

Specifications and Notes

JSON-LD 1.1	<u>https://www.w3.org/TR/json-ld11/</u>
JSON-LD 1.1 API	<u>https://www.w3.org/TR/json-ld11-api/</u>
JSON-LD 1.1 Framing	<u>https://www.w3.org/TR/json-ld11-framing/</u>
Streaming JSON-LD	<u>https://www.w3.org/TR/json-ld11-streaming/</u>
Best Practices	<u>https://w3c.github.io/json-ld-bp/</u>
CBOR-LD	<u>https://w3c.github.io/json-ld-cbor/</u>

Core Algorithms

- Expand – Apply a context to create a document with fully expanded IRIs and values.
- Compact – Use a context to replace IRIs with terms and represent values as strings, where possible.
- Flatten – Remove internal embedding by introducing blank nodes to relate node objects with each other.
- To RDF – Transform JSON-LD to the RDF Abstract Syntax
- From RDF – Transform from the RDF Abstract Syntax into expanded JSON-LD.
- Frame – Apply a *frame document* to structure (and compact) a flattened JSON-LD document using object embedding and filtering.

```
[{
  "@type": ["http://schema.org/Person"],
  "http://schema.org/colleagues": [
    {"@id": "http://www.xyz.edu/students/alicejones.html"},
    {"@id": "http://www.xyz.edu/students/bobsmith.html"}
  ],
  "http://schema.org/image": [{
    "@id": "http://localhost:9393/examples/schema.org/janedoe.jpg"
  }],
  "http://schema.org/name": [{"@value": "Jane Doe"}],
  "http://schema.org/url": [{"@id": "http://www.janedoe.com"}]
}]
```

@prefix schema: <http://schema.org/> .

```
[
  a schema:Person;
  schema:colleagues <http://www.xyz.edu/students/alicejones.html>,
    <http://www.xyz.edu/students/bobsmith.html>;
  schema:image <http://localhost:9393/examples/schema.org/janedoe.jpg>;
  schema:name "Jane Doe";
  schema:url <http://www.janedoe.com>
] .
```