

JavaScript

The World's Best Programming Language

(观赏本 slide 请使用 Chrome 45+ 等支持 ES6、Fetch API 等新特性的浏览器)

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实践第一 案例为主

时间：2015年12月18-19日 / 地点：北京·国际会议中心

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by Hax

1st

嗯，slide的第一页内容有了 => //@DefconZhou: 看到the best的要么是眼界太窄，要么就是有病 //@_Franky: 这个标题..... //@寒冬winter: 我不禁想去拉架了! //@孢子响马: 哈哈

@JSConfChina

我发誓我们不是故意要把@johnhax 和 @孢子响马 放在一起的。。



6月9日 17:44 来自 微博 weibo.com

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6月12日 00:59 来自 微博 weibo.com

看到the best的
要么是眼界太窄
要么就是有病

有癩

Who said "The best"
either Ignorant
or **SICK**

SICK

To be Honest

不友善

Controversial subject

But

我就是认真

it's not about victory, it's all about attitude

最好 \neq 适用所有场景

不设限

打开思路

欢迎激烈争论

黑 ≠ 无脑黑

摆事实

讲道理

Introduction of
my company
and myself

百姓网

www.baixing.com

分类信息

58赶集合并后自动排名上升一位
将于年底上市新三板

Send your resume to

简历请投

heshijun@baixing.com

github: @hax

zhihu: 贺师俊

weibo: @johnhax

Takahashi Method
高橋流簡報法

The options of "Best PL"

C

C++

Java

C#

Lisp

Scheme

Haskell

Perl

Python

Ruby

Erlang



Go

Swift

Rust

Thousands of languages...
So I may miss someone you think the best...

PHP

JS?

Long long ago...

15 Years ago

The image shows a screenshot of a web browser window. The address bar displays the URL `www.crockford.com/javascript/javascript.html`. The page content is centered and features a large title, author information, and several paragraphs of text explaining the language's name and history.

JavaScript: The World's Most Misunderstood Programming Language

[Douglas Crockford](#)
www.crockford.com

[JavaScript](#), aka Mocha, aka LiveScript, aka JScript, aka ECMAScript, is one of the world's most popular programming languages. Virtually every personal computer in the world has at least one JavaScript interpreter installed on it and in active use. JavaScript's popularity is due entirely to its role as the scripting language of the WWW.

Despite its popularity, few know that JavaScript is a very nice dynamic object-oriented general-purpose programming language. How can this be a secret? Why is this language so misunderstood?

The Name

The *Java*- prefix suggests that JavaScript is somehow related to Java, that it is a subset or less capable version of Java. It seems that the name was intentionally selected to create confusion, and from confusion comes misunderstanding. JavaScript is not interpreted Java. Java is interpreted Java. JavaScript is a different language.

JavaScript has a syntactic similarity to Java, much as Java has to C. But it is no more a subset of Java than Java is a subset of C. It is better than Java in the applications that Java (fka Oak) was originally intended for.

JavaScript was not developed at Sun Microsystems, the home of Java. JavaScript was developed at Netscape. It was originally called LiveScript, but that name wasn't confusing enough.

The *-Script* suffix suggests that it is not a real programming language, that a scripting language is less than a programming language. But it is really a matter of specialization. Compared to C, JavaScript trades performance for expressive power and dynamism.

Lisp in C's Clothing

JavaScript's C-like syntax, including curly braces and the clunky `εοε` statement, makes it appear to be an ordinary procedural

By Douglas Crockford
I don't like him...

What DC's "most misunderstood"
really mean?

JavaScript is ALREADY
a BEST language in 2001
If you as smart as DC

DC wrote a book taught you

GOOD Part

and **BAD** part

He is right

though I don't like him

And except his opinion about



;;
;;
;;
;;
;; Semicolon-itis style ;;
;;
;;
;;
;;

Semicolon-less style

`yyx990803/semi` or `hax/semicolon-less.js`

Other opinions of DC which I against

JS do not need Class

JS do not need Module

JS do not need this keyword

JS do not need `Object.create()`

(`Object.create` is invented by DC)

JS do not need XXX

DC: JS is GOOD enough

I do NOT agree

My real feeling (before 2008):
JS is world's worst
programming language
... except PHP

And you have
no choice

If you r a web front-end engineer

For Example:

No module →

each framework invent own wheel →

community is break →

unfair competition →

the Matthew Effect →

only jQuery win

jQuery is great
but should not
ONLY jQuery

DC replied me in QconBeijing 2010:
You could write module proposal
yourself and send it to TC39 :(

But DC and I both
don't know there is
already some great
thing happen...

Node.js

164, 234

packages

183, 668

packages

195, 117
packages

With CommonJS

-- a not very perfect module system
JS has changed the world

Other keypoints

Async

Event driven

NO standard library

NO burden

Even better
ES6 module now

Language features
Fix many problems

Class

fix 00 in JS

Arrow function
fix this binding

Map, Set ...
fix data structure

for... of

fix for... in

async/await
fix callback hell

More new features...

Language features is

Important

for productivity

Sorry

C. . . .

Abstraction
has COST

Example

Monad

How many people understand Monad?



A monad is just a monoid in the category of endofunctors
一个单子说白了不过就是自函子范畴上的一个么半群而已
what's the problem?
这有什么难以理解的？

Does JavaScript
have Monad?

Yes

Eg. Promise

But Promise is provided
as a core feature

You do NOT need to

know Monad

aka monoid in the category of endofunctors

to use Promise

JavaScript community
find a good **BALANCE**
between practice and theory

Sorry

过于高冷的

Haskell

Sorry

被诅咒的

Lisp

Lisp是如此强大，以至于
在其他编程语言中的技术问题，
到了Lisp中变成了社会问题

Compatibility

JS should be
the worst case

You can NOT
upgrade your language
until ALL users
upgrade their browsers

Babel 1

and many compilers/transpilers

Babel makes the language

Modular!

Means you can enable
language features
incrementally

Never happened
in the past

With Babel

most hard to upgrade ->

**Always use
latest feature!**

Sorry

Python. . .

Performance

JavaScript is the

fastest

dynamic language!

Competition

within largest companies

Competition

Cooperation

Optional strong type

Angular (Google) use TypeScript (MS)

Web Assembly

Google, Mozilla, Apple, Microsoft

ES2016: `struct`
, `use stricter`

JavaScript will be

faster

in the future

My expectation:
JavaScript will be
as FAST as Java

Sorry

Ruby...

JS as a Platform

“Everything that *can* be written in JavaScript *will* eventually be written in JavaScript”. — Atwood’s law

The birth & death of JavaScript

WebAssembly

Sorry

C#

Java

All of above
is NOT important

Ecosystem

JavaScript have:

The most ubiquitous platform:

Browser

The most active platform:

Node.js

The most largest companies:

Google

Microsoft

Apple

The most experienced experts
in the language committee

The most largest developers

Community

JavaScript

The World's Best
Programming Language

Thank you!

<http://johnhax.net/2015/js-the-best>