Package ‘klassR’

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Type  Package
Title  Classifications and Codelists for Statistics Norway
Version  0.1.11
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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
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License  Apache License 2.0
Encoding  UTF-8
LazyData  true
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R topics documented:

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ApplyKlass

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.

Value

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

```r
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

```r
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

```r
CorrespondList("7")
```

---

**GetFamily**

*Identify corresponding family from a classification number*

Description

Identify corresponding family from a classification number

Usage

```r
GetFamily(klass)
```

Arguments

- **klass**: Classification number
GetKlass

Value

Family number

Examples

GetFamily(klass = 7)

GetKlass

Fetch classification data Fetch Statistics Norway classification data using API

Description

Fetch classification data Fetch Statistics Norway classification data using API

Usage

GetKlass(
  klass, 
  date = NULL, 
  correspond = NULL, 
  variant = NULL, 
  output_level = NULL, 
  language = "nb", 
  output_style = "normal"
)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>klass</td>
<td>Number/string of the classification ID/number. (use Klass_list() to find this)</td>
</tr>
<tr>
<td>date</td>
<td>String for the required date of the classification. Format must be &quot;yyyymm-dd&quot;. For an interval, provide two dates as a vector. If blank, will default to today’s date.</td>
</tr>
<tr>
<td>correspond</td>
<td>Number/string of the target correspondence (if a correspondence table is requested)</td>
</tr>
<tr>
<td>variant</td>
<td>The classification variant to fetch (if a variant is wanted).</td>
</tr>
<tr>
<td>output_level</td>
<td>Number/string specifying the requested hierarchy level (optional).</td>
</tr>
<tr>
<td>language</td>
<td>Two letter string for the requested language output. Default is Bokmål (&quot;nb&quot;). Nynorsk (&quot;nn&quot;) and English (&quot;en&quot;) also available for some classification.</td>
</tr>
<tr>
<td>output_style</td>
<td>String variable for the output type. Default is &quot;normal&quot;. Specify &quot;wide&quot; for a wide formatted table output.</td>
</tr>
</tbody>
</table>
**GetName**

**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**

Get the name of a classification version

**Description**

Get the name of a classification version

**Usage**

`GetName(version)`

**Arguments**

- `version` Version number

**Value**

string or vector of strings with name of version

**Examples**

`GetName("33")`
GetVersion

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)

klassdata

Testdata for klassR package

Description

A dataset containing variables for testing of Statistics Norway's classification API with the klassR package. Some observations are missing or incorrect for testing and demonstrations.

Usage

klassdata
ListFamily

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

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").

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

Search Klass

Description
Search Klass

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

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
SearchKlass

Examples

SearchKlass("occupation")
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