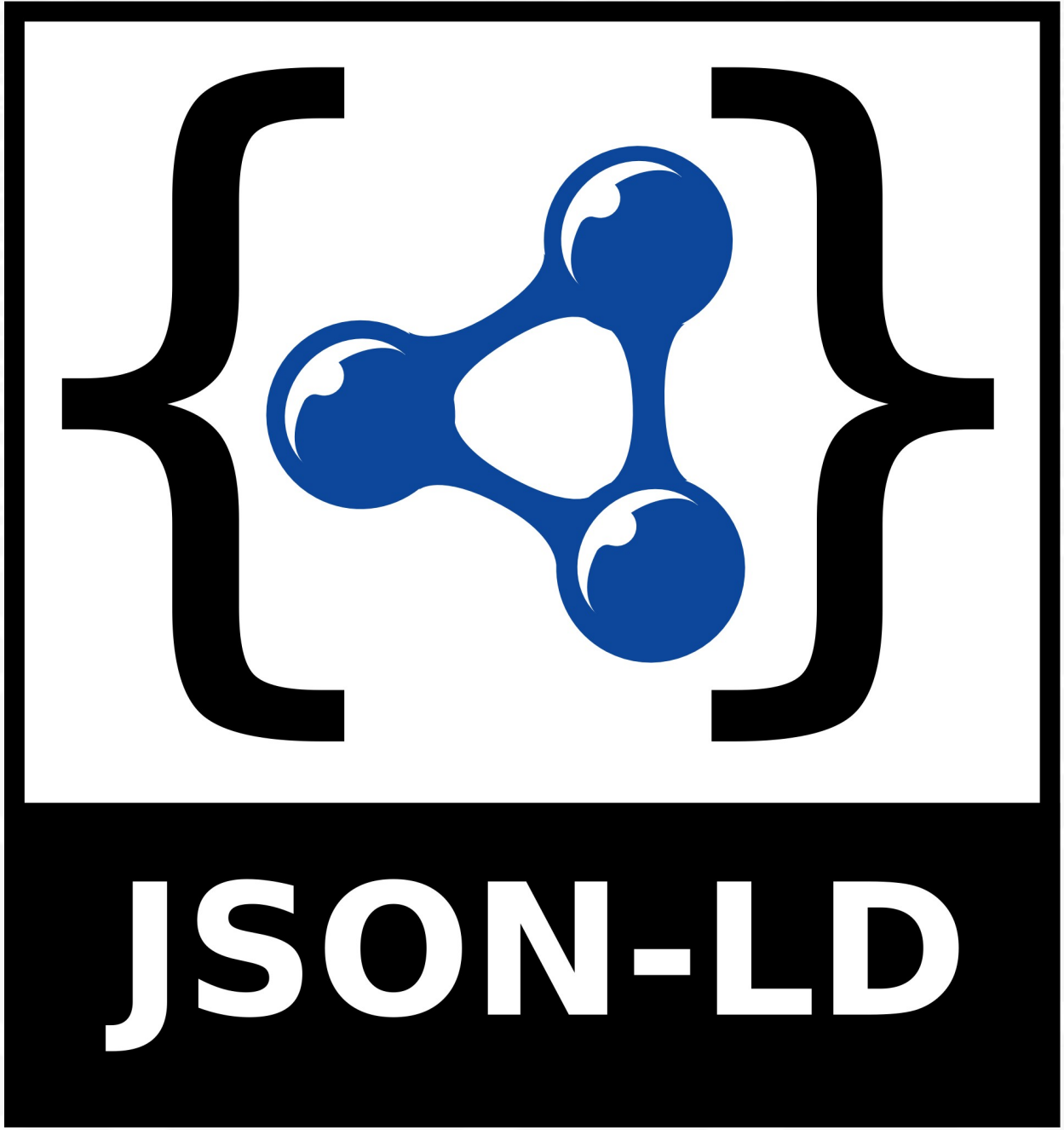

Aurelijus Banelis

Auginte

JSON-LD is W3C standard

W3C Recommendation

JSON-LD 1.0

A JSON-based Serialization for Linked Data

W3C Recommendation 16 January 2014

This version:
http://www.w3.org/TR/2014/REC-json-ld-20140116/
Latest published version:
http://www.w3.org/TR/json-ld/
Previous version:
http://www.w3.org/TR/2013/PR-json-ld-20131105/
Editors:
Manu Sporny, Digital Bazaar
Gregg Kellogg, Kellogg Associates
Markus Lanthaler, Graz University of Technology
Authors:
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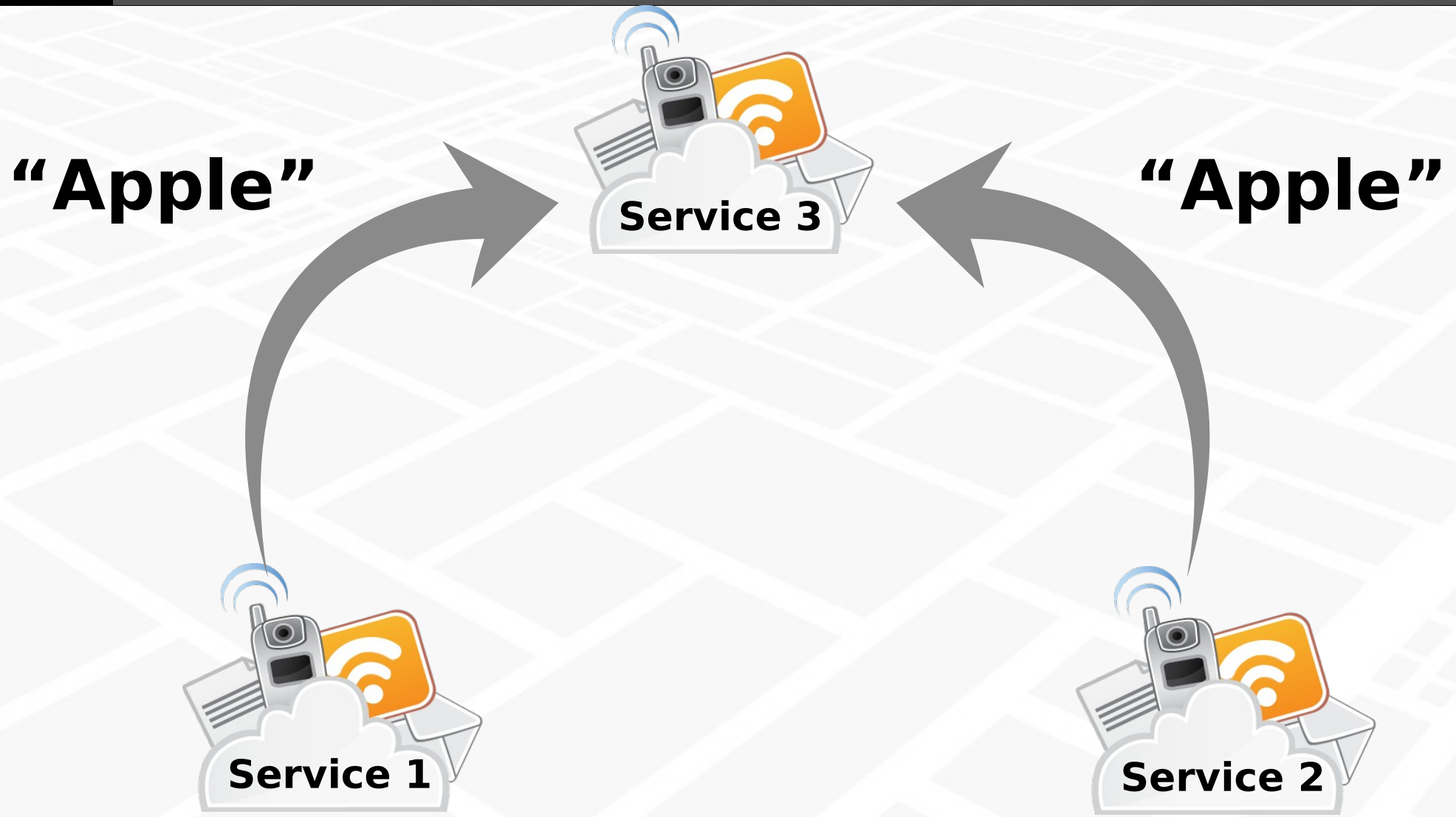
Gregg Kellogg, Kellogg Associates
Markus Lanthaler, Graz University of Technology
Niklas Lindström

Examples

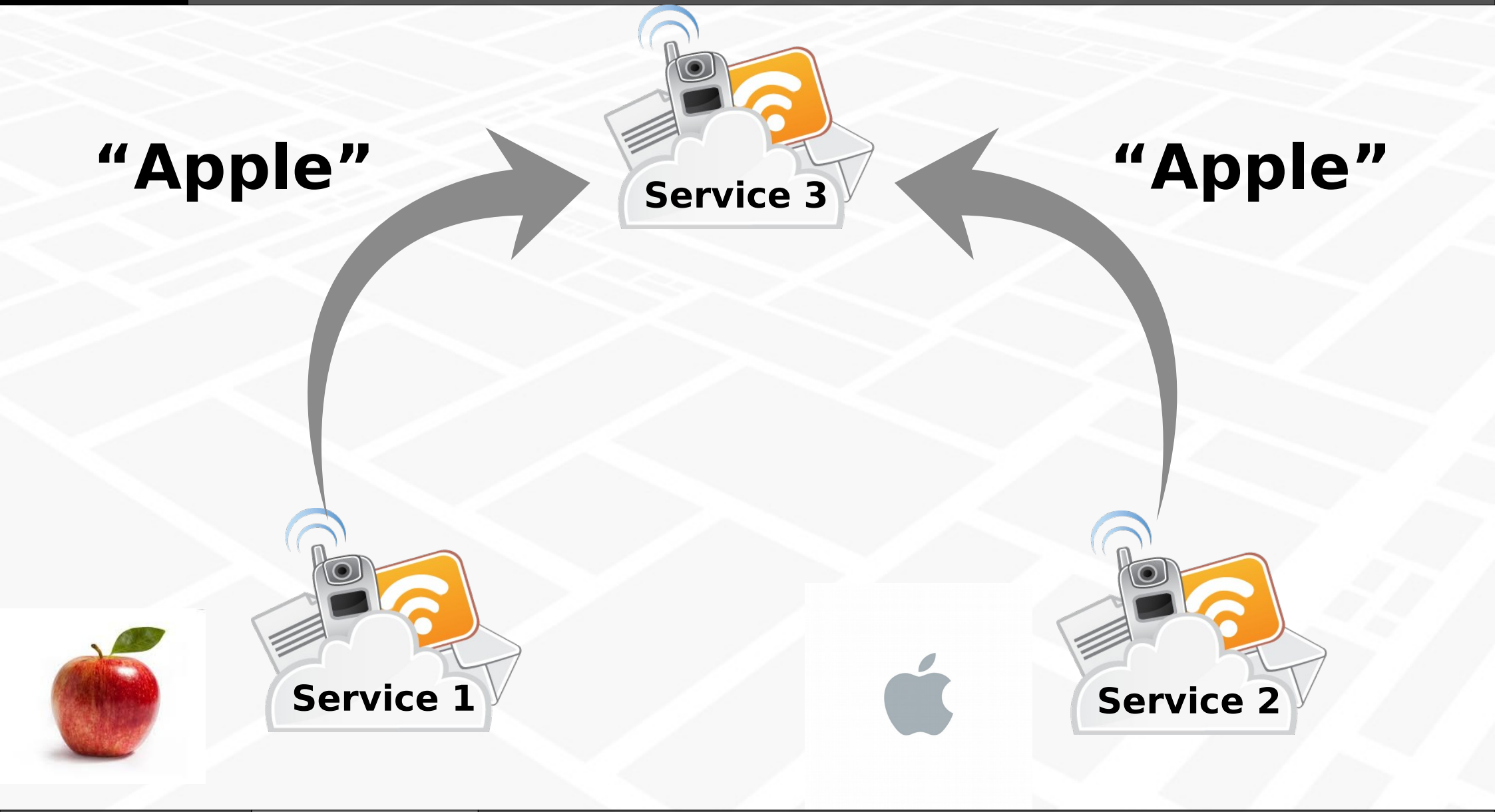
Specification

solves naming problem

solves naming problem



solves naming problem



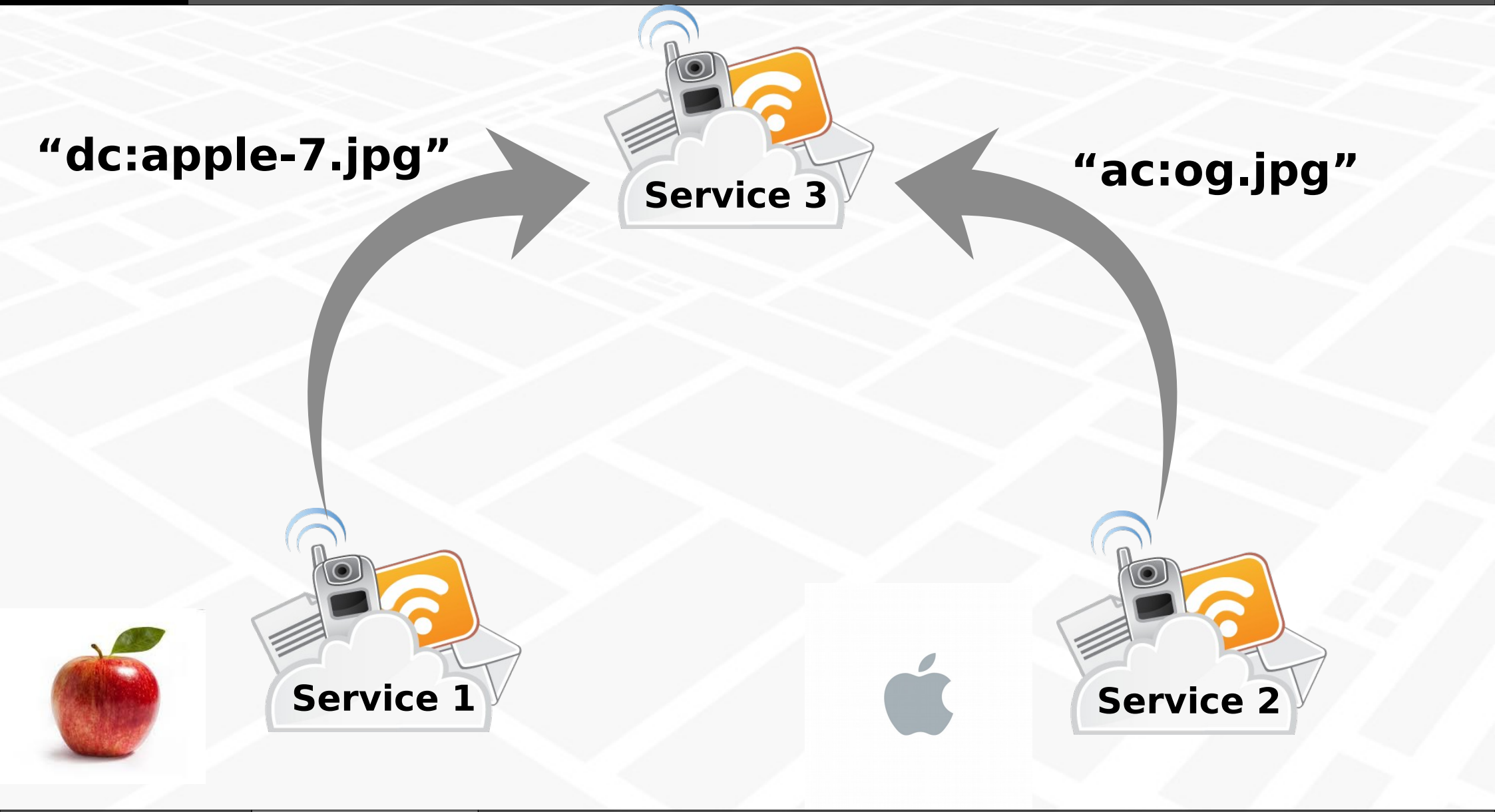
solves naming problem

JSON-LD

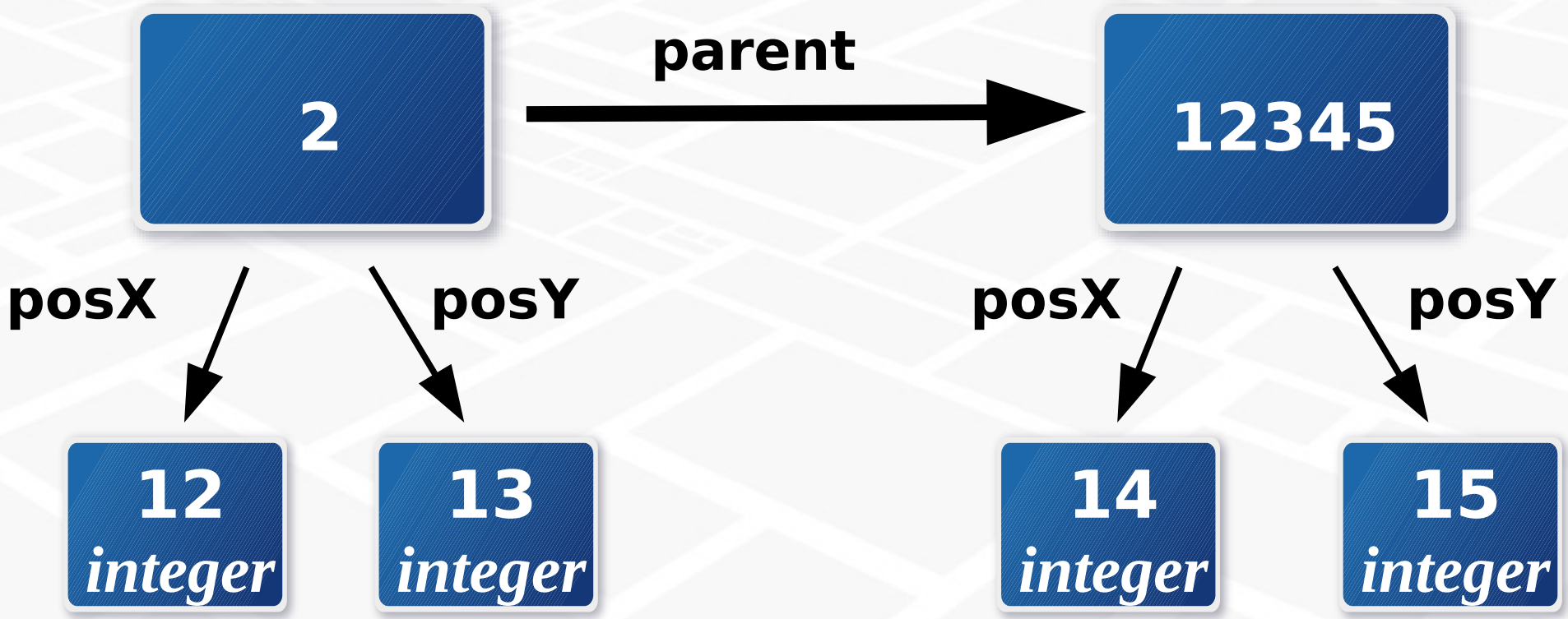
“http://
dreamatico.com/
data_images/
Apple/
apple-7.jpg”

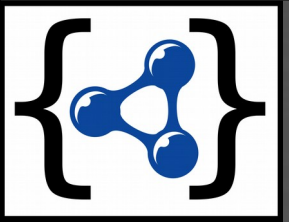
“https://
www.apple.com/
v/home/
bq/images/
og.jpg”

solves naming problem



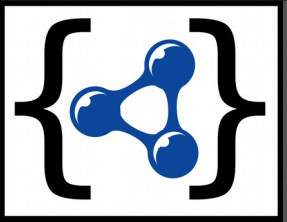
Linked data example





From simple JSON

```
{
  "nodes": [
    {
      "id": "12345",
      "posX": 12,
      "posY": 14,
      "parent": null
    },
    {
      "id": "2",
      "posX": 15,
      "posY": 16,
      "parent": "12345"
    }
  ]
}
```



To JSON-LD

```
{
  "@context": "http://auginte.com/ns/s.jsonld",
  "nodes": [
    {
      "@id": "gn:12345",
      "posX": 12,
      "posY": 14,
      "parent": null
    },
    {
      "@id": "gn:2",
      "posX": 15,
      "posY": 16,
      "parent": "gn:12345"
    }
  ]
}
```

gn:

@id

@context

For computer

JSON-LD

```
[{"http://auginte.com/ns/v0.6/node/list": [
      {"@id": "auginte://localhost/zooming/nodes/12345",
       "http://auginte.com/ns/v0.6/node/x": [
          {"@type": "http://www.w3.org/2001/XMLSchema#integer",
           "@value": 12}],
       "http://auginte.com/ns/v0.6/node/y": [
          {"@type": "http://www.w3.org/2001/XMLSchema#integer",
           "@value": 14
          }]
       },
       {"@id": "auginte://localhost/zooming/nodes/2",
        "http://auginte.com/ns/v0.6/reference/node/parent": [
          {"@id": "auginte://localhost/zooming/nodes/12345"}],
        "http://auginte.com/ns/v0.6/node/x": [
          {"@type": "http://www.w3.org/2001/XMLSchema#integer",
           "@value": 15}],
        "http://auginte.com/ns/v0.6/node/y": [
          {"@type": "http://www.w3.org/2001/XMLSchema#integer",
           "@value": 16
          } ]
}]}]
```

key

value

type

http://json-ld.org/playground/index.html
https://github.com/aurelijusb/example-jsonld-php/

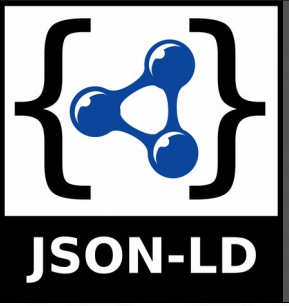
Why and where (not) to use

*Personal opinion

JSON-LD

✓	**Learn**	JSON-LD Playground	
✓	**PHP**	Libraries	
✓	**Semantinc WEB**	RDF compatible	
✓	**SEO**	As microdata (not all)	

2nd fetch for context	**REST**	✗
OrientDB export JSON	**Storage**	✗
Scala.js Prickle	**Frontend Backend**	✗
Protobuf Thrift	**Cross language**	✗



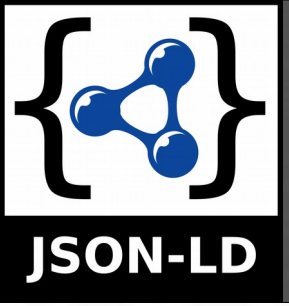
Conclusion

Do not reinvent the wheel

Use santanrds

For right job

There is no one-fits-all solution



Questions?

Do not reinvent the wheel

Use santanrds

For right job

There is no one-fits-all solution

Slides already at: aurelijus.banelis.lt

References and useful links

- http://json-ld.org/
- https://github.com/aurelijusb/example-jsonld-php/
- https://github.com/lanthaler/JsonLD
- http://www.w3.org/TR/json-ld/
- https://developers.google.com/webmasters/business-location-pages/schema.org-examples
- https://schema.org
- https://developers.google.com/structured-data/testing-tool/
- https://github.com/json-ld/json-ld.org/wiki/Users-of-JSON-LD
- http://www.markus-lanthaler.com/hydra/
-