

Package ‘psData’

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Type Package

Title A package to download regularly maintained political science data sets and make commonly used, but infrequently updated variables based on this data.

Description This R package includes functions for gathering commonly used and regularly maintained data set in political science. It also includes functions for combining components from these data sets into variables that have been suggested in the literature, but are not regularly maintained.

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URL <http://christophergandrud.github.io/psData/>

BugReports <https://github.com/christophergandrud/psData/issues>

Depends R (>= 3.0.2)

License GPL-2 | GPL-3

Imports countrycode, DataCombine, foreign, xlsx

LazyData TRUE

VignetteBuilder knitr

Suggests knitr

NeedsCompilation no

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CountryID	<i>Function for creating standardised country names and ID variables</i>
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Description

Function for creating standardised country names and ID variables based on capabilities from the [countrycode](#) package. The function also reports if duplicated country IDs have been created and lets the user either drop these or return only duplicated values for inspection.

Usage

```
CountryID(data, countryVar = "country", OutCountryID = "iso2c",
  standardCountryName = TRUE, duplicates = "message", timeVar = NULL,
  fromLast = FALSE)
```

Arguments

data	a data frame object
countryVar	character string naming the country.name variable. See countrycode .
OutCountryID	character string. The type of country ID you would like to include in the output file along with the country name. See countrycode for available options.
standardCountryName	logical. Whether or not to standardise the country names variable based on country.name from countrycode .
duplicates	character specifying how to handle duplicated country or country-time observations (for the latter see timeVar). Can be set to none to do nothing, message to simply report duplicates, drop to report and drop duplicates, and return to return a data frame with only duplicated observations (see also fromLast).
timeVar	character string indicating the name of a time variable. For example, country time series often have separate rows based on a year variable. This is used solely to determine if there are duplicated country-time values.
fromLast	logical indicating if duplication should be considered from the reverse side. Only relevant if duplicates = 'drop' or duplicates = 'out'.

See Also

[duplicated](#)

DpiGet

Downloads the Database of Political Institutions (DPI)

Description

Downloads the Database of Political Institutions (DPI) data set. It keeps specified variables and creates a standard country ID variable that can be used for merging the data with other data sets.

Usage

```
DpiGet(url = "http://bit.ly/1jZ3nmM", vars = NULL, OutCountryID = "iso2c",
       standardCountryName = TRUE, na.rm = TRUE, duplicates = "message",
       fromLast = FALSE)
```

Arguments

url	character string. The URL for the Polity IV data set you would like to download. Note: the link must be to a Stata formatted file.
vars	character vector containing the variables to keep. If vars = NULL then the entire data set is returned. Note that country and year variables are always returned.
OutCountryID	character string. The type of country ID you would like to include in the output file along with the country name. See countrycode for available options.
standardCountryName	logical. Whether or not to standardise the country names variable based on country.name from countrycode .
na.rm	logical. Drop observations where OutCountryID is NA.
duplicates	character specifying how to handle duplicated country-year observations. Can be set to none to do nothing, message to simply report duplicates, drop to report and drop duplicates, and return to return a data frame with only duplicated observations (see also fromLast).
fromLast	logical indicating if duplication should be considered from the reverse side. Only relevant if duplicates = 'drop' or duplicates = 'out'.

Details

Note: a bit.ly URL is used to shorten the Stata formatted data set's URL due to CRAN requirements.

See Also

[countrycode](#), [CountryID](#), [WinsetCreator](#)

Examples

```
## Not run:
# Download full data set
DpiData <- DpiGet()

# Create data frame with only the military variable
DpiSub <- DpiGet(vars = 'military',
                OutCountryID = 'imf')

## End(Not run)
```

DropNA.psData	<i>Drop rows from a data frame with missing values in the OutCountryID variable.</i>
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Description

Drop rows from a data frame with missing values in the OutCountryID variable.

Usage

```
DropNA.psData(data, Var)
```

Arguments

data	a data frame object.
Var	a character vector naming the variables you would like to have only non-missing (NA) values.

Source

Largely based on DropNA from the DataCombine package.

PolityGet	<i>Downloads Polity IV</i>
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Description

Downloads the Polity IV data set. It keeps specified variables and creates a standard country ID variable that can be used for merging the data with other data sets.

Usage

```
PolityGet(url = "http://www.systemicpeace.org/inscr/p4v2012.sav",
          vars = NULL, OutCountryID = "iso2c", standardCountryName = TRUE,
          na.rm = TRUE, duplicates = "message", fromLast = FALSE)
```

Arguments

<code>url</code>	character string. The URL for the Polity IV data set you would like to download. Note: it must be for the SPSS version of the file.
<code>vars</code>	character vector containing the variables to keep. If <code>vars = NULL</code> then the entire data set is returned. Note that the country and year variables are always returned.
<code>OutCountryID</code>	character string. The type of country ID you would like to include in the output file along with the country name. See countrycode for available options.
<code>standardCountryName</code>	logical. Whether or not to standardise the country names variable based on <code>country.name</code> from countrycode .
<code>na.rm</code>	logical. Drop observations where <code>OutCountryID</code> is NA.
<code>duplicates</code>	character specifying how to handle duplicated country-year observations. Can be set to <code>none</code> to do nothing, <code>message</code> to simply report duplicates, <code>drop</code> to report and drop duplicates, and <code>return</code> to return a data frame with only duplicated observations (see also <code>fromLast</code>).
<code>fromLast</code>	logical indicating if duplication should be considered from the reverse side. Only relevant if <code>duplicates = 'drop'</code> or <code>duplicates = 'out'</code> .

See Also

[countrycode](#), [CountryID](#), [WinsetCreator](#)

Examples

```
## Not run:
# Download full data set
PolityData <- PolityGet()

# Create data frame with only the main Polity democracy variable (polity2)
Polity2Data <- PolityGet(vars = 'polity2',
                        OutCountryID = 'imf')

## End(Not run)
```

RRCrisisGet

Download and combine Reinhart and Rogoff's (2010) crisis dummy variables into one data frame

Description

Download and combine Reinhart and Rogoff's (2010) crisis dummy variables into one data frame

Usage

```
RRCrisisGet(urls = c("http://www.carmenreinhard.com/user_uploads/data/22_data.xls",
  "http://www.carmenreinhard.com/user_uploads/data/35_data.xls",
  "http://www.carmenreinhard.com/user_uploads/data/23_data.xls",
  "http://www.carmenreinhard.com/user_uploads/data/25_data.xls"),
  OutCountryID = "iso2c", standardCountryName = TRUE)
```

Arguments

`urls` URLs for each Excel file in the Reinhart and Rogoff data set. See <http://www.carmenreinhard.com/data/browse-by-topic/topics/7/>.

`OutCountryID` character string. The type of country ID you would like to include in the output file along with the country name. See [countrycode](#) for available options.

`standardCountryName` logical. Whether or not to standardise the country names variable based on `country.name` from [countrycode](#).

Value

Returns a data frame with the following columns:

- `iso2c`: The ISO two letter country code identifying the country. This can be changed to another country ID system using `OutCountryID`
- `country`: Country names.
- `year`: The year.
- `RR_Independence`: Year of independence.
- `RR_CurrencyCrisis`: Currency crisis.
- `RR_InflationCrisis`: Inflation crisis.
- `RR_StockMarketCrash`: Stock market crash.
- `RR_SovDebtCrisisDom`: Domestic sovereign debt crisis.
- `RR_SovDebtCrisisExt`: External sovereign debt crisis.
- `RR_BankingCrisis`: Banking crisis.
- `RR_YearlyCrisisTally`: Total number of crises per year.

Source

Reinhart, Camen M. and Kenneth S. Rogoff, "From Financial Crash to Debt Crisis," NBER Working Paper 15795, March 2010. Forthcoming in American Economic Review.

Examples

```
## Not run:
# RRDummies <- RRCrisisGest()

## End(Not run)
```

Description

Creates the winset (W) and a modified version of the selectorate (S) variable from Bueno de Mesquita et al. (2003) using the most recent data available from Polity IV and the Database of Political Institutions.

Usage

```
WinsetCreator(PolityUrl = "http://www.systemicpeace.org/inscr/p4v2012.sav",
             DpiUrl = "http://bit.ly/1jZ3nmM", OutCountryID = "iso2c", na.rm = TRUE)
```

Arguments

PolityUrl	character string. The URL for the Polity IV data set you would like to download. Note: it must be for the SPSS version of the file.
DpiUrl	character string. The URL for the Database of Political Institutions data set you would like to download. Note: the link must be to a Stata formatted file.
OutCountryID	character string. The type of country ID you would like to include in the output file along with the country name. See countrycode for available options.
na.rm	logical. Drop observations where OutCountryID is NA.

Value

Returns a data frame with the following columns:

- iso2c: The ISO two letter country code identifying the country. This can be changed to another country ID system using OutCountryID
- country: Country names.
- year: The year.
- W: The winset variable. The variable is the same as Bueno de Mesquita (2003) except the military executive component is from DPI, rather than Banks (1996).
- ModS: The modified selectorate variable. Instead of being based on Polity LEGSELEC, which is no longer create, ModS is based on the Legislative Index of Electoral Competitiveness variable (LIEC) from DPI. No legislature = 1. Unelected legislature = 2. Elected legislature with only 1 candidate = 3. Elected legislatures with 1 party and multiple candidates = 4. All other legislatures = 5. The variable is then standardised between 0 and 1 by subtracting by 1 then dividing by 4. Note: some countries were coded in LIEC as 3.5, so ModS has 6 levels between 0 and 1.

Source

See Bueno de Mesquita Bruce, Alastair Smith, Randolph M. Siverson, and James D. Morrow. 2003. The Logic of Political Survival. Cambridge, MA: MIT Press.

Morrow, J. D., Bueno De Mesquita, B., Siverson, R. M., and Smith, A. 2008. Retesting Selectorate Theory: Separating the Effects of W from Other Elements of Democracy. American Political Science Review, 102(03), 393-400.

Polity IV: <http://www.systemicpeace.org/>.

Modified so that military regime is take from Database of Political Institutions (<http://go.worldbank.org/2EAGGLRZ40>), rather than Banks, Arthur S. 1996. Political Handbook of the World. New York: CSA Publications.

See Also

[countrycode](#), [CountryID](#), [DpiGet](#), [PolityGet](#)

Examples

```
## Not run:  
# Create winset data using default options  
WinsetData <- WinsetCreator()  
  
## End(Not run)
```


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