

# Package ‘realestatebr’

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**Type** Package

**Title** Import Brazilian Real Estate Data into R

**Version** 1.0.0

**Description** Provides access to Brazilian real estate market data from multiple official sources: the Central Bank of Brazil (BCB) <<https://www.bcb.gov.br/>>, the Brazilian Association of Real Estate Developers (ABRAINCO) <<https://abrainc.org.br/>>, the Brazilian Association of Real Estate Credit and Savings Entities (ABECIP) <<https://www.abecip.org.br/>>, the Getulio Vargas Foundation (FGV) <<https://portalibre.fgv.br/>>, and the Bank for International Settlements (BIS) <<https://www.bis.org/>>.

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**URL** <https://github.com/viniciusoike/realestatebr>,  
<https://viniciusoike.github.io/realestatebr/>

**BugReports** <https://github.com/viniciusoike/realestatebr/issues>

**Encoding** UTF-8

**Language** en-US

**LazyData** true

**Depends** R (>= 4.1.0)

**RoxygenNote** 7.3.3

**Imports** cli, dplyr, httr, janitor, lubridate, purrr, rappdirs, rcbcb,  
readr, readxl, rlang, rvest, stringr, tibble, tidyr, tidyxl,  
xml2, yaml, zoo

**Suggests** geobr, ggplot2, kableExtra, knitr, piggyback, pkgdown,  
RcppRoll, rmarkdown, scales, sf, stringi, targets, tarchetypes,  
testthat, trendseries

**VignetteBuilder** knitr

**NeedsCompilation** no

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## Contents

b3_real_estate . . . . .	2
bcb_metadata . . . . .	3
check_cache_status . . . . .	3
clear_user_cache . . . . .	4
dim_city . . . . .	5
get_dataset . . . . .	5
get_dataset_info . . . . .	7
list_datasets . . . . .	7
update_cache_from_github . . . . .	8

**Index** **10**

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b3_real_estate	<i>Real Estate Players listed on B3</i>
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## Description

List of main Brazilian real estate players listed on B3.

## Usage

b3\_real\_estate

## Format

b3\_real\_estate:

A tibble with 38 rows and 3 columns:

**symbol** Stock ticker.

**name** Full company name.

**name\_short** A shorter version of the company name.

## Source

B3

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bcb\_metadata

*Brazilian Central Bank Series Metadata*


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### Description

A table with metadata for BCB economic series. Use with `get_dataset("bcb_series")`. The `hierarchy` column controls which series are returned by default: pass `table = "core"` for the most relevant real estate series, or a broader level for more macroeconomic context (see [get\\_dataset](#)).

### Usage

```
bcb_metadata
```

### Format

```
bcb_metadata:
```

A data frame with 140 rows and 11 columns:

**code\_bcb** Numeric code identifying the series.

**bcb\_category** Category of the series.

**name\_simplified** Simplified name of the series.

**name\_pt** Full name of the series in Portuguese.

**name** Full name of the series in English.

**unit** Unit of the series.

**frequency** Frequency of the series.

**first\_value** Date of the first available observation.

**last\_value** Date of the last available observation.

**source** Source of the series.

**hierarchy** Integer relevance tier: 1 = core real estate credit series; 2 = primary (key macro series such as SELIC, IPCA, INCC); 3 = secondary (broader macro context); 4 = tertiary (less relevant or discontinued series).

### Source

Brazilian Central Bank (BCB)

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check\_cache\_status

*Check Cache Status*


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### Description

Display status of all locally cached datasets. Uses relaxed staleness thresholds (2x update frequency) to identify datasets that may benefit from updating.

**Usage**

```
check_cache_status(verbose = TRUE)
```

**Arguments**

verbose            Logical. Show detailed formatted output (default: TRUE)

**Value**

Tibble with cache status information (invisibly)

**Examples**

```
check_cache_status()
status <- check_cache_status(verbose = FALSE)
```

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clear_user_cache	<i>Clear User Cache</i>
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**Description**

Removes cached datasets from user directory.

**Usage**

```
clear_user_cache(dataset_names = NULL, confirm = TRUE)
```

**Arguments**

dataset\_names    Character vector. Specific datasets to remove, or NULL for all  
confirm           Logical. Require confirmation (default: TRUE)

**Value**

Logical. TRUE if successful

**Examples**

```
clear_user_cache("abecip")
```

---

dim_city	<i>Brazilian city identifier table</i>
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**Description**

A table with official IBGE identifiers for all Brazilian cities.

**Usage**

```
dim_city
```

**Format**

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 5570 rows and 9 columns.

**Details**

A tibble with 5,570 rows and 8 columns:

**code\_muni** 7-digit IBGE code identifying the city.

**name\_muni** Name of the city.

**code\_state** 2-digit IBGE code identifying the state.

**name\_state** Name of the state.

**code\_region** 1-digit IBGE code identifying the region

**name\_region** Name of the region

**name\_simplified** Simplified version of the city name for easier subsetting.

**Source**

IBGE (Brazilian Institute of Geography and Statistics)

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get_dataset	<i>Get Dataset</i>
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**Description**

Unified interface for accessing all realestatebr datasets with automatic fallback between data sources: user cache, GitHub releases, and fresh download.

**Usage**

```
get_dataset(
  name,
  table = NULL,
  source = "auto",
  date_start = NULL,
  date_end = NULL,
  max_age = NULL,
  ...
)
```

**Arguments**

name	Character. Dataset name (see <a href="#">list_datasets</a> for options).
table	Character. Specific table within a multi-table dataset. See <a href="#">get_dataset_info</a> for available tables per dataset.
source	Character. Data source preference: <b>"auto"</b> Automatic fallback: user cache, then GitHub releases, then fresh download (default). <b>"cache"</b> User cache only ('~/ .local/share/realestatebr/'). <b>"github"</b> GitHub releases (requires the <b>piggyback</b> package). <b>"fresh"</b> Fresh download from the original source; result is saved to user cache.
date_start	Date. Start date for time series filtering (where applicable).
date_end	Date. End date for time series filtering (where applicable).
max_age	Numeric. Maximum acceptable cache age in days. Cached data older than this threshold is skipped and fresh data is downloaded instead.
...	Additional arguments passed to internal dataset functions.

**Value**

A tibble or named list, depending on the dataset. Use [get\\_dataset\\_info](#) to inspect the expected structure.

**See Also**

[list\\_datasets](#) for available datasets, [get\\_dataset\\_info](#) for dataset details.

**Examples**

```
abecip_data <- get_dataset("abecip")

sbpe_data <- get_dataset("abecip", table = "sbpe")

bcb_recent <- get_dataset("bcb_series", date_start = as.Date("2020-01-01"))
```

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get_dataset_info	<i>Get Dataset Information</i>
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**Description**

Returns detailed metadata for a single dataset, including available tables and source information.

**Usage**

```
get_dataset_info(name)
```

**Arguments**

name                    Character. Dataset identifier (see [list\\_datasets](#) for options).

**Value**

A named list with the following elements:

**metadata** Title, description, geography, frequency, and coverage.

**categories** Available tables/subtables and their descriptions.

**source\_info** Source organization and URL.

**technical\_info** Cached file names and translation notes.

**Examples**

```
info <- get_dataset_info("abecip")
str(info)
```

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list_datasets	<i>List Available Datasets</i>
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**Description**

Returns a tibble describing all datasets available in the realestatebr package. Optionally filter by category, source organization, or geographic coverage.

**Usage**

```
list_datasets(category = NULL, source = NULL, geography = NULL)
```

### Arguments

category	Optional character. Keyword matched against the dataset description (e.g., "indicators", "prices", "credit").
source	Optional character. Filter by data source organization (e.g., "BCB", "FIPE", "ABRAINC").
geography	Optional character. Filter by geographic coverage (e.g., "Brazil", "São Paulo").

### Value

A tibble with one row per dataset and the following columns:

<b>name</b>	Dataset identifier used with <a href="#">get_dataset</a> .
<b>title</b>	English dataset name.
<b>title_pt</b>	Portuguese dataset name.
<b>description</b>	Brief description.
<b>source</b>	Data source organization.
<b>geography</b>	Geographic coverage.
<b>frequency</b>	Update frequency.
<b>coverage</b>	Time period covered.
<b>available_tables</b>	Comma-separated table names for multi-table datasets.

### See Also

[get\\_dataset](#) for retrieving data, [get\\_dataset\\_info](#) for detailed metadata on a single dataset.

### Examples

```
list_datasets()

list_datasets(source = "BCB")
```

---

```
update_cache_from_github
```

```
Update Cache from GitHub
```

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### Description

Updates local cache for specific datasets if GitHub has newer versions.

### Usage

```
update_cache_from_github(dataset_names = NULL, quiet = FALSE)
```

**Arguments**

dataset\_names    Character vector. Datasets to update, or NULL for all  
quiet            Logical. Suppress messages

**Value**

Named logical vector indicating success/failure for each dataset

**Examples**

```
update_cache_from_github("abecip")  
  
update_cache_from_github()
```

# Index

## \* datasets

- b3\_real\_estate, 2
- bcb\_metadata, 3
- dim\_city, 5

b3\_real\_estate, 2  
bcb\_metadata, 3

check\_cache\_status, 3  
clear\_user\_cache, 4

dim\_city, 5

get\_dataset, 3, 5, 8  
get\_dataset\_info, 6, 7, 8

list\_datasets, 6, 7, 7

update\_cache\_from\_github, 8