

Package ‘dtreg’

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Title Interact with Data Type Registries and Create Machine-Readable Data

Version 1.1.2

Description You can load a schema from a DTR (data type registry) as an R object. Use this schema to write your data in JSON-LD (JavaScript Object Notation for Linked Data) format to make it machine readable.

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URL <https://gitlab.com/TIBHannover/lki/knowledge-loom/dtreg-r>

BugReports <https://gitlab.com/TIBHannover/lki/knowledge-loom/dtreg-r/-/issues>

Depends R (>= 4.1.0)

Imports httr2, jsonlite, methods, R6, stringr

Suggests knitr, rmarkdown, sets, stats, testthat (>= 3.0.0)

VignetteBuilder knitr

Config/testthat/edition 3

Encoding UTF-8

RoxygenNote 7.2.3

NeedsCompilation no

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load_datatype	<i>Load classes for a schema with the known identifier</i>
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Description

Load a list of R6 classes for a schema identifier, such as an ePIC datatype DOI or an ORKG template URL. The classes contain information of the requested schema and nested schemata.

Usage

```
load_datatype(datatype_id)
```

Arguments

datatype_id A schema identifier, such as a DOI or a URL

Value

A list of R6 classes

Examples

```
dt <- dtreg::load_datatype("https://doi.org/21.T11969/aff130c76e68ead3862e")
```

show_fields	<i>Show schema fields</i>
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Description

Show which fields of a schema can be used for creating an instance

Usage

```
show_fields(datatype)
```

Arguments

datatype An R6 class from dtreg::load_datatype

Value

A character vector of available fields

Examples

```
dt <- dtreg::load_datatype("https://doi.org/21.T11969/aff130c76e68ead3862e")
dtreg::show_fields(dt$data_item())
```

to_jsonld*Write an instance in JSON-LD format*

Description

Write an instance of a schema-related class in JSON-LD format as a string

Usage

```
to_jsonld(instance)
```

Arguments

`instance` An instance of an R6 class

Value

JSON string in JSON-LD format

Examples

```
dt <- dtreg::load_datatype("https://doi.org/21.T11969/aff130c76e68ead3862e")
instance <- dt$data_item(label = "my_results")
result <- dtreg::to_jsonld(instance)
```

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