Package 'hammond'

June 20, 2019

Type Package

| Title Useful analysis utilities |
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| Version 0.1.0 |
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| Description Useful funtions |
| License GPL-3 |
| Encoding UTF-8 |
| Depends R ($>= 3.5.0$) |
| Imports tidyverse (>= 1.2.1), countrycode (>= 1.1.0), RPostgreSQL (>= 0.6.2), whereami (>= 0.1.8.1), digest (>= 0.6.19), processx (>= 3.3.1), fs (>= 1.3.1), devtools (>= 2.0.2), pbapply (>= 1.4-0), Hmisc (>= 4.2-0), padr (>= 0.4.2) |
| LazyData true |
| RoxygenNote 6.1.1 |
| R topics documented: |
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hammond-package

hammond: some stuff

Description

Useful funtions

Installation

devtoolls::install_github("david-hammond/hammond")

hadd country in fo

haddcountryinfo

Description

This function adds country specific information to a dataframe by matching countries to country codes.

Usage

haddcountryinfo(df)

Arguments

countries list of countries countries

Examples

#need 4 column data frame, geocode, variablename, year, value hcountryinfo(hcountryexampledata) hcountry_info

This function calculates correlations between variables

#need 4 column data frame, geocode, variablename, year, value

hcorr 3

Description

This function calculates correlations between variables

Usage

```
hcorr(df, min.pairs = 20, verbose = TRUE, filter.by.p = FALSE)
```

Arguments

df name of dataframe to use for correlation, needs to be long format 4 column data

frame: geocode, variablename, year, value

min.pairs minimum number of pairs to correlate

verbose enable n and p values reporting, TRUE or FALSE filter.by.p Do you want to filter for significant p values?

Examples

```
#need 4 column data frame, geocode, variablename, year, value
library(hammond)
corr = hcorr(hcountryexampledata)
```

| hcountrycode hco |
|------------------|
|------------------|

Description

This function replaces country name or code with iso3c country codes. Can also be used in reverse.

Usage

```
hcountrycode(x, source_file = whereami::thisfile())
```

Arguments

countries list of countries

Examples

hcountrycode (hcountryexample data \$geocode)

4 hdbkill

hcountryexampledata countryinfo

Description

countryinfo

Usage

hcountry example data

Format

An object of class data. frame with 11934 rows and 5 columns.

hcountryinfo

countryinfo

Description

countryinfo

Usage

hcountryinfo

Format

An object of class data. frame with 233 rows and 7 columns.

 ${\sf hdbkill}$

 hdb_kill

Description

This function calculates correlations between variables

Usage

hdbkill()

Arguments

 ${\tt countries}$

list of countries

Examples

#need 4 column data frame, geocode, variablename, year, value

hdb_connect 5

hdb_connect

hdb_connect

Description

This function calculates correlations between variables

Usage

```
hdb_connect(db = "postgres", port = 5432, user = "postgres")
```

Arguments

countries

list of countries

Examples

#need 4 column data frame, geocode, variablename, year, value

hdb_create_db

 hdb_create_db

Description

This function calculates correlations between variables

Usage

```
hdb_create_db(db)
```

Arguments

countries

list of countries

Examples

```
#need 4 column data frame, geocode, variablename, year, value
```

6 hdb_get_toc

hdb_get

hdb_get

Description

This function retrieves and caches data from any source in the database.

Usage

```
hdb_get(vars)
```

Arguments

countries

list of countries

Examples

```
#need 4 column data frame, geocode, variablename, year, value
hdb_login("192.168.0.98", password = "peace123")
db_get("Perceptions of Criminality Raw")
```

hdb_get_toc

hdb_get_toc

Description

This function retrieves the Table of Contents from a specified database.

Usage

```
hdb_get_toc(db = "master")
```

Arguments

countries

list of countries

Examples

```
#need 4 column data frame, geocode, variablename, year, value
hdb_login("192.168.0.98", password = "peace123")
hdb_get_toc()
```

hdb_login 7

hdb_login

 hdb_login

Description

This function allows access to a database by entering an IP adress and passcode.

Usage

```
hdb_login(host = NULL, password = NULL)
```

Arguments

countries

list of countries

Examples

```
hdb_login("192.168.0.98", password = "peace123")
```

hdb_search

hdb_search

Description

This function searches the database and retrieves specified data.

Usage

```
hdb_search(vars, db = "master")
```

Arguments

countries

list of countries

hdb_login("192.168.0.98", password = "peace123") hdb_search("Criminal)

8 hinterpolate

hdb_update_master

hdb_update_master

Description

This function calculates correlations between variables

Usage

```
hdb_update_master()
```

Arguments

countries

list of countries

Examples

#need 4 column data frame, geocode, variablename, year, value

hinterpolate

hinterpolate

Description

This is a wrapper function takes a data frame and fills in interpolated and extrapolated data for the whole time series

Usage

hinterpolate(df)

Arguments

df

dataframe in iep format

Value

Returns list with filled in time series, column yhat is the interpolated value. Please check original value with yhat column to make sure you are happy with the results

Author(s)

Dave

Examples

hinterpolate(hcountryexampledata)

hpack_manual 9

hpack_manual

create package manual

Description

This function calculates combinations for efficient correlation calculations

Usage

```
hpack_manual(pack = "hammond")
```

Arguments

pack

name of package

hpc_change

Calculate proportional change

Description

This function calculates proportional change in GPI for a country from one year to another.

Usage

```
hpc_change(all)
```

Arguments

all

the dataframe to be processed

Value

Returns a dataframe containing the raw and annual growths in GPI for each country hpc_change(hcountryexampledata)

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