

Package ‘jsonld’

October 4, 2024

Type Package

Title JSON for Linking Data

Version 2.2.1

Description JSON-LD <<https://www.w3.org/TR/json-ld/>> is a light-weight syntax for expressing linked data. It is primarily intended for web-based programming environments, interoperable web services and for storing linked data in JSON-based databases. This package provides bindings to the JavaScript library for converting, expanding and compacting JSON-LD documents.

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URL <https://docs.ropensci.org/jsonld/>,
<https://ropensci.r-universe.dev/jsonld>

BugReports <https://github.com/ropensci/jsonld/issues>

Imports V8, jsonlite, curl (>= 2.7)

RoxygenNote 5.0.1.9000

Suggests spelling

Language en-US

NeedsCompilation no

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Description

Wrappers for converting, expanding and compacting JSON-LD documents. All parameters and return values must be JSON strings. Use `jsonlite::toJSON` and `jsonlite::fromJSON` to convert between R objects and JSON format. The [readme](#) has basic examples.

Usage

```
jsonld_compact(doc, context, options = NULL)

jsonld_expand(compacted, options = NULL)

jsonld_flatten(doc, context = NULL, options = NULL)

jsonld_frame(doc, frame, options = NULL)

jsonld_from_rdf(rdf, options = list(format = "application/nquads"))

jsonld_to_rdf(doc, options = list(format = "application/nquads"))

jsonld_normalize(doc, options = list(algorithm = "URDNA2015", format =
  "application/nquads"))
```

Arguments

| | |
|------------------------|---|
| <code>doc</code> | a URL or literal string with JSON-LD document |
| <code>context</code> | a URL or literal string with JSON-LD context |
| <code>options</code> | named list with advanced options |
| <code>compacted</code> | a URL or literal string with JSON message |
| <code>frame</code> | a URL or literal string with JSON-LD frame |
| <code>rdf</code> | string with RDF text |

Examples

```
# Example from https://github.com/digitalbazaar/jsonld.js#quick-examples
doc <- '{
  "http://schema.org/name": "Manu Sporny",
  "http://schema.org/url": {"@id": "http://manu.sporny.org/"},
  "http://schema.org/image": {"@id": "http://manu.sporny.org/images/manu.png"}
}'

context <- '{
  "name": "http://schema.org/name",
```

```
"homepage": {"@id": "http://schema.org/url", "@type": "@id"},  
"image": {"@id": "http://schema.org/image", "@type": "@id"}  
'}
```

```
# Compact and expand:  
(out <- jsonld_compact(doc, context))  
(expanded <- jsonld_expand(out))
```

```
# Convert between JSON and RDF:  
cat(nquads <- jsonld_to_rdf(doc))  
jsonld_from_rdf(nquads)
```

```
# Other utilities:  
jsonld_flatten(doc)  
cat(jsonld_normalize(doc))
```

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