

- Make full use of JSON syntactic representations
 - Object defines a node definition

```
{
```

```
  "@context": "http://json-ld.org/contexts/person",
```

```
  "@id": "https://greggkellogg.net/foaf#me",
```

```
  "@type": "Person",
```

```
  "name": "Gregg Kellogg",
```

```
  "knows": "https://www.markus-lanthaler.com/"
```

```
}
```

- Also used for node reference and value objects

```
{ "@id": "https://greggkelllogg.net/foaf#me" }
```

- Arrays describe sets of unordered values
 - Single values can skip array

```
{
  "@type": "Recipe",
  "name": "Mom's World Famous Banana Bread",
  "ingredients": [
    "3 or 4 ripe bananas, smashed",
    "1 egg",
    "3/4 cup of sugar"
  ],
  "nutrition": [{
    "@type": ["NutritionInformation"],
    "calories": ["240 calories"],
    "fatContent": ["9 grams fat"]
  }]
}
```

Objects in JSON-LD

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- Arrays describe sets of unordered values
 - Single values can skip array

```
{  
  "@context": "http://json-ld.org/contexts/person",  
  "@id": "https://greggkellogg.net/foaf#me",  
  "@type": "Person",  
  "name": "Gregg Kellogg",  
  "knows": "https://www.markus-lanthaler.com/"  
}
```

```
{ "@id": "https://greggkellogg.net/foaf#me" }
```

```
{  
  "@type": "Recipe",  
  "name": "Mom's World Famous Banana Bread",  
  "ingredients": [  
    "3 or 4 ripe bananas, smashed",  
    "1 egg",  
    "3/4 cup of sugar"  
  ],  
  "nutrition": [{  
    "@type": "NutritionInformation",  
    "calories": ["240 calories"],  
    "fatContent": ["9 grams fat"]  
  }]  
}
```

Working with data

Expand documents to remove effect of **@context**.

```
{
  "@context": "http://drupal.example.org/
context.jsonld",
  "@id": "http://directory.occupy.net/occupation/al/
occupy-prishtina",
  "@type": ["ows:Occupation",
"schema:Organization"],
  "foaf:name": "Occupy Prishtina",
  "schema:name": "Occupy Prishtina",
  "dc:date": "2012-02-12T21:18:08-05:00",
  "dc:created": "2012-02-12T21:18:08-05:00",
  "dc:modified": "2012-02-12T21:57:52-05:00",
  "sioc:num_replies": 0,
  "schema:foundingDate":
"2011-10-15T00:00:00-04:00",
  "ows:twitter_account": "@OccupyPrishtina",
  "foaf:mbox": "",
  "schema:telephone": "",
  "foaf:phone": ""
}
```



```
[{
  "@id": "http://directory.occupy.net/occupation/al/occupy-prishtina",
  "@type": ["http://vocab.occupy.net/ows#Occupation", "http://
schema.org/Organization"],
  "http://purl.org/dc/terms/created": [{
    "@type": "http://www.w3.org/2001/XMLSchema#dateTime",
    "@value": "2012-02-12T21:18:08-05:00"
  }],
  "http://purl.org/dc/terms/date": [{
    "@type": "http://www.w3.org/2001/XMLSchema#dateTime",
    "@value": "2012-02-12T21:18:08-05:00"
  }],
  "http://purl.org/dc/terms/modified": [{
    "@type": "http://www.w3.org/2001/XMLSchema#dateTime",
    "@value": "2012-02-12T21:57:52-05:00"
  }],
  "http://rdfs.org/sioc/ns#num_replies": [{
    "@type": "http://www.w3.org/2001/XMLSchema#integer",
    "@value": "0"
  }],
  "http://schema.org/foundingDate": [{
    "@type": "http://www.w3.org/2001/XMLSchema#date",
    "@value": "2011-10-15T00:00:00-04:00"
  }],
  "http://schema.org/name": ["Occupy Prishtina"],
  "http://schema.org/telephone": [""],
  "http://vocab.occupy.net/ows#twitter_account": ["@OccupyPrishtina"],
  "http://xmlns.com/foaf/0.1/mbox": [""],
  "http://xmlns.com/foaf/0.1/name": ["Occupy Prishtina"],
  "http://xmlns.com/foaf/0.1/phone": [""],
}]
```