

Package ‘comorosmaps’

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Type Package

Title Comoro Islands Maps

Version 1.6.1

Description Provides static and interactive maps of the Comoro Islands at four administrative levels: country, island, prefecture, and commune. Includes tools for choropleth visualisation using 'ggplot2' and 'leaflet', and functions to retrieve the underlying spatial datasets as 'sf' objects.

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Imports sf, magrittr, dplyr, ggplot2, ggrepel, leaflet,

Suggests testthat (>= 3.0.0), readxl

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URL <https://github.com/hhousni/comorosmaps>

BugReports <https://github.com/hhousni/comorosmaps/issues>

NeedsCompilation no

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anjouan	<i>Anjouan</i>
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Description

Draw a map for Anjouan Island

Usage

```
anjouan(pref = FALSE, city = TRUE)
```

Arguments

pref	Choose to map with prefecture area ("pref" = TRUE) or without prefecture area ("pref" = FALSE)
city	Include all Anjouan cities as point features (TRUE) or exclude them (FALSE). Default is TRUE.

Value

The data set used is in *sf* format

Examples

```
## Map Anjouan Island.
anjouan ()
## Map Anjouan Island with prefecture area.
anjouan (pref = TRUE)
```

commune	<i>Comoro Islands Communes</i>
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Description

Draw a map of Comoros at the commune level (admin3).

Usage

```
commune(island = "all", city = FALSE)
```

Arguments

island	Filter by island: "grande comore", "anjouan", "moheli", or "all" (default).
city	Include capital cities as point features (TRUE) or exclude them (FALSE). Default is FALSE.

Value

The data set used is in sf format

Examples

```
## Map all communes
commune()
## Map only Grande Comore communes
commune(island = "grande comore")
## Map Anjouan communes with cities
commune(island = "anjouan", city = TRUE)
```

comoros	<i>Comoro Islands</i>
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Description

Draw maps of Comoros Islands.

Usage

```
comoros(x = "country", pref = FALSE, city = FALSE)
```

Arguments

x	Name of the data set to use. The default is <code>comoros()</code> , It draws Comoro Islands as one object without commune.
pref	Choose to map with prefecture area (" <code>pref</code> " = TRUE) or without prefecture area (" <code>pref</code> " = FALSE)
city	Include all cities as point features (TRUE) or exclude them (FALSE). Default is FALSE.

Details

`comoros()` uses the `sf` package to plot by plotting the geometry rather than every column and leave the plot `pref` ready for overplotting with other data

Value

The data set used is in `sf` format

Examples

```
## Map Comoro Islands as one object without prefecture area
comoros()
## Map Comoro Islands as one object with prefecture area
comoros(x="country",pref=TRUE)
## Map Comoros Islands as 3 object (Grande Comore, Anjouan, Mohéli) without prefecture area.
comoros(x="island",pref=FALSE)
## Map Comoros Islands as 3 object (Grande Comore, Anjouan, Mohéli) with prefecture area
comoros(x="island",pref=TRUE)
```

comorosmaps

comorosmaps: Comoro Islands Maps

Description

A package for mapping Comoro Islands coastline and prefecture area. Data can be drawn or accessed directly as simple features objects. The package includes simple function for each Island: `grandeComore()`, `anjouan()`, `moheli()` and a function for the country `comoros()`

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See Also

Useful links:

- <https://github.com/hhousni/comorosmaps>
- Report bugs at <https://github.com/hhousni/comorosmaps/issues>

get_cities	<i>Get city locations</i>
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Description

Returns city point features as an sf object.

Usage

```
get_cities(island = "all")
```

Arguments

island Filter by island: "grande comore", "anjouan", "moheli", or "all" (default).

Value

An sf data frame with columns name, adminCode, and geometry.

Examples

```
cities <- get_cities()
moheli_cities <- get_cities(island = "moheli")
```

get_communes	<i>Get commune boundaries</i>
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Description

Returns commune (admin3) polygons as an sf object. Useful for custom spatial analysis, joining your own data, or exporting to GeoJSON/CSV.

Usage

```
get_communes(island = "all")
```

Arguments

island Filter by island: "grande comore", "anjouan", "moheli", or "all" (default).

Value

An sf data frame with columns name, adminCode, and geometry.

Examples

```
communes <- get_communes()
anjouan_communes <- get_communes(island = "anjouan")
```

get_prefectures *Get prefecture boundaries*

Description

Returns prefecture (admin2) polygons as an sf object.

Usage

```
get_prefectures(island = "all")
```

Arguments

island Filter by island: "grande comore", "anjouan", "moheli", or "all" (default).

Value

An sf data frame with columns name, adminCode, and geometry.

Examples

```
prefectures <- get_prefectures()
gc_prefs <- get_prefectures(island = "grande comore")
```

grandeComore *Grande Comore*

Description

Draw a map for Grande Comore Island

Usage

```
grandeComore(pref = FALSE, city = TRUE)
```

Arguments

pref Choose to map with prefecture area ("pref" = TRUE) or without prefecture area ("pref" = FALSE)

city Include all Grande Comore cities as point features (TRUE) or exclude them (FALSE). Default is TRUE.

Value

The data set used is in sf format

Examples

```
## Map Grande Comore Island
grandeComore ()
## Map Grande Comore with prefecture area
grandeComore (pref = TRUE)
```

moheli	<i>Moheli</i>
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Description

Draw a map for Moheli Islands

Usage

```
moheli(pref = FALSE, city = TRUE)
```

Arguments

pref	Choose to map with prefecture area ("pref" = TRUE) or without prefecture area ("pref" = FALSE)
city	Include all Mohéli cities as point features (TRUE) or exclude them (FALSE). Default is TRUE.

Value

The data set used is in sf format

Examples

```
## Map Moheli Island
moheli ()
## Map Moheli Island with prefecture area
moheli (pref = TRUE)
```

`plot_map`*Plot a styled map of the Comoro Islands*

Description

Creates a publication-ready map using ggplot2 with non-overlapping city labels via ggrepel.

Usage

```
plot_map(  
  island = "all",  
  pref = FALSE,  
  commune = FALSE,  
  label_regions = NULL,  
  city = TRUE,  
  title = NULL,  
  data = NULL,  
  var = NULL,  
  join_by = "name",  
  fill_label = NULL  
)
```

Arguments

<code>island</code>	Which island to display: "all", "grande comore", "anjouan", or "moheli". Default is "all".
<code>pref</code>	Show prefecture boundaries (TRUE) or not (FALSE). Default FALSE.
<code>commune</code>	Show commune boundaries (TRUE) or not (FALSE). Default FALSE. When TRUE, overrides <code>pref</code> .
<code>label_regions</code>	Label prefecture or commune names inside their borders (TRUE) or not (FALSE). Default TRUE when <code>pref</code> or <code>commune</code> is TRUE.
<code>city</code>	Show city points and labels (TRUE) or not (FALSE). Default TRUE.
<code>title</code>	Map title. If NULL (default), a title is generated automatically.
<code>data</code>	Optional data frame to use for a choropleth fill. Must contain a column matching region names and a numeric column specified by <code>var</code> .
<code>var</code>	Name of the numeric column in <code>data</code> to use for choropleth fill.
<code>join_by</code>	Name of the column in <code>data</code> that matches the name column in the spatial data. Default is "name".
<code>fill_label</code>	Legend title for the choropleth scale. Defaults to the value of <code>var</code> .

Value

A ggplot object.

Examples

```
## Styled map of all islands
plot_map()
## Anjouan with prefecture names inside borders
plot_map(island = "anjouan", pref = TRUE)
## Anjouan at commune level with names
plot_map(island = "anjouan", commune = TRUE)
```

view_map

*Interactive map of the Comoro Islands***Description**

Opens an interactive leaflet map in the viewer or browser. Click polygons to see region names; hover over city markers to see city names.

Usage

```
view_map(
  island = "all",
  pref = FALSE,
  commune = FALSE,
  city = TRUE,
  label_regions = TRUE,
  data = NULL,
  var = NULL,
  join_by = "name",
  fill_label = NULL
)
```

Arguments

island	Which island to display: "all", "grande comore", "anjouan", or "moheli". Default is "all".
pref	Show prefecture boundaries (TRUE) or not (FALSE). Default FALSE.
commune	Show commune boundaries (TRUE) or not (FALSE). Default FALSE. When TRUE, overrides pref.
city	Show city markers (TRUE) or not (FALSE). Default TRUE.
label_regions	Show permanent region name labels on polygons (TRUE) or not (FALSE). Default TRUE.
data	Optional data frame to use for a choropleth fill.
var	Name of the numeric column in data for choropleth fill.
join_by	Column in data matching the region name column. Default "name".
fill_label	Legend title for the choropleth scale. Defaults to var.

Value

A leaflet map widget.

Examples

```
## Interactive map of all islands
## Not run:
view_map()
view_map(island = "anjouan", commune = TRUE, city = TRUE)

## End(Not run)
```

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