Package ‘exoplanets’

July 24, 2021

Title  Access NASA's Exoplanet Archive Data
Version  0.2.2
Description  The goal of exoplanets is to provide access to
NASA's Exoplanet Archive TAP Service. For more information regarding
the API please read the documentation
<https://exoplanetarchive.ipac.caltech.edu/index.html>.
License  MIT + file LICENSE
URL  https://docs.ropensci.org/exoplanets/,
      https://github.com/ropensci/exoplanets
BugReports  https://github.com/ropensci/exoplanets
Depends  R (>= 2.10)
Imports  cli, httr, memoise, readr, tibble
Suggests  covr, dplyr, ggplot2, httptest, knitr, rmarkdown, scales,
          testthat (>= 3.0.0)
VignetteBuilder  knitr
Config/testthat/edition  3
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Description

A simple interface for accessing exoplanet data. At the bare minimum, a table name is required. Tables names are documented in the 'tableinfo' dataset.

Usage

exoplanets(table, columns = NULL, limit = NULL, format = "csv")

Arguments

- **table**: A table name, see 'tableinfo'.
- **columns**: A vector of valid column names, by default will return all default columns, see 'tableinfo'.
- **limit**: Number of rows to return. If NULL, returns all data in the table.
- **format**: Desired format, either csv, tsv, or json.

Details

At one time, this package used the Exoplanet Archive Application Programming Interface (API). Since then, a handful of tables have been transitioned to the Table Access Protocol (TAP) service. More tables will be transitioned to TAP and as such, this package only supports queries from TAP. For more information, you can read https://exoplanetarchive.ipac.caltech.edu/docs/exonews_archive.html#29April2021.

Value

A data.frame if format="csv" or format="tsv". A list if format="json".

Source

https://exoplanetarchive.ipac.caltech.edu/

See Also

tableinfo
### forget_exoplanets

Clear the exoplanets cache

#### Description

*Forget past results and reset the exoplanets cache.*

#### Usage

```r
forget_exoplanets()
```

#### Examples

```r
if (interactive()) {
  system.time(exoplanets("k2names"))
  system.time(exoplanets("k2names"))
  forget_exoplanets()
  system.time(exoplanets("k2names"))
}
```

---

### tableinfo

Table Information

#### Description

This dataset provides table information for NASA's Exoplanet Archive TAP service. In particular, the table name, columns, and column descriptions are provided.
Usage
tableinfo

Format
An object of class tbl_df (inherits from tbl, data.frame) with 546 rows and 13 columns.

Source
https://exoplanetarchive.ipac.caltech.edu/docs/TAP/usingTAP.html

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