

Package: **africovid** (via r-universe)

October 12, 2024

Title Visualisation of Sub-National Covid Data for Africa
Version 0.0.0.9000
Description Visualisation of Sub-National Covid Data for Africa.
License GPL (>= 3)
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RoxygenNote 7.1.1
Depends R (>= 2.10)
Imports ggplot2, lubridate, dplyr, countrycode, rmapshaper, afriadmin,
sf
Suggests shiny
Remotes afrimapr/afriadmin
Repository <https://afrimapr.r-universe.dev>
RemoteUrl <https://github.com/afrimapr/africovid>
RemoteRef HEAD
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afcov	<i>to return subnational covid data by country and optionally date</i>
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Description

*in progress

Usage

```
afcov(country, language = "en", dates = "all", timeinterval = NULL)
```

Arguments

country	a character vector of country names or iso3c character codes.
language	'which admin level to return 'en' or 'fr' for country name
dates	either 'all', 'last' or c(start,end) in format "2021-01-31"
timeinterval	optional interval to sum over, options e.g. "5 days" "week" "month"

Value

dataframe

afcov_heatmap	<i>plot heatmap of subnational covid data</i>
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Description

*in progress to show cases or deaths Initial ggplot code copied from <https://github.com/VictimOfMaths/COVID-19/blob/master/Heatmaps/English%20LA%20Heatmaps.R>

Usage

```
afcov_heatmap(
  country,
  attribute = "CONTAMINES",
  areanames = "namesgeob",
  dates = "all",
  language = "en",
  legend.position = "top",
  palette = "YlGnBu",
  timeinterval = NULL,
  date_legend = c("2020-04", "2020-05", "2020-06", "2020-07", "2020-08", "2020-09",
    "2020-10", "2020-11", "2020-12", "2021-01", "2021-02", "2021-03", "2021-04",
    "2021-05")
)
```

Arguments

country	a character vector of country names or iso3c character codes.
attribute	attribute to plot, from dfhera
areaname	name of column containing the area names ('namesgeob' added to match geoboundaries, 'REGION' is in raw data)
dates	either 'all', 'last' or c(start,end) in format "2021-01-31"
language	'which admin level to return' 'en' or 'fr' for country name
legend.position	default "top", options "left","right","bottom"
palette	RColorBrewer palette options default="YlGnBu"
timeinterval	optional interval to sum over, options e.g. "5 days" "week" "month"
date_legend	axis breaks to appear in plots

Value

ggplot

Examples

```
afcov_heatmap('Mali')
afcov_heatmap('senegal', dates=c("2021-01-01","2021-04-01"))
```

afcov_map	<i>plot map of subnational covid data by country</i>
-----------	--

Description

*in progress to show cases or deaths

Usage

```
afcov_map(
  country,
  attribute = "CONTAMINES",
  dates = "last",
  timeinterval = NULL,
  language = "en",
  legend.position = "top",
  palette = "YlGnBu"
)
```

Arguments

country	a character vector of country names or iso3c character codes.
attribute	attribute to plot, from dfhera
dates	either 'all', 'last' or c(start,end) in format "2021-01-31"
timeinterval	optional interval to sum over, options e.g. "5 days" "week" "month"
language	'which admin level to return 'en' or 'fr' for country name
legend.position	default "top", options "left","right","bottom"
palette	RColorBrewer palette options default="YlGnBu"

Value

ggplot

Examples

```

afcov_map('Mali')

#a 6 daily faceted map
afcov_map('senegal', dates=c("2021-01-01", "2021-01-06"))

```

country2iso	<i>conversion from country names to iso3c code</i>
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Description

conversion from country names to iso3c code

Usage

```
country2iso(country)
```

Arguments

country	a character vector of country names
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Value

character vector of iso3c codes

Examples

```
iso3c <- country2iso("nigeria")
```

dfhera	<i>subnational covid data from HERA</i>
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Description

subnational covid data from HERA

Usage

dfhera

Format

dataframe

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 64292 rows and 17 columns.

Slots

data subnational daily covid statistics

Source

<https://data.humdata.org/organization/hera-humanitarian-emergency-response-africa>

join_all_subnat_to_map

join geoboundaries admin names onto the hera data to allow joining to a map later

Description

*in progress

Usage

join_all_subnat_to_map(dfhera)

Arguments

dfhera can pass in progress dataframe containing the hera data

Value

dataframe

join_subnat_to_map	<i>join subnational data to map of admin boundaries</i>
--------------------	---

Description

in progress

Usage

```
join_subnat_to_map(country = "senegal")
```

Arguments

country a character vector of country names or iso3c character codes.

Value

dataframe

runviewer	<i>to run the shiny web application.</i>
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Description

to run the shiny web application.

Usage

```
runviewer()
```

update_data	<i>update package data from HERA via HDX</i>
-------------	--

Description

BEWARE code in africovid-creation.r is more up-to-date than this *in progress

Usage

```
update_data()
```

Details

will try to download data from HDX and use this to update locally the data stored in the package

Value

dataframe

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