Reasoning in JSON-LD?

- Leverage use of anonymously named graphs to do implication (log:implies).
 - Requires a way to identify universal quantifiers (existential quantifiers simply blank nodes)

Notation3

```
@forAll :x, :y.
:Julie :parent :Suzie .
                                                       :Julie :parent :Suzie .
                                                       \{ ?x parent ?y \} => \{ ?y :child ?x \}.
{ :x :parent :y } => { :y :child :x }.
  "@context": {
    "@base": "http://example.com/",
    "@vocab": "http://example.com/",
    "=>": {"@id": "http://www.w3.org/2000/10/swap/log#implies", "@container": "@graph"},
    "?x": {"@type": "@univar"},
                                              Note @univar is totally hypothetical
    "?v": {"@type": "@univar"}
  "@graph": [
    {"@id": "Julie", "parent": {"@id": "Suzie"}},
      "@graph": {"@id": "?x", "parent": "?y"},
      "=>": {"@id": "?y", "child": "?x"}
                                              Note hand waiving on how "?y" is expanded
```

JSON-LD 1.1

- It's been over three years since JSON-LD 1.0 was published, and feature requests have been mounting:
 - 36 issues addressed since 1.0 (15 still open)
 - Use objects to index into collections, rather than only array form
 - Previously restricted to @index and @language. Now available on @id and @type.
 - Can include @set with other container types (e.g.: "@container": ["@set", "@language"]).
 - Framing, never complete in 1.0. Now provides ability to match on @id, inclusive or exclusive @type, property values, and specifics of a value object. Supports framing of datasets, not just graphs.
 - Contexts scoped to terms: property values or entities using a given type term can overlay terms-specific contexts.
 - Ignore some elements of JSON structure.
 - Abstract from JSON-itself, allowing for <u>YAML</u>, <u>CBOR</u> and other LD representations.