Package 'mapchina'

October 13, 2022

Type Package
Title China Administrative Divisions Geospatial Shapefile Data
Version 0.1.0
Description Geospatial shapefile data of China administrative divisions to the county/district-level.
Depends R (>= 3.6)
License GPL-3
LazyData TRUE
Imports sf
Suggests dplyr, ggplot2, RColorBrewer, showtext
Collate ``data.R" ``globals.R" ``helpers.R"
<pre>URL https://github.com/xmc811/mapchina</pre>
<pre>BugReports https://github.com/xmc811/mapchina/issues</pre>
RoxygenNote 7.1.1
Encoding UTF-8
NeedsCompilation no
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Repository CRAN
Date/Publication 2020-09-29 08:50:05 UTC
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china

China administraive division shapefile data

Description

A simple feature dataframe of China administrative divisions. The data was originally queried from OpenStreetMap and manually corrected for errors in QGIS

Usage

china

Format

A simple feature dataframe of China administrative divisions

Code_County Code of county-level administrative division.

Code_Perfecture Code of perfecture-level administrative division.

Code_Province Code of province-level administrative division.

Name_Province Chinese name of province-level administrative division.

Name_Perfecture Chinese name of perfecture-level administrative division.

Name_County Chinese name of county-level administrative division.

Pinyin Chinese Pinyin.

Pop_2000 Population in Year 2000.

Pop_2010 Population in Year 2010.

Pop_2017 Estimated population in Year 2017.

Pop_2018 Estimated population in Year 2018.

Area Land area in square km.

Density Population density in every square km.

Geometry vector geometry of the administrative division.

Source

http://www.mca.gov.cn/article/sj/xzqh/1980/2019/202002281436.html">https://www.openstreetmap.org/ https://www.mca.gov.cn/article/sj/xzqh/1980/2019/202002281436.html

Examples

head(china)

generate_map_colors 3

generate_map_colors Generate map colors by greedy coloring algorithm so that bordering features are colored differently

Description

Generate map colors by greedy coloring algorithm so that bordering features are colored differently

Usage

```
generate_map_colors(sf)
```

Arguments

sf

An simple feature dataframe - the shapefile of investigation

Value

An integer vector - the indices of map colors

Examples

```
generate_map_colors(head(china, 10))
```

get_mex

Get the mex number of a vector

Description

Get the mex number of a vector

Usage

```
get_mex(v, colors, idx)
```

Arguments

v An logical vector - the intersection vector

colors An integer vector - the color assignment vector

idx An integer - the index

Value

An integer

get_mex

Examples

get_mex(c(TRUE,TRUE,FALSE,FALSE,TRUE), 1:5, 4)

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