# Package 'onsr'

October 14, 2022

**Title** Client for the 'ONS' API

**Version** 1.0.1

**Description** Client for the 'Office of National Statistics'
('ONS') API <https://api.beta.ons.gov.uk/v1>.

**License** GPL (>= 3)

**Encoding** UTF-8

**LazyData** true

**Imports** httr, jsonlite, readr, tibble

**URL** https://kvasilopoulos.github.io/onsr/

**BugReports** https://github.com/kvasilopoulos/onsr/issues

**RoxygenNote** 7.1.1

**Suggests** testthat (>= 3.0.0), data.table, vroom, curl

**Config/testthat/edition** 3

**Depends** R (>= 2.10)

**NeedsCompilation** no

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**Repository** CRAN

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## R topics documented:

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ons_browse                           *Quickly browse to ONS' developer webpage*

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### Description

This function take you to the ONS' developer webpage.

### Usage

```
ons_browse()
```

### Value

An atomic character vector with the url of the webpage

### Examples

```
ons_browse()
```

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ons_browse_qmi                      *Quickly browse to dataset's Quality and Methodology Information (QMI)*

---

### Description

This function take you to the QMI.

### Usage

```
ons_browse_qmi(id = NULL)
```

### Arguments

id                    [character] Id that represents a dataset.

### Value

An atomic character vector url with of the webpage

## Examples

```
ons_browse_qmi("cpih01")
```

---

ons_codelists                    *Explore codes and lists*

---

## Description

Used to get details about codes and code lists stored by ONS. Codes are used to provide a common definition when presenting statistics with related categories. Codes are gathered in code lists, which may change over time to include new or different codes. The meaning of a code should not change over time, but new codes may be created where new meaning is required.

## Usage

```
ons_codelists()

ons_codelist(code_id = NULL)

ons_codelist_editions(code_id = NULL)

ons_codelist_edition(code_id = NULL, edition = NULL)
```

## Arguments

| | |
|---|---|
| code_id | [character]. The id of a codelist. |
| edition | [character] A subset of the dataset representing a specific time period. For some datasets this edition can contain all time periods (all historical data). The latest version of this is displayed by default. |

## Value

A list or character vector.

## Examples

```
ons_codelists()
ons_codelist(code_id = "quarter")

#editions
ons_codelist_editions(code_id = "quarter")
ons_codelist_edition(code_id = "quarter", edition = "one-off")
```

---

ons_codes                    *Explore codes and lists*

---

### Description

Used to get details about codes and code lists stored by ONS. Codes are used to provide a common definition when presenting statistics with related categories. Codes are gathered in code lists, which may change over time to include new or different codes. The meaning of a code should not change over time, but new codes may be created where new meaning is required.

### Usage

```
ons_codes(code_id = NULL, edition = NULL)

ons_code(code_id = NULL, edition = NULL, code = NULL)

ons_code_dataset(code_id = NULL, edition = NULL, code = NULL)
```

### Arguments

| | |
|---|---|
| code_id | [character]. The id of a codelist. |
| edition | [character] A subset of the dataset representing a specific time period. For some datasets this edition can contain all time periods (all historical data). The latest version of this is displayed by default. |
| code | [character] The ID of the code within a code list. |

### Value

A list or character vector.

### Examples

```
#codes
ons_codes(code_id = "quarter", edition = "one-off")
ons_code(code_id = "quarter", edition = "one-off", code = "q2")

ons_code_dataset(code_id = "quarter", edition = "one-off", code = "q2")
```

---

ons_datasets *ONS Datasets*

---

## Description

A grouping of data (editions) with shared dimensions, for example Sex, Age and Geography, and all published history of this group of data. The options in these dimensions can change over time leading to separate editions. For example: Population Estimates for UK, England and Wales, Scotland and Northern Ireland.

## Usage

```
ons_datasets()

ons_ids()
```

## Value

A tibble with the datasets.

## Examples

```
# Find all the information about the data
ons_datasets()

# Just the ids
ons_ids()
```

---

ons_desc *Description of the Dataset*

---

## Description

This function provides a description of the important information about a dataset.

## Usage

```
ons_desc(id = NULL)
```

## Arguments

id           [character] Id that represents a dataset.

**Value**

A description of the requested dataset.

**See Also**

ons_meta()

**Examples**

```
ons_desc("cpih01")
```

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ons_extra                          *Access dataset's additional information*

---

**Description**

Data in each version is broken down by `dimensions`, and a unique combination of dimension `options` in a version can be used to retrieve `observation` level data.

**Usage**

```
ons_dim(id = NULL, edition = NULL, version = NULL)

ons_dim_opts(
  id = NULL,
  edition = NULL,
  version = NULL,
  dimension = NULL,
  limit = NULL,
  offset = NULL
)

ons_meta(id = NULL, edition = NULL, version = NULL)
```

**Arguments**

| | |
|---|---|
| id | [character] Id that represents a dataset. |
| edition | [character] A subset of the dataset representing a specific time period. For some datasets this edition can contain all time periods (all historical data). The latest version of this is displayed by default. |
| version | [character] A specific instance of the edition at a point in time. New versions can be published as a result of corrections, revisions or new data becoming available. |
| dimension | [character] |

limit [numeric(1): NULL] Number of records to return. By default is NULL, which means that the defaults of the ONS API are used. You can set it to a number to request more (or less) records, and also to Inf to request all records.

offset [numeric(1): NULL] The position in the dataset of a particular record. By specifying offset , you retrieve a subset of records starting with the offset value. Offset normally works with length , which determines how many records to retrieve starting from the offset.

## Value

A character vector.

## Examples

```
ons_dim(id = "cpih01")

ons_dim_opts(id = "cpih01", dimension = "time")

ons_meta(id = "cpih01")
```

---

ons_get *Download data from ONS*

---

## Description

This functions is used to find information about data published by the ONS. Datasets are published in unique versions, which are categorized by edition. Available datasets are given an id. All available id can be viewed with ons_ids().

## Usage

```
ons_get(
  id = NULL,
  edition = NULL,
  version = NULL,
  ons_read = getOption("onsr.read"),
  ...
)

ons_get_obs(id = NULL, edition = NULL, version = NULL, ...)
```

## Arguments

id [character] Id that represents a dataset.

edition [character] A subset of the dataset representing a specific time period. For some datasets this edition can contain all time periods (all historical data). The latest version of this is displayed by default.

| version | [character] A specific instance of the edition at a point in time. New versions can be published as a result of corrections, revisions or new data becoming available. |
| ons_read | [character]. Reading backend, one of readr, data.table or vroom. |
| ... | Further arguments passed on the methods. |

### Value

A tibble with the dataset in tidy format.

### Examples

```
ons_get(id = "cpih01")

# Same dataset but older version
ons_get(id = "cpih01", version = "5")


# Take only specific observations
ons_get_obs("cpih01", geography = "K02000001", aggregate = "cpih1dim1A0", time = "Oct-11")

# Or can use a wildcard for the time
ons_get_obs("cpih01", geography = "K02000001", aggregate = "cpih1dim1A0", time = "*")
```

---

ons_latest                              *Latest info on ONS Datasets*

---

### Description

This functions are used to access the latest href, version and edition of a dataset.

### Usage

```
ons_latest_href(id = NULL)

ons_latest_version(id = NULL)

ons_latest_edition(id = NULL)
```

### Arguments

| id | [character] Id that represents a dataset. |

## Value

An atomic character vector with the latest info.

## Examples

```
ons_latest_href("cpih01")
ons_latest_version("cpih01")
ons_latest_edition("cpih01")
```

---

ons_search                        *Search for a Dataset*

---

## Description

Search for a Dataset

## Usage

```
ons_search(id, edition = NULL, version = NULL, name = NULL, query = NULL)
```

## Arguments

| | |
|---|---|
| id | [character] Id that represents a dataset. |
| edition | [character] A subset of the dataset representing a specific time period. For some datasets this edition can contain all time periods (all historical data). The latest version of this is displayed by default. |
| version | [character] A specific instance of the edition at a point in time. New versions can be published as a result of corrections, revisions or new data becoming available. |
| name | [character]. The name of dimension to perform the query. Available dimensions for a specific id at ons_dim(). |
| query | [character]. The query. |

## Value

A data.frame.

## Examples

```
ons_dim("cpih01")
ons_search("cpih01", name = "aggregate", query = "cpih1dim1A0")
```

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