

Package ‘fredr’

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Title An R Client for the 'FRED' API

Version 2.1.0

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Description An R client for the 'Federal Reserve Economic Data' ('FRED') API <<https://research.stlouisfed.org/docs/api/>>. Functions to retrieve economic time series and other data from 'FRED'.

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URL <https://github.com/sboysel/fredr>

BugReports <https://github.com/sboysel/fredr/issues>

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Suggests covr, dplyr, ggplot2, knitr, purrr, rmarkdown, testthat, xts, zoo

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fredr-key

FRED API key

Description

Users of fredr must authenticate with the FRED API by use of an API key. This key should be stored as an environment variable, FRED_API_KEY.

- fredr_get_key() will retrieve the key, if set, or it will return NULL if the key is unset.
- fredr_set_key() will set the key *for the current R session*. For persistence across sessions, set the environment variable. See the Details section for more information.
- fredr_has_key() returns TRUE if a key can be found. Otherwise it returns FALSE.

Usage

```
fredr_set_key(key)
```

```
fredr_get_key()
```

```
fredr_has_key()
```

Arguments

key A valid FRED API key as a string. Obtain one at the [API Keys](#) page. Can also be NULL to unset the key for the current R session.

Details

The preferred method to set the key is to set the FRED_API_KEY environment variable in an `.Renv` file. The easiest way to do this is by calling `usethis::edit_r_environ()`. Don't forget to restart R after setting the key.

References

See St. Louis Fed Web Services [API Keys](#) to obtain an API key.

See Also

Note that by using a FRED API key, you agree to the FRED API [Terms of Use](#).

Examples

```
original_key <- fredr_get_key()

# Set a once per session key
fredr_set_key("foo")

# Get it
fredr_get_key()

# Reset to original key
fredr_set_key(original_key)
```

| | |
|----------------|----------------------------|
| fredr_category | <i>Get a FRED category</i> |
|----------------|----------------------------|

Description

Get a FRED category

Usage

```
fredr_category(category_id)
```

Arguments

`category_id` An integer ID for the category.

Value

A tibble object containing the name and parent ID for the category indicated by `category_id`.

API Documentation

[fred/category](#)

See Also

[fredr_category_children\(\)](#), [fredr_category_related\(\)](#), [fredr_category_series\(\)](#), [fredr_category_tags\(\)](#), [fredr_category_related_tags\(\)](#)

Examples

```
if (fredr_has_key()) {  
  # Root category  
  fredr_category(category_id = 0L)  
  # "Production & Business Activity" category  
  fredr_category(category_id = 1L)  
}
```

`fredr_category_children`

Get the child categories for a specified FRED parent category

Description

Get the child categories for a specified FRED parent category

Usage

```
fredr_category_children(  
  category_id,  
  ...,  
  realtime_start = NULL,  
  realtime_end = NULL  
)
```

Arguments

| | |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| category_id | An integer ID for the category. |
| ... | These dots only exist for future extensions and should be empty. |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble object containing the name and ID for the children categories of the parent category indicated by category_id.

API Documentation

[fred/category/children](#)

See Also

[fredr_category\(\)](#), [fredr_category_related\(\)](#), [fredr_category_series\(\)](#), [fredr_category_tags\(\)](#), [fredr_category_related_tags\(\)](#)

Examples

```
if (fredr_has_key()) {  
  # Children of the root category  
  fredr_category_children(category_id = 0L)  
  # Children of the "Production & Business Activity" category  
  fredr_category_children(category_id = 1L)  
}
```

fredr_category_related

Get the related categories for a FRED category.

Description

Get the related categories for a FRED category.

Usage

```
fredr_category_related(  
  category_id,  
  ...,  
  realtime_start = NULL,  
  realtime_end = NULL  
)
```

Arguments

| | |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| category_id | An integer ID for the category. Default is 0 for the root category. <i>Required parameter.</i> |
| ... | These dots only exist for future extensions and should be empty. |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Details

From the [FRED API documentation](#): "A related category is a one-way relation between 2 categories that is not part of a parent-child category hierarchy. Most categories do not have related categories."

Value

A tibble object containing the name and parent ID for categories related to the category indicated by category_id.

API Documentation

[fred/category/related](#)

See Also

[fredr_category\(\)](#), [fredr_category_children\(\)](#), [fredr_category_series\(\)](#), [fredr_category_tags\(\)](#), [fredr_category_related_tags\(\)](#)

Examples

```
if (fredr_has_key()) {
  # Categories related to the "Employment Cost Index" category
  fredr_category_related(category_id = 4L)
}
```

```
fredr_category_related_tags
```

Get the related FRED tags within a category

Description

Get the related FRED tags for one or more FRED tags within a category. Optionally, filter results by tag group or search. FRED tags are attributes assigned to series. Related FRED tags are the tags assigned to series that match *all* tags in the *tag_names* parameter, *no* tags in the *exclude_tag_names* parameter, and the category set by the *category_id* parameter. Series are assigned tags and categories. Indirectly through series, it is possible to get the tags for a category. No tags exist for a category that does not have series.

Usage

```
fredr_category_related_tags(
  category_id,
  tag_names,
  ...,
  exclude_tag_names = NULL,
  tag_group_id = NULL,
  search_text = NULL,
  limit = NULL,
  offset = NULL,
  order_by = NULL,
  sort_order = NULL,
  realtime_start = NULL,
  realtime_end = NULL
)
```

Arguments

| | |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| category_id | An integer ID for the category. |
| tag_names | A string indicating which series tags to match. Multiple tags can be delimited by a semicolon in a single string (e.g. "usa;gnp"). |
| ... | These dots only exist for future extensions and should be empty. |
| exclude_tag_names | A string indicating which series tags should <i>not</i> be matched. Multiple tags can be delimited by a semicolon in a single string (e.g. "usa;gnp"). |
| tag_group_id | A string representing the tag group id to filter tags by type. No filtering by default. Possible values include: <ul style="list-style-type: none"> • "freq" - Frequency • "gen" - General or Concept • "geo" - Geography • "geot" - Geography Type • "rls" - Release • "seas" - Seasonal Adjustment • "src" - Source |
| search_text | A string to match text of tags. No matching by default. |
| limit | An positive integer indicating maximum number of results to return. Possible values are any integer between 1 and 1000 (default), inclusive. |
| offset | An non-negative integer used in conjunction with <code>limit</code> for long series. This mimics the idea of <i>pagination</i> to retrieve large amounts of data over multiple calls. Defaults to 0. |
| order_by | Order results by values of the specified attribute. Possible values include: "series_count" (default), "popularity"`, "created", "name", "group_id"`. |
| sort_order | A string representing the order of the resulting series. Possible values are: "asc" (default), and "desc". |

- `realtime_start` A Date indicating the start of the real-time period. Defaults to today's date. For more information, see [Real-Time Periods](#).
- `realtime_end` A Date indicating the end of the real-time period. Defaults to today's date. For more information, see [Real-Time Periods](#).

Value

A tibble object information on related tags matching the request. Data include tag name, group ID, popularity, series count, tag creation date, and additional notes.

API Documentation

[fred/category/related_tags](#)

See Also

[fredr_category\(\)](#), [fredr_category_children\(\)](#), [fredr_category_related\(\)](#), [fredr_category_series\(\)](#), [fredr_category_tags\(\)](#)

Examples

```
if (fredr_has_key()) {  
  # First, get the tags for the "Production & Business Activity" category  
  fredr_category_tags(1L)  
  # Then, get the tags related to "business" and "monthly" for the  
  # "Production & Business Activity" category  
  fredr_category_related_tags(category_id = 1L, tag_names = "business;monthly")  
}
```

`fredr_category_series` *Get the series in a category*

Description

Get the series in a category

Usage

```
fredr_category_series(  
  category_id,  
  ...,  
  filter_variable = NULL,  
  filter_value = NULL,  
  tag_names = NULL,  
  exclude_tag_names = NULL,  
  limit = NULL,  
  offset = NULL,  
  order_by = NULL,
```



```

    sort_order = NULL,
    realtime_start = NULL,
    realtime_end = NULL
)

```

Arguments

| | |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| category_id | An integer ID for the category. |
| ... | These dots only exist for future extensions and should be empty. |
| filter_variable | A string indicating which attribute to indicate the attribute that results are filtered by. Possible values include: "frequency", "units", "seasonal_adjustment". No filtering by default. |
| filter_value | A string giving the value of the filter_variable attribute to filter results by. filter_variable must be set. No filtering by default. |
| tag_names | A string indicating which series tags to match. Multiple tags can be delimited by a semicolon in a single string (e.g. "usa;gnp"). |
| exclude_tag_names | A string indicating which series tags should <i>not</i> be matched. Multiple tags can be delimited by a semicolon in a single string (e.g. "usa;gnp"). |
| limit | An positive integer indicating maximum number of results to return. Possible values are any integer between 1 and 1000 (default), inclusive. |
| offset | An non-negative integer used in conjunction with limit for long series. This mimics the idea of <i>pagination</i> to retrieve large amounts of data over multiple calls. Defaults to 0. |
| order_by | A string indicating an attribute by which the results are ordered by. Possible values include: <ul style="list-style-type: none"> • "series_id" (default) • "title" • "units" • "frequency" • "seasonal_adjustment" • "realtime_start" • "realtime_end" • "last_updated" • "observation_start" • "observation_end" • "popularity" • "group_popularity" |
| sort_order | A string representing the order of the resulting series. Possible values are: "asc" (default), and "desc". |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble object with information for series matching the request for the category specified in `category_id`.

API Documentation

[fred/category/series](#)

See Also

[fredr_category\(\)](#), [fredr_category_children\(\)](#), [fredr_category_related\(\)](#), [fredr_category_tags\(\)](#), [fredr_category_related_tags\(\)](#)

Examples

```
if (fredr_has_key()) {  
  # Top 10 most popular series belonging to the "Employment Cost Index" category  
  fredr_category_series(category_id = 1L, limit = 10L, order_by = "popularity")  
  # Series in the "Employment Cost Index" category, ordered by descending observation frequency  
  fredr_category_series(category_id = 4L, order_by = "frequency", sort_order = "desc")  
}
```

fredr_category_tags *Get the FRED tags for a category*

Description

Get the FRED tags for a category. Optionally, filter results by tag name, tag group, or search. Series are assigned tags and categories. Alternatively, it is possible to get the tags for a category through a call to a function in the `fredr/series` endpoint. See [fredr_series](#). No tags exist for a category that does not have series.

Usage

```
fredr_category_tags(  
  category_id,  
  ...,  
  tag_names = NULL,  
  tag_group_id = NULL,  
  search_text = NULL,  
  limit = NULL,  
  offset = NULL,  
  order_by = NULL,  
  sort_order = NULL,  
  realtime_start = NULL,  
  realtime_end = NULL  
)
```

Arguments

| | |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| category_id | An integer ID for the category. |
| ... | These dots only exist for future extensions and should be empty. |
| tag_names | A string indicating which series tags to match. Multiple tags can be delimited by a semicolon in a single string (e.g. "usa;gnp"). |
| tag_group_id | A string representing the tag group id to filter tags by type. No filtering by default. Possible values include: <ul style="list-style-type: none"> • "freq" - Frequency • "gen" - General or Concept • "geo" - Geography • "geot" - Geography Type • "rls" - Release • "seas" - Seasonal Adjustment • "src" - Source |
| search_text | A string to match text of tags. No matching by default. |
| limit | An positive integer indicating maximum number of results to return. Possible values are any integer between 1 and 1000 (default), inclusive. |
| offset | An non-negative integer used in conjunction with <code>limit</code> for long series. This mimics the idea of <i>pagination</i> to retrieve large amounts of data over multiple calls. Defaults to 0. |
| order_by | Order results by values of the specified attribute. Possible values include: "series_count" (default), "popularity"`, "created", "name", "group_id"`. |
| sort_order | A string representing the order of the resulting series. Possible values are: "asc" (default), and "desc". |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble object information on tags matching the request and their descriptions. Data include tag name, group ID, popularity, series count, tag creation date, and additional notes.

API Documentation

[fred/category/tags](#)

See Also

[fredr_category\(\)](#), [fredr_category_children\(\)](#), [fredr_category_related\(\)](#), [fredr_category_series\(\)](#), [fredr_category_related_tags\(\)](#)

Examples

```
if (fredr_has_key()) {
  # Tags assigned to series in the "Production & Business Activity" category
  fredr_category_tags(category = 1L)
  # Select the "nation" and "monthly" tags in the "Production & Business Activity" category
  fredr_category_tags(category = 3L, tag_names = "nation;monthly", order_by = "popularity")
}
```

fredr_docs

Open the web documentation for a certain FRED API topic.

Description

Opens FRED API web documentation in a new web browser tab.

Usage

```
fredr_docs()
```

API Documentation

FRED API

Examples

```
if (interactive()) {
  fredr_docs()
}
```

fredr_endpoints

List of available FRED API endpoints.

Description

List of available FRED API endpoints.

Usage

```
fredr_endpoints
```

Format

A tibble with 31 rows and 3 variables:

endpoint endpoint name (e.g. "fred/category", "fredr/series/observations", "fredr/tags"). This name can be supplied to the endpoint parameter in `fredr_docs()` to open the **FRED API endpoint documentation** in a web browser.

type endpoint type (e.g. "Categories", "Releases", "Series", "Sources", and "Tags".)

note endpoint details

API Documentation**FRED API****See Also**

[fredr_request\(\)](#), [fredr_docs\(\)](#)

fredr_related_tags *Get related FRED tags given one or more tags*

Description

Get related FRED tags. Optionally, filter results by tag group, or search text. Related FRED tags are the tags assigned to series that match *all* tags in the tag_names parameter and *no* tags in the exclude_tag_names parameter.

Usage

```
fredr_related_tags(
    tag_names,
    ...,
    exclude_tag_names = NULL,
    tag_group_id = NULL,
    search_text = NULL,
    limit = NULL,
    offset = NULL,
    order_by = NULL,
    sort_order = NULL,
    realtime_start = NULL,
    realtime_end = NULL
)
```

Arguments

| | |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| tag_names | A semicolon delimited string of tag names to be related to. |
| ... | These dots only exist for future extensions and should be empty. |
| exclude_tag_names | A semicolon delimited string of tag names that series match <i>none</i> of. No exclusions are done by default. |
| tag_group_id | A string tag group id to filter tags by type. No filtering by tag group by default. Possible values are: <ul style="list-style-type: none"> • "freq" = Frequency • "gen" = General or Concept • "geo" = Geography • "geot" = Geography Type |

| | |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <ul style="list-style-type: none"> • "rls" = Release • "seas" = Seasonal Adjustment • "src" = Source |
| search_text | A string indicating the words to find matching tags with. No filtering by search words by default. |
| limit | An integer limit on the maximum number of results to return. Defaults to 1000, the maximum. |
| offset | An integer used in conjunction with <code>limit</code> for long series. This mimics the idea of <i>pagination</i> to retrieve large amounts of data over multiple calls. Defaults to 0. |
| order_by | Order results by values of the specified attribute. Possible values are: <ul style="list-style-type: none"> • "series_count" (default) • "popularity" • "created" • "name" • "group_id" |
| sort_order | A string representing the order of the resulting series, sorted by the attribute values specified by <code>order_by</code> . Possible values are: "asc" (default), and "desc". |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble containing tags related to `tag_names` and their descriptions. Data include tag name, group ID, popularity, series count, tag creation date, and additional notes.

API Documentation

[fred/related_tags](#)

See Also

[fredr_category_tags\(\)](#), [fredr_category_related_tags\(\)](#), [fredr_docs\(\)](#), [fredr_release_tags\(\)](#), [fredr_release_related_tags\(\)](#), [fredr_series_search_tags\(\)](#), [fredr_series_search_related_tags\(\)](#), [fredr_tags_series\(\)](#), [fredr_tags\(\)](#)

Examples

```
if (fredr_has_key()) {
  fredr_related_tags(tag_names = "monetary aggregates;weekly")

  fredr_related_tags(
    tag_names = "monetary aggregates;weekly",
```

```

    tag_group_id = "gen"
  )
}

```

fredr_release *Get a release of economic data*

Description

Get a release of economic data

Usage

```
fredr_release(release_id, ..., realtime_start = NULL, realtime_end = NULL)
```

Arguments

| | |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| release_id | An integer ID of the release. |
| ... | These dots only exist for future extensions and should be empty. |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble object.

API Documentation

[fred/release](#)

See Also

[fredr_releases\(\)](#), [fredr_releases_dates\(\)](#), [fredr_release_dates\(\)](#), [fredr_release_series\(\)](#), [fredr_release_sources\(\)](#), [fredr_release_tags\(\)](#), [fredr_release_related_tags\(\)](#), [fredr_release_tables\(\)](#)

Examples

```

if (fredr_has_key()) {
  # Release as of today
  fredr_release(release_id = 20)

  # For some releases, adding realtime dates returns the history of changes
  # the release went through
  fredr_release(9, realtime_start = as.Date("1950-01-01"))
}

```

fredr_releases *Get all releases of economic data*

Description

Get all releases of economic data

Usage

```
fredr_releases(
  ...,
  limit = NULL,
  offset = NULL,
  order_by = NULL,
  sort_order = NULL,
  realtime_start = NULL,
  realtime_end = NULL
)
```

Arguments

| | |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ... | These dots only exist for future extensions and should be empty. |
| limit | An integer limit on the maximum number of results to return. Defaults to 1000, the maximum. |
| offset | An integer used in conjunction with <code>limit</code> for long series. This mimics the idea of <i>pagination</i> to retrieve large amounts of data over multiple calls. Defaults to 0. |
| order_by | Order results by values of the specified attribute. Possible values include: 'release_id' (default), 'name', 'press_release', 'realtime_start', 'realtime_end'. |
| sort_order | A string representing the order of the resulting series. Possible values are: "asc" (default), and "desc". |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble object.

API Documentation

[fred/releases](#)

See Also

[fredr_releases_dates\(\)](#), [fredr_release\(\)](#), [fredr_release_dates\(\)](#), [fredr_release_series\(\)](#), [fredr_release_sources\(\)](#), [fredr_release_tags\(\)](#), [fredr_release_related_tags\(\)](#), [fredr_release_tables\(\)](#),

Examples

```
if (fredr_has_key()) {
  fredr_releases(limit = 20L)
}
```

fredr_releases_dates *Get release dates for all releases of economic data.*

Description

Get release dates for *all* releases of economic data. Note that release dates are published by data sources and do not necessarily represent when data will be available on the FRED or ALFRED websites.

Usage

```
fredr_releases_dates(
  ...,
  limit = NULL,
  offset = NULL,
  sort_order = NULL,
  order_by = NULL,
  include_release_dates_with_no_data = NULL,
  realtime_start = NULL,
  realtime_end = NULL
)
```

Arguments

| | |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ... | These dots only exist for future extensions and should be empty. |
| limit | An integer limit on the maximum number of results to return. Defaults to 1000, the maximum. |
| offset | An integer used in conjunction with <code>limit</code> for long series. This mimics the idea of <i>pagination</i> to retrieve large amounts of data over multiple calls. Defaults to 0. |
| sort_order | A string representing the order of the resulting series. Possible values are: "asc" and "desc" (default). |
| order_by | Order results by values of the specified attribute. Possible values include: 'release_date' (default), 'release_id', 'release_name'. |

| | |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| include_release_dates_with_no_data | A boolean value indicating if the results with no data available should be returned as well. Default is FALSE. |
| realtime_start | A Date indicating the start of the real-time period. Defaults to the first day of the current year. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to 9999-12-31 (latest available). For more information, see Real-Time Periods . |

Value

A tibble object.

API Documentation

[fred/releases/dates](#)

See Also

[fredr_releases\(\)](#), [fredr_release_dates\(\)](#), [fredr_release\(\)](#), [fredr_release_series\(\)](#), [fredr_release_sources\(\)](#), [fredr_release_tags\(\)](#), [fredr_release_related_tags\(\)](#), [fredr_release_tables\(\)](#)

Examples

```
if (fredr_has_key()) {
  fredr_releases_dates(limit = 20L)
}
```

fredr_release_dates *Get release dates for a single release of economic data*

Description

Get release dates for a single release of economic data

Usage

```
fredr_release_dates(
  release_id,
  ...,
  limit = NULL,
  offset = NULL,
  sort_order = NULL,
  include_release_dates_with_no_data = NULL,
  realtime_start = NULL,
  realtime_end = NULL
)
```

Arguments

| | |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| release_id | An integer ID of the release. |
| ... | These dots only exist for future extensions and should be empty. |
| limit | An integer limit on the maximum number of results to return. Defaults to 10000, the maximum. |
| offset | An integer used in conjunction with <code>limit</code> for long series. This mimics the idea of <i>pagination</i> to retrieve large amounts of data over multiple calls. Defaults to 0. |
| sort_order | A string representing the order of the resulting release dates. Possible values are: "asc" (default), and "desc". |
| include_release_dates_with_no_data | A boolean value indicating if the results with no data available should be returned as well. Default is FALSE. |
| realtime_start | A Date indicating the start of the real-time period. Defaults to 1776-07-04 (earliest available). For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to 9999-12-31 (latest available). For more information, see Real-Time Periods . |

Value

A tibble object.

API Documentation

[fred/release/dates](#)

See Also

[fredr_releases\(\)](#), [fredr_releases_dates\(\)](#), [fredr_release\(\)](#), [fredr_release_series\(\)](#), [fredr_release_sources\(\)](#), [fredr_release_tags\(\)](#), [fredr_release_related_tags\(\)](#), [fredr_release_tables\(\)](#)

Examples

```
if (fredr_has_key()) {
  fredr_release_dates(release_id = 20L)

  # Call the function with an "as of" Date of 1997-03-14
  fredr_release_dates(release_id = 20L, realtime_end = as.Date("1997-03-14"))
}
```

fredr_release_related_tags

Get the related FRED tags for one or more FRED tags within a release

Description

FRED tags are attributes assigned to series. For this request, related FRED tags are the tags assigned to series that match all tags in the tag_names parameter, no tags in the exclude_tag_names parameter, and the release set by the release_id parameter.

Usage

```
fredr_release_related_tags(
  release_id,
  tag_names,
  ...,
  exclude_tag_names = NULL,
  tag_group_id = NULL,
  search_text = NULL,
  limit = NULL,
  offset = NULL,
  order_by = NULL,
  sort_order = NULL,
  realtime_start = NULL,
  realtime_end = NULL
)
```

Arguments

| | |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| release_id | An integer ID of the release. |
| tag_names | A semicolon delimited string of tag names to be related to. |
| ... | These dots only exist for future extensions and should be empty. |
| exclude_tag_names | A semicolon delimited string of tag names that series match <i>none</i> of. No exclusions are done by default. |
| tag_group_id | A string tag group id to filter tags by type. No filtering by tag group by default. Possible values are: <ul style="list-style-type: none"> • "freq" = Frequency • "gen" = General or Concept • "geo" = Geography • "geot" = Geography Type • "rls" = Release • "seas" = Seasonal Adjustment • "src" = Source |

| | |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| search_text | A string indicating the words to find matching tags with. No filtering by search words by default. |
| limit | An integer limit on the maximum number of results to return. Defaults to 1000, the maximum. |
| offset | An integer used in conjunction with <code>limit</code> for long series. This mimics the idea of <i>pagination</i> to retrieve large amounts of data over multiple calls. Defaults to 0. |
| order_by | Order results by values of the specified attribute. Possible values are: <ul style="list-style-type: none">• "series_count" (default)• "popularity"• "created"• "name"• "group_id" |
| sort_order | A string representing the order of the resulting series, sorted by the attribute values specified by <code>order_by</code> . Possible values are: "asc" (default), and "desc". |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble object.

API Documentation

[fred/release/related_tags](#)

See Also

[fredr_releases\(\)](#), [fredr_releases_dates\(\)](#), [fredr_release\(\)](#), [fredr_release_dates\(\)](#), [fredr_release_series\(\)](#), [fredr_release_sources\(\)](#), [fredr_release_tags\(\)](#), [fredr_release_tables\(\)](#)

Examples

```
if (fredr_has_key()) {  
  fredr_release_related_tags(10, tag_names = "cpi")  
}
```

fredr_release_series *Get the series on a release of economic data*

Description

Get the series on a release of economic data

Usage

```
fredr_release_series(
  release_id,
  ...,
  filter_variable = NULL,
  filter_value = NULL,
  tag_names = NULL,
  exclude_tag_names = NULL,
  limit = NULL,
  offset = NULL,
  order_by = NULL,
  sort_order = NULL,
  realtime_start = NULL,
  realtime_end = NULL
)
```

Arguments

| | |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| release_id | An integer ID of the release. |
| ... | These dots only exist for future extensions and should be empty. |
| filter_variable | A string indicating which attribute to indicate the attribute that results are filtered by. Possible values include: "frequency", "units", "seasonal_adjustment". No filtering by default. |
| filter_value | A string giving the value of the filter_variable attribute to filter results by. filter_variable must be set. No filtering by default. |
| tag_names | A string indicating which series tags to match. Multiple tags can be delimited by a semicolon in a single string (e.g. "usa;gnp"). |
| exclude_tag_names | A string indicating which series tags should <i>not</i> be matched. Multiple tags can be delimited by a semicolon in a single string (e.g. "usa;gnp"). |
| limit | An integer limit on the maximum number of results to return. Defaults to 1000, the maximum. |
| offset | An integer used in conjunction with limit for long series. This mimics the idea of <i>pagination</i> to retrieve large amounts of data over multiple calls. Defaults to 0. |

| | |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| order_by | A string indicating an attribute by which the results are ordered by. Possible values include: <ul style="list-style-type: none"> • "series_id" (default) • "title" • "units" • "frequency" • "seasonal_adjustment" • "realtime_start" • "realtime_end" • "last_updated" • "observation_start" • "observation_end" • "popularity" • "group_popularity" |
| sort_order | A string representing the order of the resulting series. Possible values are: "asc" (default), and "desc". |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble object.

API Documentation

[fred/release/series](#)

See Also

[fredr_releases\(\)](#), [fredr_releases_dates\(\)](#), [fredr_release\(\)](#), [fredr_release_dates\(\)](#), [fredr_release_sources\(\)](#), [fredr_release_tags\(\)](#), [fredr_release_related_tags\(\)](#), [fredr_release_tables\(\)](#)

Examples

```
if (fredr_has_key()) {
  fredr_release_series(release_id = 20L)

  fredr_release_series(release_id = 20L, order_by = "popularity")

  # Extract the "catalog" of series from a release on a certain date
  fredr_release_series(
    release_id = 20L,
    realtime_end = as.Date("2018-07-13"),
    order_by = "popularity"
  )
}
```

fredr_release_sources *Get the sources for a release of economic data*

Description

Get the sources for a release of economic data

Usage

```
fredr_release_sources(  
  release_id,  
  ...,  
  realtime_start = NULL,  
  realtime_end = NULL  
)
```

Arguments

| | |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| release_id | An integer ID of the release. |
| ... | These dots only exist for future extensions and should be empty. |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble object.

API Documentation

[fred/release/sources](#)

See Also

[fredr_releases\(\)](#), [fredr_releases_dates\(\)](#), [fredr_release\(\)](#), [fredr_release_dates\(\)](#), [fredr_release_series\(\)](#), [fredr_release_tags\(\)](#), [fredr_release_related_tags\(\)](#), [fredr_release_tables\(\)](#)

Examples

```
if (fredr_has_key()) {  
  # Where does the data for ID 10 come from?  
  fredr_release_sources(release_id = 10L)  
}
```

fredr_release_tables *Get release table trees for a given release*

Description

You can go directly to the tree structure by passing the appropriate `element_id`. You may also use a drill-down approach to start at the root (top most) element by leaving the `element_id` off.

Usage

```
fredr_release_tables(  
  release_id,  
  ...,  
  element_id = NULL,  
  include_observation_values = NULL,  
  observation_date = NULL  
)
```

Arguments

`release_id` An integer ID of the release.

... These dots only exist for future extensions and should be empty.

`element_id` An integer ID for the desired release table element.

`include_observation_values` A boolean indicating if observations should be returned with the release table element. Observations will only be returned for a series type element. Default is FALSE.

`observation_date` A Date indicating which observation date to include with the release table. Default is 9999-12-31 (latest date available).

Value

A tibble object with nested results.

API Documentation

[fred/release/tables](#)

See Also

[fredr_releases\(\)](#), [fredr_release_dates\(\)](#), [fredr_releases_dates\(\)](#), [fredr_release\(\)](#), [fredr_release_series\(\)](#), [fredr_release_sources\(\)](#), [fredr_release_tags\(\)](#), [fredr_release_related_tags\(\)](#)

Examples

```

if (fredr_has_key()) {
  fredr_release_tables(release_id = 10L)

  # Digging further into a release element
  fredr_release_tables(release_id = 53L, element_id = 12886)
}

```

fredr_release_tags *Get the FRED tags for a release*

Description

Get the FRED tags for a release. Optionally, filter results by tag name, tag group, or search text.

Usage

```

fredr_release_tags(
  release_id,
  ...,
  tag_names = NULL,
  tag_group_id = NULL,
  search_text = NULL,
  limit = NULL,
  offset = NULL,
  order_by = NULL,
  sort_order = NULL,
  realtime_start = NULL,
  realtime_end = NULL
)

```

Arguments

| | |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| release_id | An integer ID of the release. |
| ... | These dots only exist for future extensions and should be empty. |
| tag_names | A semicolon delimited string of tag names to only include in the response. No filtering by tag names by default (i.e. <i>all</i> FRED tags returned). |
| tag_group_id | A string tag group id to filter tags by type. No filtering by tag group by default. Possible values are: <ul style="list-style-type: none"> • "freq" = Frequency • "gen" = General or Concept • "geo" = Geography • "geot" = Geography Type • "rls" = Release • "seas" = Seasonal Adjustment |

| | |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <ul style="list-style-type: none"> • "src" = Source |
| search_text | A string indicating the words to find matching tags with. No filtering by search words by default. |
| limit | An integer limit on the maximum number of results to return. Defaults to 1000, the maximum. |
| offset | An integer used in conjunction with <code>limit</code> for long series. This mimics the idea of <i>pagination</i> to retrieve large amounts of data over multiple calls. Defaults to 0. |
| order_by | Order results by values of the specified attribute. Possible values are: <ul style="list-style-type: none"> • "series_count" (default) • "popularity" • "created" • "name" • "group_id" |
| sort_order | A string representing the order of the resulting series, sorted by the attribute values specified by <code>order_by</code> . Possible values are: "asc" (default), and "desc". |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble object.

API Documentation

[fred/release/tags](#)

See Also

[fredr_releases\(\)](#), [fredr_releases_dates\(\)](#), [fredr_release\(\)](#), [fredr_release_dates\(\)](#), [fredr_release_series\(\)](#), [fredr_release_sources\(\)](#), [fredr_release_related_tags\(\)](#), [fredr_release_tables\(\)](#)

Examples

```
if (fredr_has_key()) {
  fredr_release_tags(release_id = 10L)
}
```

fredr_request *Send a request to the FRED API*

Description

Send a general request to the FRED API by specifying an endpoint and a sequence of parameters. The `fredr_request()` function forms and submits a request to a specified endpoint of the FRED API. The result is either the response object from `httr::GET()` or the response parsed as a tibble.

Usage

```
fredr_request(
  endpoint,
  ...,
  to_frame = TRUE,
  print_req = FALSE,
  retry_times = 3L
)
```

Arguments

| | |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>endpoint</code> | A string representing the FRED API endpoint of interest. See fredr_endpoints for a list of endpoint possible values. <i>Required parameter.</i> |
| <code>...</code> | A series of named parameters to be used in the query. Must be of the form <code>param_key = "param_value"</code> . Acceptable parameters are endpoint-specific. See the fredr_endpoints data frame for a list of endpoints and <code>fredr_docs()</code> to access the web documentation for each endpoint function. |
| <code>to_frame</code> | A boolean value indicating whether or not the response should be parsed and formatted as a data frame. If <code>FALSE</code> , a response object is returned and further processing can be done with <code>httr::content()</code> . Default is <code>TRUE</code> . |
| <code>print_req</code> | A boolean value indicating whether or not the request should be printed as well. Useful for debugging. Default is <code>FALSE</code> . |
| <code>retry_times</code> | An integer indicating the maximum number of requests to attempt. Passed directly to <code>httr::RETRY()</code> . Default is 3. |

Value

If `to_frame = TRUE`, a tibble containing the parsed response. If `to_frame = FALSE`, a response object returned directly from `httr::GET()`.

API Documentation

[FRED API](#)

Examples

```

if (fredr_has_key()) {
  fredr_request(
    endpoint = "series/observations",
    series_id = "GNPCA",
    observation_start = "1990-01-01",
    observation_end = "2000-01-01"
  )

  # Compare to to_frame = `FALSE`
  resp <- fredr_request(
    endpoint = "series/observations",
    series_id = "GNPCA",
    observation_start = "1990-01-01",
    observation_end = "2000-01-01",
    to_frame = FALSE
  )
}

```

fredr_series

*Return basic information for a FRED series.***Description**

Given a series ID, return basic information for a FRED series. Note that this function will *not* return the actual series data. For this functionality, see [fredr_series_observations\(\)](#).

Usage

```
fredr_series(series_id, ..., realtime_start = NULL, realtime_end = NULL)
```

Arguments

| | |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| series_id | A string ID for the FRED series. |
| ... | These dots only exist for future extensions and should be empty. |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble object (1 row) with information for the series specified by series_id.

API Documentation

[fred/series](#)

See Also

[fredr_series_observations\(\)](#), [fredr_series_search_text\(\)](#), [fredr_series_search_id\(\)](#),
[fredr_series_search_tags\(\)](#), [fredr_series_search_related_tags\(\)](#), [fredr_series_categories\(\)](#),
[fredr_series_release\(\)](#), [fredr_series_tags\(\)](#), [fredr_series_updates\(\)](#), [fredr_series_vintagedates\(\)](#).

Examples

```
if (fredr_has_key()) {
# Return information for the "UNRATE" series
fredr_series(series_id = "UNRATE")
}
```

```
fredr_series_categories
```

Get the categories for a FRED series

Description

Given a series ID, return information on the categories to which a series belongs as a tibble object.

Usage

```
fredr_series_categories(
  series_id,
  ...,
  realtime_start = NULL,
  realtime_end = NULL
)
```

Arguments

| | |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <code>series_id</code> | A string ID for the FRED series. |
| <code>...</code> | These dots only exist for future extensions and should be empty. |
| <code>realtime_start</code> | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| <code>realtime_end</code> | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble object with information on the categories to which the series specified by `series_id` belongs. Data include category ID, name, parent category ID, and notes.

API Documentation

[fred/series/categories](#)

See Also

[fredr_series_observations\(\)](#), [fredr_series_search_text\(\)](#), [fredr_series_search_id\(\)](#),
[fredr_series_search_tags\(\)](#), [fredr_series_search_related_tags\(\)](#), [fredr_series\(\)](#), [fredr_series_release\(\)](#),
[fredr_series_tags\(\)](#), [fredr_series_updates\(\)](#), [fredr_series_vintagedates\(\)](#).

Examples

```
if (fredr_has_key()) {  
  # Return the categories to which the "UNRATE" series belongs  
  fredr_series_categories(series_id = "UNRATE")  
}
```

fredr_series_observations

Get observations of a FRED series

Description

Given a series ID, return observations of that series as a tibble object. `fredr()` is an alias for `fredr_series_observations()`.

Usage

```
fredr_series_observations(  
  series_id,  
  ...,  
  observation_start = NULL,  
  observation_end = NULL,  
  frequency = NULL,  
  aggregation_method = NULL,  
  limit = NULL,  
  offset = NULL,  
  sort_order = NULL,  
  units = NULL,  
  realtime_start = NULL,  
  realtime_end = NULL,  
  vintage_dates = NULL,  
  output_type = NULL  
)
```

```
fredr(  
  series_id,  
  ...,  
  observation_start = NULL,  
  observation_end = NULL,  
  frequency = NULL,  
  aggregation_method = NULL,
```

```

limit = NULL,
offset = NULL,
sort_order = NULL,
units = NULL,
realtime_start = NULL,
realtime_end = NULL,
vintage_dates = NULL,
output_type = NULL
)

```

Arguments

| | |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| series_id | A string ID for the FRED series. |
| ... | These dots only exist for future extensions and should be empty. |
| observation_start | A Date indicating the start of the observation period. Defaults to 1776-07-04, the earliest available date. |
| observation_end | A Date indicating the end of the observation period. Defaults to 9999-12-31, the latest available date. |
| frequency | A string representing a lower frequency to aggregate to. Defaults to no frequency aggregation. Possible values are: <ul style="list-style-type: none"> • "d" - Daily • "w" - Weekly • "bw" - Biweekly • "m" - Monthly • "q" - Quarterly • "sa" - Semiannual • "a" - Annual • "wem" - Weekly, ending Monday • "wetu" - Weekly, ending Tuesday • "wew" - Weekly, ending Wednesday • "weth" - Weekly, ending Thursday • "wef" - Weekly, ending Friday • "wesa" - Weekly, ending Saturday • "wesu" - Weekly, ending Sunday • "bwew" - Biweekly, ending Wednesday • "bwem" - Biweekly, ending Monday |
| aggregation_method | A string representing the aggregation method used for frequency aggregation. This parameter has no affect is frequency is not set. Possible values are: <ul style="list-style-type: none"> • "avg" for average • "sum" for sum • "eop" for end of period value |

| | |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>limit</code> | An integer limit on the maximum number of results to return. Defaults to 100000, the maximum. |
| <code>offset</code> | An integer used in conjunction with <code>limit</code> for long series. This mimics the idea of <i>pagination</i> to retrieve large amounts of data over multiple calls. Defaults to 0. |
| <code>sort_order</code> | A string representing the order of the resulting series. Possible values are: "asc" (default), and "desc". |
| <code>units</code> | A string indicating the data value transformation. Defaults to "lin". Possible values are: <ul style="list-style-type: none"> • "lin" - Levels (No transformation) • "chg" - Change • "ch1" - Change from 1 year ago • "pch" - Percent change • "pc1" - Percent change from 1 year ago • "pca" - Compounded annual rate of change • "cch" - Continuously compounded rate of change • "cca" - Continuously compounded annual rate of change • "log" - Natural log |
| <code>realtime_start</code> | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| <code>realtime_end</code> | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| <code>vintage_dates</code> | A vector of Date objects to download data for. Vintage dates are used to download data as it existed on these specified dates in history. They can be specified instead of a real-time period using <code>realtime_start</code> and <code>realtime_end</code> . Defaults to no vintage dates. |
| <code>output_type</code> | An integer indicating the output type. Not used unless <code>realtime_start</code> is used. Possible values are: <ul style="list-style-type: none"> • 1 for Observations by Real-Time Period (default) • 2 for Observations by Vintage Date, All Observations • 3 for Observations by Vintage Date, New and Revised Observations Only • 4 for Observations, Initial Release Only. |

Value

A tibble object with observation dates and values.

API Documentation

[fred/series/observations](#)

See Also

[fredr_series_search_text\(\)](#), [fredr_series_search_id\(\)](#), [fredr_series_search_tags\(\)](#), [fredr_series_search_related_tags\(\)](#), [fredr_series\(\)](#), [fredr_series_categories\(\)](#), [fredr_series_release\(\)](#), [fredr_series_tags\(\)](#), [fredr_series_updates\(\)](#), [fredr_series_vintagedates\(\)](#).

Examples

```

if (fredr_has_key()) {
# Observations for "UNRATE" series between 1980 and 2000. Units are in terms
# of change from previous observation.
fredr(
  series_id = "UNRATE",
  observation_start = as.Date("1980-01-01"),
  observation_end = as.Date("2000-01-01"),
  units = "chg"
)
# All observations for "OILPRICE" series. The data is first aggregated by
# quarter by taking the average of all observations in the quarter then
# transformed by taking the natural logarithm.
fredr(
  series_id = "OILPRICE",
  frequency = "q",
  aggregation_method = "avg",
  units = "log"
)

# To retrieve values for multiple series, use purrr's map_dfr() function.

if (requireNamespace("purrr", quietly = TRUE)) {

  library(purrr)
  purrr::map_dfr(c("UNRATE", "OILPRICE"), fredr)

  # Using purrr::pmap_dfr() allows you to use varying optional parameters
  params <- list(
    series_id = c("UNRATE", "OILPRICE"),
    frequency = c("m", "q")
  )

  purrr::pmap_dfr(
    .l = params,
    .f = ~ fredr(series_id = .x, frequency = .y)
  )

}

}

```

fredr_series_release *Get the release for a FRED series*

Description

Given a series ID, return information on a series as a tibble object.

Usage

```
fredr_series_release(  
  series_id,  
  ...,  
  realtime_start = NULL,  
  realtime_end = NULL  
)
```

Arguments

| | |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| series_id | A string ID for the FRED series. |
| ... | These dots only exist for future extensions and should be empty. |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble object with information on the release for the series specified by the `series_id` parameter. Data include release ID, real-time periods, release name, and links to press releases, if available.

API Documentation

[fred/series/release](#)

See Also

[fredr_series_observations\(\)](#), [fredr_series_search_text\(\)](#), [fredr_series_search_id\(\)](#), [fredr_series_search_tags\(\)](#), [fredr_series_search_related_tags\(\)](#), [fredr_series\(\)](#), [fredr_series_categories\(\)](#), [fredr_series_tags\(\)](#), [fredr_series_updates\(\)](#), [fredr_series_vintagedates\(\)](#).

Examples

```
if (fredr_has_key()) {  
  # Get release information for the "UNRATE" series  
  fredr_series_release(series_id = "UNRATE")  
}
```

fredr_series_search_related_tags

Get the related FRED tags for one or more FRED tags matching a series search

Description

FRED tags are attributes assigned to series. Return the *related* FRED tags for a search: tags assigned to series that match *all* tags in the tag_names parameter (required), *no* tags in the exclude_tag_names (optional) and the search words set by the series_search_text parameter (required).

Usage

```
fredr_series_search_related_tags(
    series_search_text,
    tag_names,
    ...,
    exclude_tag_names = NULL,
    tag_group_id = NULL,
    tag_search_text = NULL,
    limit = NULL,
    offset = NULL,
    order_by = NULL,
    sort_order = NULL,
    realtime_start = NULL,
    realtime_end = NULL
)
```

Arguments

| | |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| series_search_text | A string containing the series search text. |
| tag_names | A semicolon delimited string of tag names to return. |
| ... | These dots only exist for future extensions and should be empty. |
| exclude_tag_names | A semicolon delimited string of tag names that series match <i>none</i> of. Defaults to no tag filtering. |
| tag_group_id | A string indicating the tag group id to filter tags by type. Defaults to no filtering by tag group. Possible values are <ul style="list-style-type: none"> • "freq" = Frequency • "gen" = General or Concept • "geo" = Geography • "geot" = Geography Type • "rls" = Release • "seas" = Seasonal Adjustment |

| | |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <ul style="list-style-type: none"> • "src" = Source |
| tag_search_text | A string to match tag names. Defaults to no filtering by tag name matching. |
| limit | An integer limit on the maximum number of results to return. Defaults to 1000, the maximum. |
| offset | An integer used in conjunction with <code>limit</code> for long series. This mimics the idea of <i>pagination</i> to retrieve large amounts of data over multiple calls. Defaults to 0. |
| order_by | A string indicating the attribute to order results by. Defaults to "series_count". Possible values are: <ul style="list-style-type: none"> • "series_count" • "popularity" • "created" • "name" • "group_id" |
| sort_order | A string representing the order of the resulting series. Possible values are: "asc" (default), and "desc". |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble object.

References

API Documentation:
[series/search/related_tags](#)

See Also

[fredr_series_observations\(\)](#), [fredr_series_search_text\(\)](#), [fredr_series_search_id\(\)](#),
[fredr_series_search_tags\(\)](#), [fredr_series\(\)](#), [fredr_series_categories\(\)](#), [fredr_series_release\(\)](#),
[fredr_series_tags\(\)](#), [fredr_series_updates\(\)](#), [fredr_series_vintagedates\(\)](#).

Examples

```
if (fredr_has_key()) {
# Search for all tags matching the series text "oil" and the tag "usa".
fredr_series_search_related_tags(
  series_search_text = "oil",
  tag_names = "usa"
)
# Search for tags matching the series text "oil", the tag text "usa", and
# are related to the tag "usa". Return only results in the "src" (Source)
```

```
# group.
fredr_series_search_related_tags(
  series_search_text = "oil",
  tag_names = "usa",
  tag_group_id = "src",
  tag_search_text = "usa"
)
}
```

fredr_series_search_tags

Get the FRED tags for a series search.

Description

Return the FRED tags by searching for matches in series text.

Usage

```
fredr_series_search_tags(
  series_search_text,
  ...,
  tag_names = NULL,
  tag_group_id = NULL,
  tag_search_text = NULL,
  limit = NULL,
  offset = NULL,
  order_by = NULL,
  sort_order = NULL,
  realtime_start = NULL,
  realtime_end = NULL
)
```

Arguments

| | |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| series_search_text | A string containing the series search text. |
| ... | These dots only exist for future extensions and should be empty. |
| tag_names | A semicolon delimited string of tag names to return. Defaults no filtering by tag names. |
| tag_group_id | A string indicating the tag group id to filter tags by type. Defaults to no filtering by tag group. Possible values are <ul style="list-style-type: none"> • "freq" = Frequency • "gen" = General or Concept • "geo" = Geography • "geot" = Geography Type |

- "rls" = Release
- "seas" = Seasonal Adjustment
- "src" = Source

| | |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| tag_search_text | A string to match tag names. Defaults to no filtering by tag name matching. |
| limit | An integer limit on the maximum number of results to return. Defaults to 1000, the maximum. |
| offset | An integer used in conjunction with <code>limit</code> for long series. This mimics the idea of <i>pagination</i> to retrieve large amounts of data over multiple calls. Defaults to 0. |
| order_by | A string indicating the attribute to order results by. Defaults to "series_count". Possible values are: <ul style="list-style-type: none"> • "series_count" • "popularity" • "created" • "name" • "group_id" |
| sort_order | A string representing the order of the resulting series. Possible values are: "asc" (default), and "desc". |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble object where each row represents a series tag matching the query. Data include the tag name, group ID, tag creation date, popularity, series count, and additional notes.

References

API Documentation:

[series/search/tags](#)

See Also

[fredr_series_search_text\(\)](#), [fredr_series_search_id\(\)](#), [fredr_series_search_related_tags\(\)](#), [fredr_tags\(\)](#)

Examples

```
if (fredr_has_key()) {
# Search for tags matching the series text "gnp"
fredr_series_search_tags("gnp")
# Search for tags matching the series text "oil" and the tag text "usa"
fredr_series_search_tags(
```

```

    series_search_text = "oil",
    tag_search_text = "usa"
)
# Search for tags matching the series text "oil" and the tag text "usa".
# Return only results in the "geo" (Geography) group
fredr_series_search_tags(
  series_search_text = "oil",
  tag_group_id = "geo",
  tag_search_text = "usa"
)
}

```

fredr_series_search_text

Search for a FRED series.

Description

Search FRED for a series by full text of series or by series ID.

Usage

```

fredr_series_search_text(
  search_text,
  ...,
  tag_names = NULL,
  exclude_tag_names = NULL,
  filter_variable = NULL,
  filter_value = NULL,
  limit = NULL,
  offset = NULL,
  order_by = NULL,
  sort_order = NULL,
  realtime_start = NULL,
  realtime_end = NULL
)

```

```

fredr_series_search_id(
  search_text,
  ...,
  limit = 1000L,
  offset = 0,
  order_by = NULL,
  sort_order = "asc",
  filter_variable = NULL,
  filter_value = NULL,
  realtime_start = NULL,
  realtime_end = NULL,
)

```



```

    tag_names = NULL,
    exclude_tag_names = NULL
)

```

Arguments

| | |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| search_text | A string containing the words to match against economic data series. For use with <code>fredr_series_search_text</code> and <code>fredr_series_search_id</code> . |
| ... | These dots only exist for future extensions and should be empty. |
| tag_names | A semicolon delimited string of tag names that series match <i>all</i> of. Defaults to no tag filtering. |
| exclude_tag_names | A semicolon delimited string of tag names that series match <i>none</i> of. Defaults to no tag filtering. |
| filter_variable | A string indicating the attribute to filter results by. Possible values are: "frequency", "units", "seasonal_adjustment". Defaults to no filter. |
| filter_value | The value of the <code>filter_variable</code> attribute to filter by. Possible values depend on the value of <code>filter_variable</code> . Defaults to no filter. |
| limit | An integer limit on the maximum number of results to return. Defaults to 1000, the maximum. |
| offset | An integer used in conjunction with <code>limit</code> for long series. This mimics the idea of <i>pagination</i> to retrieve large amounts of data over multiple calls. Defaults to 0. |
| order_by | A string indicating the attribute to order results by. Defaults to "search_rank" for <code>fredr_series_search_text()</code> and "series_id" for <code>fredr_series_search_id()</code> . Possible values are: <ul style="list-style-type: none"> • "search_rank" • "series_id" • "title" • "units" • "frequency" • "seasonal_adjustment" • "realtime_start" • "realtime_end" • "last_updated" • "observation_start" • "observation_end" • "popularity" • "group_popularity" |
| sort_order | A string representing the order of the resulting series. Possible values are: "asc" (default), and "desc". |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble object where each row represents a series matching the query.

References

API Documentation:

[series/search](#)

See Also

[fredr_series_observations\(\)](#), [fredr_series_search_tags\(\)](#), [fredr_series_search_related_tags\(\)](#), [fredr_series\(\)](#), [fredr_series_categories\(\)](#), [fredr_series_release\(\)](#), [fredr_series_tags\(\)](#), [fredr_series_updates\(\)](#), [fredr_series_vintagedates\(\)](#).

Examples

```
if (fredr_has_key()) {  
  # search for series with text matching "oil" and return the top 10 most popular  
  # series  
  fredr_series_search_text(  
    search_text = "oil",  
    order_by = "popularity",  
    limit = 10  
  )  
  # search for series with text matching "oil" with the tag "usa" and return the  
  # top 10 search results  
  fredr_series_search_text(  
    search_text = "oil",  
    order_by = "search_rank",  
    limit = 10,  
    tag_names = "usa"  
  )  
  # search for series with text matching "unemployment" and return only series  
  # with monthly frequency  
  fredr_series_search_text(  
    search_text = "unemployment",  
    filter_variable = "frequency",  
    filter_value = "Monthly"  
  )  
  # search for series ID matching "UNRATE" and return oldest series first  
  fredr_series_search_id(  
    search_text = "UNRATE",  
    order_by = "observation_start"  
  )  
}
```

fredr_series_tags *Get the tags for a FRED series*

Description

Given a series ID, return associated tags for the series as a tibble object.

Usage

```
fredr_series_tags(
  series_id,
  ...,
  order_by = NULL,
  sort_order = NULL,
  realtime_start = NULL,
  realtime_end = NULL
)
```

Arguments

| | |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| series_id | A string ID for the FRED series. |
| ... | These dots only exist for future extensions and should be empty. |
| order_by | A string indicating the attribute by which to order the series. Possible values include "series_count" (default), "popularity", "created", "name", and "group_id". |
| sort_order | A string representing the order of the resulting series. Possible values are: "asc" (default), and "desc". |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble object where each row represents a tag associated with the series specified by series_id. Data include tag name, group ID, popularity, series count, tag creation date, and additional notes.

API Documentation

[fred/series/tags](#)

See Also

[fredr_series_observations\(\)](#), [fredr_series_search_text\(\)](#), [fredr_series_search_id\(\)](#), [fredr_series_search_tags\(\)](#), [fredr_series_search_related_tags\(\)](#), [fredr_series\(\)](#), [fredr_series_categories\(\)](#), [fredr_series_release\(\)](#), [fredr_series_updates\(\)](#), [fredr_series_vintagedates\(\)](#).

Examples

```

if (fredr_has_key()) {
# Return all tags assigned to the "UNRATE" series and order the results by
# group ID.
fredr_series_tags(series_id = "UNRATE", order_by = "group_id")
}

```

fredr_series_updates *Get a set of recently updated FRED series*

Description

Returns information on the recently updated series on the FRED server.

Usage

```

fredr_series_updates(
  ...,
  filter_value = NULL,
  start_time = NULL,
  end_time = NULL,
  limit = NULL,
  offset = NULL,
  realtime_start = NULL,
  realtime_end = NULL
)

```

Arguments

| | |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ... | These dots only exist for future extensions and should be empty. |
| filter_value | Filter results by type of geographic region of economic the data series. Possible values include <ul style="list-style-type: none"> "all" (default) - no filtering "macro" - filters results macroeconomic regions (e.g. entire countries) "regional" - filters results to series for regions of the United States such as states, counties, and Metropolitan Statistical Areas (MSA). |
| start_time | A datetime object indicating the start time to filter series updates results. |
| end_time | A datetime object indicating the start time to filter series updates results. |
| limit | An integer limit on the maximum number of results to return. Defaults to 1000, the maximum. |
| offset | An integer used in conjunction with <code>limit</code> for long series. This mimics the idea of <i>pagination</i> to retrieve large amounts of data over multiple calls. Defaults to 0. |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble object where each row represents a series. Rows are sorted with most recently updated series appearing first.

API Documentation

[fred/series/updates](#)

See Also

[fredr_series_observations\(\)](#), [fredr_series_search_text\(\)](#), [fredr_series_search_id\(\)](#), [fredr_series_search_tags\(\)](#), [fredr_series_search_related_tags\(\)](#), [fredr_series\(\)](#), [fredr_series_release\(\)](#), [fredr_series_tags\(\)](#), [fredr_series_categories\(\)](#), [fredr_series_vintagedates\(\)](#).

Examples

```
if (fredr_has_key()) {  
  # Get all recently updated "regional" series  
  fredr_series_updates(filter_value = "regional")  
  # Most recently updated series are returned first  
  updates <- fredr_series_updates(filter_value = "regional")$last_updated  
  is.unsorted(rev(as.POSIXct(updates)))  
}
```

fredr_series_vintagedates

Get the data vintage dates for a FRED series

Description

Given a series ID, return a sequence of dates in history when a series' data values were revised or new data values were released as a tibble object.

Usage

```
fredr_series_vintagedates(  
  series_id,  
  ...,  
  limit = NULL,  
  offset = NULL,  
  sort_order = NULL,  
  realtime_start = NULL,  
  realtime_end = NULL  
)
```

Arguments

| | |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>series_id</code> | A string ID for the FRED series. |
| <code>...</code> | These dots only exist for future extensions and should be empty. |
| <code>limit</code> | An integer limit on the maximum number of results to return. Defaults to 1000, the maximum. |
| <code>offset</code> | An integer used in conjunction with <code>limit</code> for long series. This mimics the idea of <i>pagination</i> to retrieve large amounts of data over multiple calls. Defaults to 0. |
| <code>sort_order</code> | A string representing the order of the resulting series. Possible values are: "asc" (default), and "desc". |
| <code>realtime_start</code> | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| <code>realtime_end</code> | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble object where each row is a distinct vintage date.

API Documentation

[fred/series/vintagedates](#)

See Also

[fredr_series_observations\(\)](#), [fredr_series_search_text\(\)](#), [fredr_series_search_id\(\)](#), [fredr_series_search_tags\(\)](#), [fredr_series_search_related_tags\(\)](#), [fredr_series\(\)](#), [fredr_series_release\(\)](#), [fredr_series_tags\(\)](#), [fredr_series_categories\(\)](#), [fredr_series_updates\(\)](#).

Examples

```
if (fredr_has_key()) {
  # All data vintages for the "UNRATE" series
  fredr_series_vintagedates(series_id = "UNRATE")
  # 10 most recent data vintages for the "UNRATE" series
  fredr_series_vintagedates(series_id = "UNRATE", limit = 10L, sort_order = "desc")
}
```

fredr_source

Get a source of economic data

Description

Get a source of economic data

Usage

```
fredr_source(source_id, ..., realtime_start = NULL, realtime_end = NULL)
```

Arguments

| | |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| source_id | An integer ID for the data source. |
| ... | These dots only exist for future extensions and should be empty. |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble object.

API Documentation

[fred/source](#)

See Also

[fredr_sources\(\)](#), [fredr_source_releases\(\)](#)

Examples

```
if (fredr_has_key()) {  
  fredr_source(source_id = 14L)  
  
  # Has this source ID ever changed over time?  
  fredr_source(source_id = 14L, realtime_start = as.Date("1990-01-01"))  
}
```

| | |
|---------------|-----------------------------------------|
| fredr_sources | <i>Get all sources of economic data</i> |
|---------------|-----------------------------------------|

Description

Get *all* sources of economic data

Usage

```
fredr_sources(
  ...,
  limit = NULL,
  offset = NULL,
  order_by = NULL,
  sort_order = NULL,
  realtime_start = NULL,
  realtime_end = NULL
)
```

Arguments

| | |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ... | These dots only exist for future extensions and should be empty. |
| limit | An integer limit on the maximum number of results to return. Defaults to 1000, the maximum. |
| offset | An integer used in conjunction with limit for long series. This mimics the idea of <i>pagination</i> to retrieve large amounts of data over multiple calls. Defaults to 0. |
| order_by | A string indicating which attribute should be used to order the results. Possible values: "source_id" (default), "name", "realtime_start", "realtime_end". |
| sort_order | A string representing the order of the resulting series. Possible values are: "asc" (default), and "desc". |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble object.

API Documentation

[fred/sources](#)

See Also

[fredr_source\(\)](#), [fredr_source_releases\(\)](#)

Examples

```
if (fredr_has_key()) {
  fredr_sources(limit = 20L)
}
```

fredr_source_releases *Get the releases for a source*

Description

Get the releases for a source

Usage

```
fredr_source_releases(
  source_id,
  ...,
  limit = NULL,
  offset = NULL,
  order_by = NULL,
  sort_order = NULL,
  realtime_start = NULL,
  realtime_end = NULL
)
```

Arguments

| | |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| source_id | An integer ID for the data source. |
| ... | These dots only exist for future extensions and should be empty. |
| limit | An integer limit on the maximum number of results to return. Defaults to 1000, the maximum. |
| offset | An integer used in conjunction with limit for long series. This mimics the idea of <i>pagination</i> to retrieve large amounts of data over multiple calls. Defaults to 0. |
| order_by | A string indicating which attribute should be used to order the results. Possible values: <ul style="list-style-type: none"> • "release_id" (default) • "name" • "press_release" • "realtime_start" • "realtime_end" |
| sort_order | A string representing the order of the resulting series. Possible values are: "asc" (default), and "desc". |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble object.

API Documentation

[fred/source/releases](#)

See Also

[fredr_sources\(\)](#), [fredr_source\(\)](#)

Examples

```
if (fredr_has_key()) {  
  # Board of Governors  
  fredr_source_releases(source_id = 1L)  
  
  # University of Michigan  
  fredr_source_releases(source_id = 14L, realtime_start = as.Date("1950-01-01"))  
}
```

fredr_tags

Get FRED series tags

Description

Get FRED tags. Optionally, filter results by tag name, tag group, or search text. FRED tags are attributes assigned to a series. By default, all tags are returned, unfiltered, up to the `limit`.

Usage

```
fredr_tags(  
  ...,  
  tag_names = NULL,  
  tag_group_id = NULL,  
  search_text = NULL,  
  limit = NULL,  
  offset = NULL,  
  order_by = NULL,  
  sort_order = NULL,  
  realtime_start = NULL,  
  realtime_end = NULL  
)
```

Arguments

| | |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ... | These dots only exist for future extensions and should be empty. |
| tag_names | A semicolon delimited string of tag names to only include in the response. No filtering by tag names by default (i.e. <i>all</i> FRED tags returned). |
| tag_group_id | A string tag group id to filter tags by type. No filtering by tag group by default. Possible values are: <ul style="list-style-type: none"> • "freq" = Frequency • "gen" = General or Concept • "geo" = Geography • "geot" = Geography Type • "rls" = Release • "seas" = Seasonal Adjustment • "src" = Source |
| search_text | A string indicating the words to find matching tags with. No filtering by search words by default. |
| limit | An integer limit on the maximum number of results to return. Defaults to 1000, the maximum. |
| offset | An integer used in conjunction with <code>limit</code> for long series. This mimics the idea of <i>pagination</i> to retrieve large amounts of data over multiple calls. Defaults to 0. |
| order_by | Order results by values of the specified attribute. Possible values are: <ul style="list-style-type: none"> • "series_count" (default) • "popularity" • "created" • "name" • "group_id" |
| sort_order | A string representing the order of the resulting series, sorted by the attribute values specified by <code>order_by</code> . Possible values are: "asc" (default), and "desc". |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble containing tags and their descriptions. Data include tag name, group ID, popularity, series count, tag creation date, and additional notes.

API Documentation

[fred/tags](#)

See Also

[fredr_category_tags\(\)](#), [fredr_category_related_tags\(\)](#), [fredr_docs\(\)](#), [fredr_release_tags\(\)](#),
[fredr_release_related_tags\(\)](#), [fredr_series_search_tags\(\)](#), [fredr_series_search_related_tags\(\)](#),
[fredr_tags_series\(\)](#), [fredr_related_tags\(\)](#)

Examples

```
if (fredr_has_key() && interactive()) {
# Information for all tags
fredr_tags()

# Information for just the "gdp" and "oecd" tags
fredr_tags(tag_names = "gdp;oecd")

# Information for all tags in the "geo" group
fredr_tags(tag_group_id = "geo")

# Information for tags matching the text "unemployment"
fredr_tags(search_text = "unemployment")
}
```

fredr_tags_series *Find FRED series matching tag names*

Description

Get the series matching tags in the tag_names parameter. Exclude tags in the exclude_tag_names parameter.

Usage

```
fredr_tags_series(
  tag_names,
  ...,
  exclude_tag_names = NULL,
  limit = NULL,
  offset = NULL,
  order_by = NULL,
  sort_order = NULL,
  realtime_start = NULL,
  realtime_end = NULL
)
```

Arguments

tag_names A semicolon delimited string of tag names to find series using.
 ... These dots only exist for future extensions and should be empty.

| | |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| exclude_tag_names | A semicolon delimited string of tag names that series match <i>none</i> of. No exclusions are done by default. |
| limit | An integer limit on the maximum number of results to return. Defaults to 1000, the maximum. |
| offset | An integer used in conjunction with <code>limit</code> for long series. This mimics the idea of <i>pagination</i> to retrieve large amounts of data over multiple calls. Defaults to 0. |
| order_by | A string indicating which attribute by which to order the results of the query. Possible values include: <ul style="list-style-type: none"> • "series_id" (default) • "title" • "units" • "frequency" • "seasonal_adjustment" • "realtime_start" • "realtime_end" • "last_updated" • "observation_start" • "observation_end" • "popularity" • "group_popularity" |
| sort_order | A string representing the order of the resulting series, sorted by the attribute values specified by <code>order_by</code> . Possible values are: "asc" (default), and "desc". |
| realtime_start | A Date indicating the start of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |
| realtime_end | A Date indicating the end of the real-time period. Defaults to today's date. For more information, see Real-Time Periods . |

Value

A tibble object containing FRED series with tags matching `tag_names` and their descriptions.

API Documentation

[fred/tags/series](#)

See Also

[fredr_category_tags\(\)](#), [fredr_category_related_tags\(\)](#), [fredr_docs\(\)](#), [fredr_release_tags\(\)](#), [fredr_release_related_tags\(\)](#), [fredr_series_search_tags\(\)](#), [fredr_series_search_related_tags\(\)](#), [fredr_tags\(\)](#), [fredr_related_tags\(\)](#)

Examples

```
if (fredr_has_key()) {  
  # All series tagged with "gdp"  
  fredr_tags_series(tag_names = "gdp")  
  # All series tagged with "gdp" and not tagged with "quarterly"  
  fredr_tags_series(  
    tag_names = "gdp",  
    exclude_tag_names = "quarterly"  
  )  
  # Top 100 most popular non-quarterly series matching GDP  
  fredr_tags_series(  
    tag_names = "gdp",  
    exclude_tag_names = "quarterly",  
    order_by = "popularity",  
    limit = 100L  
  )  
}
```

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