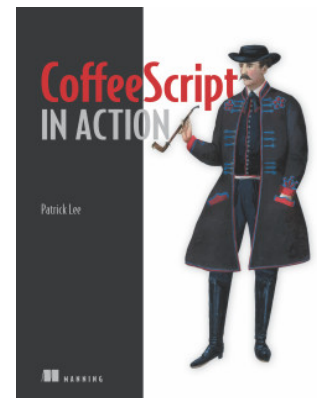# javascript: why it is better?

manvendra singh

about me
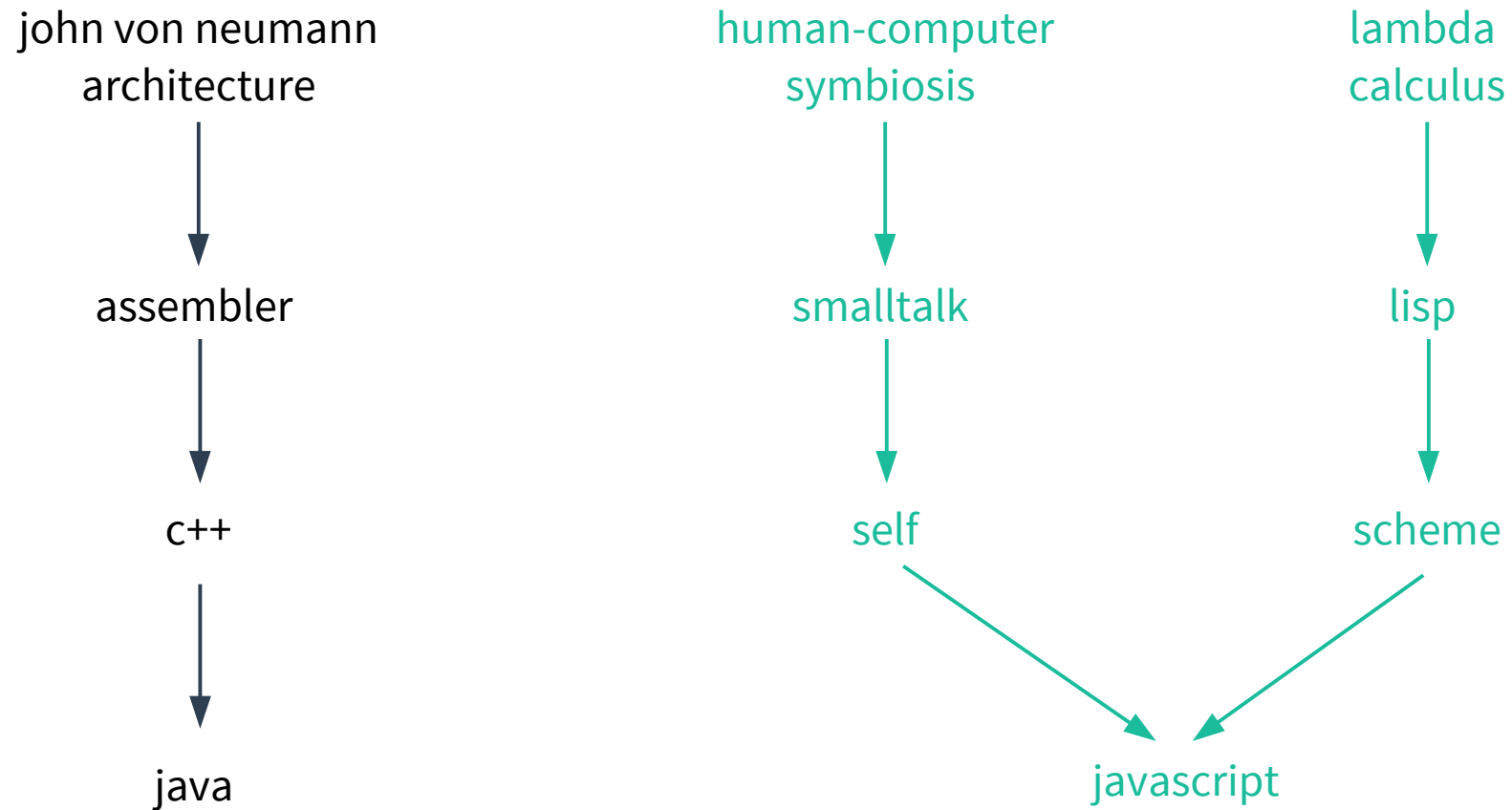
- tech lead at SapientNitro working on backend and frontend on node.js.

- reviewer of the book coffeescript in action.

- philanthropist and programmer.

- java, javascript, linux and windows evangalist.

- @manvendra_sk

7 reasons

what makes javascript better than c++ and java?

1. better genes

john von neumann
architecture

↓

assembler

↓

c++

↓

java

human-computer
symbiosis

↓

smalltalk

↓

self

lambda
calculus

↓

lisp

↓

scheme

javascript

2. heterogeneous collections

```
[
    "me",
    26,
    function sayHello(name) { return "hello " + name + "!"; }
]
```

3. first class functions

```javascript
var incrementer = function(value) { return ++value; }

var anotherIncrementer = incrementer;

var functionList = [incrementer, anotherIncrementer];

function adder(by) {
    return function(value) {
        return by + value;
    }
}
```

```javascript
var steps = adder(2);

console.log(steps(1));
```

4. objects as json constructs

```
{
        name: "manvendra singh",
        address: "new delhi",
        age: 26
}
```

5. prototype inheritance

- it's more simple. we don't need classes, interfaces, abstract classes, virtual classes, final classes, destructors.

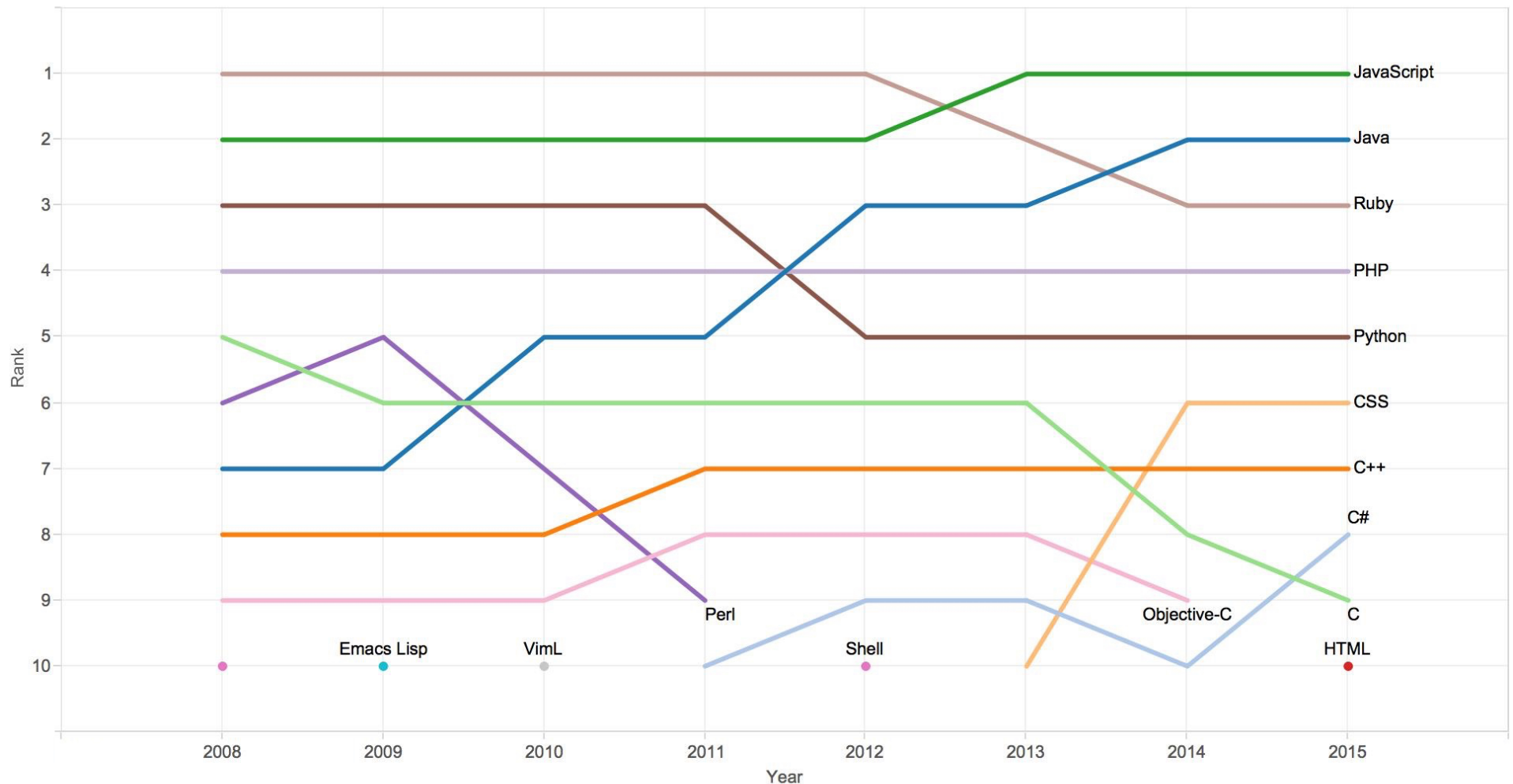- it's more expressive. we can extend the functionality at runtime.

6. language evolution

- transpilation: translate new syntax to older syntax of the language.
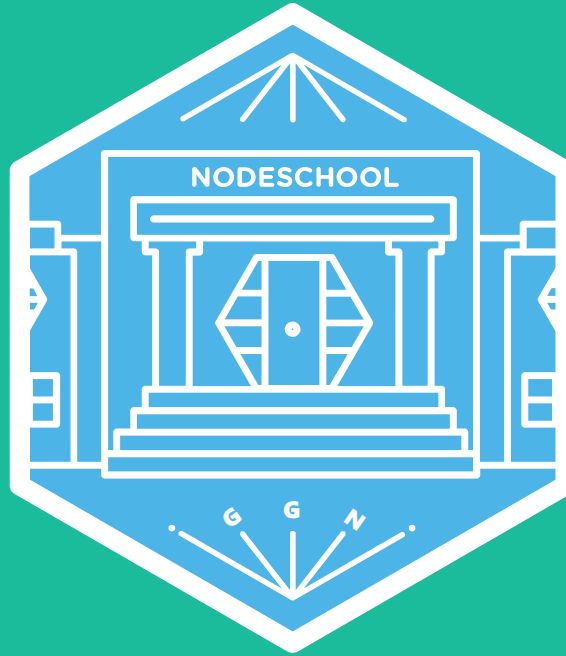
- polyfill: (re)define stl.

7. language popularity

Rank of top languages on GitHub.com over time

Source: GitHub.com

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thank you!

manvendra singh
@manvendra_sk
manvendrask.com