

# Package ‘bbk’

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**Title** Client for the Bundesbank API

**Version** 0.2.0

**Description** Download data and metadata from the 'Bundesbank SDMX Web Service API' found at  
<<https://www.bundesbank.de/en/statistics/time-series-databases/help-for-sdmx-web-service/web-service-interface-data>>.

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**URL** <https://m-muecke.github.io/bbk/>, <https://github.com/m-muecke/bbk>

**BugReports** <https://github.com/m-muecke/bbk/issues>

**Depends** R (>= 4.1.0)

**Imports** htr2, stats, utils, xml2

**Suggests** ggplot2, scales, testthat (>= 3.0.0), tibble

**Config/testthat/edition** 3

**Encoding** UTF-8

**RoxygenNote** 7.3.1

**NeedsCompilation** no

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**Repository** CRAN

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bb_data	<i>Returns data for a given flow and key</i>
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### Description

Returns data for a given flow and key

### Usage

```
bb_data(
  flow,
  key,
  start_period = NULL,
  end_period = NULL,
  first_n = NULL,
  last_n = NULL
)
```

### Arguments

flow	character(1) flow to query, 5-8 characters. See <a href="#">bb_metadata()</a> for available dataflows.
key	character(1) key to query.
start_period	character(1) start date of the data. Supported formats: <ul style="list-style-type: none"> <li>• YYYY for annual data (e.g., "2019")</li> <li>• YYYY-S[1-2] for semi-annual data (e.g., "2019-S1")</li> <li>• YYYY-Q[1-4] for quarterly data (e.g., "2019-Q1")</li> <li>• YYYY-MM for monthly data (e.g., "2019-01")</li> <li>• YYYY-W[01-53] for weekly data (e.g., "2019-W01")</li> <li>• YYYY-MM-DD for daily and business data (e.g., "2019-01-01") If NULL, no start date restriction is applied (data retrieved from the earliest available date). Default NULL.</li> </ul>
end_period	character(1) end date of the data, in the same format as start_period. If NULL, no end date restriction is applied (data retrieved up to the most recent available date). Default NULL.
first_n	numeric(1) number of observations to retrieve from the start of the series. If NULL, no restriction is applied. Default NULL.
last_n	numeric(1) number of observations to retrieve from the end of the series. If NULL, no restriction is applied. Default NULL.

### Value

A `data.frame()` with the requested data. The columns are:

date	The date of the observation
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value	The value of the observation
key	The time series key
title	The title of the dataflow
frequency	The frequency of the observation
category	The category of the observation
unit	The unit of the observation
unit_multiplier	The unit multiplier of the observation

## References

<https://www.bundesbank.de/en/statistics/time-series-databases/help-for-sdmx-web-service/web-service-interface-data>

## See Also

Other data: [bb\\_series\(\)](#)

## Examples

```
# fetch all data for a given flow and key
bb_data("BBSIS", "D.I.ZAR.ZI.EUR.S1311.B.A604.R10XX.R.A.A._Z._Z.A")

# specified period (start date-end date) for daily data
bb_data(
  "BBSIS", "D.I.ZAR.ZI.EUR.S1311.B.A604.R10XX.R.A.A._Z._Z.A",
  start_period = "2020-01-01",
  end_period = "2020-08-01"
)
# or only specify the start date
bb_data(
  "BBSIS", "D.I.ZAR.ZI.EUR.S1311.B.A604.R10XX.R.A.A._Z._Z.A",
  start_period = "2020-01-01"
)
```

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bb\_metadata

*Returns the available metadata*

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## Description

Retrieval of the metadata stored in the Bundesbank's time series database. Access via the SDMX Web Service API of the Bundesbank.

## Usage

```
bb_metadata(type, id = NULL, lang = c("en", "de"))
```

**Arguments**

type	character(1) the type of metadata to query. One of: "datastructure", "dataflow", "codelist", or "concept".
id	character(1) id to query. Default NULL.
lang	character(1) language to query, either "en" or "de". Default "en".

**Value**

A `data.frame()` with the queried metadata. The columns are:

id	The id of the metadata
name	The name of the metadata

**References**

<https://www.bundesbank.de/en/statistics/time-series-databases/help-for-sdmx-web-service/web-service-interface-metadata>

**Examples**

```
bb_metadata("datastructure")
bb_metadata("dataflow", "BBSIS")
bb_metadata("codelist", "CL_BBK_ACIP_ASSET_LIABILITY")
bb_metadata("concept", "CS_BBK_BSPL")
```

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**bb\_series**

*Returns the time serie that is found with the specified time series key*

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**Description**

Returns the time serie that is found with the specified time series key

**Usage**

```
bb_series(key)
```

**Arguments**

key	character(1) key to query.
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**Value**

A `data.frame()` with the requested data. The columns are:

<code>date</code>	The date of the observation
<code>value</code>	The value of the observation
<code>key</code>	The time series key
<code>title</code>	The title of the dataflow
<code>frequency</code>	The frequency of the observation
<code>category</code>	The category of the observation
<code>unit</code>	The unit of the observation
<code>unit_multiplier</code>	The unit multiplier of the observation
<code>last_update</code>	The last update date
<code>source</code>	The source of the data
<code>comment</code>	A comment on the data

**References**

<https://www.bundesbank.de/en/statistics/time-series-databases/help-for-sdmx-web-service/web-service-interface-data>

**See Also**

Other data: [bb\\_data\(\)](#)

**Examples**

```
bb_series("BBEX3.M.DKK.EUR.BB.AC.A01")
bb_series("BBAF3.Q.F41.S121.DE.S1.W0.LE.N._X.B")
bb_series("BBBK11.D.TTA000")
```

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