

Package ‘bdDwC’

July 22, 2025

Version 0.1.15

Date 2018-08-28

Title Darwinizer: Darwin Core (DwC) Field Names Standardization

Description

The 'shiny' application 'bdDwC' makes biodiversity data field names Darwin Core compatible.

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Depends R (>= 2.10)

Imports shiny, shinyBS, shinydashboard, shinyjs, shinyFiles

LazyData true

RoxygenNote 6.1.0

License GPL-3

Encoding UTF-8

Suggests testthat, covr

NeedsCompilation no

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Repository CRAN

Date/Publication 2018-08-31 19:40:03 UTC

Contents

combineOldNew	2
darwinizeNames	2
dataDarwinCloud	3
dataReptiles	3
downloadCloudData	4
getDarwinCoreInfo	4

renameUserData	5
runDwC	6
Index	7

combineOldNew	<i>Combine old/new name for checkboxes</i>
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Description

‘combineOldNew()’ is a function that combines (‘paste’) fieldname and standard names with uni-code characters to present in checkboxes.

Usage

```
combineOldNew(data, symbolArrow = "->", symbolSpace = " ")
```

Arguments

- data data.frame of matched names (‘darwinizeNames()’ output)
- symbolArrow character string for symbol that is used in ‘paste0’ to connect old and new name
- symbolSpace character string for symbol used instead of white space

Value

data.frame of darwinized user names.

darwinizeNames	<i>Darwinize names</i>
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Description

‘darwinizeNames()’ is a function to darwinize given names using reference (ie, Darwin Cloud) dataset. It returns \$Old\$ and \$New\$ (\$fieldname\$ and \$standard\$) name (ie, name from given user dataset that had a match in reference dataset).

Usage

```
darwinizeNames(dataUser, dataDWC)
```

Arguments

- dataUser data.frame with user data
- dataDWC data.frame with Darwin Cloud data

Value

data.frame of darwinized user names.

Examples

```
darwinizeNames(dataUser = bdDwC:::dataReptiles,
               dataDWC  = bdDwC:::dataDarwinCloud$data)
```

dataDarwinCloud	<i>Darwin Cloud Data</i>
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Description

Darwin Cloud data used to Darwinize. Darwin Cloud data was retrieved using ‘bdDwC::downloadCloudData()’ function. This dataset contains Darwin Cloud data and download date.

Usage

dataDarwinCloud

Format

A list of length two. First entry contains a data frame with 422 rows and 2 columns. Second entry contains a ‘Date’ class object.

dataReptiles	<i>Indian Reptiles</i>
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Description

Dataset that contains subsample of Indian reptile observations from the iNaturalist platform.

Usage

dataReptiles

Format

A data frame with 50 rows and 41 columns.

downloadCloudData	<i>Download Darwin Cloud Data</i>
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Description

‘downloadCloudData()’ is a function used to download Darwin Cloud data. First it downloads data, then it subsets informative columns and renames them so they could be used in ‘shiny’ app.

Usage

```
downloadCloudData(pathRemote = "https://raw.githubusercontent.com/kurator-org",
  pathGithub = "/kurator-validation/master/packages/kurator_dwca/data/vocabularies/",
  pathFile = "darwin_cloud.txt", columnField = "fieldname",
  columnStand = "standard")
```

Arguments

pathRemote	Path to remote repository (Kurator in Github).
pathGithub	Path within given repository.
pathFile	Name of a file.
columnField	Name of the column that contains field information.
columnStand	Name of the column that contains standard information.

Value

data.frame of Darwin Cloud data.

Examples

```
downloadCloudData()
```

getDarwinCoreInfo	<i>Retrieve Information about Darwin Core Terms</i>
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Description

‘getDarwinCoreInfo()’ is a function (not exported) to download Darwin Core Terms. This information is displayed when using manually renaming.

Usage

```
getDarwinCoreInfo(pathDarwinCloud = "http://tdwg.github.io/dwc/terms/")
```

Arguments

pathDarwinCloud
Path to Darwin Cloud data.

Value

data.frame that contains name and definition for each available Darwin Cloud term.

renameUserData	<i>Rename Dataset According Darwinized Names</i>
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Description

'renameUserData()' is a function used to rename given dataset (usually given user data) according previously Darwinized Names.

Usage

```
renameUserData(dataUser, dataRenamed)
```

Arguments

dataUser data.frame of be renamed.
dataRenamed data.frame that was created using 'bdDwC:::darwinizeNames()' function using same 'dataUser'.

Value

data.frame of submitted user data, but renamed according given renames data.frame.

Examples

```
result <- darwinizeNames(dataUser = bdDwC:::dataReptiles,
                        dataDWC = bdDwC:::dataDarwinCloud$data)
renameUserData(bdDwC:::dataReptiles, result)
```

`runDwC`*Launch bdDwC Shiny Application*

Description

‘bdDwC’ is a function that starts bdverse Darwin Cloud cleaning ‘shiny’ app.

Usage

```
runDwC()
```

Value

‘shiny::runApp()’ result within browser.

Index

* **datasets**

dataDarwinCloud, [3](#)

dataReptiles, [3](#)

combineOldNew, [2](#)

darwinizeNames, [2](#)

dataDarwinCloud, [3](#)

dataReptiles, [3](#)

downloadCloudData, [4](#)

getDarwinCoreInfo, [4](#)

renameUserData, [5](#)

runDwC, [6](#)