



f(seed, data)

$$f_2 = f_1(seed)$$

$$f_2(data)$$

An oversimplified example

```
function doMath (a, b) {
  // ...do stuff with a...
  return a + b
}
```

An oversimplified example

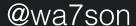
```
function doMath (a, b) {
  // ...do stuff with a...
  return a + b
function prepareMath (a) {
  // ...do stuff with a...
  return function doMath (b) {
    return a + b
```

An oversimplified example

```
function doMath (a, b) {
  // ...do stuff with a...
  return a + b
function prepareMath (a) {
  // ...do stuff with a...
  return function doMath (b) {
    return a + b
function prepareMath (a) {
  // ...do stuff with a...
  var src = 'return ' + a + ' + b'
  return new Function ('b', src)
```

Regular Expressions

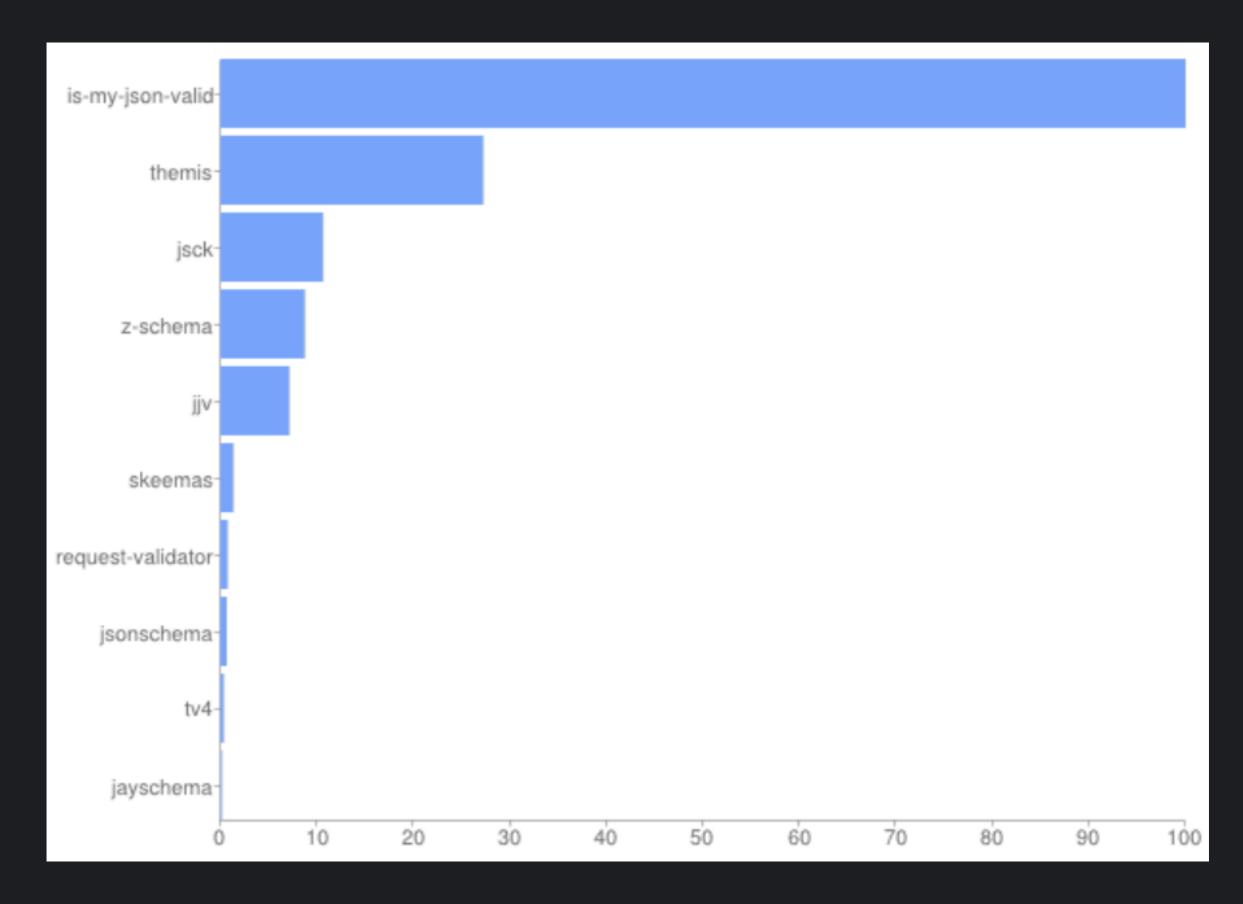
```
var r = new RegExp('foo(bar)?')
r.test('foo')
```



discialmer

github.com/ mafintosh/ is-my-json-valid

```
var validator = require('is-my-json-valid')
var validate = validator({
  required: true,
  type: 'object',
  properties: {
    hello: {
      required: true,
      type: 'string'
console.log('should be valid', validate({hello: 'world'}))
console.log('should not be valid', validate({}))
```





Let's write a query language interpreter

mongodb query language

```
{
  foo: {
    $gt: 42,
    $lt: 100
  }
}
```

JSON Schema

```
type: 'object',
properties: {
  aProperty: {
    type: 'string'
```

Our language

```
{
    $eq: value,
    $gt: value,
    $lt: value,
    $not: {...} // negate this expression
}
```



github.com / mafintosh / generate-object-property

```
var gen = require('generate-object-property')
console.log(gen('a','b')) // => a.b
console.log(gen('a', 'foo-bar')) // => a["foo-bar"]
```

github.com/ mafintosh/ generate-function

```
var genfun = require('generate-function')
var addNumber = function(val) {
  var fn = genfun()
    ('function add(n) {')
      ('return n + %d', val) // supports format strings
    ('}')
  return fn.toFunction() // will compile the function
var add2 = addNumber(2)
console.log('1+2=', add2(1))
console.log(add2.toString()) // logs generated function
```

