

Proposal for JSON Schema Requirements

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Schema requirements, not a schema proposal

- Schema languages are an attractive nuisance
- Hitting the 80/20 or 90/10 point on requirements could lead to a much more usable schema language

Design goals

- Schemas can cover just structure, or both structure and content value restrictions
- Schemas can be used by applications to test validity, and in protocol definition to describe the structural and conditional rules
- The schema language should have features that make it easy to read by humans, such as comments and named parts that can be reused later in the schema

Examples of structural validation

- Arrays
 - An element at a particular position must be of a given type of value
 - At the final position, there are zero or more repeated elements of a given type of value
 - At the final position, there are zero or more repeated element groups
- Objects
 - The value of a particular key must be of a given type of value

Examples of conditional content values

- A string must be one of a given list of values
- A number must be in given range
- A number must be in a particular list of values
- An object must have a given key present

Next steps

- See if the WG wants to deal with schema requirements
- If so, write them down
- Use that as the basis for a schema format