Package 'pedalfast.data'

September 16, 2024

September 10, 2024
Title PEDALFAST Data
Version 1.0.2
Description Data files and documentation for PEDiatric vALidation oF vAriableS in TBI (PEDALFAST). The data was used in `Functional Status Scale in Children With Traumatic Brain Injury: A Prospective Cohort Study" by Bennett, Dixon, et al (2016) <doi:10.1097 pcc.0000000000000934="">.</doi:10.1097>
Language en-US
License GPL-2
Encoding UTF-8
LazyData true
Depends R (>= $3.5.0$)
Suggests data.table, digest, dplyr, ggplot2, htmltools, kableExtra, knitr, lubridate, qwraps2 (>= 0.6.0), scales, testthat
VignetteBuilder knitr
RoxygenNote 7.3.2
NeedsCompilation no
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Repository CRAN
Date/Publication 2024-09-16 19:00:07 UTC
Contents
fss_as_factor
gcs
onezero
pedalfast
pedalfast_metadata
round_age
yesno

fss_as_factor

Index 10

fss_as_factor

Functional Status Scale Categories

Description

Mapping FSS Total scores (integer values) to categorical values.

Usage

```
fss_as_factor(x, long_label = FALSE, ...)
```

Arguments

```
x an integer vectorlong_label logical if the score range should be prepended to the label.... not currently used.
```

Details

FSS scores are integer values from 6 to 30.

The a mapping of ranges of integer values to categories is

- FSS 6, 7: Good
- FSS 8, 9: Mildly abnormal
- FSS 10, 11, 12, 13, 14, 15: Moderately abnormal
- FSS 16, 17, 18, 19, 20, 21: Severe abnormal
- FSS 22, 23, 24, 25, 26, 27, 28, 29, 30: Very severely abnormal

Value

A factor of equal length to the input x with labels for the categorical ranges of FSS.

Examples

gcs 3

gcs

GCS Factor/Integer

Description

Functions for mapping integer values to GCS labeled factor and visa versa

Usage

```
gcs_as_integer(x, scale, ...)
## S3 method for class 'factor'
gcs_as_integer(x, scale, ...)
## S3 method for class 'character'
gcs_as_integer(x, scale, ...)

gcs_as_factor(x, scale, long_label = FALSE, highest_first = FALSE, ...)
## S3 method for class 'character'
gcs_as_factor(x, scale, long_label = FALSE, highest_first = FALSE, ...)
## S3 method for class 'numeric'
gcs_as_factor(x, scale, long_label = FALSE, highest_first = FALSE, ...)
gcs_ll
```

Arguments

x a integer, factor, or character vector.
 scale a character string to denote eye, motor, or verbal GCS scale.
 ... not currently used.
 logical to prepend the numeric value to the label of a factor.
 highest_first logical if the factor levels should be ordered with the highest GCS score as the reference level, else the lowest GCS score as the reference level.

Format

An object of class list of length 3.

Value

```
gcs_as_factor returns a factor of equal length to x.
gcs_as_integer returns an integer vector of equal length to x.
```

4 onezero

Examples

```
# Mapping from numeric values to factor:
nums <- c(0:7, 2.3)
# with short labels
data.frame(nums = nums,
         eye = gcs_as_factor(nums, scale = "eye"),
         motor = gcs_as_factor(nums, scale = "motor"),
         verbal = gcs_as_factor(nums, scale = "verbal"))
# with long labels
data.frame(nums = nums,
               = gcs_as_factor(nums, scale = "eye", long_label = TRUE),
         motor = gcs_as_factor(nums, scale = "motor", long_label = TRUE),
         verbal = gcs_as_factor(nums, scale = "verbal", long_label = TRUE))
# Mapping from factors/characters to numeric values
# A quick way to access the labels and numeric values
pedalfast.data::gcs_ll
all_levels <- do.call(c, lapply(pedalfast.data::gcs_ll, names))</pre>
data.frame(lvls = all_levels,
         eye = gcs_as_integer(all_levels, scale = "eye"),
         motor = gcs_as_integer(all_levels, scale = "motor"),
         verbal = gcs_as_integer(all_levels, scale = "verbal")
# Order of the levels:
# The data values are the same, but the order of the levels differs.
gcs_as_factor(1:4, "eye", highest_first = FALSE)
gcs_as_factor(1:4, "eye", highest_first = TRUE)
```

onezero

1/0 Flags

Description

Turns Yes/No variables into 1/0 integers

Usage

```
onezero(x)
```

pedalfast 5

Arguments

Χ

a character vector

Details

The input is forced to lowercase and only the first character, the "y" or "n", is used to map to the 1/0 integer values. The function allows for "1" and "0" to be in the character vector as well.

Value

an integer vector

Examples

```
flag <- c("Y", "No", "NO", "no", "n", "YES", "Yes", "yEs", "1", "0") onezero(flag)
```

pedalfast

PEDALFAST Data

Description

Single data frame for the PEDALFAST data.

Usage

pedalfast

Format

An object of class data. frame with 388 rows and 103 columns.

Details

pedalfast is one data frame with the whole of the exported data.

See Also

```
vignette("datasets", package = "pedalfast.data")
```

6 pedalfast_factor

pedalfast_factor PEDALFAST factor

Description

A flavor of the base function factor but aimed to use specific default values for levels and labels based on the information in the pedalfast_metadata object.

Usage

```
pedalfast_factor(x, variable, label_with_level = FALSE, ...)
```

Arguments

```
x a vector of data

variable character string identifying the variable name in pedalfast_metadata defining the levels and labels for the factor.

label_with_level (default to FALSE) labels will include the integer value. See examples.

... not currently used.
```

Value

An object of class factor

References

Bennett TD, Dixon RR, Kartchner C, DeWitt PE, Sierra Y, Ladell D, Kempe A, Runyan DK, Dean JM, Keenan HT. Functional Status Scale in Children With Traumatic Brain Injury: A Prospective Cohort Study. Pediatr Crit Care Med. 2016 Dec;17(12):1147-1156. doi: 10.1097/PCC.000000000000000934. PMID: 27753754; PMCID: PMC5138132.

Pollack MM, Holubkov R, Funai T, et al. Pediatric intensive care outcomes: development of new morbidities during pediatric critical care. Pediatr Crit Care Med. 2014;15(9):821-827. doi:10.1097/PCC.00000000000000050

Examples

```
data(pedalfast, pedalfast_metadata, package = "pedalfast.data")

# The Motor GCS in the emergency department is reported as an integer value.
str(pedalfast$gcsmotored)

# Each integer value a specific meaning
pedalfast_metadata[grepl("gcsmotored", pedalfast_metadata$variable), ]

# Creating the factor in base R

pedalfast_factor(x = c(1, 3, 2), variable = "gcsmotored")
pedalfast_factor(x = c(1, 3, 2), variable = "gcsmotored", label_with_level = TRUE)
```

pedalfast_metadata 7

pedalfast_metadata

PEDALFAST Metadata

Description

pedalfast_metadata provides documentation for each of variables in the pedalfast.

Usage

```
pedalfast_metadata
```

Format

An object of class data. frame with 103 rows and 3 columns.

See Also

```
vignette("datasets", package = "pedalfast.data")
```

round_age

Round Age

Description

Round age per FITBIR guidelines

Usage

```
round_age(x, type = "character")
```

Arguments

a numeric vector

type defaults to character (default), also accepts numeric.

8 yesno

Details

FITBIR Definition for the "AgeYrs" data element: Value for participant's subject age, calculated as elapsed time since the birth of the participant/subject in years. The subjects age is typically recorded to the nearest full year completed, e.g. 11 years and 6 months should be recorded as 11 years.

Guidelines & Instructions: The subject's age is typically recorded to the nearest full year completed, e.g. 11 years and 6 months should be recorded as 11 years. For subject's which are under 1 year old, use decimal points and use the following convention-record 1 month as 0.083 (1/12), 2 months as 0.166 (2/12), 3 months as 0.25 (3/12), 4 months as 0.333 (4/12), 5 months as 0.416 (5/12), 6 months as 0.5 (6/12), 7 months as 0.583 (7/12), 8 months as 0.666 (8/12), 9 months as 0.75 (9/12), 10 months as 0.833 (10/12), 11 months as 0.916 (11/12) and 12 months as 1 year. For the individuals 90 or older, in order to preserve PII, please submit "150" and make a note this in the "general notes" column.

Value

a character or numeric vector depending on the value of type.

Examples

```
ages <- c(92, 12.12, 89 + 10/12, 9.12, 9.73, 1.1, 1.75, (1:11 + 0.05) / 12, 2, 90)
round_age(ages)
round_age(ages, "numeric")
```

yesno

Yes No Flags

Description

Turns 1/0 into "Yes"/"No"

Usage

yesno(x)

Arguments

Χ

an integer vector

Value

a character vector

yesno 9

Examples

```
flag <- c(0, 1, 1, 0, 0, 0) yesno(flag)
```

Index

```
* datasets
gcs, 3
pedalfast, 5
pedalfast_metadata, 7

fss_as_factor, 2

gcs, 3
gcs_as_factor (gcs), 3
gcs_as_integer (gcs), 3
gcs_ll (gcs), 3

onezero, 4

pedalfast, 5
pedalfast_factor, 6
pedalfast_metadata, 6, 7

round_age, 7

yesno, 8
```