

# Package ‘`covid19br`’

November 24, 2020

**Type** Package

**Title** Brazilian COVID-19 Pandemic Data

**Version** 0.1.1

**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/>](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, rio, rlang, tidyr

**Suggests** testthat, tidyverse

**LazyData** true

**RoxygenNote** 7.1.1

**NeedsCompilation** no

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**Repository** CRAN

**Date/Publication** 2020-11-24 12:40:06 UTC

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 covid19br

*Brazilian COVID-19 Pandemic Data.*


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### 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*


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### 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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