

# Package: dtreg (via r-universe)

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

**Version** 1.0.0

**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/orkg/dtreg-r>

**BugReports** <https://gitlab.com/TIBHannover/orkg/dtreg-r/-/issues>

**Imports** htr2, 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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**Config/pak/sysreqs** libicu-dev libssl-dev

**Repository** <https://olgalezhnina.r-universe.dev>

**RemoteUrl** <https://github.com/cran/dtreg>

**RemoteRef** HEAD

**RemoteSha** 391fca7ea68775148c56620223ddd2abe5840577

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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.T11969/1ea0e148d9bbe08335cd")
```

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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.T11969/74bc7748b8cd520908bc")
dtreg::show_fields(dt$inferential_test_output())
```

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to\_jsonld

*Write an instance in JSON-LD format*

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**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.T11969/74bc7748b8cd520908bc")
instance <- dt$inferential_test_output(label = "my_results")
result <- dtreg::to_jsonld(instance)
```

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