

# Extended YAML-LD

## YAML Representation Graph

```
%YAML 1.2
%TAG !xsd! http://www.w3.org/2001/XMLSchema#
---
"@context":
  "@vocab": http://xmlns.com/foaf/0.1/
name: !xsd:string Gregg Kellogg
homepage: https://greggkellogg.net/
depiction: http://www.gravatar.com/avatar/42f948...
date: !xsd:date "2022-09-12"
```

```
Document (implicit end) %TAG(! http://www.w3.org/2001/XMLSchema#) version 1.2 [
[0] Mapping (implicit) BLOCK {
  Scalar DOUBLE_QUOTED (quoted) "@context" => Mapping (implicit) BLOCK {
    Scalar DOUBLE_QUOTED (quoted) "@vocab" =>
      Scalar PLAIN (plain) "http://xmlns.com/foaf/0.1/"
  },
  Scalar PLAIN (plain) "name" =>
    Scalar !<http://www.w3.org/2001/XMLSchema#string> PLAIN "Gregg Kellogg",
  Scalar PLAIN (plain) "homepage" =>
    Scalar PLAIN (plain) "https://greggkellogg.net/",
  Scalar PLAIN (plain) "depiction" =>
    Scalar PLAIN (plain) "http://www.gravatar.com/avatar/
42f948adff3afaa52249d963117af7c8",
  Scalar PLAIN (plain) "date" =>
    Scalar !<http://www.w3.org/2001/XMLSchema#date> DOUBLE_QUOTED "2022-08-08"
}
]
```

# Representing Extended YAML-LD

## Mapping to JSON-LD Internal Representation

```
{
  "@context": {
    "@vocab": "http://xmlns.com/foaf/0.1/"
  },
  "name": {
    "@value": "Gregg Kellogg",
    "@type": "http://www.w3.org/2001/XMLSchema#string"
  },
  "homepage": "https://greggkellogg.net/",
  "depiction": "http://www.gravatar.com/avatar/42f948adff3afaa52249d963117af7c8",
  "date": {
    "@value": "2022-08-08",
    "@type": "http://www.w3.org/2001/XMLSchema#date"
  }
}
```

- Advantages:
  - Direct intuitive translation of datatypes
- Disadvantages:
  - Requires re-compaction to take advantage of context term definitions.
  - Does not serialize JSON-LD to extended YAML-LD without recursively interpreting scoped and embedded contexts.