

# Package ‘jsonld’

October 13, 2022

**Type** Package

**Title** JSON for Linking Data

**Version** 2.2

**Description** 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://github.com/ropensci/jsonld#readme> (devel)  
<https://www.w3.org/TR/json-ld> (spec)

**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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**Repository** CRAN

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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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