

# Package ‘pixr’

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**Title** Access Brazilian Central Bank 'PIX' Open Data 'API'

**Version** 0.1.0

**Description** Provides a 'tidyverse'-style interface to the Brazilian Central Bank (<<https://www.bcb.gov.br>>) 'PIX' Open Data 'API' <[https://olinda.bcb.gov.br/olinda/servico/Pix\\_DadosAbertos/versao/v1/aplicacao#!/recursos](https://olinda.bcb.gov.br/olinda/servico/Pix_DadosAbertos/versao/v1/aplicacao#!/recursos)>. Retrieve statistics on 'PIX' keys, transactions by municipality, and monthly transaction summaries. All functions return 'tibbles' and support 'OData' query parameters for filtering, selecting, and ordering data.

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---

format_brl	<i>Format Currency Value</i>
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---

### Description

Formats a numeric value as Brazilian Real (BRL) currency.

### Usage

```
format_brl(x, prefix = TRUE, decimal_mark = ",", big_mark = ".")
```

### Arguments

x	Numeric vector.
prefix	Logical; if TRUE (default), includes "R\$" prefix.
decimal_mark	Character to use as decimal separator.
big_mark	Character to use as thousands separator.

### Value

A character vector with formatted currency values.

### Examples

```
format_brl(1234567.89)
format_brl(c(1000, 2000, 3000))
```

---

get\_pix\_fraud\_stats    *Get PIX Fraud Statistics (MED)*

---

### Description

Retrieves fraud statistics for PIX transactions reported through the Special Return Mechanism (MED - Mecanismo Especial de Devolução).

### Usage

```
get_pix_fraud_stats(
  database,
  filter = NULL,
  columns = NULL,
  top = NULL,
  skip = NULL,
  orderby = NULL,
  verbose = TRUE
)
```

### Arguments

database	Character string in "YYYYMM" format specifying which month's data to retrieve. This parameter is <b>required</b> .
filter	OData filter expression as a character string.
columns	Character vector of columns to return. If NULL, returns all columns.
top	Integer; maximum number of records to return.
skip	Integer; number of records to skip (for pagination).
orderby	Character string specifying the column to sort by. Use "Column" for ascending or "Column desc" for descending order.
verbose	Logical; if TRUE (default), prints progress messages.

### Details

The MED (Mecanismo Especial de Devolução) is a mechanism created by the Brazilian Central Bank to facilitate the return of funds in cases of fraud or operational errors in PIX transactions.

This endpoint provides statistics on:

- Number of fraud reports (notificações de infração)
- Number of return requests (pedidos de devolução)
- Values involved in fraud cases

**Value**

A `tibble::tibble` with PIX fraud statistics.

**Examples**

```
## Not run: # It usually takes much longer than 5 seconds.
# Get fraud statistics for September 2025
fraud <- get_pix_fraud_stats(database = "202509")

# Get top 100 records
fraud <- get_pix_fraud_stats(database = "202509", top = 100)

## End(Not run)
```

---

`get_pix_fraud_stats_multi`*Get PIX Fraud Statistics for Multiple Months*

---

**Description**

Retrieves fraud statistics for multiple months and combines them into a single tibble.

**Usage**

```
get_pix_fraud_stats_multi(databases, ...)
```

**Arguments**

<code>databases</code>	Character vector of year-months in "YYYYMM" format.
<code>...</code>	Additional arguments passed to <code>get_pix_fraud_stats()</code> .

**Value**

A `tibble::tibble` with combined fraud statistics.

**Examples**

```
# It usually takes much longer than 5 seconds.
# Get fraud data for Q3 2025
q3_fraud <- get_pix_fraud_stats_multi(
  databases = c("202507", "202508", "202509")
)
```

---

get\_pix\_keys

*Get PIX Keys Stock by Participant*


---

### Description

Retrieves the stock of PIX keys registered in the Directory of Transactional Account Identifiers (DICT) at the end of each month, broken down by PIX participant and key type.

### Usage

```
get_pix_keys(
    date,
    filter = NULL,
    columns = NULL,
    top = NULL,
    skip = NULL,
    orderby = NULL,
    verbose = TRUE
)
```

### Arguments

date	Character string in "YYYY-MM-DD" format specifying the reference date. This parameter is <b>required</b> . The API returns data for the last day of the specified month.
filter	OData filter expression as a character string. Examples: <ul style="list-style-type: none"> <li>• "NaturezaUsuario eq 'PF'" - Filter by user type (PF or PJ)</li> <li>• "TipoChave eq 'CPF'" - Filter by key type</li> <li>• "Nome eq 'BANCO DO BRASIL S.A. '" - Filter by institution name</li> </ul>
columns	Character vector of columns to return. If NULL, returns all columns. See "Available Columns" section.
top	Integer; maximum number of records to return.
skip	Integer; number of records to skip (for pagination).
orderby	Character string specifying the column to sort by. Use "Column" for ascending or "Column desc" for descending order.
verbose	Logical; if TRUE (default), prints progress messages.

### Details

The BCB PIX API requires a date parameter specifying which date's data to retrieve. The data shows the number of PIX keys registered by each financial institution (participant).

**Note:** The API returns data for the last day of the month containing the specified date. For example, date = "2025-12-01" returns data for 2025-12-31.

**Value**

A `tibble::tibble` with PIX keys data.

**Available Columns**

**Data** Reference date (last day of month, YYYY-MM-DD format)

**ISPB** 8-digit code identifying the financial institution

**Nome** Name of the PIX participant (financial institution)

**NaturezaUsuario** User type: PF (Individual) or PJ (Legal Entity)

**TipoChave** Key type: CPF, CNPJ, Celular, e-mail, or Aleatória

**qtdChaves** Number of registered keys

**Examples**

```
# It usually takes much longer than 5 seconds.
# Get all PIX keys data for December 2025
keys <- get_pix_keys(date = "2025-12-01")

# Filter by key type and order by quantity
cpf_keys <- get_pix_keys(
  date = "2025-12-01",
  filter = "TipoChave eq 'CPF'",
  orderby = "qtdChaves desc",
  top = 100
)

# Filter by institution
bb_keys <- get_pix_keys(
  date = "2025-12-01",
  filter = "Nome eq 'BANCO DO BRASIL S.A.'"
)
```

---

get\_pix\_keys\_by\_type *Get PIX Keys by Key Type*

---

**Description**

Retrieves PIX keys data and returns a summary by key type.

**Usage**

```
get_pix_keys_by_type(date, verbose = TRUE)
```

**Arguments**

date	Character string in "YYYY-MM-DD" format specifying the reference date. This parameter is <b>required</b> . The API returns data for the last day of the specified month.
verbose	Logical; if TRUE (default), prints progress messages.

**Value**

A `tibble::tibble` with summary data by key type.

**Examples**

```
# It usually takes much longer than 5 seconds.  
# Get summary by key type  
get_pix_keys_by_type(date = "2025-12-01")
```

---

get\_pix\_keys\_summary *Get PIX Keys Summary by Institution*

---

**Description**

Retrieves PIX keys data and returns a summary showing total keys by institution, sorted by total keys.

**Usage**

```
get_pix_keys_summary(date, n_top = 20, verbose = TRUE)
```

**Arguments**

date	Character string in "YYYY-MM-DD" format specifying the reference date. This parameter is <b>required</b> . The API returns data for the last day of the specified month.
n_top	Integer; number of top institutions to return. Default is 20.
verbose	Logical; if TRUE (default), prints progress messages.

**Value**

A `tibble::tibble` with summary data by institution.

**Examples**

```
# It usually takes much longer than 5 seconds.
# Get top 20 institutions by total keys
get_pix_keys_summary(date = "2025-12-01")

# Get top 10 institutions
get_pix_keys_summary(date = "2025-12-01", n_top = 10)
```

---

get_pix_summary	<i>Get PIX Transaction Summary</i>
-----------------	------------------------------------

---

**Description**

Retrieves transaction statistics and aggregates them by specified grouping variables. This is a convenience function that fetches data and performs common aggregations.

**Usage**

```
get_pix_summary(database, group_by = "NATUREZA", verbose = TRUE)
```

**Arguments**

database	Character string in "YYYYMM" format specifying which month's data to retrieve. This parameter is <b>required</b> .
group_by	Character vector of columns to group by. Common choices: "NATUREZA", "PAG_REGIAO", "REC_REGIAO", "FORMAINICIACAO".
verbose	Logical; if TRUE (default), prints progress messages.

**Value**

A [tibble::tibble](#) with aggregated transaction statistics.

**Examples**

```
# It usually takes much longer than 5 seconds.
# Summary by transaction nature
get_pix_summary(database = "202509", group_by = "NATUREZA")

# Summary by payer region
get_pix_summary(database = "202509", group_by = "PAG_REGIAO")

# Summary by nature and initiation method
get_pix_summary(database = "202509", group_by = c("NATUREZA", "FORMAINICIACAO"))
```

---

```
get_pix_transactions_by_municipality
```

*Get PIX Transactions by Municipality*

---

## Description

Retrieves PIX transaction statistics aggregated by municipality, showing the number and value of transactions from the perspective of both payers and receivers.

## Usage

```
get_pix_transactions_by_municipality(  
  database,  
  filter = NULL,  
  columns = NULL,  
  top = NULL,  
  skip = NULL,  
  orderby = NULL,  
  verbose = TRUE  
)
```

## Arguments

database	Character string in "YYYYMM" format specifying which month's data to retrieve. This parameter is <b>required</b> .
filter	OData filter expression as a character string. Examples: <ul style="list-style-type: none"><li>• "Estado eq 'SÃO PAULO'" - Filter by state name</li><li>• "Sigla_Regiao eq 'SE'" - Filter by region</li><li>• "Município eq 'RECIFE'" - Filter by municipality name</li></ul>
columns	Character vector of columns to return. If NULL, returns all columns. See "Available Columns" section.
top	Integer; maximum number of records to return.
skip	Integer; number of records to skip (for pagination).
orderby	Character string specifying the column to sort by. Use "Column" for ascending or "Column desc" for descending order.
verbose	Logical; if TRUE (default), prints progress messages.

## Details

The BCB PIX API requires a database parameter (YYYYMM format) specifying which month's data to retrieve. The data is broken down by municipality, person type (PF/PJ), and transaction direction (payer/receiver).

## Value

A `tibble::tibble` with PIX transaction data by municipality.

**Available Columns**

**AnoMes** Reference year-month in YYYYMM format  
**Municipio\_Ibge** IBGE municipality code  
**Municipio** Municipality name  
**Estado\_Ibge** IBGE state code  
**Estado** State name  
**Sigla\_Regiao** Region abbreviation (NE, SE, S, CO, N)  
**Regiao** Region name (NORDESTE, SUDESTE, SUL, CENTRO-OESTE, NORTE)  
**VL\_PagadorPF** Total value paid by individuals (BRL)  
**QT\_PagadorPF** Number of transactions where individuals were payers  
**VL\_PagadorPJ** Total value paid by legal entities (BRL)  
**QT\_PagadorPJ** Number of transactions where legal entities were payers  
**VL\_RecebedorPF** Total value received by individuals (BRL)  
**QT\_RecebedorPF** Number of transactions where individuals were receivers  
**VL\_RecebedorPJ** Total value received by legal entities (BRL)  
**QT\_RecebedorPJ** Number of transactions where legal entities were receivers  
**QT\_PES\_PagadorPF** Number of distinct individual payers  
**QT\_PES\_PagadorPJ** Number of distinct legal entity payers  
**QT\_PES\_RecebedorPF** Number of distinct individual receivers  
**QT\_PES\_RecebedorPJ** Number of distinct legal entity receivers

**Examples**

```
# It usually takes much longer than 5 seconds.
# Get municipality transaction data for December 2025
muni <- get_pix_transactions_by_municipality(database = "202512")

# Filter by state
maranhao <- get_pix_transactions_by_municipality(
  database = "202512",
  filter = "Estado eq 'MARANHÃO'",
  orderby = "Municipio desc",
  top = 10
)

# Filter by region
nordeste <- get_pix_transactions_by_municipality(
  database = "202512",
  filter = "Sigla_Regiao eq 'NE'"
)

# Order by value
top_value <- get_pix_transactions_by_municipality(
  database = "202512",
```

```
  orderby = "VL_PagadorPF desc",
  top = 100
)
```

---

```
get_pix_transactions_by_region
  Get PIX Transactions by Region
```

---

### Description

A convenience wrapper that aggregates municipality data at the region level.

### Usage

```
get_pix_transactions_by_region(database, verbose = TRUE)
```

### Arguments

database	Character string in "YYYYMM" format specifying which month's data to retrieve. This parameter is <b>required</b> .
verbose	Logical; if TRUE (default), prints progress messages.

### Value

A `tibble::tibble` with PIX transaction data aggregated by region.

### Examples

```
# It usually takes much longer than 5 seconds.
# Get region-level aggregates
regions <- get_pix_transactions_by_region(database = "202512")
```

---

```
get_pix_transactions_by_state
  Get PIX Transactions by State
```

---

### Description

A convenience wrapper around `get_pix_transactions_by_municipality()` that aggregates data at the state level.

### Usage

```
get_pix_transactions_by_state(database, verbose = TRUE)
```

**Arguments**

database	Character string in "YYYYMM" format specifying which month's data to retrieve. This parameter is <b>required</b> .
verbose	Logical; if TRUE (default), prints progress messages.

**Value**

A `tibble::tibble` with PIX transaction data aggregated by state.

**Examples**

```
# It usually takes much longer than 5 seconds.
# Get state-level aggregates for December 2025
states <- get_pix_transactions_by_state(database = "202512")
```

---

```
get_pix_transaction_stats
  Get PIX Transaction Statistics
```

---

**Description**

Retrieves detailed statistics on PIX transactions settled through the Instant Payment System (SPI), with breakdowns by payer/receiver type, region, age group, initiation method, and transaction nature.

**Usage**

```
get_pix_transaction_stats(
  database,
  filter = NULL,
  columns = NULL,
  top = NULL,
  skip = NULL,
  orderby = NULL,
  verbose = TRUE
)
```

**Arguments**

database	Character string in "YYYYMM" format specifying which month's data to retrieve. This parameter is <b>required</b> .
filter	<p>OData filter expression as a character string. Examples:</p> <ul style="list-style-type: none"> <li>"NATUREZA eq 'P2P' " - Filter by transaction nature</li> <li>"PAG_REGIAO eq 'SUDESTE' " - Filter by payer region</li> <li>"FORMAINICIACAO eq 'DICT' " - Filter by initiation method</li> </ul>

columns	Character vector of columns to return. If NULL, returns all columns. See "Available Columns" section.
top	Integer; maximum number of records to return.
skip	Integer; number of records to skip (for pagination).
orderby	Character string specifying the column to sort by. Use "Column" for ascending or "Column desc" for descending order.
verbose	Logical; if TRUE (default), prints progress messages.

### Details

The BCB PIX API requires a database parameter specifying which month's data to retrieve. The data provides granular breakdowns of PIX transactions.

#### Transaction Nature Codes:

- **P2P**: Person to Person
- **P2B**: Person to Business
- **B2P**: Business to Person
- **B2B**: Business to Business
- **P2G**: Person to Government
- **G2P**: Government to Person

#### Initiation Methods:

- **DICT**: PIX Key lookup
- **QRDN**: Dynamic QR Code
- **QRES**: Static QR Code
- **MANU**: Manual entry (bank details)
- **INIC**: Payment Initiator

### Value

A `tibble::tibble` with PIX transaction statistics.

### Available Columns

**AnoMes** Reference year-month as integer (YYYYMM format)

**PAG\_PFPJ** Payer type: PF (Individual) or PJ (Legal Entity)

**REC\_PFPJ** Receiver type: PF (Individual) or PJ (Legal Entity)

**PAG\_REGIAO** Payer region (NORTE, NORDESTE, SUDESTE, SUL, CENTRO-OESTE)

**REC\_REGIAO** Receiver region

**PAG\_IDADE** Payer age group

**REC\_IDADE** Receiver age group

**FORMAINICIACAO** Initiation method (DICT, QRDN, QRES, MANU, INIC)

**NATUREZA** Transaction nature (P2P, P2B, B2P, B2B, P2G, G2P)

**FINALIDADE** Transaction purpose (Pix, Pix Saque, Pix Troco, etc.)

**VALOR** Total transaction value (in BRL)

**QUANTIDADE** Number of transactions

## Examples

```
# It usually takes much longer than 5 seconds.
# Get transaction statistics for September 2025
stats <- get_pix_transaction_stats(database = "202509")

# Filter by transaction nature
p2p <- get_pix_transaction_stats(
  database = "202509",
  filter = "NATUREZA eq 'P2P'"
)

# Filter by region and order by value
sudeste <- get_pix_transaction_stats(
  database = "202509",
  filter = "PAG_REGIAO eq 'SUDESTE'",
  orderby = "VALOR desc",
  top = 100
)

# Multiple filters (use 'and')
filtered <- get_pix_transaction_stats(
  database = "202509",
  filter = "NATUREZA eq 'P2P' and PAG_REGIAO eq 'NORDESTE'"
)
```

---

get\_pix\_transaction\_stats\_multi

*Get PIX Transaction Statistics for Multiple Months*

---

## Description

Retrieves transaction statistics for multiple months and combines them into a single tibble.

## Usage

```
get_pix_transaction_stats_multi(databases, ...)
```

## Arguments

**databases**      Character vector of year-months in "YYYYMM" format.  
**...**            Additional arguments passed to `get_pix_transaction_stats()`.

## Value

A `tibble::tibble` with combined transaction statistics.

**Examples**

```
# It usually takes much longer than 5 seconds.  
# Get data for Q3 2025  
q3_data <- get_pix_transaction_stats_multi(  
  databases = c("202507", "202508", "202509")  
)
```

---

pix\_columns

*Get Column Information for a PIX Endpoint*

---

**Description**

Returns detailed information about the columns available for a specific endpoint.

**Usage**

```
pix_columns(endpoint = c("keys", "municipality", "stats", "fraud"))
```

**Arguments**

endpoint      Character string specifying the endpoint. One of: "keys", "municipality", "stats", or "fraud".

**Value**

A `tibble::tibble` with column names, types, and descriptions.

**Examples**

```
pix_columns("keys")  
pix_columns("municipality")  
pix_columns("stats")  
pix_columns("fraud")
```

---

pix\_endpoints

*Get Available PIX API Endpoints*

---

**Description**

Returns information about all available endpoints in the BCB PIX Open Data API.

**Usage**

```
pix_endpoints()
```

**Value**

A `tibble::tibble` with endpoint names, descriptions, parameters, and associated functions.

**Examples**

```
pix_endpoints()
```

---

pix_ping	<i>Check API Connection</i>
----------	-----------------------------

---

**Description**

Tests the connection to all BCB PIX Open Data API endpoints. Each endpoint is tested with a single record request (top=1).

**Usage**

```
pix_ping()
```

**Value**

A tibble (invisibly) with columns:

**endpoint** Name of the endpoint tested

**status** Result: "OK" or error message

**time\_seconds** Time taken for the request in seconds

**Examples**

```
## Not run: # It usually takes much longer than 5 seconds.  
# Test all endpoints  
pix_ping()  
  
# Capture results  
results <- pix_ping()  
print(results)  
  
## End(Not run)
```

---

pix\_query

*Get Raw Data from PIX API*


---

## Description

Low-level function to fetch data from any PIX API endpoint with custom parameters.

## Usage

```
pix_query(
  endpoint,
  params = NULL,
  filter = NULL,
  select = NULL,
  orderby = NULL,
  top = NULL,
  skip = NULL,
  format = "json",
  verbose = TRUE
)
```

## Arguments

endpoint	Character string specifying the endpoint name.
params	Named list of endpoint parameters. Each endpoint requires different parameters: <ul style="list-style-type: none"> <li>• ChavesPix: <code>list(Data = "YYYY-MM-DD")</code></li> <li>• TransacoesPixPorMunicipio: <code>list(DataBase = "YYYYMM")</code></li> <li>• EstatisticasTransacoesPix: <code>list(Database = "YYYYMM")</code></li> <li>• EstatisticasFraudesPix: <code>list(Database = "YYYYMM")</code></li> </ul>
filter	OData filter expression as a character string.
select	Character vector of columns to select.
orderby	OData orderby expression as a character string.
top	Integer; maximum number of records to return.
skip	Integer; number of records to skip.
format	Response format: "json" (default), "xml", "csv", or "html".
verbose	Logical; if TRUE, prints progress messages.

## Value

A `tibble::tibble` with the raw API response data.

### Examples

```
## Not run: # It usually takes much longer than 5 seconds.
# Custom query for keys
pix_query(
  endpoint = "ChavesPix",
  params = list(Data = "2025-12-01"),
  top = 10
)

# Custom query for transaction stats
pix_query(
  endpoint = "EstatisticasTransacoesPix",
  params = list(Database = "202509"),
  top = 10
)

## End(Not run)
```

---

pix\_timeout

*Get or Set API Request Timeout*

---

### Description

Get or set the timeout for API requests. The default timeout is 120 seconds. The BCB API can be slow for large queries, so a generous timeout is recommended.

### Usage

```
pix_timeout(seconds = NULL)
```

### Arguments

seconds            Integer; timeout in seconds. If NULL, returns the current timeout.

### Value

- `pix_timeout()`: Returns the current timeout in seconds (invisibly when setting).
- When called with `seconds`, sets the timeout and returns the new value invisibly.

### Examples

```
# Get current timeout
pix_timeout()

# Set timeout to 180 seconds (3 minutes)
pix_timeout(180)

# Set timeout to 60 seconds
pix_timeout(60)
```

```
# Reset to default (120 seconds)
pix_timeout(120)
```

---

pix\_url *Build PIX API URL (for debugging)*

---

### Description

Builds and returns the URL that would be called by a PIX API function. Useful for debugging and testing.

### Usage

```
pix_url(
  endpoint,
  params = NULL,
  filter = NULL,
  select = NULL,
  orderby = NULL,
  top = NULL,
  skip = NULL,
  format = "json"
)
```

### Arguments

endpoint	Character string specifying the endpoint name.
params	Named list of endpoint parameters. Each endpoint requires different parameters: <ul style="list-style-type: none"> <li>• ChavesPix: <code>list(Data = "YYYY-MM-DD")</code></li> <li>• TransacoesPixPorMunicipio: <code>list(DataBase = "YYYYMM")</code></li> <li>• EstatisticasTransacoesPix: <code>list(Database = "YYYYMM")</code></li> <li>• EstatisticasFraudesPix: <code>list(Database = "YYYYMM")</code></li> </ul>
filter	OData filter expression as a character string.
select	Character vector of columns to select.
orderby	OData orderby expression (e.g., "Column asc" or "Column desc").
top	Integer; maximum number of records to return.
skip	Integer; number of records to skip.
format	Response format: "json" (default), "xml", "csv", or "html".

### Value

Character string with the full API URL.

**Examples**

```
# See what URL would be called for each endpoint
pix_url("ChavesPix", params = list(Data = "2025-12-01"), top = 10)
pix_url("EstatisticasTransacoesPix", params = list(Database = "202509"), top = 10)
pix_url("TransacoesPixPorMunicipio", params = list(DataBase = "202512"), top = 10)
```

---

year\_month\_to\_date      *Convert Year-Month String to Date*

---

**Description**

Converts a year-month string in "YYYYMM" format to a Date object (first day of the month).

**Usage**

```
year_month_to_date(year_month)
```

**Arguments**

year\_month      Character vector of year-month strings in "YYYYMM" format.

**Value**

A Date vector.

**Examples**

```
year_month_to_date("202312")
year_month_to_date(c("202301", "202302", "202303"))
```

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