

Package ‘hudr’

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

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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)

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Imports magrittr, data.table, janitor, http

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

stateid	Character string indicating the state.
hud_key	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)
```


get_hud_il_data	Get HUD Income Limit data at the County or MSA Level from HUD.
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Description

Provides income limit data at the County and MSA level from HUD.

Usage

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

Arguments

entityid	Character string containing the 'fips_code' from <code>get_hud_fmr_listcounties(...)</code> or 'cbsa_code' from <code>get_hud_fmr_listmetros(...)</code> .
----------	--

yr	Character string indicating the year.
----	---------------------------------------

hud_key	Character string indicating your API key from HUD. Default is <code>Sys.getenv("HUD_API_KEY")</code> .
---------	--

Details

Provides income limit data at the County and MSA level from HUD.

Value

A list of data tables containing income limit 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)  
  
il_msa_dt <- get_hud_il_data(entityid = cbsa_codes$cbsa_code[1],  
                             yr = "2020",  
                             hud_key = hud_key)  
il_cnty_dt <- get_hud_il_data(entityid = cnty_codes$fips_code[1],  
                               yr = "2020",  
                               hud_key = hud_key)  
  
## End(Not run)
```

`get_hud_il_statedata` *Get HUD Income Limit data at the State Level from HUD.*

Description

Provides income limit data at the State level from HUD.

Usage

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

Arguments

entityid	Character string containing the 'state_code' from get_hud_fmr_liststates(...).
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 income limit data at the State level from HUD.

Value

A list of data tables containing income limit data from HUD.

Author(s)

Paul Richardson

Examples

[illegible]

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