

展望

ISOMORPHIC SWIFT

MDCC2016

中国移动开发者大会



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# BRIEF HISTORY OF SWIFT

- A modern language to develop applications for Apple's iOS and OS X platforms, as well as on Linux
- First Announced by Apple in WWDC 2014
- Version upgrade from Swift 1.0 to Swift 2.0 in one year
- Open Sourced in December 2015
- Swift 3.0 officially announced in September 2016

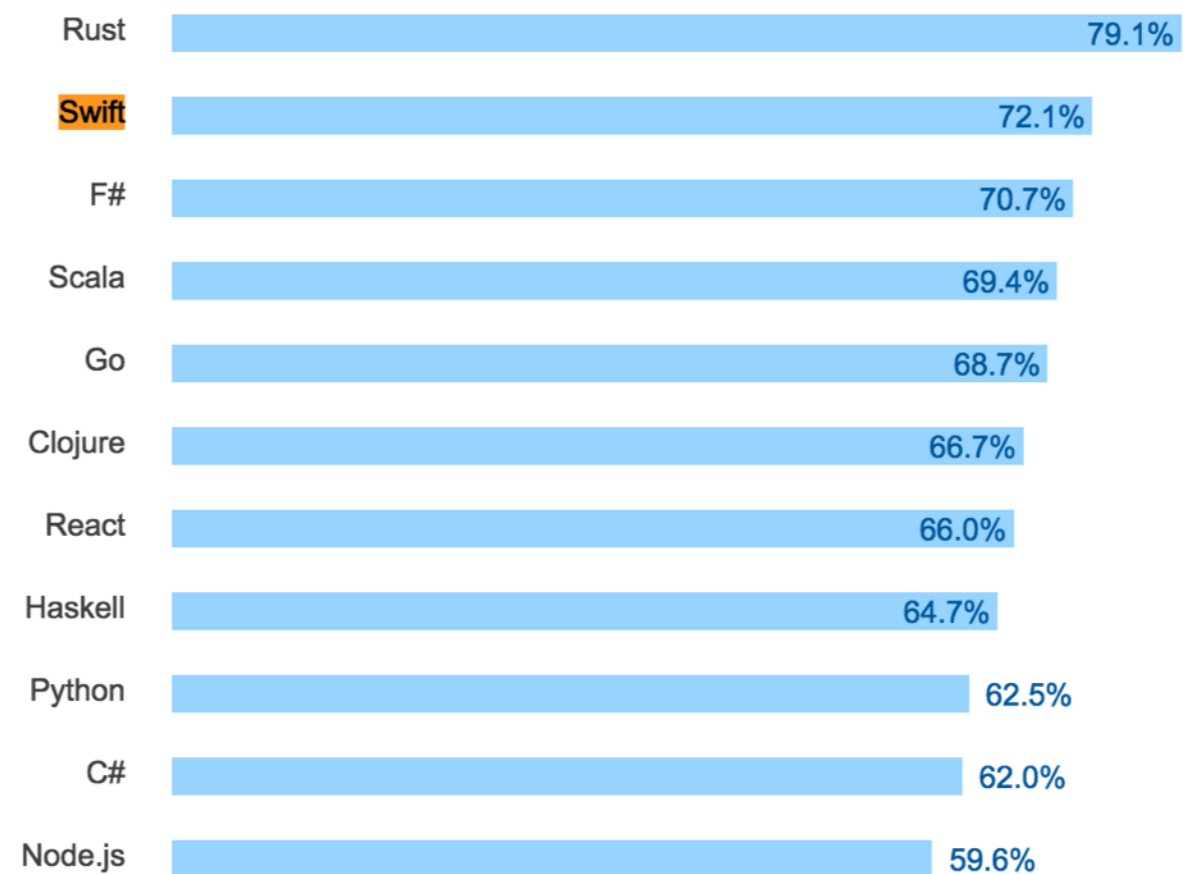
# SWIFT LANGUAGE STATUS

## II. Most Loved, Dreaded, and Wanted

Loved

Dreaded

Wanted



*% of developers who are developing with the language or tech and have expressed interest in continuing to develop with it*

# WHY CLIENT SIDE SWIFT

- Expressiveness
- Safety
- Speed



# EXPRESSIVENESS

- Objective-C

```
NSDate *newDate = [[NSDate alloc] init];
```

- Swift

```
var newDate = NSDate()
```

# SAFETY

- Objective-C

```
NSURL *newURL = [[NSURL alloc] initWithString:@"http://  
ww.ctrip.com"];
```

- Swift

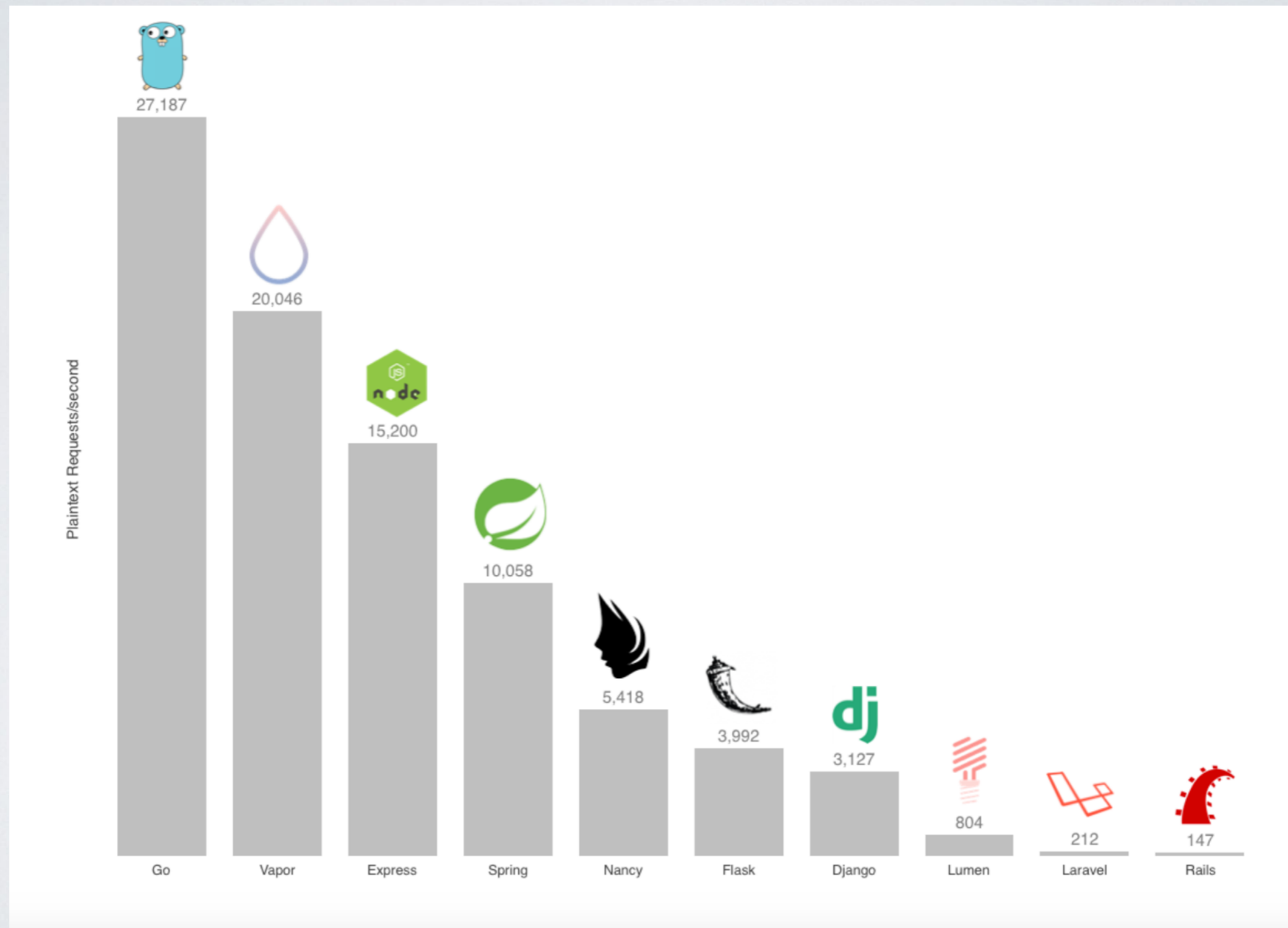
```
var newURL = NSURL(string:"http://ww.ctrip.com")
```

# "SPEED"

- Swift is intended to be a replacement of Objective -C and the runtime performance is comparable if not faster
- Developer productivity



# SPEED



# OPEN-SOURCE SWIFT

- Compiler and Standard Library
- Package Manager
- Core Libraries
- REPL

## Swift

- SPM
- Package.swift
- Packages
- REPL

## Node.js

- NPM
- package.json
- node\_modules
- REPL

# SERVER-SIDE SWIFT FRAMEWORKS

- IBM Kitura
- Vapor
- Perfect
- Zewo

# IBM KITURA

- Kitura
- Swift Sandbox
- Bluemix (Swift Cloud Hosting)



**KITURA™**

# VAPOR



Most used web framework for Swift

# PERFECT



First freely available web framework for Swift

# ZEWO



Zewo

## Build server software in Swift

Zewo is a set of open source libraries that help you build modern and blazing fast server software.

A set of libraries for server-side development



# SERVER-SIDE SWIFT PROSPECTS

## Pros

- All the good stuff you've seen

## Cons

- Core Libraries not quite ready on Linux
- Swift version changes

Q & A



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