

Package ‘covid19br’

September 29, 2020

Type Package

Title Brazilian COVID-19 Pandemic Data

Version 0.1.0

Description Set of functions to import COVID-19 pandemic data into R. The Brazilian COVID-19 data, obtained from the official Brazilian repository at <<https://covid.saude.gov.br/>>, is available at country, region, state, and city-levels. The package also downloads the world-level COVID-19 data from the John Hopkins University's repository.

URL <https://github.com/fndemarqui/covid19br>

BugReports <https://github.com/fndemarqui/covid19br/issues>

Encoding UTF-8

License GPL (>= 2)

Depends R (>= 3.5.0)

Imports data.table, dplyr, httr, lubridate, openxlsx, rlang, R.utils,
tidyr

Suggests testthat, tidyverse

LazyData true

RoxygenNote 7.1.1

NeedsCompilation no

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Repository CRAN

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covid19br

*Brazilian COVID-19 Pandemic Data.***Description**

The package provides a function to automatically import Brazilian COVID-19 pandemic data into R. Brazilian data is available on the country, region, state, and city levels, and are obtained from the official Brazilian repository at <https://covid.saude.gov.br/>. The package also downloads the world-level COVID-19 data from the John Hopkins University's repository at <https://github.com/CSSEGISandData/COVID-19>.

Author(s)

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downloadCovid19

*Function to download COVID-19 data from web repositories***Description**

This function downloads the pandemic COVID-19 data at Brazil and World basis. Brazilian data is available at national, region, state, and city levels, whereas the world data are available at the country level.

Usage

```
downloadCovid19(level = c("brazil", "regions", "states", "cities", "world"))
```

Arguments

level the desired level of data aggregation: "brazil" (default), "regions", "states", "cities", and "world".

Details

The Brazilian data provided by the Brazilian government at its official repository (<https://covid.saude.gov.br/>) is available in a single xlsx file. That file contains data aggregated at national, state, and city geographic levels. Because importing such data file into R requires a considerable amount of RAM (over 4G), the data is daily downloaded with the internal function `downloadMS`, and then made available in smaller/lighter binary files at a GitHub repository (<https://github.com/dest-ufmg/covid19repo>) maintained by the authors' package.

Value

a tibble containing the downloaded data at the specified level.

Examples

```
library(covid19br)

# Downloading Brazilian COVID-19 data:
brazil <- downloadCovid19(level = "brazil")
regions <- downloadCovid19(level = "regions")
states <- downloadCovid19(level = "states")
cities <- downloadCovid19(level = "cities")

# Downloading world COVID-19 data:
world <- downloadCovid19(level = "world")
```

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