Package 'decoder'

October 13, 2022

Type Package

Title Decode Coded Variables to Plain Text and the Other Way Around

Version 1.2.2

Description Main function ``decode" is used to decode coded key values to plain text. Function ``code" can be used to code plain text to code if there is a 1:1 relation between the two. The concept relies on 'keyvalue' objects used for translation. There are several 'keyvalue' objects included in the areas of geographical regional codes, administrative health care unit codes, diagnosis codes and more. It is also easy to extend the use by arbitrary code sets.

License GPL-2

Depends R (>= 2.10)

Suggests dplyr, DT, testthat, knitr, rmarkdown, tidyr

VignetteBuilder knitr

Encoding UTF-8

URL https://www.bitbucket.com/cancercentrum/decoder

 $\pmb{BugReports} \ \text{https://www.bitbucket.com/cancercentrum/decoder/issues}$

RoxygenNote 7.1.0

LazyData TRUE

Language en-US, sv

NeedsCompilation no

Author Erik Bulow [aut, cre] (https://orcid.org/0000-0002-9973-456X)

Maintainer Erik Bulow <erik.bulow@rccvast.se>

Repository CRAN

Date/Publication 2020-04-22 11:32:05 UTC

Index

R topics documented:

ıs.key	
s.keyvalue.list	
tc	
ode	
listrikt	
extra_functions	
igo	
orsamling	
nemort	. 10
ısn	
cd10cm	. 11
cd10se	. 11
cd7	. 12
cd7_grov	. 12
cd9	. 12
cd9cmd	. 13
cdo	. 13
cdo3	. 13
cdo3_grov	. 14
reyvalue	
dinik	. 15
commun	. 16
on	. 16
īva	. 17
an	
n_rtr	
 1 rtr	
_ vad	. 18
pad0	. 18
patologiavdelning	
egion	
ockan	. 19
ida	. 20
jukhus	. 20
jukhus_inca	. 21
jukhus_par	
jukvardsomrade	
nomed	
nomed3	
ummary.keyvalue	
nmgrund	
_rtr	
	. 24
	25

as.key 3

as.key

Coerce to key or value in objects in a key-value pair

Description

Functions to check if an object is a valid key or value in a keyvalue pair, or coerce it if possible.

Usage

```
as.key(x)
is.key(x)
as.value(x)
is.value(x)
```

Arguments

x a vector

Value

as.value returns a value-object (currently the vector itself but with class "value"). as.key returns a key-object (building on value but with unique entries and as character).

as.keyvalue.list

Coerce a list to keyvalue object

Description

x should be a list with properties described in section "Details".

Usage

```
## S3 method for class 'list'
as.keyvalue(x, ...)
```

Arguments

x a list with properties described in the details section.

... further arguments passed to as.keyvalue.

4 atc

Details

- All names of the list elements should be unique.
- All elements of the list should be named.
- All keys should be unique (a key should only be mappad to one value).
- All elements of the list should be atomic vectors.

Value

The function returns an object of class keyvalue (and list.

See Also

as.keyvalue

Examples

```
ex <- list(
  fruit = c("banana", "orange", "kiwi"),
  car = c("SAAB", "Volvo", "taxi", "truck"),
  animal = c("elephant")
)
as.keyvalue(ex)
is.keyvalue(ex)</pre>
```

atc

Anatomical Therapeutic Chemical (ATC) Classification System codes

Description

Key-value codes for ATC from the Swedish Medical Products Agency (2020-04-07).

Source

```
https://nsl.mpa.se/
```

See Also

```
Other key_value_data: distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund
```

code 5

code

Decode codes to plain text (and vice versa)

Description

Translate coded values into meaningful plain text (or reversed).

Usage

```
code(y, keyvalue, verbose = TRUE)

decode(x, ...)

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

## Default S3 method:
decode(x, keyvalue, extra_functions = NULL, exact = FALSE, ...)
```

Arguments

	У	value to be coded (to be matched against the value element) in a keyvalue object.
	keyvalue	either a name (as character string) of a package internal keyvalue object, or a user defined keyvalue object (see as.keyvalue).
	verbose	(only for code) can be set to FALSE to avoid a printed message to the console if an error occur (TRUE as default).
	х	object to decode. Either a key vector to be matched against the key column in keyvalue, or a data.frame (see section decode.data.frame). object.
	• • •	ignored
extra_functions		
		is a list of functions (or names of functions as character vector) to be applied to the decoded data after decoding (see section "extra_functions" below).
	exact	Should x have an exact match from the key? Default is FALSE. When FALSE, x might be transformed to fit the key (punctuation might be removed, upper case changed to lower case or vice versa and strings that are too long might be substringed). (code only accept exact matches.)

Value

- For default S3 method: A vector of the same length as x but with all cells decoded (or coded) to plain text (or code) as character.
- For S3 method for class 'data.frame': Data.frame x is returned, possibly with some extra columns (names ending in '_Beskrivning'), decoded from columns with names corresponding to attribute standard_var_names for keyvalue objects listed by list_keyvalues().

6 code

Vignette

See the vignette for a longer introduction to the package: vignette("decoder")

decode.data.frame

If x is a data.frame, all column names of x are matched to attribute standard_var_names for all keyvalue objects in the package (see list_keyvalues()). If the column name is a standard name used for a coding, the corresponding keyvalue object is used to decode the column and to add an extra column to x with its original name with suffix _Beskrivning. This is done for all identified columns.

extra_functions

The relationship between the key and the value in a keyvalue object is either 1:1 or m:1. The mapping is straight forward for 1:1 but with m:1, different applications might require slightly different groupings of the keys. One solution is to have several versions of the keyvalue object. Another (which we prefer) is to use the same keyvalue object (if possible) but to call one or several extra function(s) to further process the result. These functions are either built in package functions that should be called by quoted names or user defined functions that can be called by either quoted or unquoted names (if available in the current environment). Note that the order of the functions could matter since they are called in turn (the output from the first function is passed as input to the second function etc).

Standard functions and how to use them:

To use with sjukvardsomrade:

kungalv2Fyrbodal The default classification used in sjukvardsomrade is to make Kungalv a region of its own. Use this function if Kungalv should be included in Fyrbodal. See example section below.

kungalv2Storgoteborg As kungalv2Fyrbodal but classifies Kungalv as a part of Storgoteborg.

real_names Give the area names with correct Swedish spelling (including spaces). This is not as default due to compatibility reasons and because names with spaces must be back-ticked when referred to.

To use with region

short_region_names Exclude the prefix 'Region' from the region names, hence 'Syd' instead of 'Region Syd' etcetera.

Author(s)

Erik Bulow

See Also

keyvalue, extra_functions

distrikt 7

Examples

```
KON_VALUE <- sample(1:2, 20, replace = TRUE)</pre>
(kon <- decode(KON_VALUE, decoder::kon))</pre>
code(kon, decoder::kon)
# Get a sample of Snomed-codes (in the real world we obviously avoid this step) \dots
snomed2 <- sample(decoder::snomed$key, 30, replace = TRUE)</pre>
# ... then decode them:
(snomed3 <- decode(snomed2, "snomed"))</pre>
# Health care regions can be defined in more than one way
# By default Kungalv define a region of its own:
set.seed(123456789)
healtcare_areas_west <- sample(unlist(decoder::sjukvardsomrade), 100, replace = TRUE)
(areas <- decode(healtcare_areas_west, "sjukvardsomrade"))</pre>
table(areas)
# But if we want Kungalv to be a part of Storgoteborg
# (which is common practice for example with lung cancer data):
(areas2 <- decode(healtcare_areas_west, "sjukvardsomrade", "kungalv2Storgoteborg"))</pre>
table(areas2)
# We can also combine several extra_functions if we for example
# also want the area names with correct Swedish spelling.
(areas3 <- decode(healtcare_areas_west, "sjukvardsomrade", c("kungalv2Storgoteborg", "real_names")))</pre>
# The region names can be both with and without prefix:
regs <- sample(6, 10, replace = TRUE)</pre>
decode(regs, "region") # With prefix
decode(regs, "region", "short_region_names") # without prefix
# Note that only the first four digits of the LKF-code were used abowe?
# What if we use the full LKF-code?
lkfs <- sample(decoder::forsamling$key, 100, replace = TRUE)</pre>
decode(lkfs, "sjukvardsomrade")
# That work's just as fine when argument exact = FALSE (which it is by default).
# decode can also be used for data.frames with recognised column names
d <- data.frame(</pre>
     kon = sample(1:2, 10, replace = TRUE),
     sex = sample(1:2, 10, replace = TRUE),
    lkf = sample(decoder::hemort$key, 10, replace = TRUE)
 )
 decode(d)
```

distrikt

Swedish district codes

8 extra_functions

Description

Key-value codes for the Swedish districts (introduced 2016-01-01).

Source

https://www.scb.se/hitta-statistik/regional-statistik-och-kartor/regionala-indelningar/distrikt/

See Also

Other key_value_data: atc, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

extra_functions

Extra functions to apply to decoded variables using decode

Description

See section "extra_functions" at the decode help page!

Usage

```
kungalv2Storgoteborg(x)
kungalv2Fyrbodal(x)
real_names(x)
short_region_names(x)
```

Arguments

x The decoded variable to be further processed. This argument should not be set by the user. It is used only internally by the function from which it is called.

figo 9

figo	FIGO-stadium	

Description

Key-value codes for FIGO-stadium (Tumorutbredning enl FIGO, sep 2003). Data from Rockan (Rocen).

See Also

Other key_value_data: atc, distrikt, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

Description

Key-value codes for the Swedish parishes (forsamlingar). All six digits in the LKF code.

Source

```
https://www.scb.se/hitta-statistik/regional-statistik-och-kartor/regionala-indelningar/lan-och-kommuner/
```

See Also

Other key_value_data: atc, distrikt, figo, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

10 hsn

hemort

hemort and hemort2 codes (geographical codes)

Description

Both hemort and hemort2 combines regional codes for lan, kommun and forsamling. hemort is the official (but rather old) code used within RCC. hemort2 is an updated version combining lan, kommun and forsamling

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

hsn

HSN code (Hälso- och sjukvårdsnamnd)

Description

Key-value codes for the HSN:s in VGR valid from 2015. Based on municipality codes (kommun). Data from 2014-12-17.

Details

Categorization:

Norra Lysekil, Munkedal, Orust, Sotenäs, Strömstad, Tanum, Bengtsfors, Dals-Ed, Färgelanda, Mellerud, Åmål, Trollhättan, Uddevalla och Vänersborg

Västra Lilla Edet, Ale, Kungälv, Stenungsund, Tjörn, Öckerö, Härryda, Mölndal, Partille, Lerum och Alingsås

Södra Herrljunga, Vårgårda, Bollebygd, Borås, Mark, Svenljunga, Tranemo och Ulricehamn Göteborg Göteborg

Östra Essunga, Falköping, Grästorp, Götene, Lidköping, Skara, Vara, Gullspång, Hjo, Karlsborg, Mariestad, Skövde, Tibro, Tidaholm och Töreboda

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

icd10cm 11

icd10cm

ICD-10-CM code

Description

Key-value codes for ICD-10-CM 2020. Note that key codes are given without dots, i e C569, not C56.9.

Source

ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/ICD10CM/2020/

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

icd10se

ICD-10-SE code

Description

Key-value codes for ICD-10-SE 2020 (Swedish version). Note that key codes are given without dots, i e C569, not C56.9.

Source

https://www.socialstyrelsen.se/utveckla-verksamhet/e-halsa/klassificering-och-koder/kodtextfiler/

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

12 icd9

icd7 ICD-7

Description

Key-value codes for ICD-7. Data from Rockan (Rocen).

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

icd7_grov

ICD-7 Grov

Description

Key-value codes for just the first three digits of the ICDO-7 code. This gives broader grouping.

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

icd9 *ICD-9*

Description

Key-value codes for ICD-9. Data from Rockan (Rocen).

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icdo3_grov, icdo3, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

icd9cmd 13

icd9cmd

ICD-9-CM diagnosis and procedure codes

Description

Key-value codes for ICD-9-CM diagnostics (icd9cmd) and procedure (icd9cmp) codes (version 32).

Source

https://www.cms.gov/Medicare/Coding/ICD9ProviderDiagnosticCodes/codes

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

icdo

ICD-O

Description

Key-value codes for ICD-O. Data from Rockan (Rocen).

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icd03_grov, icd03, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

icdo3

ICD-03

Description

Key-value codes for ICD-O3. Data from Rockan (Rocen).

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

14 keyvalue

icdo3_grov

ICD-03 Grov

Description

Key-value codes for just the first two digits of the ICDO-3 code. This gives broader grouping. Based on the table of contents from: http://www.socialstyrelsen.se/Lists/Artikelkatalog/Attachments/19446/2014-5-12.pdf

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

keyvalue

Coerce to a keyvalue object

Description

Functions to check if an object is a keyvalue object, or coerce it if possible.

Usage

```
as.keyvalue(x, ...)
## S3 method for class 'data.frame'
as.keyvalue(x, standard_var_names = NULL, ...)
## Default S3 method:
as.keyvalue(x, y, ...)
is.keyvalue(x)
```

Arguments

```
x object to test for, or coerce to, keyvalue (see the details).
... arguments passed between methods
standard_var_names
a character vector with standard names for variables decoded with this keyvalues.
y a value vector if x is an unnamed vector (argument must be named 'y = .')
```

klinik 15

Details

x can be of:

• a name of a package internal (or external) keyvalue object (character of length one)

- a data. frame with two columns "key" (with unique cells) and "value".
- a list as described in as.keyvalue.list
- a named vector with all names unique
- an unnamed vector with unique cells if supplemented by additional vector (y)

Value

as.keyvalue returns a data.frame with additional class keyvalue that fulfills the requirements for a keyvalue object and with the key column as character. It also has two extra attributes standard_var_names as described above and keyvalue11 which is TRUE for keyvalue objects with a 1:1 relation between its keys and values (otherwise FALSE).

See Also

as.keyvalue.list, decode, summary.keyvalue, key_and_value

Examples

snomed2 <- as.keyvalue(snomed)
is.keyvalue(snomed2)
summary(snomed2)</pre>

klinik

Clinic codes

Description

Key-value codes for the Swedish clinic types. Data mainly from url below (taken from the PDF). Some extra codes are added from Rockan (290, 291, 292, 446, 921 and 999 for unknown).

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

16 kon

kommun

Swedish municipality codes

Description

Key-value codes for the Swedish municipalities. First four digits in the LKF code. Data from 2014-08-12.

Source

https://www.scb.se/hitta-statistik/regional-statistik-och-kartor/regionala-indelningar/lan-och-kommuner/

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

kon

Gender code (kon)

Description

Key-value codes for gender (1 = man (Male) and 2 = Kvinna (female)). Be aware of the spelling ("kon")!

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

kva 17

kva

Klassifikation av vardatgarder (KVA)

Description

Key-value codes for KVA (for surgery and medicine.

Source

https://www.socialstyrelsen.se/utveckla-verksamhet/e-halsa/klassificering-och-koder/kva/

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kon, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

lan

Swedish county codes

Description

Key-value codes for the Swedish counties (lan). Two first digits of the LKF code. Be aware of the spelling ("lan")!

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kon, kva, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

m_rtr

M-stadium

Description

Key-value codes for M-stadium (sep-03). Data from Rockan (Rocen).

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kon, kva, lan, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

18 pad0

n_rtr

N-stadium

Description

Key-value codes for N-stadium (sep-03). Data from Rockan (Rocen).

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kon, kva, lan, m_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

pad

PAD (C24) code

Description

Key-value codes for PAD (C24) Data from Rockan 2012-09-18.

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

pad0

Pad leading zeros to character

Description

Pad leading zeros to character

Usage

```
pad0(x, n)
```

Arguments

x character or object that can be coerced to such

n desired length of outcome vector

Value

Character vector of length n

patologiavdelning 19

patologiavdelning	Pathology department codes

Description

Key-value codes for the Swedish "laboratories". Data is combined from two sources.

- 1. The official list from SOFS 2006:15 (see url below). This is the primary source for codes appearing in both sources.
- 2. Extra codes are also added from the old Rockan registry for historical reasons.

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icd03_grov, icd03, icd0, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

region

Swedish health care regional codes

Description

Key-value codes for the Swedish health care regions (1-6).

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icd03_grov, icd03, icd0, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

rockan

Help tables from Rockan

Description

Key-value codes from old help tables used with Rockan (by Swedish regional cancer centers)

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

20 sjukhus

sida	Sida	

Description

Key-value codes for sida (Sida, 1 = Hoger, 2 = Vanster, 9 = Okant). Data from Rockan (Rocen).

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icd03_grov, icd03, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

sjukhus Hospital codes	
------------------------	--

Description

Key-value codes for Swedish hospitals and some primary health care units.

Details

Data from 'Rockan'. Note that this is an old version of the classification! See the reference link below for the new version. The old version should be used of historical reasons. One difference is for example that the Sahlgrenska university hospital is one hospital in the new version of the classification but the Swedish regional cancer centers still classify it as three different hospitals. Note also that primary health care units did receive their own codes until 1992 (?) but not later!

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

sjukhus_inca 21

inca Hospital codes used by INCA

Description

Codes taken from INCA's organizational register 2017-02-03.

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icd03_grov, icd03, icd0, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

sjukhus_par	Hospital codes used by Socialstyrelsen and the National Patient Register

Description

Codes taken from Excel sheets 2014 from link below.

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icd03_grov, icd03, icd0, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr, tnmgrund

dsomrade Geographical health care areas

Description

Key-value codes for health care areas.

22 snomed

Details

- Key: the first four digits from the LKF-code
- Value: A geographical area (sub area of county/lan) with special interest

The object currently only applies to the Western health care region

- Storgoteborg
- Fyrbodal
- · Sodra_Alvsborg
- Skaraborg
- Norra_Halland

Updates for other regions needs to be requested (please do!).

Kungalv

Kungalv is an independent area by default. There are situations when Kungalv should be dealt with as an independent health care region or as a part of greater Gothenburg. See section "extra_functions" in decode to handle this.

See Also

extra_functions

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, snomed3, snomed, t_rtr, tnmgrund

snomed

Snomed code

Description

Key-value codes for Snomed. Data from Rockan 2012-10-05. Note tht this variable is the same as snomed from Rockan. It should not be confused with the later version snomed3!

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, t_rtr, tnmgrund

snomed3 23

snomed 3 Snomed 3

Description

Key-value codes for Snomed3 (fr 2005). Data from Rockan (Rocen).

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icd03_grov, icd03, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed, t_rtr, tnmgrund

summary.keyvalue

Object summary for keyvalue objects

Description

Objects of type keyvalue11 are summarized as data.frames with an additional display of possible standard_var_names. Objects of type keyvalue also gives a list of non 1:1 key-value pairs.

Usage

```
## S3 method for class 'keyvalue'
summary(object, ...)
```

Arguments

object a keyvalue object ... ignored

Value

A list with three elements: a summary of the underlying data.frame, the standard_var_names and possibly a data.frame with all non 1:1 relations.

See Also

keyvalue

24 t_rtr

tnmgrund

Grund till TNM (patologisk/klinisk)

Description

Key-value codes for TNM-grund (Grund till TNM, 1=patologisk, 2=klinisk). Data from Rockan (Rocen).

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, t_rtr

t_rtr

T-stadium

Description

Key-value codes for T-stadium (sep 2003). Data from Rockan (Rocen).

See Also

Other key_value_data: atc, distrikt, figo, forsamling, hemort, hsn, icd10cm, icd10se, icd7_grov, icd7, icd9cmd, icd9, icdo3_grov, icdo3, icdo, klinik, kommun, kon, kva, lan, m_rtr, n_rtr, pad, patologiavdelning, region, rockan, sida, sjukhus_inca, sjukhus_par, sjukhus, sjukvardsomrade, snomed3, snomed, tnmgrund

Index

* datasets	figo,9
atc, 4	forsamling, 9
distrikt, 7	hemort, 10
figo, 9	hsn, 10
forsamling, 9	icd10cm, 11
hemort, 10	icd10se, 11
hsn, 10	icd7, <mark>12</mark>
icd10cm, 11	icd7_grov, <u>12</u>
icd10se, 11	icd9, <mark>12</mark>
icd7, 12	icd9cmd, 13
icd7_grov, 12	icdo, 13
icd9, 12	icdo3, 13
icd9cmd, 13	icdo3_grov,14
icdo, 13	klinik, 15
icdo3, 13	kommun, 16
icdo3_grov, 14	kon, 16
klinik, 15	kva, 17
kommun, 16	lan, 17
kon, 16	m_rtr, 17
kva, 17	n_rtr, 18
lan, 17	pad, 18
m_rtr, 17	patologiavdelning, 19
n_rtr, 18	region, 19
pad, 18	rockan, 19
patologiavdelning, 19	sida, 20
region, 19	sjukhus, 20
rockan, 19	sjukhus_inca, 21
sida, 20	sjukhus_par, 21
sjukhus, 20	sjukvardsomrade, 21
sjukhus_inca, 21	snomed, 22 snomed3, 23
sjukhus_par, 21	t_rtr, 24
sjukvardsomrade, 21	tnmgrund, 24
snomed, 22	trinigi uria, 24
snomed3, 23	as.key, 3
t_rtr, 24	as.keyvalue, 3-5
tnmgrund, 24	as.keyvalue (keyvalue), 14
* key_value_data	as.keyvalue.list, 3, 15
atc, 4	as.value(as.key), 3
distrikt,7	atc, 4, 8–24

26 INDEX

(1) 10	
avgm (rockan), 19	n_rtr, 4, 8–18, 18, 19–24
ben (rockan), 19	obd (rockan), 19
code, 5 decode, 8, 15, 22	pad, 4, 8–18, 18, 19–24 pad0, 18 patologiavdelning, 4, 8–19, 19, 20–24
decode (code), 5	patologiavdeliling, 4, 0-17, 17, 20-24
digr (rockan), 19	real_names (extra_functions), 8
distrikt, 4, 7, 9–24	region, 4, 6, 8–19, 19, 20–24
dodca (rockan), 19	rockan, 4, 8–19, 19, 20–24
,,	
extra_functions, 6 , 8 , 22	short_region_names (extra_functions), 8
	sida, 4, 8–20, 20, 21–24
figo, 4, 8, 9, 9, 10–24	sjukhus, 4, 8–20, 20, 21–24
forsamling, 4, 8, 9, 9, 10–24	sjukhus_inca, 4, 8–21, 21, 22–24
h	sjukhus_par, 4, 8-21, 21, 22-24
hemort, 4, 8–10, 10, 11–24	sjukvardsomrade, 4, 6, 8–21, 21, 22–24
hemort2 (hemort), 10	snomed, 4, 8–22, 22, 23, 24
hsn, 4, 8–10, 10, 11–24	snomed3, 4, 8–22, 23, 24
icd10cm, 4, 8-11, 11, 12-24	status (rockan), 19 summary.keyvalue, 15, 23
icd10se, 4, 8–11, 11, 12–24	Summar y. Reyvarue, 13, 23
icd7, 4, 8–12, 12, 13–24	t_rtr, 4, 8–24, 24
icd7_grov, 4, 8–12, 12, 13–24	tnmgrund, 4, 8-24, 24
icd9, 4, 8–12, 12, 13–24	
icd9cmd, 4, 8-13, 13, 14-24	
icd9cmp (icd9cmd), 13	
icdo, 4, 8–13, 13, 14–24	
icdo3, 4, 8–13, 13, 14–24	
icdo3_grov, 4, 8–13, 14, 15–24	
is.key(as.key),3	
is.keyvalue(keyvalue), 14	
is.value(as.key), 3	
key_and_value, 15	
key_and_value(as.key), 3	
keyvalue, 5, 6, 14, 23	
klinik, 4, 8–14, 15, 16–24	
kommun, 4, 8–16, 16, 17–24	
kon, 4, 8–16, 16, 17–24	
<pre>kungalv2Fyrbodal (extra_functions), 8</pre>	
kungalv2Storgoteborg(extra_functions),	
8	
kva, 4, 8–17, 17, 18–24	
lan, 4, 8–17, 17, 18–24	
m_rtr, 4, 8–17, 17, 18–24	
manuell (rockan), 19	