Package 'usmapdata'

May 17, 2024

Title Mapping Data for 'usmap' Package

Version 0.3.0

Description Provides a container for data used by the 'usmap' package.
The data used by 'usmap' has been extracted into this package so that the
file size of the 'usmap' package can be reduced greatly. The data in this
package will be updated roughly once per year as new map data files are
provided by the US Census Bureau.

Depends R (>= 3.5.0)

License GPL (>= 3)

Encoding UTF-8

Language en-US

URL https://usmap.dev

BugReports https://github.com/pdil/usmapdata/issues

Imports rlang, sf

Suggests covr, dplyr, spelling, testthat (>= 3.0.0)

RoxygenNote 7.3.1

Config/testthat/edition 3

NeedsCompilation no

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Repository CRAN

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R topics documented:

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centroid_labels *Retrieve centroid labels*

Description

Retrieve centroid labels

Usage

```
centroid_labels(regions = c("states", "counties"), as_sf = TRUE)
```

Arguments

regions   The region breakdown for the map, can be one of ("states", "counties", as specified by the internal file names. The default is "states".

as_sf   Defunct, this parameter no longer has any effect and will be removed in the future.

Value

An sf data frame of state or county centroid labels and positions relative to the coordinates returned by the us_map function.

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fips_data *Retrieve state and county FIPS codes*

Description

Retrieve state and county FIPS codes

Usage

```
fips_data(regions = c("states", "state", "counties", "county"), as_sf = TRUE)
```

Arguments

regions   The region breakdown for the map, can be one of ("states", "state", "counties", "county"). The default is "states".

as_sf   Defunct, this parameter no longer has any effect and will be removed in the future.

Value

An data frame of FIPS codes of the desired regions.

Examples

```
str(fips_data())

state_fips <- fips_data()
county_fips <- fips_data(regions = "counties")
```

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usmapdata   *usmapdata: Mapping Data for usmap Package*

Description

It is usually difficult or inconvenient to create US maps that include both Alaska and Hawaii in a convenient spot. All map data frames produced by this package use the US National Atlas Equal Area projection.

Map data frames

Alaska and Hawaii have been manually moved to a new location so that their new coordinates place them to the bottom-left corner of the map. These maps can be accessed by using the `us_map` function.

The function provides the ability to retrieve maps with either state borders or county borders using the `regions` parameter for convenience.

States (or counties) can be included such that all other states (or counties) are excluded using the `include` parameter.

Author(s)

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- GitHub: https://github.com/pdil/

References

Rudis B (2014). "Moving The Earth (well, Alaska & Hawaii) With R." https://rud.is/b/2014/11/16/moving-the-earth-well-alaska-hawaii-with-r/.

See Also

Helpful links:

- US Census Shapefiles
  https://www.census.gov/geographies/mapping-files/time-series/geo/tiger-line-file.html
- Map Features
  https://en.wikipedia.org/wiki/Map_projection https://en.wikipedia.org/wiki/Equal-area_projection https://epsg.io/9311

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us_map   *Retrieve US map data*

Description

Retrieve US map data

Usage

```
us_map(
  regions = c("states", "state", "counties", "county"),
  include = c(),
  exclude = c(),
  as_sf = TRUE
)
```

Arguments

regions	The region breakdown for the map, can be one of ("states", "state", "counties", "county"). The default is "states".
include	The regions to include in the resulting map. If regions is "states"/"state", the value can be either a state name, abbreviation or FIPS code. For counties, the FIPS must be provided as there can be multiple counties with the same name. If states are provided in the county map, only counties in the included states will be returned.
exclude	The regions to exclude in the resulting map. If regions is "states"/"state", the value can be either a state name, abbreviation or FIPS code. For counties, the FIPS must be provided as there can be multiple counties with the same name. The regions listed in the include parameter are applied first and the exclude regions are then removed from the resulting map. Any excluded regions not present in the included regions will be ignored.
as_sf	Defunct, this parameter no longer has any effect and will be removed in the future.

Value

An sf data frame of US map coordinates divided by the desired regions.

Examples

```
str(us_map())

df <- us_map(regions = "counties")
west_coast <- us_map(include = c("CA", "OR", "WA"))

excl_west_coast <- us_map(exclude = c("CA", "OR", "WA"))
```

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