Package ‘ozmaps’

August 3, 2021

Version 0.4.5
Title Australia Maps
Description Maps of Australian coastline and administrative regions. Data can be drawn or accessed directly as simple features objects. Includes simple functions for country or state maps of Australia and in-built data sets of administrative regions from the Australian Bureau of Statistics <https://www.abs.gov.au/>. Layers include electoral divisions and local government areas, simplified from the original sources but with sufficient detail to allow mapping of a local municipality.
License GPL-3
Encoding UTF-8
LazyData true
ByteCompile true
Depends R (>= 3.3.0)
Imports oz, tibble, sf
Suggests paletteer (>= 0.2.1), testthat, covr, knitr, rmarkdown
RoxygenNote 7.1.1
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VignetteBuilder knitr
LazyDataCompression xz
NeedsCompilation no
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R topics documented:

- abs-data
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abs-data  Australian Bureau of Statistics (ABS) map data

Description

These data sets are simplifications of the formal statistical areas and regions published by the ABS in 2016.

Format

Simple features data frame with

- NAME  Area name
- geometry  Geometry column in 'sfc' format

Details

Each layer was read from the source file with 'sf' package and attributes were removed, leaving a single 'NAME' column from the year-specific column names. The geometry has been simplified using 'rmapshaper::ms_simplify' with default arguments (0.05 detail).

Several layers are not included from the total available.

- The entire nation layer 'AUST' is not included as it is the union of the State and Territory layer.
- Statistical Areas Level 1 is not included as it is very large (56Mb after simplification).
- The mesh blocks are not included, nor Greater Capital City Statistical Areas, Indigenous Regions, Remoteness Structure, Statistical Areas (L2, L3, L4), State Electoral Divisions. See 'ozmaps.data' for these.

Data layers

- abs_ced  Commonwealth Electoral Divisions
- abs_lga  Local Government Areas
- abs_ste  State and Territory

See Also

The script to create the data set: data-raw/abs-inbuilt.R
Examples

ozmap("abs_ste")

ozmap("abs_lga", col = sample(rainbow(nrow(abs_lga), alpha = .4)))

pal <- rainbow(12, alpha = 0.6) ## boring! install paletteer for ochRe palettes

if (isTRUE(requireNamespace("paletteer", quietly = TRUE))) {
  if (utils::packageVersion("paletteer") < '1.0.0') {
    pal <- paletteer::paletteer_d(package = "ochRe", palette = "namatjira_qual")
  } else {
    pal <- paletteer::paletteer_d(palette = "ochRe::namatjira_qual")
  }
}
opal <- colorRampPalette(pal)

ozmap("abs_ced", col = opal(30))

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oz

The oz function

Description

The classic oz package oz::oz() function.

Usage

oz_data(data = "states", ...)

Arguments

data character string. "states" provides state level else country level

... passed to oz::ozRegion()

Details

This function calls oz::oz() to draw a basic outline. Use oz_data() to obtain the data in native form.

See oz::ozRegion() for more details. Here data is treated as an identifier, but only "states" or any other value is accepted. If not "states", then country level is returned. Further arguments to oz::ozRegion() can be passed in via dots.

Value

oz class list of coordinates
Description

Draw a map of Australia, with or without states.

Usage

ozmap(x = "states", ..., add = FALSE)

Arguments

x name of data set to use, default is ozmap_country
... arguments passed to ...
add add to existing plot, FALSE by default

Details

outline data is purely in longitude-latitude form, see ozmap_data() to obtain the data itself.

See abs_ste for more detailed versions from the Australian Bureau of Statistics. An example is 'abs_ste' which means 'State and Territory', and so is a more detailed version of 'states'.

ozmap() uses the sf package to plot, but does so by only plotting the geometry rather than every column, and leaves the plot region ready for overplotting with other data.

Value

the data set used, in 'sf' format

See Also

ozmap_data

Examples

ozmap()
ozmap("country", lwd = 6)
ozmap("abs_ced", add = TRUE, border = "firebrick") # commonwealth (national) electoral divisions
ozmap_data

Australia map data

Description

Return simple features data frames of various Australian map layers.

Usage

ozmap_data(data = "states", quiet = FALSE, ...)

Arguments

data name of layer to return, see details
quiet set to TRUE to suppress messages
... unused

Details

Available layers are

- **states** ozmap_states state and territories (low resolution)
- **country** ozmap_country entire country (low resolution)
- **abs_ced** abs_ced country level electoral divisions
- **abs_lga** abs_lga local government areas
- **abs_ste** abs_ste state and territories

Value

sf data frame with 'NAME' and 'geometry' columns

Examples

country_sf <- ozmap_data("country")

## can take time to print out
lga_sf <- ozmap_data("abs_lga")
lga_sf[1:6, ]
Description
Australian coastline and boundaries data, including states and territories

Details
In-built data set of Australian coastline and provinces (states and territories) simplified from the Australian Bureau of Statistics layer abs_ste.
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