

# TypeScript

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# 自我介绍一下

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**Look**

```
function greeter(person) {  
    return "Hello, " + person;  
}
```

- person is string (happy path :-D)
- person is undefined or null
- person is number

```
function greeter(person) {  
    return person.substr(0, 3) +  
    '...';  
}
```

- Check Params
- Expose Problem By Crash

How do it  
with  
TypeScript



```
function greeter(person:  
string) {  
    return "Hello, " + person;  
}
```

```
function greeter(person: string  
| number) {  
    return "Hello, " + person;  
}
```

```
function greeter(person?:  
string | number) {  
    return "Hello, " + person;  
}
```

```
function greeter(person:  
string) {  
    return person.substr(0, 3) +  
    '...';  
}
```

Compiled Code

```
function greeter(person) {  
    return person.substr(0, 3) +  
    '...';  
}
```

```
const itemCreator = (item) => {  
  if (item.readCount > 100) {  
    return {  
      ...item,  
      isHot: true  
    }  
  }  
  return item  
}
```

```
interface Article {  
    readCount : number  
    text: string  
    isHot?: boolean  
}
```



```
const itemCreator = (item: Article) => {  
  if (item.readCount > 100) {  
    return {  
      ...item,  
      isHot: true  
    }  
  }  
  return item  
}
```

编译时检查

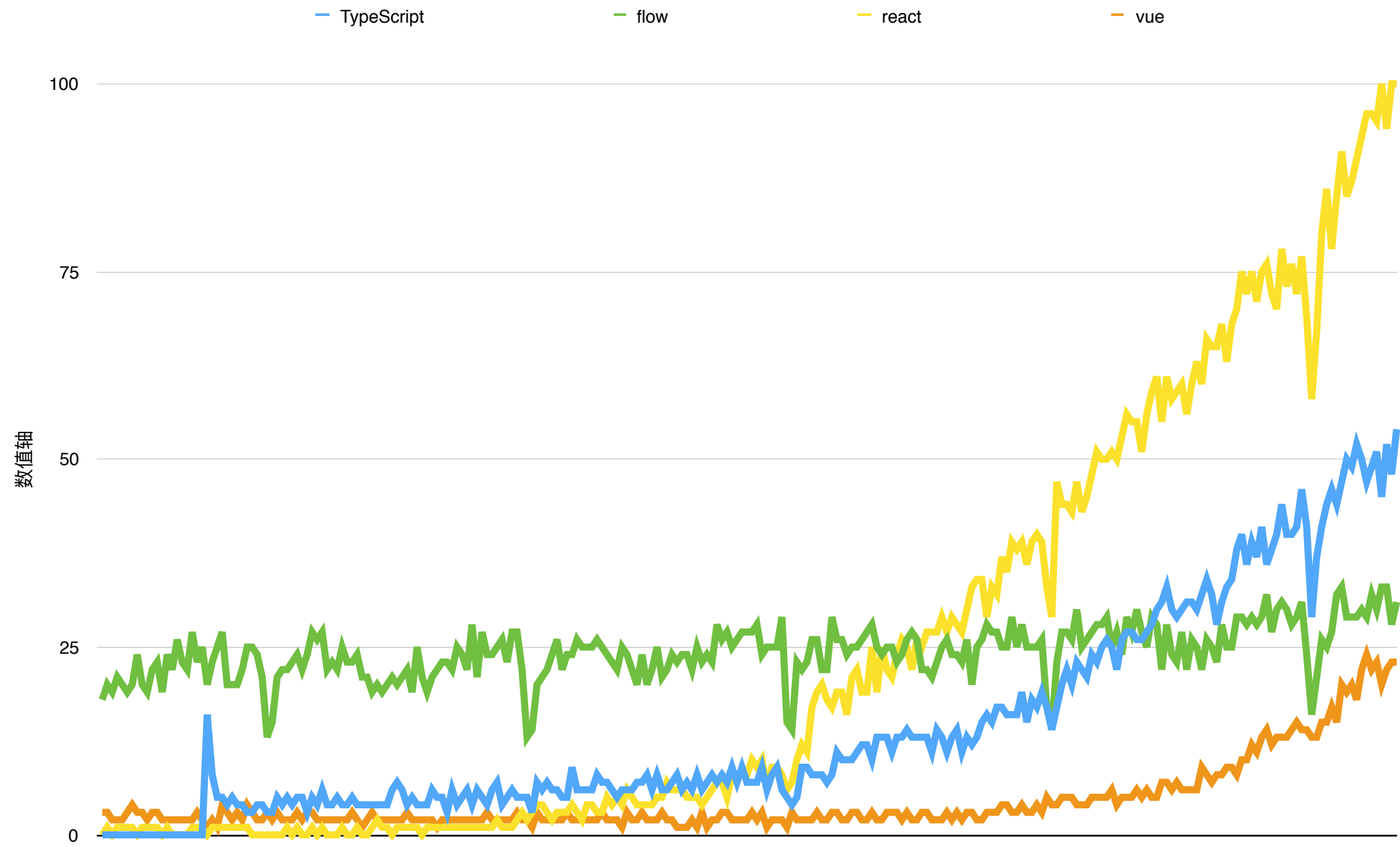
提升可读性

紧跟 ECMAScript 标准

**Basic**

Show Code

# Trend



- ant-design
- Angular
- RxJS
- Other Companies...

# **Advantage & Disadvantage**



“动态语言一时爽，代码重构火葬场”

—杜甫(712–770)



- 可读性
- 编译时检查
- IDE 智能提示
- 易于重构

- 第三方库类型文件缺失或者更新慢
- 有类型无法表达的情况

Thanks