Package ‘klassR’

January 15, 2024

Type Package
Title Classifications and Codelists for Statistics Norway
Version 0.2.3
Description Functions to search, retrieve and apply classifications and
codelists using Statistics Norway’s API <https://www.ssb.no/klass>
from the system 'KLASS'. Retrieves classifications by date with options
to choose language, hierarchical level and formatting.

Imports tm, httr, jsonlite

URL https://statisticsnorway.github.io/klassR/

BugReports https://github.com/statisticsnorway/klassR/issues
License MIT + file LICENSE
Encoding UTF-8
LazyData true
RoxygenNote 7.3.0
Suggests rmarkdown, knitr, testthat (>= 3.0.0), kableExtra, magrittr

Config/testthat/edition 3
NeedsCompilation no

Author Susie Jentoft [aut, cre],
  Diana-Cristina Iancu [aut],
  Lisa Li [aut],
  Statistics Norway [cph]

Maintainer Susie Jentoft <susie.jentoft@ssb.no>

Repository CRAN

Date/Publication 2024-01-15 13:30:02 UTC

R topics documented:

ApplyKlass ................................................................. 2
CorrespondList .......................................................... 3
ApplyKlass

Match and convert a classification

Description

Match and convert a classification

Usage

ApplyKlass(
  x,
  klass,
  date = NULL,
  variant = NULL,
  correspond = NULL,
  language = "nb",
  output_level = NULL,
  output = "name",
  format = TRUE
)

Arguments

x  Input vector
klass  Classification number
date  Date for classification (format = "YYYY-mm-dd"). Default is current date
variant  The classification variant to fetch (if a variant is wanted).
correspond  ID number for target in correspondence table. For correspondence between two
dates within the same classification, use correspond = TRUE.
language  Default "nb" for Norwegian (Bokmål). Also "nn" (Nynorsk) and "en" (English
available for some classifications)
output_level  Desired output level
output  String describing output. May be "name" (default), "code" or "both".
format  Logical for whether to run formatting on input vector x (Default = TRUE), im-
portant to check if formatting is in one level.
CorrespondList

Value

A vector or data frame is returned with names and/or code of the desired output level.

Examples

data(klassdata)
kommune_names <- ApplyKlass(x = klassdata$kommune, klass = 131, language = "en", format=FALSE)

CorrespondList

Correspondence list Print a list of correspondence tables for a given klass with source and target IDs

Description

Correspondence list Print a list of correspondence tables for a given klass with source and target IDs

Usage

CorrespondList(klass, date = NULL)

Arguments

klass Classification number
date Date for classification (format = "YYYY-mm-dd"). Default is current date

Value

Data frame with list of correspondence tables, source ID and target ID.

Examples

CorrespondList("7")
GetFamily

*Identify corresponding family from a classification number*

**Description**

Identify corresponding family from a classification number

**Usage**

GetFamily(klass)

**Arguments**

klass Classification number

**Value**

Family number

**Examples**

GetFamily(klass = 7)

GetKlass

*Fetch classification data from Statistics Norway using API*

**Description**

Fetch classification data from Statistics Norway using API

**Usage**

GetKlass(
    klass,
    date = NULL,
    correspond = NULL,
    correspondID = NULL,
    variant = NULL,
    output_level = NULL,
    language = "nb",
    output_style = "normal",
    notes = FALSE,
    quiet = TRUE
)

)
### GetKlass

#### Arguments

- **klass**: Number/string of the classification ID/number. (use Klass_list() to find this)
- **date**: String for the required date of the classification. Format must be "yyyy-mm-dd". For an interval, provide two dates as a vector. If blank, will default to today’s date.
- **correspond**: Number/string of the target klass for correspondence table (if a correspondence table is requested).
- **correspondID**: ID number of the correspondence table to retrieve. Use as an alternative to correspond.
- **variant**: The classification variant to fetch (if a variant is wanted).
- **output_level**: Number/string specifying the requested hierarchy level (optional).
- **language**: Two letter string for the requested language output. Default is Bokmål ("nb"). Nynorsk ("nn") and English ("en") also available for some classification.
- **output_style**: String variable for the output type. Default is "normal". Specify "wide" for a wide formatted table output.
- **notes**: Logical for if notes should be returned as a column. Default FALSE
- **quiet**: Logical for whether to suppress the printing of the API address. Default TRUE.

#### Value

The function returns a data frame of the specified classification/correspondence table. Output variables include: `code`, `parentCode`, `level`, and `name` for standard lists. For correspondence tables variables include: `sourceCode`, `sourceName`, `targetCode` and `targetName`. For time correspondence tables variables include: `oldCode`, `oldName`, `newCode` and `newName`. For "wide" output, code and name with level suffixes is specified.

#### Examples

```r
# Get classification for occupation classifications
head(GetKlass(klass = "7"))
# Get classification for occupation classifications in English
head(GetKlass(klass = "7", language = "en"))
```

---

### GetName

#### Description

Get the name of a classification version

#### Usage

```r
GetName(version)
```
GetVersion

Arguments

version  Version number

Value

string or vector of strings with name of version

Examples

GetVersion("33")

GetVersion  Get version number of a class given a date

Description

Get version number of a class given a date

Usage

GetVersion(klass = NULL, date = NULL, family = NULL, klassNr = FALSE)

Arguments

klass  Classification number

date  Date for version to be valid

family  Family ID number if a list of version number for all classes is desired

klassNr  True/False for whether to output classification numbers. Default = FALSE

Value

Number, vector or data frame with version numbers and classification numbers if specified.

Examples

GetVersion(7)
Description
A dataset containing variables for testing of Statistics Norways classification API with the klassR package. Some observations are missing or incorrect for testing and demonstrations.

Usage
klassdata

Format
A data frame containing 100 rows and 7 variables:

- **ID**: Identification number
- **sex**: 1/2 variable for sex
- **education**: 4-digit number for education standard ISCED97 (level and subject area) NUS (klass = 66) 2015.01.01
- **kommune**: 4-digit code for Norwegian municipality (klass = 131). Based on 2015.01.01
- **kommune2**: Numeric variable for Norwegian municipality with dropped leading zero’s for testing (klass = 131). Based on 2015.01.01
- **nace5**: 5-digit code for industry (NACE). Based on 01.01.2015 standard industry codes (klass = 7)
- **occupation**: 4-digit occupation codes using standard for STYRK-08 (klass = 7) 2015.01.01

ListFamily

Description
Classification family list Print a list of all families and the number of classifications in each

Usage
ListFamily(family = NULL, codelists = FALSE, language = "nb")

Arguments
- **family**: Input family ID number to get a list of classifications in that family
- **codelists**: True/False for whether to include codelists. Default = FALSE
- **language**: Two letter string for the requested language output. Default is Bokmål ("nb"). Nynorsk ("nn") and English ("en").
SearchKlass

Description

Search Klass

Usage

SearchKlass(query, codelists = FALSE, size = 20)

Value
dataset containing a list of families

Examples

ListFamily(family = 1)

ListKlass

Classification list Get a full list of all classifications and codelists

Description

Classification list Get a full list of all classifications and codelists

Usage

ListKlass(codelists = FALSE, language = "nb")

Arguments

codelists True/False for whether to include codelists. Default = FALSE
language Two letter string for the requested language output. Default is Bokmål ("nb").
Nynorsk ("nn") and English ("en").

Value

A data frame containing a full list of classifications. The data frame includes the classification name, number, family and type.

Examples

head(ListKlass(codelists = TRUE))
SearchKlass

Arguments

- query: String with key word to search for
- codelists: True/False for whether to include codelists. Default = FALSE
- size: The number of results to show. Default = 20.

Value

Data frame of possible classifications that match the query

Examples

SearchKlass("occupation")
Index

* datasets
  klassdata, 7

ApplyKlass, 2

CorrespondList, 3

GetFamily, 4
GetKlass, 4
GetName, 5
GetVersion, 6

klassdata, 7

ListFamily, 7
ListKlass, 8

SearchKlass, 8