CBOR and CDDL

- RFC 7049 Concise Binary Object Representation (CBOR) for JSON data model and more: http://cbor.io
- Takeup within IETF is increasing. How to write specs?
- CDDL: CBOR Data Definition Language https://tools.ietf.org/ html/draft-greevenbosch-appsawg-cbor-cddl-05
 - The best of Relax-NG, JSON Content Rules
 - Rough tool available: gem install cddl
 - Generate example instances (CBOR or JSON)
 - Check instances against the definition

How RFC 7071 would have looked like in CDDL

```
reputation-object = {
                              ; This is a map (JSON object)
                              ; text string (vs. binary)
 application: tstr
 reputons: [* reputon]
                              ; Array of 0-∞ reputons
reputon = {
                              ; Another map (JSON object)
 rater: tstr
 assertion: tstr
 rated: tstr
 rating: float16
                              ; OK, float16 is a CBORism
 ? confidence: float16
                              ; optional...
 ? normal-rating: float16
 ? sample-size: uint
                              ; unsigned integer
 ? generated: uint
 ? expires: uint
 * tstr => any
                              ; 0-∞, express extensibility
```