Package 'tidyDisasters'

November 22, 2022

Title Disaster Data Set Including FEMA, EMDAT and GTD Information

Version 0.1.1

Description Pre-processed data that contains a queryable data set with Federal
Emergency Management Agency (FEMA), Emergency Events Database (EMDAT) and
the Global Terrorism Database (GTD) merged. The data set contains the
reported natural and human made disasters that report 3 or more people
killed in the United States of America.

Encoding UTF-8

RoxygenNote 7.2.1

Depends R (>= 3.5)

LazyData false

Suggests conflicted, gghighlight, knitr, lubridate, rmarkdown,
tidyverse,

VignetteBuilder knitr

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BugReports https://github.com/ccani007/tidyDisasters/issues/

URL https://ccani007.github.io/tidyDisasters/

NeedsCompilation no

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Repository CRAN

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R topics documented:

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allKeys_df   *allKeys_df*

Description

This data contains the original keys from the FEMA, GTD and EMDAT data set and a universal key created by the authors.

Usage

```
data(allKeys_df)
```

Format

A tibble with

femaID The original ID given by FEMA to each disaster

emdatID The original ID given by EMDAT to each disaster

smashedID The FEMA and EMDAT IDs concatenated together

eventKEY The ID created by the authors to inform the year, state, and number of disasters in that particular place

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disastCasualties_df   *disastCasualties_df*

Description

This data contains the number of people killed and wounded per event. It is relevant to note that the number of people killed and wounded correspond to the total casualties for the whole event, it does not relate to the particular number of casualties in each county or state

Usage

```
data(disastCasualties_df)
```

Format

A tibble with

eventKey The ID created by the authors to inform the year, state, and number of disasters in that particular place

nKilled Number of people killed by the event, not discriminated by location

nWounded Number of people wounded by the event, not discriminated by location

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disastDates_df *disastDates_df*

Description

This data contains the beginning and end date of the disasters registered in EMDAT and FEMA. The dates are given at the state level, this means that if different counties where affected in different dates this will not be accounted for in this data set.

Usage

```
data(disastDates_df)
```

Format

A tibble with

eventKey The ID created by the authors to inform the year, state, and number of disasters in that particular place

eventStart Year, month and day an event started

eventEnd Year, month and day an event ended

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disastLocations_df *disastLocations_df*

Description

This data contains the states and counties where disasters have happened across the USA.

Usage

```
data(disastLocations_df)
```

Format

A tibble with

eventKey The ID created by the authors to inform the year, state, and number of disasters in that
particular place

state Abbreviation of the state where an event happened

county Name of the county the disaster

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disastTypes_df   *disastTypes_df*

Description

This data contains the type of disasters reported by FEMA and EMDAT based on the classification
of the Hazard Definition and Classification Review Technical Report published by the UN Office
for Disaster Risk Reduction (2020)

Usage

```
data(disastTypes_df)
```

Format

A tibble with

eventKey The ID created by the authors to inform the year, state, and number of disasters in that
particular place

incident_type It is the original type of disaster that the FEMA and EMDAT data sets reported

hazard_type It is the related broad classification disaster type The category was assigned based on
the Technical report by matching it to the hazard cluster that was assigned by the authors

hazard_cluster It is the related subtype classification assigned by the authors according to the
original incident type reported by FEMA or EMDAT, and according to the broad classification
that was already assigned

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emdat_hazard_cluster_df

emdat_hazard_cluster_df

Description

This data contains the type of disasters reported by EMDAT and the matched hazard cluster based on the classification of the Hazard Definition and Classification Review Technical Report published by the UN Office for Disaster Risk Reduction (2020) Annex 6 page 72. The matching was done by Dr. Mark Macgowan and Catalina Canizares following the suggestions in the report. However, this classification is subjective and should be used taking into account this disclaimer.

Usage

```
data(fema_hazard_cluster_df)
```

Format

A tibble with

Source This vector will contain the information of the data set from which the information came from, in this case EMDAT

incident_type It is the original type of disaster that the EMDAT data sets reports

hazard_cluster It is the related sub type classification assigned by the authors according to the original incident type reported by EMDAT and according to the broad classification that was already assigned

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fema_hazard_cluster_df

fema_hazard_cluster_df

Description

This data contains the type of disasters reported by FEMA and the matched hazard cluster based on the classification of the Hazard Definition and Classification Review Technical Report published by the UN Office for Disaster Risk Reduction (2020) Annex 6 page 72. The matching was done by Dr. Mark Macgowan and Catalina Canizares following the suggestions in the report. However, this classification is subjective and should be used taking into account this disclaimer.

Usage

```
data(fema_hazard_cluster_df)
```

Format

A tibble with

Source This vector will contain the information of the data set from which the information came from. In this case there are two sources FEMA and GTD

incident_type It is the original type of disaster that the FEMA data sets reported

hazard_cluster It is the related sub type classification assigned by the authors according to the original incident type reported by FEMA and according to the broad classification that was already assigned

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hazard_report_df *hazard_report_df*

Description

This data contains the table from Annex 6 page 72 of the Hazard Definition and Classification Review Technical Report published by the UN Office for Disaster Risk Reduction (2020)

Usage

```
data(hazard_report_df)
```

Format

A tibble with 303 observations and 3 variables

hazard_type The broad category of the disaster.Hazards may be natural, anthropogenic or socionatural in origin

hazard_cluster The subcategory of the disaster, it is more specific than hazard types.

Specific hazard It is the related to the hazard cluster and specifically names the type of disaster.

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