALSE, ...)  
  
## S3 method for class 'haven_labelled'  
to_character(  
  x,  
  levels = c("labels", "values", "prefixed"),  
  nolabel_to_na = FALSE,  
  user_na_to_na = FALSE,  
  explicit_tagged_na = FALSE,  
  ...  
)  
  
## S3 method for class 'data.frame'  
to_character(  
  x,  
  levels = c("labels", "values", "prefixed"),  
  nolabel_to_na = FALSE,  
  user_na_to_na = FALSE,  
  explicit_tagged_na = FALSE,  
  labelled_only = TRUE,  
  ...  
)  
  
## S3 method for class 'survey.design'  
to_character(  
  x,  
  levels = c("labels", "values", "prefixed"),  
  nolabel_to_na = FALSE,  
  user_na_to_na = FALSE,  
  explicit_tagged_na = FALSE,  
  labelled_only = TRUE,  
  ...  
)
```

Arguments

x	Object to coerce to a character vector.
...	Other arguments passed down to method.
explicit_tagged_na	should tagged NA be kept?
levels	What should be used for the factor levels: the labels, the values or labels prefixed with values?
no_label_to_na	Should values with no label be converted to NA?
user_na_to_na	user defined missing values into NA?
labelled_only	for a data.frame, convert only labelled variables to factors?

Details

If some values doesn't have a label, automatic labels will be created, except if `no_label_to_na` is `TRUE`.

When applied to a `data.frame`, only labelled vectors are converted by default to character. Use `labelled_only = FALSE` to convert all variables to characters.

Examples

```
v <- labelled(
  c(1, 2, 2, 2, 3, 9, 1, 3, 2, NA),
  c(yes = 1, no = 3, "don't know" = 9)
)
to_character(v)
to_character(v, no_label_to_na = TRUE)
to_character(v, "v")
to_character(v, "p")

df <- data.frame(
  a = labelled(c(1, 1, 2, 3), labels = c(No = 1, Yes = 2)),
  b = labelled(c(1, 1, 2, 3), labels = c(No = 1, Yes = 2, DK = 3)),
  c = labelled(
    c("a", "a", "b", "c"),
    labels = c(No = "a", Maybe = "b", Yes = "c")
  ),
  d = 1:4,
  e = factor(c("item1", "item2", "item1", "item2")),
  f = c("itemA", "itemA", "itemB", "itemB"),
  stringsAsFactors = FALSE
)

if (require(dplyr)) {
  glimpse(df)
  glimpse(to_character(df))
  glimpse(to_character(df, labelled_only = FALSE))
}
```

to_factor	<i>Convert input to a factor.</i>
-----------	-----------------------------------

Description

The base function `base::as.factor()` is not a generic, but this variant is. By default, `to_factor()` is a wrapper for `base::as.factor()`. Please note that `to_factor()` differs slightly from `haven::as_factor()` method provided by **haven** package.

`unlabelled(x)` is a shortcut for `to_factor(x, strict = TRUE, unclass = TRUE, labelled_only = TRUE)`.

Usage

```
to_factor(x, ...)  
  
## S3 method for class 'haven_labelled'  
to_factor(  
  x,  
  levels = c("labels", "values", "prefixed"),  
  ordered = FALSE,  
  nolabel_to_na = FALSE,  
  sort_levels = c("auto", "none", "labels", "values"),  
  decreasing = FALSE,  
  drop_unused_labels = FALSE,  
  user_na_to_na = FALSE,  
  strict = FALSE,  
  unclass = FALSE,  
  explicit_tagged_na = FALSE,  
  ...  
)  
  
## S3 method for class 'data.frame'  
to_factor(  
  x,  
  levels = c("labels", "values", "prefixed"),  
  ordered = FALSE,  
  nolabel_to_na = FALSE,  
  sort_levels = c("auto", "none", "labels", "values"),  
  decreasing = FALSE,  
  labelled_only = TRUE,  
  drop_unused_labels = FALSE,  
  user_na_to_na = FALSE,  
  strict = FALSE,  
  unclass = FALSE,  
  explicit_tagged_na = FALSE,  
  ...  
)
```

```

)

## S3 method for class 'survey.design'
to_factor(
  x,
  levels = c("labels", "values", "prefixed"),
  ordered = FALSE,
  nolabel_to_na = FALSE,
  sort_levels = c("auto", "none", "labels", "values"),
  decreasing = FALSE,
  labelled_only = TRUE,
  drop_unused_labels = FALSE,
  user_na_to_na = FALSE,
  strict = FALSE,
  unclass = FALSE,
  explicit_tagged_na = FALSE,
  ...
)

unlabelled(x, ...)

```

Arguments

<code>x</code>	Object to coerce to a factor.
<code>...</code>	Other arguments passed down to method.
<code>levels</code>	What should be used for the factor levels: the labels, the values or labels prefixed with values?
<code>ordered</code>	TRUE for ordinal factors, FALSE (default) for nominal factors.
<code>nolabel_to_na</code>	Should values with no label be converted to NA?
<code>sort_levels</code>	How the factor levels should be sorted? (see Details)
<code>decreasing</code>	Should levels be sorted in decreasing order?
<code>drop_unused_labels</code>	Should unused value labels be dropped? (applied only if <code>strict = FALSE</code>)
<code>user_na_to_na</code>	Convert user defined missing values into NA?
<code>strict</code>	Convert to factor only if all values have a defined label?
<code>unclass</code>	If not converted to a factor (when <code>strict = TRUE</code>), convert to a character or a numeric factor by applying <code>base::unclass()</code> ?
<code>explicit_tagged_na</code>	Should tagged NA (cf. <code>haven::tagged_na()</code>) be kept as explicit factor levels?
<code>labelled_only</code>	for a data.frame, convert only labelled variables to factors?

Details

If some values doesn't have a label, automatic labels will be created, except if `nolabel_to_na` is TRUE.

If `sort_levels == 'values'`, the levels will be sorted according to the values of `x`. If `sort_levels == 'labels'`, the levels will be sorted according to labels' names. If `sort_levels == 'none'`, the levels will be in the order the value labels are defined in `x`. If some labels are automatically created, they will be added at the end. If `sort_levels == 'auto'`, `sort_levels == 'none'` will be used, except if some values doesn't have a defined label. In such case, `sort_levels == 'values'` will be applied.

When applied to a `data.frame`, only labelled vectors are converted by default to a factor. Use `labelled_only = FALSE` to convert all variables to factors.

`unlabelled()` is a shortcut for quickly removing value labels of a vector or of a `data.frame`. If all observed values have a value label, then the vector will be converted into a factor. Otherwise, the vector will be unclassed. If you want to remove value labels in all cases, use `remove_val_labels()`.

Examples

```
v <- labelled(
  c(1, 2, 2, 2, 3, 9, 1, 3, 2, NA),
  c(yes = 1, no = 3, "don't know" = 9)
)
to_factor(v)
to_factor(v, nlabel_to_na = TRUE)
to_factor(v, "p")
to_factor(v, sort_levels = "v")
to_factor(v, sort_levels = "n")
to_factor(v, sort_levels = "l")

x <- labelled(c("H", "M", "H", "L"), c(low = "L", medium = "M", high = "H"))
to_factor(x, ordered = TRUE)

# Strict conversion
v <- labelled(c(1, 1, 2, 3), labels = c(No = 1, Yes = 2))
to_factor(v)
to_factor(v, strict = TRUE) # Not converted because 3 does not have a label
to_factor(v, strict = TRUE, unclass = TRUE)

df <- data.frame(
  a = labelled(c(1, 1, 2, 3), labels = c(No = 1, Yes = 2)),
  b = labelled(c(1, 1, 2, 3), labels = c(No = 1, Yes = 2, DK = 3)),
  c = labelled(
    c("a", "a", "b", "c"),
    labels = c(No = "a", Maybe = "b", Yes = "c")
  ),
  d = 1:4,
  e = factor(c("item1", "item2", "item1", "item2")),
  f = c("itemA", "itemA", "itemB", "itemB"),
  stringsAsFactors = FALSE
)
if (require(dplyr)) {
  glimpse(df)
  glimpse(unlabelled(df))
}
```

to_labelled	<i>Convert to labelled data</i>
-------------	---------------------------------

Description

Convert a factor or data imported with **foreign** or **memisc** to labelled data.

Usage

```
to_labelled(x, ...)

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

## S3 method for class 'list'
to_labelled(x, ...)

## S3 method for class 'data.set'
to_labelled(x, ...)

## S3 method for class 'importer'
to_labelled(x, ...)

foreign_to_labelled(x)

memisc_to_labelled(x)

## S3 method for class 'factor'
to_labelled(x, labels = NULL, .quiet = FALSE, ...)
```

Arguments

x	Factor or dataset to convert to labelled data frame
...	Not used
labels	When converting a factor only: an optional named vector indicating how factor levels should be coded. If a factor level is not found in labels, it will be converted to NA.
.quiet	do not display warnings for prefixed factors with duplicated codes

Details

to_labelled() is a general wrapper calling the appropriate sub-functions.

memisc_to_labelled() converts a memisc::data.set()]‘ object created with **memisc** package to a labelled data frame.

foreign_to_labelled() converts data imported with [foreign::read.spss\(\)](#) or [foreign::read.dta\(\)](#) from **foreign** package to a labelled data frame, i.e. using [haven::labelled\(\)](#). Factors will

not be converted. Therefore, you should use `use.value.labels = FALSE` when importing with `foreign::read.spss()` or `convert.factors = FALSE` when importing with `foreign::read.dta()`.

To convert correctly defined missing values imported with `foreign::read.spss()`, you should have used `to.data.frame = FALSE` and `use.missings = FALSE`. If you used the option `to.data.frame = TRUE`, meta data describing missing values will not be attached to the import. If you used `use.missings = TRUE`, missing values would have been converted to NA.

So far, missing values defined in **Stata** are always imported as NA by `foreign::read.dta()` and could not be retrieved by `foreign_to_labelled()`.

If you convert a labelled vector into a factor with prefix, i.e. by using `to_factor(levels = "prefixed")`, `to_labelled.factor()` is able to reconvert it to a labelled vector with same values and labels.

Value

A tbl data frame or a labelled vector.

See Also

`haven::labelled()`, `foreign::read.spss()`, `foreign::read.dta()`, `memisc::data.set()`, `memisc::importer`, `to_factor()`.

Examples

```
## Not run:
# from foreign
library(foreign)
sav <- system.file("files", "electric.sav", package = "foreign")
df <- to_labelled(read.spss(
  sav,
  to.data.frame = FALSE,
  use.value.labels = FALSE,
  use.missings = FALSE
))

# from memisc
library(memisc)
nes1948.por <- UnZip("anes/NES1948.ZIP", "NES1948.POR", package = "memisc")
nes1948 <- spss.portable.file(nes1948.por)
ds <- as.data.set(nes1948)
df <- to_labelled(ds)

## End(Not run)

# Converting factors to labelled vectors
f <- factor(
  c("yes", "yes", "no", "no", "don't know", "no", "yes", "don't know")
)
to_labelled(f)
to_labelled(f, c("yes" = 1, "no" = 2, "don't know" = 9))
to_labelled(f, c("yes" = 1, "no" = 2))
```

```

to_labelled(f, c("yes" = "Y", "no" = "N", "don't know" = "DK"))

s1 <- labelled(c("M", "M", "F"), c(Male = "M", Female = "F"))
labels <- val_labels(s1)
f1 <- to_factor(s1)
f1

to_labelled(f1)
identical(s1, to_labelled(f1))
to_labelled(f1, labels)
identical(s1, to_labelled(f1, labels))

l <- labelled(
  c(1, 1, 2, 2, 9, 2, 1, 9),
  c("yes" = 1, "no" = 2, "don't know" = 9)
)
f <- to_factor(l, levels = "p")
f
to_labelled(f)
identical(to_labelled(f), l)

```

unique_tagged_na

Unique elements, duplicated, ordering and sorting with tagged NAs

Description

These adaptations of `base::unique()`, `base::duplicated()`, `base::order()` and `base::sort()` treats tagged NAs as distinct values.

Usage

```

unique_tagged_na(x, fromLast = FALSE)

duplicated_tagged_na(x, fromLast = FALSE)

order_tagged_na(
  x,
  na.last = TRUE,
  decreasing = FALSE,
  method = c("auto", "shell", "radix"),
  na_decreasing = decreasing,
  untagged_na_last = TRUE
)

sort_tagged_na(
  x,
  decreasing = FALSE,
  na.last = TRUE,
  na_decreasing = decreasing,

```

```

  untagged_na_last = TRUE
)

```

Arguments

x	a vector
fromLast	logical indicating if duplication should be considered from the last
na.last	if TRUE, missing values in the data are put last; if FALSE, they are put first
decreasing	should the sort order be increasing or decreasing?
method	the method to be used, see base::order()
na_decreasing	should the sort order for tagged NAs value be
untagged_na_last	should untagged NAs be sorted after tagged NAs? increasing or decreasing?

Examples

```

x <- c(1, 2, tagged_na("a"), 1, tagged_na("z"), 2, tagged_na("a"), NA)
x %>% print_tagged_na()

unique(x) %>% print_tagged_na()
unique_tagged_na(x) %>% print_tagged_na()

duplicated(x)
duplicated_tagged_na(x)

order(x)
order_tagged_na(x)

sort(x, na.last = TRUE) %>% print_tagged_na()
sort_tagged_na(x) %>% print_tagged_na()

```

update_labelled

Update labelled data to last version

Description

Labelled data imported with **haven** version 1.1.2 or before or created with [haven::labelled\(\)](#) version 1.1.0 or before was using "labelled" and "labelled_spss" classes.

Usage

```

update_labelled(x)

## S3 method for class 'labelled'
update_labelled(x)

## S3 method for class 'haven_labelled_spss'

```

```

update_labelled(x)

## S3 method for class 'haven_labelled'
update_labelled(x)

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

```

Arguments

`x` An object (vector or data.frame) to convert.

Details

Since version 2.0.0 of these two packages, "haven_labelled" and "haven_labelled_spss" are used instead.

Since haven 2.3.0, "haven_labelled" class has been evolving using now **vctrs** package.

`update_labelled()` convert labelled vectors from the old to the new classes and to reconstruct all labelled vectors with the last version of the package.

See Also

[haven::labelled\(\)](#), [haven::labelled_spss\(\)](#)

```

update_variable_labels_with
  Update variable/value labels with a function

```

Description

Update variable/value labels with a function

Usage

```
update_variable_labels_with(.data, .fn, .cols = dplyr::everything(), ...)
```

```
update_value_labels_with(.data, .fn, .cols = dplyr::everything(), ...)
```

Arguments

<code>.data</code>	A data frame, a data frame extension (e.g. a tibble) or a survey design
<code>.fn</code>	A function used to transform the variable/value labels of the selected <code>.cols</code> .
<code>.cols</code>	Columns to update; defaults to all columns. Use tidy selection.
<code>...</code>	additional arguments passed onto <code>.fn</code> .

Details

For `update_variable_labels_with()`, it is possible to access the name of the variable inside `.fn` by using `names()`, i.e. `.fn` receive a named character vector (see example). `.fn` can return `as.character(NA)` to remove a variable label.

Examples

```
df <- iris %>%
  set_variable_labels(
    Sepal.Length = "Length of sepal",
    Sepal.Width = "Width of sepal",
    Petal.Length = "Length of petal",
    Petal.Width = "Width of petal",
    Species = "Species"
  )
df$Species <- to_labelled(df$Species)
df %>% look_for()
df %>%
  update_variable_labels_with(toupper) %>%
  look_for()

# accessing variable names with names()
df %>%
  update_variable_labels_with(function(x){tolower(names(x))}) %>%
  look_for()

df %>%
  update_variable_labels_with(toupper, .cols = dplyr::starts_with("S")) %>%
  look_for()
df %>%
  update_value_labels_with(toupper) %>%
  look_for()
```

 val_labels

Get / Set value labels

Description

Get / Set value labels

Usage

```
val_labels(x, prefixed = FALSE)
```

```
val_labels(x, null_action = c("unclass", "labelled")) <- value
```

```
val_label(x, v, prefixed = FALSE)
```

```
val_label(x, v, null_action = c("unclass", "labelled")) <- value
```

```

get_value_labels(x, prefixed = FALSE)

set_value_labels(
  .data,
  ...,
  .labels = NA,
  .strict = TRUE,
  .overwrite = TRUE,
  .null_action = c("unclass", "labelled")
)

add_value_labels(
  .data,
  ...,
  .strict = TRUE,
  .null_action = c("unclass", "labelled")
)

remove_value_labels(
  .data,
  ...,
  .strict = TRUE,
  .null_action = c("unclass", "labelled")
)

```

Arguments

x	A vector, a data frame or a survey design
prefixed	Should labels be prefixed with values?
null_action, .null_action	for advanced users, if value = NULL, unclass the vector (default) or force/keep haven_labelled class (if null_action = "labelled")
value	A named vector for val_labels() (see haven::labelled()) or a character string for val_label(). NULL to remove the labels (except if null_action = "labelled"). For data frames and survey design, it could also be a named list with a vector of value labels per variable.
v	A single value.
.data	a data frame or a vector
...	name-value pairs of value labels (see examples)
.labels	value labels to be applied to the data.frame, using the same syntax as value in val_labels(df) <- value.
.strict	should an error be returned if some labels doesn't correspond to a column of x?
.overwrite	If value labels are already defined, overwrite them?

Value

val_labels() will return a named vector. val_label() will return a single character string.

set_value_labels(), add_value_labels() and remove_value_labels() will return an updated copy of .data.

Note

get_value_labels() is identical to val_labels().

set_value_labels(), add_value_labels() and remove_value_labels() could be used with **dplyr** syntax. While set_value_labels() will replace the list of value labels, add_value_labels() and remove_value_labels() will update that list (see examples).

set_value_labels() could also be applied to a vector / a data.frame column. In such case, you can provide a vector of value labels using .labels or several name-value pairs of value labels (see example). You could consider [dictionary_to_value_labels\(\)](#) to generate a list of variable labels from a dictionary data frame. Similarly, add_value_labels() and remove_value_labels() could also be applied on vectors.

Examples

```
v <- labelled(
  c(1, 2, 2, 2, 3, 9, 1, 3, 2, NA),
  c(yes = 1, no = 3, "don't know" = 9)
)
val_labels(v)
val_labels(v, prefixed = TRUE)
val_label(v, 2)
val_label(v, 2) <- "maybe"
v
val_label(v, 9) <- NULL
v
val_labels(v, null_action = "labelled") <- NULL
v
val_labels(v) <- NULL
v
if (require(dplyr)) {
  # setting value labels
  df <- tibble(s1 = c("M", "M", "F"), s2 = c(1, 1, 2)) %>%
    set_value_labels(
      s1 = c(Male = "M", Female = "F"),
      s2 = c(Yes = 1, No = 2)
    )
  val_labels(df)

  # updating value labels
  df <- df %>% add_value_labels(s2 = c(Unknown = 9))
  df$s2

  # removing a value labels
  df <- df %>% remove_value_labels(s2 = 9)
  df$s2
}
```

```
# removing all value labels
df <- df %>% set_value_labels(s2 = NULL)
df$s2

# example on a vector
v <- 1:4
v <- set_value_labels(v, min = 1, max = 4)
v
v %>% set_value_labels(middle = 3)
v %>% set_value_labels(NULL)
v %>% set_value_labels(.labels = c(a = 1, b = 2, c = 3, d = 4))
v %>% add_value_labels(between = 2)
v %>% remove_value_labels(4)
}
```

val_labels_to_na	<i>Recode value labels to NA</i>
------------------	----------------------------------

Description

For labelled variables, values with a label will be recoded to NA.

Usage

```
val_labels_to_na(x)
```

Arguments

x Object to recode.

See Also

[haven::zap_labels\(\)](#)

Examples

```
v <- labelled(c(1, 2, 9, 1, 9), c(dk = 9))
val_labels_to_na(v)
```

var_label	<i>Get / Set a variable label</i>
-----------	-----------------------------------

Description

Get / Set a variable label

Usage

```
var_label(x, ...)  
  
## S3 method for class 'data.frame'  
var_label(  
  x,  
  unlist = FALSE,  
  null_action = c("keep", "fill", "skip", "na", "empty"),  
  recurse = FALSE,  
  ...  
)  
  
## S3 method for class 'survey.design'  
var_label(  
  x,  
  unlist = FALSE,  
  null_action = c("keep", "fill", "skip", "na", "empty"),  
  recurse = FALSE,  
  ...  
)  
  
var_label(x) <- value  
  
get_variable_labels(x, ...)  
  
set_variable_labels(  
  .data,  
  ...,  
  .labels = NA,  
  .strict = TRUE,  
  .overwrite = TRUE  
)  
  
label_attribute(x)  
  
get_label_attribute(x)  
  
set_label_attribute(x, value, .overwrite = TRUE)
```

```
label_attribute(x) <- value
```

Arguments

x	a vector or a data.frame
...	name-value pairs of variable labels (see examples)
unlist	for data frames and survey design, return a named vector instead of a list
null_action	for data frames and survey design, by default NULL will be returned for columns with no variable label. Use "fill" to populate with the column name instead, "skip" to remove such values from the returned list, "na" to populate with NA or "empty" to populate with an empty string ("").
recurse	if TRUE, will apply var_label() on packed columns (see tidyr::pack()) to return the variable labels of each sub-column; otherwise, the label of the group of columns will be returned.
value	a character string or NULL to remove the label For data frames, with var_label(), it could also be a named list or a character vector of same length as the number of columns in x.
.data	a data frame, a survey design or a vector
.labels	variable labels to be applied to the data.frame, using the same syntax as value in var_label(df) <- value.
.strict	should an error be returned if some labels doesn't correspond to a column of x?
.overwrite	if a variable label is already defined, overwrite it?

Details

get_variable_labels() is identical to var_label().

For data frames and survey design, if you are using var_label()<- and if value is a named list, only elements whose name will match a column of the data frame will be taken into account. If value is a character vector, labels should be in the same order as the columns of the data frame / survey design. You could consider [dictionary_to_variable_labels\(\)](#) to generate a list of variable labels from a dictionary data frame.

If you are using label_attribute()<- or set_label_attribute() on a data frame, the label attribute will be attached to the data frame itself, not to a column of the data frame.

If you are using packed columns (see [tidyr::pack\(\)](#)), please read the dedicated vignette.

Value

set_variable_labels() will return an updated copy of .data.

Note

set_variable_labels() could be used with **dplyr** syntax.

Examples

```

var_label(iris$Sepal.Length)
var_label(iris$Sepal.Length) <- "Length of the sepal"
## Not run:
View(iris)

## End(Not run)
# To remove a variable label
var_label(iris$Sepal.Length) <- NULL
# To change several variable labels at once
var_label(iris) <- c(
  "sepal length", "sepal width", "petal length",
  "petal width", "species"
)
var_label(iris)
var_label(iris) <- list(
  Petal.Width = "width of the petal",
  Petal.Length = "length of the petal",
  Sepal.Width = NULL,
  Sepal.Length = NULL
)
var_label(iris)
var_label(iris, null_action = "fill")
var_label(iris, null_action = "skip")
var_label(iris, unlist = TRUE)

#
if (require(dplyr)) {
  # adding some variable labels
  df <- tibble(s1 = c("M", "M", "F"), s2 = c(1, 1, 2)) %>%
    set_variable_labels(s1 = "Sex", s2 = "Yes or No?")
  var_label(df)

  # removing a variable label
  df <- df %>% set_variable_labels(s2 = NULL)
  var_label(df$s2)

  # Set labels from dictionary, e.g. as read from external file
  # One description is missing, one has no match
  description <- tibble(
    name = c(
      "Sepal.Length", "Sepal.Width", "Petal.Length", "Petal.Width",
      "Something"
    ),
    label = c(
      "Sepal length", "Sepal width", "Petal length", "Petal width",
      "something"
    )
  )
  var_labels <- stats::setNames(as.list(description$label), description$name)
  iris_labelled <- iris %>%
    set_variable_labels(.labels = var_labels, .strict = FALSE)
}

```

```
var_label(iris_labelled)

# defining variable labels derived from variable names
if (require(snakecase)) {
  iris <- iris %>%
    set_variable_labels(.labels = to_sentence_case(names(iris)))
  var_label(iris)
}

# example with a vector
v <- 1:5
v <- v %>% set_variable_labels("a variable label")
v
v %>% set_variable_labels(NULL)
}
```

x_haven_2.0

Datasets for testing

Description

These datasets are used to test compatibility with foreign (spss_foreign), or haven_2.0 (x_haven_2.0, x_spss_haven_2.0) packages

Usage

x_haven_2.0

x_spss_haven_2.0

spss_file

dta_file

Format

An object of class haven_labelled of length 6.

An object of class haven_labelled_spss (inherits from haven_labelled) of length 10.

An object of class list of length 13.

An object of class data.frame with 47 rows and 6 columns.

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