

Package ‘fiftystater’

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Type Package

Title Map Data to Visualize the Fifty U.S. States with Alaska and Hawaii Insets

Version 1.0.1

Description A simple data package to ease the process of creating choropleths in 'ggplot2' with all fifty U.S. states and Washington D.C., including Alaska and Hawaii as insets.

License GPL-3

LazyData TRUE

Depends R (>= 2.10)

Suggests knitr, rmarkdown, mapproj, ggplot2, dplyr, testthat, colorplaner

VignetteBuilder knitr

RoxygenNote 5.0.1

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URL <https://github.com/wmurphyrd/fiftystater>

BugReports <https://github.com/wmurphyrd/fiftystater/issues>

NeedsCompilation no

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Repository CRAN

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fifty_states	<i>Fifty U.S. States and Washington D.C. with Alaska and Hawaii as Insets</i>
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Description

Map data to plot the entire United States by transforming Alaska and Hawaii to appear as insets nearby the continental states.

Usage

```
fifty_states
```

Format

A data frame with 13694 rows and 7 variables:

long,lat Numeric, latitude and longitude coordinates for shapes.

order Integer, drawing order of shapes.

hole Logical, whether the shape represents a negation.

piece Factor, groupings of shapes.

id Character, lower case state names mapped to plot data via the `map_id` aesthetic in `geom_map`.

group Factor, groupings of shapes.

Details

The `fifty_states` data frame is provided in the format expected by the `map` argument to `geom_map`. Border boxes for the inset states can be included by adding `fifty_states_inset_boxes` to the plot.

Source

Original shapefile provided by Charlie Fitzpatrick [via ArcGIS](#). Transformations based on code from Barry Rowlingson on StackOverflow <http://stackoverflow.com/a/13767984>.

See Also

[fifty_states_inset_boxes](#)

Examples

```
if(require("mapproj") && require("ggplot2")) {
  crimes <- data.frame(state = tolower(rownames(USArrests)), USArrests)
  p <- ggplot(crimes, aes(fill = UrbanPop, map_id = state)) +
    geom_map(map = fifty_states) +
    expand_limits(x = fifty_states$long, y = fifty_states$lat) +
    coord_map()
```

```
p
# Add bounding boxes for Alaska and Hawaii
p + fifty_states_inset_boxes()
}
```

fifty_states_inset_boxes

Add inset box borders

Description

Border boxes for the insets of Alaska and Hawaii in [fifty_states](#) can be added to the map with this function.

Usage

```
fifty_states_inset_boxes()
```

Details

Adding the result of this function to your ggplot will add a layer with border boxes to highlight the insets. It draws data from the package data object `fifty_states_inset_boxes_data` and creates a layer to plot the borders with [annotate](#).

Value

A ggplot2 layer object with path data to draw the inset border boxes

Examples

```
if(require("mapproj") && require("ggplot2")) {
  crimes <- data.frame(state = tolower(rownames(USArrests)), USArrests)
  ggplot(crimes, aes(fill = UrbanPop, map_id = state)) +
    geom_map(map = fifty_states) +
    expand_limits(x = fifty_states$long, y = fifty_states$lat) +
    coord_map() + fifty_states_inset_boxes()
}
```

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