Package 'usmapdata'

May 8, 2026

Title Mapping Data for 'usmap' Package

Version 1.0.0

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), withr

RoxygenNote 7.3.2

Config/testthat/edition 3

NeedsCompilation no

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Repository CRAN

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Contents

`available_map_years` *Years for which US map data is available*

Description

Years for which US map data is available

Usage

```
available_map_years()
```

Value

A numeric vector of available map data years, sorted in descending order.

Examples

```
available_map_years()
```

`centroid_labels` *Retrieve centroid labels*

Description

Retrieve centroid labels

Usage

```
centroid_labels(
  regions = c("states", "state", "counties", "county"),
  data_year = NULL
)
```

Arguments

`regions`	The region breakdown for the map, can be one of (`"states"`, `"state"`, `"counties"`, `"county"`). The default is `"states"`.
`data_year`	The year for which to obtain map data. If the value is `NULL`, the most recent year's data is used. If the provided year is not found from the available map data sets, the next most recent year's data is used. This can be used if an older data set is being plotted on the US map so that the data matches the map more accurately. Therefore, the provided value should match the year of the plotted data set. The default is `NULL`, i.e. the most recent available year is used.

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"),
  data_year = NULL
)
```

Arguments

regions	The region breakdown for the map, can be one of ("states", "state", "counties", "county"). The default is "states".
data_year	The year for which to obtain map data. If the value is NULL, the most recent year's data is used. If the provided year is not found from the available map data sets, the next most recent year's data is used. This can be used if an older data set is being plotted on the US map so that the data matches the map more accurately. Therefore, the provided value should match the year of the plotted data set. The default is NULL, i.e. the most recent available year is used.

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")
```

usmapdata *usmapdata: Mapping Data for usmap Package*

Description

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

Map data frames

Alaska, Hawaii, and Puerto Rico 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

us_map *Retrieve US map data*

Description

Retrieve US map data

Usage

```
us_map(
  regions = c("states", "state", "counties", "county"),
  include = c(),
  exclude = c(),
  data_year = NULL
)
```

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 take precedence over regions listed in exclude. If both parameters include the same region(s) they will be included in the map.
data_year	The year for which to obtain map data. If the value is NULL, the most recent year's data is used. If the provided year is not found from the available map data sets, the next most recent year's data is used. This can be used if an older data set is being plotted on the US map so that the data matches the map more accurately. Therefore, the provided value should match the year of the plotted data set. The default is NULL, i.e. the most recent available year is used.

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"))

ct_counties_as_of_2022 <- us_map(regions = "counties", include = "CT", data_year = 2022)
```

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