

Package: codebreak (via r-universe)

August 30, 2024

Type Package

Title Label Data Using a YAML Codebook

Version 0.1.0

Description A light-weight framework for labeling coded data using a codebook saved as YAML text file.

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Encoding UTF-8

LazyData true

Imports haven, labelled, plyr, purrr, R6, yaml

RoxygenNote 7.2.1

Suggests testthat (>= 3.0.0)

URL <https://github.com/nt-williams/codebreak>

BugReports <https://github.com/nt-williams/codebreak/issues>

Config/testthat/edition 3

Repository <https://nt-williams.r-universe.dev>

RemoteUrl <https://github.com/nt-williams/codebreak>

RemoteRef HEAD

RemoteSha 939fc130e50311dcd850e97ca421700dde94d95a

Contents

| | |
|--------------------|----------|
| Codebook | 2 |
| Index | 5 |

Codebook

R6 Class representing a codebook

Description

Decode and label data using a codebook saved as a YAML text file.

Public fields

path Path to a YAML text file.

codebook The codebook.

Methods

Public methods:

- [Codebook\\$new\(\)](#)
- [Codebook\\$decode\(\)](#)
- [Codebook\\$label\(\)](#)
- [Codebook\\$print\(\)](#)

Method `new()`: Import a YAML codebook

Usage:

```
Codebook$new(path = "codebook.yml")
```

Arguments:

path The path to the YAML codebook.

Returns: A new 'Codebook' object.

Examples:

```
Codebook$new(system.file("codebook.yml", package = "codebreak"))
```

Method `decode()`: Decode data.

Usage:

```
Codebook$decode(  
  data,  
  label = FALSE,  
  as_labelled = FALSE,  
  .include = NULL,  
  .exclude = NULL  
)
```

Arguments:

data The data to decode.

label Should column names also be renamed according to codebook labels?

as_labelled Should the codebook be applied using the labelled package?

.include An optional character vector of column names to apply the codebook to.

`.exclude` An optional character vector of column names to not apply the codebook to. Ignored if `.include` is specified.

Returns: An updated copy of data.

Examples:

```
ex <- data.frame(
  x = c(1, 2, 5, 3, 4),
  y = c(0, 1, 1, 0, 1),
  z = rnorm(5),
  w = c(1, 1, 0, 1, 1)
)
```

```
cb <- Codebook$new(system.file("codebook.yml", package = "codebreak"))
cb$decode(ex)
```

Method `label()`: Label data.

Usage:

```
Codebook$label(data, as_labelled = FALSE, .include = NULL, .exclude = NULL)
```

Arguments:

`data` The data to label.

`as_labelled` Should the codebook labels be applied using the labelled package?

`.include` An optional character vector of column names to apply the codebook to.

`.exclude` An optional character vector of column names to not apply the codebook to. Ignored if `.include` is specified.

Examples:

```
ex <- data.frame(
  x = c(1, 2, 5, 3, 4),
  y = c(0, 1, 1, 0, 1),
  z = rnorm(5),
  w = c(1, 1, 0, 1, 1)
)
```

```
cb <- Codebook$new(system.file("codebook.yml", package = "codebreak"))
cb$label(ex)
```

Method `print()`:

Usage:

```
Codebook$print()
```

Examples

```
## -----
## Method `Codebook$new`
## -----

Codebook$new(system.file("codebook.yml", package = "codebreak"))

## -----
```

```
## Method `Codebook$decode`  
## -----  
  
ex <- data.frame(  
  x = c(1, 2, 5, 3, 4),  
  y = c(0, 1, 1, 0, 1),  
  z = rnorm(5),  
  w = c(1, 1, 0, 1, 1)  
)  
  
cb <- Codebook$new(system.file("codebook.yml", package = "codebreak"))  
cb$decode(ex)  
  
## -----  
## Method `Codebook$label`  
## -----  
  
ex <- data.frame(  
  x = c(1, 2, 5, 3, 4),  
  y = c(0, 1, 1, 0, 1),  
  z = rnorm(5),  
  w = c(1, 1, 0, 1, 1)  
)  
cb <- Codebook$new(system.file("codebook.yml", package = "codebreak"))  
cb$label(ex)
```

Index

Codebook, [2](#)