

# Package ‘jsonvalidate’

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**Title** Validate 'JSON'

**Version** 1.1.0

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**Description** Uses the node library 'is-my-json-valid' or 'ajv' to validate 'JSON' against a 'JSON' schema. Drafts 04, 06 and 07 of 'JSON' schema are supported.

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**LazyData** true

**URL** <https://github.com/ropensci/jsonvalidate>

**BugReports** <https://github.com/ropensci/jsonvalidate/issues>

**Imports** V8

**Suggests** knitr, rmarkdown, testthat

**RoxygenNote** 6.1.1

**VignetteBuilder** knitr

**Encoding** UTF-8

**NeedsCompilation** no

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**Repository** CRAN

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 json\_validate

 Validate a json file
 

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## Description

Validate a single json against a schema. This is a convenience wrapper around `json_validator(schema)(json)`

## Usage

```
json_validate(json, schema, verbose = FALSE, greedy = FALSE,
  error = FALSE, engine = "imjv")
```

## Arguments

json	Contents of a json object, or a filename containing one.
schema	Contents of the json schema, or a filename containing a schema.
verbose	Be verbose? If TRUE, then an attribute "errors" will list validation failures as a data.frame
greedy	Continue after the first error?
error	Throw an error on parse failure? If TRUE, then the function returns NULL on success (i.e., call only for the side-effect of an error on failure, like <code>stopifnot</code> ).
engine	Specify the validation engine to use. Options are "imjv" (the default; which uses "is-my-json-valid") and "ajv" (Another JSON Schema Validator). The latter supports more recent json schema features.

## Examples

```
# A simple schema example:
schema <- '{
  "$schema": "http://json-schema.org/draft-04/schema#",
  "title": "Product",
  "description": "A product from Acme\'s catalog",
  "type": "object",
  "properties": {
    "id": {
      "description": "The unique identifier for a product",
      "type": "integer"
    },
    "name": {
      "description": "Name of the product",
      "type": "string"
    },
    "price": {
      "type": "number",
      "minimum": 0,
      "exclusiveMinimum": true
    }
  }
}
```

```

      "tags": {
        "type": "array",
        "items": {
          "type": "string"
        },
        "minItems": 1,
        "uniqueItems": true
      }
    },
    "required": ["id", "name", "price"]
  }'

# Test if some (invalid) json conforms to the schema
jsonvalidate::json_validate("{}" , schema, verbose = TRUE)

# Test if some (valid) json conforms to the schema
jsonvalidate::json_validate('{
  "id": 1,
  "name": "A green door",
  "price": 12.50,
  "tags": ["home", "green"]
}', schema)

```

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 json\_validator

*Create a json validator*


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## Description

Create a validator that can validate multiple json files.

## Usage

```
json_validator(schema, engine = "imjv")
```

## Arguments

schema	Contents of the json schema, or a filename containing a schema.
engine	Specify the validation engine to use. Options are "imjv" (the default; which uses "is-my-json-valid") and "ajv" (Another JSON Schema Validator). The latter supports more recent json schema features.

## Examples

```

# A simple schema example:
schema <- '{
  "$schema": "http://json-schema.org/draft-04/schema#",
  "title": "Product",
  "description": "A product from Acme\'s catalog",
  "type": "object",

```

```

    "properties": {
      "id": {
        "description": "The unique identifier for a product",
        "type": "integer"
      },
      "name": {
        "description": "Name of the product",
        "type": "string"
      },
      "price": {
        "type": "number",
        "minimum": 0,
        "exclusiveMinimum": true
      },
      "tags": {
        "type": "array",
        "items": {
          "type": "string"
        },
        "minItems": 1,
        "uniqueItems": true
      }
    },
    "required": ["id", "name", "price"]
  },
]'
```

```

# Create a validator function
v <- jsonvalidate::json_validator(schema)

# Test if some (invalid) json conforms to the schema
v("{}" , verbose = TRUE)

# Test if some (valid) json conforms to the schema
v('{
  "id": 1,
  "name": "A green door",
  "price": 12.50,
  "tags": ["home", "green"]
}')

# Using features from draft-06 or draft-07 requires the ajv engine:
schema <- "{
  '$schema': 'http://json-schema.org/draft-06/schema#',
  'type': 'object',
  'properties': {
    'a': {
      'const': 'foo'
    }
  }
}"

# Create the validator
v <- jsonvalidate::json_validator(schema, engine = "ajv")
```

```
# This confirms to the schema
v({'a': "foo"})

# But this does not
v({'a': "bar"})
```

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