

Package ‘hudr’

September 17, 2022

Encoding UTF-8

Language en-US

Type Package

Title Providing Data from the US Department of Housing and Urban Development

Version 1.2.0

Date 2022-09-17

Author Paul Richardson

Maintainer Paul Richardson <p.richardson.54391@gmail.com>

Description Provides functions to access data from the US Department of Housing and Urban Development <<https://www.huduser.gov/portal/dataset/fmr-api.html>>.

License GPL (>= 3)

Depends R (>= 3.5.0)

Imports magrittr, data.table, janitor, httr

RoxygenNote 7.2.1

NeedsCompilation no

Repository CRAN

Date/Publication 2022-09-17 14:06:04 UTC

R topics documented:

hudr-package	2
get_hud_chas_data	2
get_hud_chas_entityid_list	3
get_hud_fmr_data	4
get_hud_fmr_listcounties	5
get_hud_fmr_listmetros	6
get_hud_fmr_liststates	7
get_hud_fmr_statedata	8
get_hud_il_data	9
get_hud_il_statedata	10

Index**11**

hudr-package	<i>Package that provides data from HUD.</i>
--------------	---

Description

Provides functions to access data from the US Department of Housing and Urban Development <https://www.huduser.gov/portal/dataset/fmr-api.html>.

Details

Provides data from the US Department of Housing and Urban Development (HUD).

References

<<https://www.huduser.gov/portal/dataset/fmr-api.html>>

get_hud_chas_data	<i>Get HUD Comprehensive Housing Affordability Strategy (CHAS) data at the Place, MCD, County, State, National Level from HUD.</i>
-------------------	--

Description

Provides Comprehensive Housing Affordability Strategy (CHAS) data at the Place, MCD, County, State, National Level from HUD.

Usage

```
get_hud_chas_data(
  entityid,
  stateid,
  type,
  yr,
  hud_key = Sys.getenv("HUD_API_KEY")
)
```

Arguments

entityid	Character string containing the 'fips_code' from get_hud_fmr_listcounties(...) or 'cbsa_code' from get_hud_fmr_listmetros(...).
stateid	Character string containing the 'fips_code' for the State.
type	Character string indicating the summary level. Option include 1-5. 1 - Nation, 2 - State, 3 - County, 4 - MCD, 5 - Place.
yr	Character string indicating the year.
hud_key	Character string indicating your API key from HUD.

Details

Provides fair market rent data at the County and MSA level from HUD.

Value

A list of data tables containing fair market rent data from HUD.

Author(s)

Paul Richardson

Examples

```
## Not run:
library(hudr)

hud_key <- Sys.getenv("HUD_API_KEY")

chas_cnty_dt <- get_hud_chas_data(entityid = "033", stateid = "53",
                                type = "3", yr = "2014-2018",
                                hud_key = hud_key)

## End(Not run)
```

get_hud_chas_entityid_list

Get HUD Comprehensive Housing Affordability Strategy (CHAS) data at the Place, MCD, County, State, National Level from HUD.

Description

Provides a data.table containing the entityIds for all of the counties within a given state for the Comprehensive Housing Affordability Strategy (CHAS) data from HUD.

Usage

```
get_hud_chas_entityid_list(
  stateid,
  geo_lvl,
  hud_key = Sys.getenv("HUD_API_KEY")
)
```

Arguments

- stateid Character string containing the 'fips_code' for the State.
- geo_lvl Character string indicating either "county", "MDC", or "city".
- hud_key Character string indicating your API key from HUD.

Details

Provides fair market rent data at the County and MSA level from HUD.

Value

A list of data tables containing fair market rent data from HUD.

Author(s)

Paul Richardson

Examples

```
## Not run:
library(hudr)

hud_key <- Sys.getenv("HUD_API_KEY")

chas_cnty_lst_dt <- get_hud_chas_entityid_list(stateid = "53",
                                              geo_lvl = "county",
                                              hud_key = hud_key)

## End(Not run)
```

get_hud_fmr_data	<i>Get HUD Fair Market Rent data at the County or MSA Level from HUD.</i>
------------------	---

Description

Provides fair market rent data at the County and MSA level from HUD.

Usage

```
get_hud_fmr_data(entityid, yr, hud_key = Sys.getenv("HUD_API_KEY"))
```

Arguments

entityid	Character string containing the 'fips_code' from get_hud_fmr_listcounties(...) or 'cbsa_code' from get_hud_fmr_listmetros(...).
yr	Character string indicating the year.
hud_key	Character string indicating your API key from HUD. Default is Sys.getenv("HUD_API_KEY").

Details

Provides fair market rent data at the County and MSA level from HUD.

Value

A list of data tables containing fair market rent data from HUD.

Author(s)

Paul Richardson

Examples

```
## Not run:
library(hudr)

hud_key <- Sys.getenv("HUD_API_KEY")

cbsa_codes <- get_hud_fmr_listmetros(hud_key = hud_key)
cnty_codes <- get_hud_fmr_listcounties(hud_key = hud_key)

fmr_msa_dt <- get_hud_fmr_data(entityid = cbsa_codes$cbsa_code[1],
                             yr = "2020",
                             hud_key = hud_key)
fmr_cnty_dt <- get_hud_fmr_data(entityid = cnty_codes$fips_code[1],
                               yr = "2020",
                               hud_key = hud_key)

## End(Not run)
```

`get_hud_fmr_listcounties`

Get HUD List of County Codes data.

Description

Provides list of county codes data from HUD.

Usage

```
get_hud_fmr_listcounties(stateid, hud_key = Sys.getenv("HUD_API_KEY"))
```

Arguments

<code>stateid</code>	Character string indicating the state.
<code>hud_key</code>	Character string indicating your API key from HUD.

Details

Provides list of county codes data from HUD.

Value

A data table containing a list of county codes from HUD.

Author(s)

Paul Richardson

Examples

```
## Not run:  
library(hudr)  
  
hud_key <- Sys.getenv("HUD_API_KEY")  
  
state_codes <- get_hud_fmr_listcounties(hud_key = hud_key)  
  
## End(Not run)
```

get_hud_fmr_listmetros

Get HUD List of MSA Codes data.

Description

Provides list of MSA codes data from HUD.

Usage

```
get_hud_fmr_listmetros(hud_key = Sys.getenv("HUD_API_KEY"))
```

Arguments

hud_key Character string indicating your API key from HUD.

Details

Provides list of MSA codes from HUD.

Value

A data table containing a list of MSA codes from HUD.

Author(s)

Paul Richardson

Examples

```
## Not run:  
library(hudr)  
  
hud_key <- Sys.getenv("HUD_API_KEY")  
  
cbsa_codes <- get_hud_fmr_listmetros(hud_key = hud_key)  
  
## End(Not run)
```

`get_hud_fmr_liststates`

Get HUD List of State Codes data.

Description

Provides list of state codes data from HUD.

Usage

```
get_hud_fmr_liststates(hud_key = Sys.getenv("HUD_API_KEY"))
```

Arguments

`hud_key` Character string indicating your API key from HUD.

Details

Provides list of state codes data from HUD.

Value

A data table containing a list of state codes from HUD.

Author(s)

Paul Richardson

Examples

```
## Not run:  
library(hudr)  
  
hud_key <- Sys.getenv("HUD_API_KEY")  
  
state_codes <- get_hud_fmr_liststates(hud_key = hud_key)  
  
## End(Not run)
```


Index

[get_hud_chas_data](#), 2
[get_hud_chas_entityid_list](#), 3
[get_hud_fmr_data](#), 4
[get_hud_fmr_listcounties](#), 5
[get_hud_fmr_listmetros](#), 6
[get_hud_fmr_liststates](#), 7
[get_hud_fmr_statedata](#), 8
[get_hud_il_data](#), 9
[get_hud_il_statedata](#), 10

[hudr \(hudr-package\)](#), 2
[hudr-package](#), 2