Package: flightsbr (via r-universe)

May 14, 2026

Type Package

Title Download Flight and Airport Data from Brazil

Version 1.1.10999

Description Download flight and airport data from Brazil's Civil Aviation Agency (ANAC) <https://www.gov.br/anac/pt-br>. The data covers detailed information on aircraft, airports, and airport operations registered with ANAC. It also includes data on airfares, all international flights to and from Brazil, and domestic flights within the country.

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URL https://github.com/ipeaGIT/flightsbr

BugReports https://github.com/ipeaGIT/flightsbr/issues

Depends R (>= 2.10)

Imports archive, curl (>= 5.0.0), data.table (>= 1.14.0), fs, lifecycle, parzer, pbapply, janitor, rvest

Suggests dplyr, ggplot2 (>= 3.3.1), rmarkdown (>= 2.6), knitr, testthat

VignetteBuilder knitr

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2

Config/pak/sysreqs cmake make libarchive-dev libicu-dev libuv1-dev libxml2-dev libssl-dev

Repository https://ipea.r-universe.dev

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RemoteUrl https://github.com/ipea/flightsbr

RemoteRef HEAD

RemoteSha 644ce80475ce110e45305531c203dd1add65eb30

Contents

`flightsbr` *flightsbr: Download Flight and Airport Data from Brazil*

Description

Download flight and airport data from Brazil's Civil Aviation Agency (ANAC) https://www.gov.br/anac/pt-br. The data includes detailed information on all aircrafts, aerodromes, airports, and airport movements registered in ANAC, and on every international flight to and from Brazil, as well as domestic flights within the country.

Usage

Please check the vignettes and data documentation on the website.

Author(s)

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- Ipea - Institute for Applied Economic Research [copyright holder, funder]

See Also

Useful links:

- https://github.com/ipeaGIT/flightsbr
- Report bugs at https://github.com/ipeaGIT/flightsbr/issues

latest_airfares_date *Check the date of the latest airfare data available*

Description

Check the date of the latest airfare data available

Usage

```
latest_airfares_date(dom = TRUE)
```

Arguments

dom	Logical. Defaults to TRUE download airfares of domestic flights. If FALSE, the function downloads airfares of international flights.

Value

A numeric date in the format yyyymm.

See Also

Other support function: latest_flights_date()

Examples

```
## Not run:  if (interactive()) {

latest_date <- latest_airfares_date()

}
## End(Not run)
```

latest_flights_date *Check the date of the latest flight data available*

Description

Check the date of the latest flight data available

Usage

```
latest_flights_date()
```

Value

A numeric date in the format yyyymm.

See Also

Other support function: latest_airfares_date()

Examples

```
## Not run:  if (interactive()) {

latest_date <- latest_flights_date()

}
## End(Not run)
```

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read_aircraft *Download aircraft data from Brazil*

Description

Download data of all aircraft registered in the Brazilian Aeronautical Registry (Registro Aeronáutico Brasileiro - RAB), organized by the Brazilian Civil Aviation Agency (ANAC). A description of all variables included in the data is available at https://www.gov.br/anac/pt-br/sistemas/rab.

Usage

```
read_aircraft(date = NULL, showProgress = TRUE, cache = TRUE)
```

Arguments

date	Numeric. Date of the data in the format yyyymm. Defaults to the latest date available. To download the data for all months in a year, the user can pass a 4-digit year input yyyy. The function also accepts a vector of dates, like c(202201, 202301) or c(2022, 2024).
showProgress	Logical. Defaults to TRUE display progress.
cache	Logical. Whether the function should read cached data downloaded previously. Defaults to TRUE. If FALSE, the function will always download the data and overwrite cached data.

Value

A "data.table" "data.frame" object. All columns are returned with class of type "character".

See Also

Other download flight data: read_aircrafts(), read_flights()

Examples

```
## Not run:  if (interactive()) {
# Read aircraft data
aircraft <- read_aircraft(date = 202001,
                          showProgress = TRUE)


}
## End(Not run)
```

`read_airfares` *Download data on airfares flights in Brazil*

Description

Download data on air fares of domestic and international flights in Brazil. The data is collected by Brazil's Civil Aviation Agency (ANAC). A description of all variables included in the data for domestic airfares is available at https://www.anac.gov.br/acesso-a-informacao/dados-abertos/areas-de-atuacao/voos-e-operacoes-aereas/tarifas-aereas-domesticas/46-tarifas-aereas-domesticas. A description of all variables included in the data for international airfares is available at https://www.gov.br/anac/pt-br/assuntos/dados-e-estatisticas/microdados-de-tarifas-aereas-comercializadas.

Usage

```
read_airfares(
  date = NULL,
  domestic = TRUE,
  showProgress = TRUE,
  select = NULL,
  cache = TRUE
)
```

Arguments

`date`	Numeric. Date of the data in the format `yyyymm`. Defaults to the latest date available. To download the data for all months in a year, the user can pass a 4-digit year input `yyyy`. The function also accepts a vector of dates, like `c(202201, 202301)` or `c(2022, 2024)`.
`domestic`	Logical. Defaults to `TRUE` download airfares of domestic flights. If `FALSE`, the function downloads airfares of international flights.
`showProgress`	Logical. Defaults to `TRUE` display progress.
`select`	A vector of column names or positions to keep. The rest of the columns are not read. The order that the columns passed determines the order of the columns in the result.
`cache`	Logical. Whether the function should read cached data downloaded previously. Defaults to `TRUE`. If `FALSE`, the function will always download the data and overwrite cached data.

Value

A "data.table" "data.frame" object. All columns are returned with class of type "character".

Examples

```
## Not run:  if (interactive()) {
# Read air fare data
af_201506 <- read_airfares(date = 201506, domestic = TRUE)

af_2015 <- read_airfares(date = 2015, domestic = TRUE)
}
## End(Not run)
```

`read_airport_movements`

Download airport movement data from Brazil

Description

Download airport movements data from Brazil's Civil Aviation Agency (ANAC). The data covers all passenger, aircraft, cargo and mail movement data from airports regulated by ANAC. Data only available from Jan 2019 onwards. A description of all variables included in the data is available at https://www.anac.gov.br/acesso-a-informacao/dados-abertos/areas-de-atuacao/operador-aeroportuario/dados-de-movimentacao-aeroportuaria/60-dados-de-movimentacao-aeroportuaria.

Usage

```
read_airport_movements(date = NULL, showProgress = TRUE, cache = TRUE)
```

Arguments

date	Numeric. Date of the data in the format yyyymm. Defaults to the latest date available. To download the data for all months in a year, the user can pass a 4-digit year input yyyy. The function also accepts a vector of dates, like c(202201, 202301) or c(2022, 2024).
showProgress	Logical. Defaults to TRUE display progress.
cache	Logical. Whether the function should read cached data downloaded previously. Defaults to TRUE. If FALSE, the function will always download the data and overwrite cached data.

Value

A "data.table" "data.frame" object. All columns are returned with class of type "character".

Examples

```
## Not run:  if (interactive()) {
# Read airport movement data
amov202006 <- read_airport_movements(date = 202006)

amov2020 <- read_airport_movements(date = 2020)
}
## End(Not run)
```

`read_airports` *Download airports data from Brazil*

Description

Download data of all airports and aerodromes registered in Brazil's Civil Aviation Agency (ANAC). Data source: https://www.gov.br/anac/pt-br/acesso-a-informacao/dados-abertos/areas-de-atuacao/aerodromos. The data dictionary for public airports can be found at https://www.anac.gov.br/acesso-a-informacao/dados-abertos/areas-de-atuacao/aerodromos/lista-de-aerodromos-publicos-v2/70-lista-de-aerodromos-publicos-v2. The data dictionary for private airports can be found at https://www.anac.gov.br/acesso-a-informacao/dados-abertos/areas-de-atuacao/aerodromos/lista-de-aerodromos-privados-v2.

Usage

```
read_airports(type = "all", showProgress = TRUE, cache = TRUE)
```

Arguments

`type`	String. Whether the function should download data on `all`, `public` or `private` airports. Defaults to `all`, returning fewer columns. Downloading `public` and `private` airports separately will return the full set of columns available for each of those data sets.
`showProgress`	Logical. Defaults to `TRUE` display progress.
`cache`	Logical. Whether the function should read cached data downloaded previously. Defaults to `TRUE`. If `FALSE`, the function will always download the data and overwrite cached data.

Value

A `"data.table" "data.frame"` object.

Examples

```
## Not run:  if (interactive()) {
# Read airports data
all_airports <- read_airports(type = 'all')
```

```
public_airports <- read_airports(type = 'public')

private_airports <- read_airports(type = 'private')
}
## End(Not run)
```

`read_flights` *Download flight data from Brazil*

Description

Download flight data from Brazil's Civil Aviation Agency (ANAC). The data includes detailed information on every international flight to and from Brazil, as well as domestic flights within the country. The data include flight-level information of airports of origin and destination, flight duration, aircraft type, payload, and the number of passengers, and several other variables. A description of all variables included in the data is available at https://www.gov.br/anac/pt-br/assuntos/regulados/empresas-aereas/Instrucoes-para-a-elaboracao-e-apresentacao-das-demonstracoes-contabeis/descricao-de-variaveis.

Usage

```
read_flights(
  date = NULL,
  type = "basica",
  showProgress = TRUE,
  select = NULL,
  cache = TRUE
)
```

Arguments

`date`	Numeric. Date of the data in the format `yyyymm`. Defaults to `202001`. To download the data for all months in a year, the user can pass a 4-digit year input `yyyy`. The parameter also accepts a vector of dates such as `c(202001, 202006, 202012)`.
`type`	String. Whether the data set should be of the type `basica` (flight stage, the default) or `combinada` (On flight origin and destination - OFOD).
`showProgress`	Logical. Defaults to `TRUE` display progress.
`select`	A vector of column names or positions to keep. The rest of the columns are not read. The order that the columns passed determines the order of the columns in the result.
`cache`	Logical. Whether the function should read cached data downloaded previously. Defaults to `TRUE`. If `FALSE`, the function will always download the data and overwrite cached data.

Value

A "data.table" "data.frame" object. All columns are returned with class of type "character".

See Also

Other download flight data: read_aircraft(), read_aircrafts()

Examples

```
## Not run:  if (interactive()) {
# Read flights data
f201506 <- read_flights(date = 201506)

f2015 <- read_flights(date = 2015)
}
## End(Not run)
```

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