

# Package ‘WikidataQueryServiceR’

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**Title** API Client Library for 'Wikidata Query Service'

**Version** 1.0.0

**Date** 2020-06-16

**Description** An API client for the 'Wikidata Query Service'

<<https://query.wikidata.org/>>.

**Depends** R (>= 3.1.2)

**Imports** httr (>= 1.2.1), dplyr (>= 1.0.0), jsonlite (>= 1.2),

WikipediR (>= 1.5.0), ratelimitr (>= 0.4.1), purrr (>= 0.3.4),

readr (>= 1.3.1), rex (>= 1.2.0)

**Suggests** testthat (>= 2.3.0), lintr (>= 2.0.1)

**URL** <https://github.com/bearloga/WikidataQueryServiceR>

**BugReports** <https://github.com/bearloga/WikidataQueryServiceR/issues>

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.1.0

**NeedsCompilation** no

**Author** Mikhail Popov [aut, cre] (@bearloga on Twitter),

Wikimedia Foundation [cph]

**Maintainer** Mikhail Popov <mikhail@wikimedia.org>

**Repository** CRAN

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`get_example`*Get an example SPARQL query from Wikidata*

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### Description

Gets the specified example(s) from [SPARQL query service examples page](#) using [Wikidata's MediaWiki API](#).

### Usage

```
get_example(example_name)
```

### Arguments

`example_name` the names of the examples as they appear on [this page](#)

### Details

If you are planning on extracting multiple examples, please provide all the names as a single vector for efficiency.

### Value

The SPARQL query as a character vector.

### See Also

[query\\_wikidata](#)

### Examples

```
## Not run:
sparql_query <- extract_example(c("Cats", "Horses"))
query_wikidata(sparql_query)
# returns a named list with two data frames
# one called "Cats" and one called "Horses"

sparql_query <- extract_example("Largest cities with female mayor")
cat(sparql_query)
query_wikidata(sparql_query)

## End(Not run)
```

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query_wikidata	<i>Send one or more SPARQL queries to WDQS</i>
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**Description**

Makes a POST request to Wikidata Query Service SPARQL endpoint.

**Usage**

```
query_wikidata(sparql_query, format = c("simple", "smart"))
```

**Arguments**

sparql_query	SPARQL query (can be a vector of queries)
format	"simple" uses CSV and returns pure character data frame, while "smart" fetches JSON-formatted data and returns a data frame with datetime columns converted to POSIXct

**Value**

A tibble data frame

**Query limits**

There is a hard query deadline configured which is set to 60 seconds. There are also following limits:

- One client (user agent + IP) is allowed 60 seconds of processing time each 60 seconds
- One client is allowed 30 error queries per minute See [query limits section](#) in the WDQS user manual for more information.

**See Also**

[get\\_example](#)

**Examples**

```
sparql_query <- "SELECT
  ?softwareVersion ?publicationDate
WHERE {
  BIND(wd:Q206904 AS ?R)
  ?R p:P348 [
    ps:P348 ?softwareVersion;
    pq:P577 ?publicationDate
  ] .
}"
query_wikidata(sparql_query)
```

```
## Not run:  
query_wikidata(sparql_query, format = "smart")  
  
## End(Not run)
```

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WDQSR-deprecated

*Deprecated functions*

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### **Description**

Why did I have to go and make things so deprecated?

### **Usage**

```
scrape_example(example_name, ...)
```

### **Arguments**

example\_name    the names of the examples as they appear on [this page](#)  
...             ignored (kept for backwards-compatibility)

### **Functions**

- scrape\_example: use [get\\_example](#) instead which employs [WikipediR::page\\_content](#)

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