

# DNS in JSON

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# Reminder

- RFC 1034, 1035 and many others
- RFC 4627
- `draft-bortzmeyer-dns-json-01`

# Big questions

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2. **Bikeshed warning** If yes, JSON, XML, other?

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4. Representation of unknown RR types?
5. Representation of binary data? Base64 in a string?

## RRsets or not?

```
"AnswerSection": [  
  {"Name": "facebook.com", "TTL": 6666, "Type": "AAAA",  
   "Address": "2a03:2880:10:8f01:face:b00c::25"},  
  {"Name": "facebook.com", "TTL": 6666, "Type": "AAAA",  
   "Address": "2a03:2880:2110:3f01:face:b00c::"},  
  ...
```

**Or:**

```
"AnswerSection": [  
  {"Name": "facebook.com", "TTL": 6666, "Type": "AAAA",  
   [  
     {"Address": "2a03:2880:10:8f01:face:b00c::25"},  
     {"Address": "2a03:2880:2110:3f01:face:b00c::"},  
   ]  
  ...
```

Warning: JSON arrays have an order (not the DNS)

## Unknown RRs

```
"AnswerSection": [  
  {"Name": "a.example", "Type": "TYPE731",  
    "Data": "XXXXXX"}  
  ...  
]
```

No need for an explicit length in JSON

# Binary

No better way in JSON than:

```
{"Name": "signed.example", "Type": "DNSKEY",  
  "Key": "AwEAAyz/bZVFyefKTiBBF..." ...}
```

Explicitly mark fields with Base64? No tagging in JSON, so tag in the name of the field?