Shape Expressions (ShEx)

- ShEx [7] is used for validating graph patterns, similar to, but less complex then SHACL.
 - JSON grammar is JSON-LD/RDF. Also has Compact Grammar.

```
{ "type": "Schema", "shapes": [{
    "id": "http://schema.example/PersonShape",
    "type": "Shape", "expression": {
   "type": "TripleConstraint",
       "predicate": "http://xmlns.com/foaf/0.1/
name"
    "id": "http://schema.example/EmployeeShape":,
    "type": "Shape", "expression": {
    "type": "EachOf", "shapeExprs": [
         "http://schema.example/PersonShape",
         { "type": "TripleConstraint",
           "predicate": "http://schema.example/
employeeNumber" }
ex:PersonShape {
  foaf:name .
ex:EmployeeShape {
  &ex:PersonShape ;
  ex:employeeNumber .
```

Decentralized Identifiers

- The WebDHT [8] proposes to use the block-chain for as an identifier space with immutable content in the block chain.
 - Content is a JSON-LD document, so may be used as the target of a @context.
 - Content will not change, so may be cached or distributed out-of-band.
 - Content signed to guarantee veracity.