Package 'c4aRs'

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Type Package
Title Resources for c4 R Visualizations
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Description This package provides color schemes, maps, and other tools to assist in the production of quality R visualizations.
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Imports dplyr
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Depends R (>= $3.5.0$)
R topics documented:
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fixCountryCol Standardize a vector of countries

2 fixCountryCol

Description

```
This function makes the following corrections:
'United Kingdom' <- 'UK'
"United States" <- "USA"
"The United States" <- "USA"
"Untied States" <- "USA"
"United Staets" <- "USA"
"The United States of America" <- "USA"
"United Arab Emirates" <- "UAE"
"Iran, Islamic Republic of" <- "Iran"
"Moldova, Republic of" <- "Moldova"
"The Former Yugoslav Republic of Macedonia" <- "FYR Macedonia"
"Union of Myanmar (republic of the)" <- "Myanmar"
"Afghanistan, Islamic Republic of" <- "Afghanistan"
"Syrian Arab Republic" <- "Syria"
"Korea, Republic of" <- "Korea (Rep. of)"
"Cote D'ivoire" <- "Cote d'Ivoire"
"Macao, China" <- "Macau, China"
"The Former Yugoslav Republic of Macedonia" <- "FYR Macedonia"
"Afghanistan, Islamic Republic of" <- "Afghanistan"
"United Arab Emirates" <- "UAE"
"Syrian Arab Republic" <- "Syria"
"Korea, Republic of" <- "Korea (Rep. of)"
"Democratic Republic of the Congo" <- "Congo (Dem. Rep. of)"
"Congo, Republic of the" <- "Congo (Rep. of)"
"Ivory Coast" <- "Cote d'Ivoire"
"Cote D'ivoire" <- "Cote d'Ivoire"
"Macao, China" <- "Macau, China"
"Iran, Islamic Republic of" <- "Iran"
"Us Virgin Islands" <- "US Virgin Islands"
"Moldova, Republic of" <- "Moldova"
"The Former Yugoslav Republic of Macedonia" <- "FYR Macedonia"
"Afghanistan, Islamic Republic of" <- "Afghanistan"
"United Arab Emirates" <- "UAE"
"Syrian Arab Republic" <- "Syria"
"Korea, Republic of" <- "Korea (Rep. of)"
"Democratic Republic of the Congo" <- "Congo (Dem. Rep. of)"
"Congo, Republic of the" <- "Congo (Rep. of)"
"Macao, China" <- "Macau, China"
```

Usage

```
fixCountryCol <- function(inVec)</pre>
```

Arguments

df A vector of countries that are unstandardized

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fixMultCols	Easily replace multiple columns at the same time.	

Description

Takes in a dataframe, and returns the same dataframe with corrected columns.

```
Example: countryCols <- c("origin", "transit", "destination") df <- fixMultCols(df, countryCols, "Untied States", "United States")
```

Usage

```
fixMultCols(df, cols, old, new)
```

Arguments

df	The dataframe vo	ou wish to correct.

cols The names of the columns you wish to correct.

old The text you want to replace.

new The text you want to appear in place of the old text.

	Neatly format leaflet tooltips	leafletLabel
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Description

Takes in a dataframe, and returns the same dataframe with a label column formatted for leaflet maps.

Example:

```
leaf <- leafletLabel(routes, c("Type", "Name"), c("type", "name"), titleCol = "origin")
leaf <- leaflet(leaf)
leaf <- addMarkers(leaf, lng = ~long, lat = ~lat, popup = ~label)</pre>
```

Usage

```
leafletLabel(df, textNames, colNames, titleCol = NULL, title = NULL, size = 2, titleSize = 4)
```

Arguments

df The dataframe you wish to label

textNames The names of the text fields you want to display. Should correspond to col-

Names.

colNames The names of the columns whose text you want to display. Should correspond

to textNames.

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titleCol	Optional. The name of the column that holds a title for your tooltips.
title	Optional. The name you wish to apply to all your tooltips.
size	Size of regular text, Default 2.
titleSize	Size of title text, Default 4.

plotlyLabel

Neatly format plotly tooltips

Description

Takes in a dataframe, and returns the same dataframe with a label column formatted for plotly graphs.

Example:

```
routes <- c4aRs::plotlyLabel(routes, c("Type", "Name"), c("type", "name"), titleCol = "origin") plot_ly(data = routes, type = 'scatter', x = \sim lat, text = \sim label)
```

Usage

```
plotlyLabel(df, textNames, colNames, titleCol = NULL, title = NULL)
```

Arguments

df	The dataframe you wish to label
textNames	The names of the text fields you want to display. Should correspond to col-Names.
colNames	The names of the columns whose text you want to display. Should correspond to textNames.
titleCol	Optional. The name of the column that holds a title for your tooltips.
title	Optional. The name you wish to apply to all your tooltips.

selectByMultCols

Select all rows that have a value in certain columns.

Description

Takes in a dataframe, and returns a dataframe with all rows where at least one column defined in 'cols' contains any of the values defined in 'values'.

```
Example:
```

```
countryCols <- c("origin", "transit", "destination")
df <- fixMultCols(df, countryCols, "United States")</pre>
```

Usage

```
selectByMultCols(df, cols, values)
```

Arguments

df The dataframe you wish to select.

cols The names of the columns you wish to select with.

values A character vector that contains that values you wish to select with.

traffickingInstanceCount

Select all rows that have a value in certain columns.

Description

Takes in a dataframe, and returns a dataframe of Trafficking Instance count.

Usage

traffickingInstanceCount(df, cols, by_col = NA)

Arguments

df A dataframe of seizure data.

cols The names of the columns that contain countries where each row was trafficked. values Optional. The name of a column that you want to striate your TI count by. For

instance, 'Database1'.

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