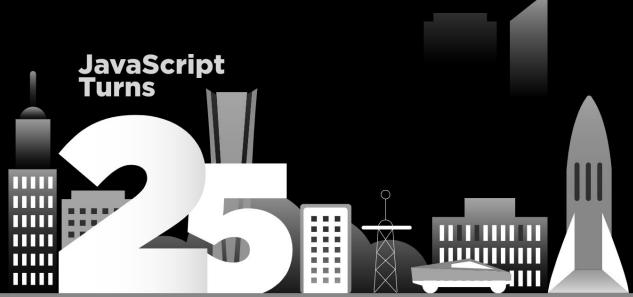
meta-paradigm

with JavaScript



Angular 9.0.0 with Ivy

Deno 1.0 released

Deno finally sees the light of day with its first public release. It's still not clear whether it's going to become the next big thing but the hopes are high.

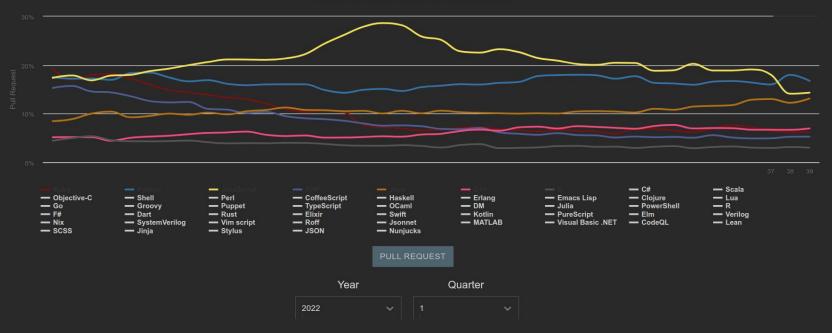
JavaScript makes it into space

The SpaceX Dragon launch brings
JavaScript to space! The Dragon 2 flight
interface was built using Chromium
and JavaScript along with C++ for flight





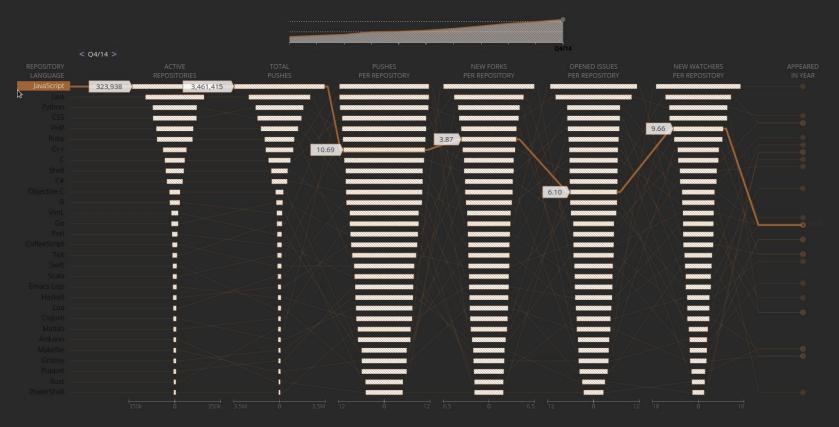
A SMALL PLACE TO DISCOVER LANGUAGES IN GITHUB



# Ranking	Programming Language	Percentage (YoY Change)	YoY Trend
	Python	16.689% (+0.061%)	^
2	JavaScript	14.270% (-4.486%)	~
3	Java	13.075% (+1.394%)	
4	TypeScript	9.105% (+2.501%)	^







TOP ACTIVE LANGUAGES
A split by language view of active repositories



```
class FirstClass extends BaseClass {
 constructor() {
   super();
   this.myField = mySpecialField;
```

```
class SecondClass extends BaseClass {
 constructor() {
   super();
   this.myField = mySpecialField;
```

```
const firstInstance = new FirstClass();
const secondInstance = new SecondClass();
firstInstance.myField = 're-assigned value';
// will print \rightarrow 're-assigned value'
console.log(secondInstance.myField);
```

```
'use strict';
const { BaseClass } = require('typeomatica');
const { mySpecialField } = require('./code/fields');
```

demø

intro

Programming paradigm

From Wikipedia, the free encyclopedia

This article is about classification of programming languages. For definition of the term "programming model", see *Programming model*.

Programming paradigms are a way to classify programming languages based on their features. Languages can be classified into multiple paradigms.

Some paradigms are concerned mainly with implications for the execution model of the language, such as allowing side effects, or whether the sequence of operations is defined by the execution model. Other paradigms are concerned mainly with the way that code is organized, such as grouping a code into units along with the state that is modified by the code. Yet others are concerned mainly with the style of syntax and grammar.

Common programming paradigms include: [1][2][3]

Programming paradigms

- Action
- Array-oriented
- Automata-based
- Concurrent computing
 - Actor-based
 - Choreographic programming
 - Multitier programming
 - Relativistic programming
 - Structured concurrency
- Data-driven
- Declarative (contrast: Imperative)

The Magic of Prototype Inheritance

Strict Types in JavaScript

hitchhiker's guide

Multiplie Inheritance in JavaScript

intrø

Next »

References > JavaScript > JavaScript Guide > Meta programming



Related Topics

JavaScript

Tutorials:

- ► Complete beginners
- ▶ JavaScript Guide
- ▶ Intermediate
- ▶ Advanced

References:

- ▶ Built-in objects
- ► Expressions & operators
- ▶ Statements & declarations
- ▶ Functions
- ▶ Classes

Meta programming

« Previous

The <u>Proxy</u> and <u>Reflect</u> objects allow you to intercept and define custom behavior for fundamental language operations (e.g. property lookup, assignment, enumeration, function invocation, etc). With the help of these two objects you are able to program at the meta level of JavaScript.

Proxies

Introduced in ECMAScript 6, <u>Proxy</u> objects allow you to intercept certain operations and to implement custom behaviors.

For example, getting a property on an object:

```
const handler = {
  get(target, name) {
    return name in target ? target[name] : 42;
  },
```

In this article

Proxies

Handlers and traps

Revocable Proxy

Reflection

Symbol

Symbol is a built-in object whose constructor returns a symbol <u>primitive</u> — also called a **Symbol** value or just a **Symbol** — that's guaranteed to be unique. Symbols are often used to add unique property keys to an object that won't collide with keys any other code might add to the object, and which are hidden from any mechanisms other code will typically use to access the object. That enables a form of weak encapsulation, or a weak form of <u>information hiding</u> ☑.

Every Symbol() call is guaranteed to return a unique Symbol. Every Symbol. for ("key") call will always return the same Symbol for a given value of "key". When Symbol. for ("key") is called, if a Symbol with the given key can be found in the global Symbol registry, that Symbol is returned. Otherwise, a new Symbol is created, added to the global Symbol registry under the given key, and returned.

Description

To create a new primitive Symbol, you write Symbol() with an optional string as its description:

In this article

Description

Constructor

Static properties

Static methods

Instance properties

Instance methods

Examples

Specifications

Browser compatibility

See also

getter

The **get** syntax binds an object property to a function that will be called when that property is looked up.

Syntax

```
{ get prop() { /* ... */ } }
{ get [expression]() { /* ... */ } }
```

Parameters

prop

The name of the property to bind to the given function.

expression

You can also use expressions for a computed property name to bind to the given function.

In this article

Try it

Syntax

Description

Examples

Specifications

Browser compatibility

See also

setter

The **set** syntax binds an object property to a function to be called when there is an attempt to set that property.

Syntax

```
{ set prop() { /* ... */ } }
{ set [expression]() { /* ... */ } }
```

Parameters

prop

The name of the property to bind to the given function.

val

An alias for the variable that holds the value attempted to be assigned to prop.

In this article

Try it

Syntax

Description

Examples

Specifications

Browser compatibility

See also

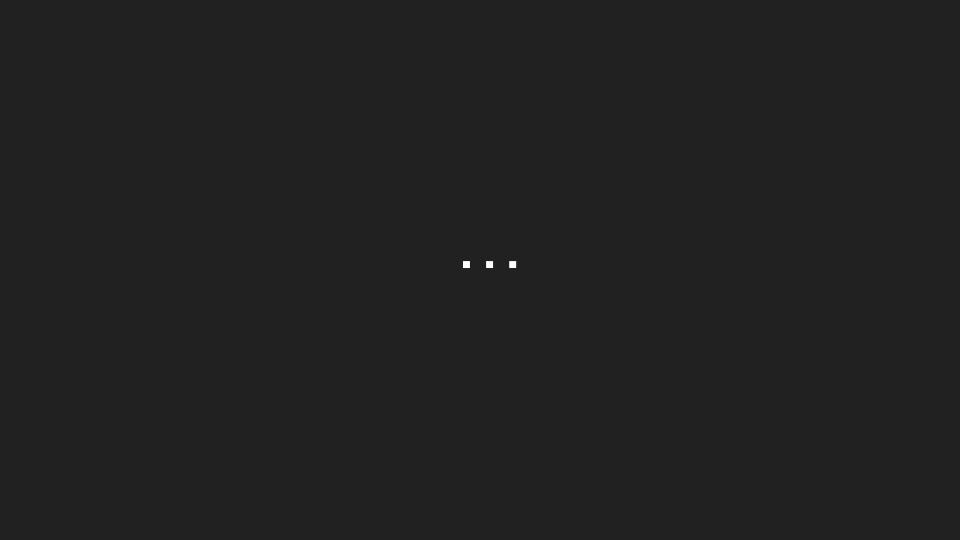
```
const firstInstance = new FirstClass();
const secondInstance = new SecondClass();
firstInstance.myField = 're-assigned value';
// will print \rightarrow 're-assigned value'
console.log(secondInstance.myField);
```

```
class ExtendedClass extends BasePrototype (secondInstance) {
 constructor() {
   super();
   this . myField = myExtendedField; // words order reverted
const thirdInstance = new ExtendedClass();
// will print \rightarrow 'value re-assigned'
console.log('thirdInstance:', thirdInstance.myField);
```

demo and ...

```
try {
    thirdInstance . myField = 123;
} catch ( error ) {
 console.error(error);
```

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fin





Дмитрий Махнёв JUG Ru Group Артём Кобзарь

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Fintier

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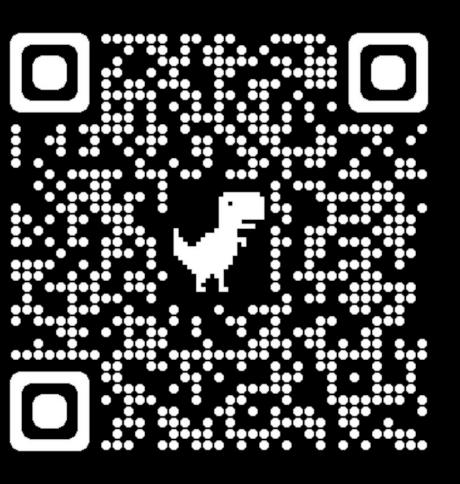


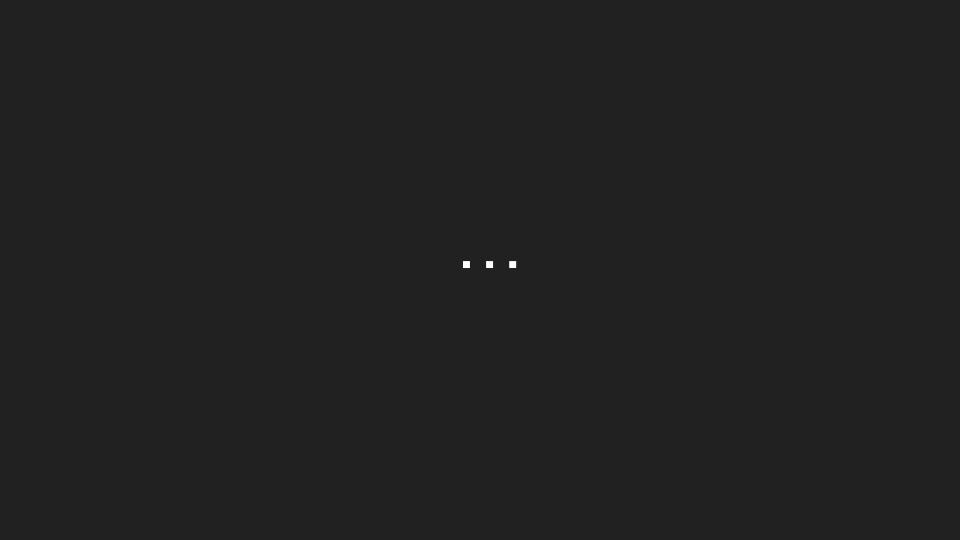






¿Q&Æ?





Type ø matica



\$ npm install typeomatica

This package is a part of mnemonica project.

Strict Types checker for objects which represent Data Types.

how it works

Install

```
> npm i typeomatica
```

Repository

github.com/wentout/typeomatica

Homepage

𝚱 github.com/wentout/typeomatica#read...

★ Weekly Downloads	₽
63	Lummen

version	License
0.2.8	MIT

Unpacked Size	Total Files	
44.8 kB	42	

Issues	Pull Requests
0	0

Last publish

9 hours ago