

Package ‘rworldxtra’

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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

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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

Package: rworldxtra
Type: Package
Version: 1.01
Date: 2012-10-1
License: GPL (>= 2)

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

Author(s)

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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 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 1 ... .. $ OID_ : atomic
[1:253] 18 78 82 48 79 16 81 255 84 85 ... .. $ SOVEREIGNT:
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]
1 0 0 1 0 1 0 0 0 0 ... .. $ LEVEL : atomic [1:253] 2 2 2 2 2 2 2
2 2 2 ... .. $ TYPE : Factor w/ 7 levels "Country","County",...: 1 7
7 3 7 1 7 7 7 7 ... .. $ ADMIN : Factor w/ 253 levels "Afghanistan",...: 14 1 8 9 4 3 7 235 12 13
... .. $ ADM0_A3 : Factor w/ 253 levels "ABW","AFG","AGO",...: 1 2 3 4 5 6 7 8 9 10 ... .. $
GEOU_DIF : atomic [1:253] 0 0 0 0 0 0 0 0 0 0 ... .. $ GEOUNIT
: Factor w/ 253 levels "Afghanistan",...: 14 1 8 9 4 3 7 236 12 13 ... .. $ GU_A3 : Factor w/ 253
levels "ABW","AFG","AGO",...: 1 2 3 4 5 6 7 8 9 10 ... .. $ SU_DIF : atomic [1:253] 0 0 0 0 0 0
0 0 0 0 ... .. $ SUBUNIT : Factor w/ 253 levels "Afghanistan",...:
14 1 8 9 4 3 7 236 12 13 ... .. $ SU_A3 : Factor w/ 253 levels "ABW","AFG","AGO",...: 1 2 3 4
5 6 7 8 9 10 ... .. $ NAME : Factor w/ 250 levels "Afghanistan",...: 14 1 8 9 4 3 7 236 12 13 ... ..
$ ABBREV : Factor w/ 247 levels "A.C.Is.,"Afg.",...: 14 2 9 9 5 4 8 228 12 13 ... .. $ POSTAL :
Factor w/ 240 levels "A","AE","AF",...: 15 3 9 5 7 5 8 2 11 12 ... .. $ NAME_FORMA: Factor w/
196 levels "Arab Republic of Egypt",...: NA 45 76 NA 75 21 72 NA 2 77 ... .. $ TERR_ : Factor w/
15 levels "Assoc. with N.Z.",...: 13 NA NA 14 NA 8 NA NA NA NA ... .. $ NAME_SORT : Factor
w/ 253 levels "Afghanistan",...: 14 1 8 9 4 3 7 237 12 13 ... .. $ MAP_COLOR : atomic [1:253]
9 7 1 3 6 6 8 3 13 10 ... .. $ POP_EST : atomic [1:253] 103065
28400000 12799293 14436 3639453 ... .. $ GDP_MD_EST:
atomic [1:253] 2258 22270 110300 109 21810 ... .. $ FIPS_10_
: atomic [1:253] 0 0 0 0 0 -99 0 0 0 0 ... .. $ ISO_A2 : Fac-
tor w/ 237 levels "-99","AD","AE",...: 15 4 9 6 7 1 2 3 11 8 ... .. $ ISO_A3 : Factor w/ 251
levels "ABW","AFG","AGO",...: 1 2 3 4 6 5 7 8 9 10 ... .. $ ISO_N3 : atomic [1:253] 533 4
24 660 8 248 20 784 32 51 ... .. $ ISO3 : Factor w/ 251 levels
"ABW","AFG","AGO",...: 1 2 3 4 6 5 7 8 9 10 ... .. @ polygons :List of 253 .. $ :Formal class
'Polygons' [package "sp"] with 5 slots .. .. @ Polygons :List of 1 .. .. $ :Formal class
'Polygon' [package "sp"] with 5 slots .. .. @ labpt : num [1:2] -70 12.5 .. .. @
area : num 0.0141 .. .. @ hole : logi FALSE .. .. @ ringDir: int 1 .. .. @
..@ coords : num [1:26, 1:2] -69.9 -69.9 -69.9 -69.9 -69.9 ... .. @ plotOrder: int 1 .. .. @
labpt : num [1:2] -70 12.5 .. .. @ ID : chr "Aruba" .. .. @ area : num 0.0141

.. .. [list output truncated] ..@ plotOrder : int [1:253] 12 191 39 236 42 33 16 93 120 105 ... ..@
bbox : num [1:2, 1:2] -180 -90 180 83.6 .. .. $ : chr [1:2] "x"
"y" .. .. $ : chr [1:2] "min" "max" ..@ proj4string:Formal class 'CRS' [package "sp"] with 1 slots
.. .. @ projargs: chr NA
```

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) with ADM0_A3 ~ check for duplicate ISO3 codes (2 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_10* *countriesLow* : *ne_50* plus Tuvalu from *ne_10* *countriesHigh* : *ne_10*

Source

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

Examples

```
data(countriesHigh)
```

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