Package ‘rworldxtra’

February 20, 2015

Type Package
Title Country boundaries at high resolution.
Version 1.01
Date 2012-10-3
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Description High resolution vector country boundaries derived from
Natural Earth data, can be plotted in rworldmap.
License GPL (>= 2)
Depends R (>= 2.10.0), sp
Suggests rworldmap
Repository CRAN
Date/Publication 2012-10-03 17:22:08
NeedsCompilation no

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rworldxtra-package For mapping global data.

Description

   Enables mapping of country level and gridded user datasets by facilitating joining to world maps
   and visualisation options.

Details
Version 1.01 newly uses updated Natural Earth Data for country boundaries.

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References

Derived from : http://www.naturalearthdata.com/downloads/10m-cultural-vectors/

Examples

data(countriesHigh)

countriesHigh

A high resolution world map, a vector map of 253 country boundaries

Description

A 'SpatialPolygonsDataFrame' [package "sp"] object containing country boundaries derived from Natural Earth data. Polygons are attributed with country codes.

Usage

data(countriesHigh)

Format

The format is: Formal class 'SpatialPolygonsDataFrame' [package "sp"] with 5 slots ..@ data :'data.frame': 253 obs. of 32 variables: .. ..$ ne_10m_adm: Factor w/ 253 levels "ABW","AFG","AGO"...: 1 2 3 4 5 6 7 8 9 10 ... ..$ ScaleRank : atomic [1:253] 3 1 1 1 1 1 3 1 1 1 ... ..$ LabelRank : atomic [1:253] 6 2 2 8 5 7 5 2 2 2 ... ..$ FeatureCla: Factor w/ 1 level "Adm-0 country": 1 1 1 1 1 1 1 1 1 ... ..$ OID_ : atomic [1:253] 18 78 82 48 79 16 81 255 84 85 ... ..$ SOVEREIGN: Factor w/ 204 levels "Afghanistan"...: 126 1 5 192 2 60 4 191 8 9 ... ..$ SOV_A3 : Factor w/ 205 levels "AFG","AGO","ALB"...: 135 1 2 65 3 60 4 5 6 7 ... ..$ ADM0_DIF : atomic [1:253]
Details

Derived from version 1.4.0 of Natural Earth data 1:10 m data.

The different country boundaries in rworldmap are processed from Natural Earth Data as follows:

All: ~ rename any non-ASCII country names that cause R trouble ~ rename Curacao which is particularly troublesome! ~ check polygon geometries using checkPolygonsHoles ~ set projections, e.g. proj4string(countriesCoarse) <- CRS("+proj=longlat +ellps=WGS84 +datum=WGS84 +no_defs") ~ set polygon IDs to country names (from ADMIN field) ~ copy ISO_A3 to ISO3 ~ replace missing ISO3 codes (6 in this version) ~ set ISO3 for Gaza to Gaza and 'Ashmore and Cartier Islands' to Ashm ~ replace POP_EST of -99 with NA ~ join on countryRegions data

countriesCoarseLessIslands : ne_110 countriesCoarse : ne_110 plus extra countries from ne_50 plus Tuvalu from ne_50 countriesLow : ne_50 plus Tuvalu from ne_10 countriesHigh : ne_10
Source

http://www.naturalearthdata.com/downloads/10m-cultural-vectors/

Examples

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