

Simpler is Better:

JDT as a New Schema Language for JSON Documents

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Instead of **Defining a JSON Schema** ... you can use **JSON Document Type (JDT)**

```
{
  "type": "object",
  "properties": {
    "id": {
      "type": "number",
      "nullable": false
    },
    "name": {
      "not": {
        "type": "boolean"
      }
    },
    "age": {
      "type": ["number", "null"]
    },
    "hobbies": {
      "type": "array",
      "items": {
        "type": "string"
      }
    },
    "eyecolor": {
      "type": "string",
      "enum": ["blue", "green", "brown"]
    }
  },
  "required": ["id", "name", "hobbies"],
  "additionalProperties": false
}
```

IDENTICAL

is type object

user:

is closed

id is number, required, not null

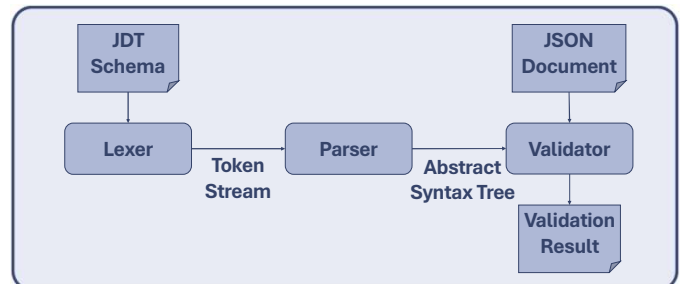
name is required, not boolean

age is optional, (number or null)

hobbies is array(string), required

eyecolor is "blue" or "green" or "brown"

Validation Process



JDT Editor and Validator available



JDT Schema Validator
Validate JSON files against JDT schemas

JDT Schema JSON File

JDT Schema: is type object, user: is closed, id is number, required, not null, name is required, not boolean, age is optional, (number or null), hobbies is array(string), required, eyecolor is "blue" or "green" or "brown"

JSON File: { "user": { "id": 1, "name": "Jane Doe", "age": 28, "hobbies": ["reading", "coding", "hiking"], "eyecolor": "blue" }, }

Key Design Criteria of JDT

- Very intuitive, yet expressive language
- Features for defining structural constraints
- Simplicity of the syntax
- Similarities to the English language

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Tool Link:

