

Package ‘mapchina’

May 8, 2026

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"

URL <https://github.com/xmc811/mapchina>

BugReports <https://github.com/xmc811/mapchina/issues>

RoxygenNote 7.1.1

Encoding UTF-8

NeedsCompilation no

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Repository CRAN

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Contents

china	2
generate_map_colors	3
get_mex	3

Index	5
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china

China administrative 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 prefecture-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 prefecture-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

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

Examples

```
head(china)
```

generate_map_colors	<i>Generate map colors by greedy coloring algorithm so that bordering features are colored differently</i>
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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
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Value

An integer vector - the indices of map colors

Examples

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

get_mex	<i>Get the mex number of a vector</i>
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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

Examples

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

Index

* **datasets**

china, [2](#)

china, [2](#)

generate_map_colors, [3](#)

get_mex, [3](#)