



# JAVA 达摩班

# 开发环境入门

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Ashton

21 March, 2018





破冰之旅  
ICE BREAKER

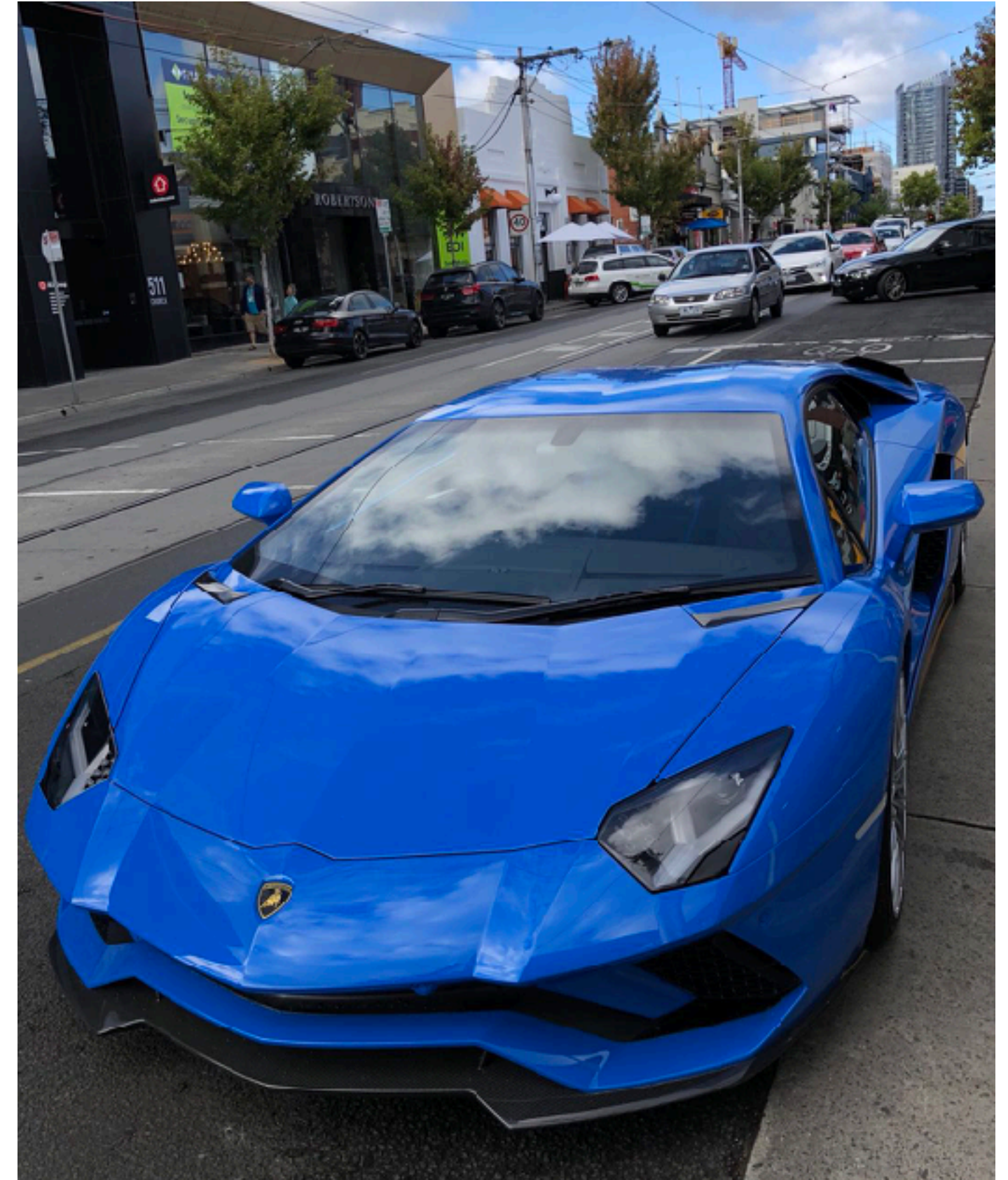


# Hello!

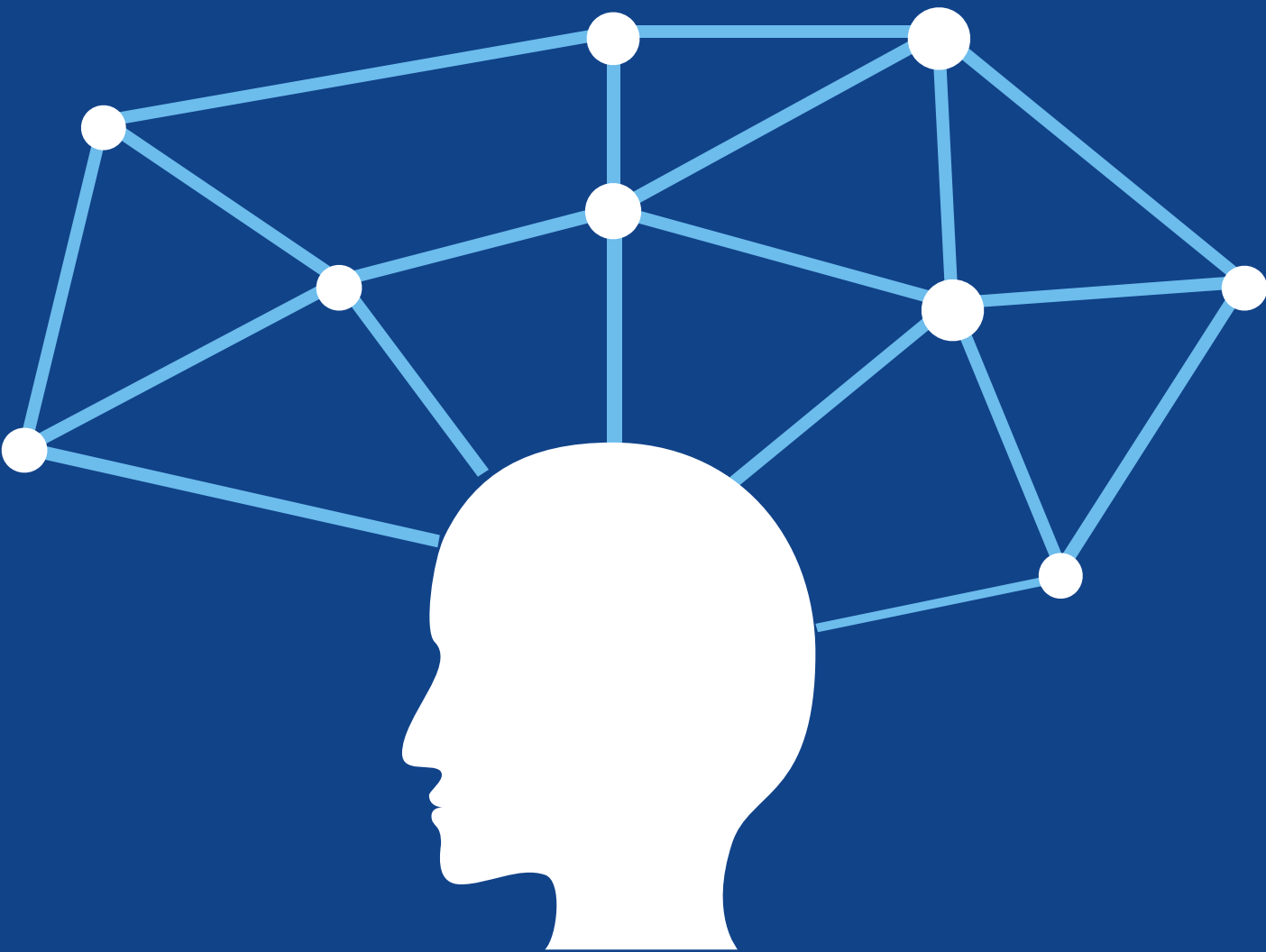
我叫 兰博基尼

我来自...我想学习因为...  
我用过...我最精通的是...

传递给下一位



开发环境入门	前端基础与前后端融合
高级Java（强化学习）	Mybatis框架
Web核心开发	Oracle大型云数据库课程
Spring 核心概念	GPU数据库
Spring 实践	深度学习基础
常规数据库	项目实训 大型开发项目实训学习（4-8个） 包括：移动，银行等项目
敏捷编程	
微服务	项目实战 实战项目（1-2个）
部署	面试挑战





# MAC OS 系统入门

最适合开发者的系统之一

# 1

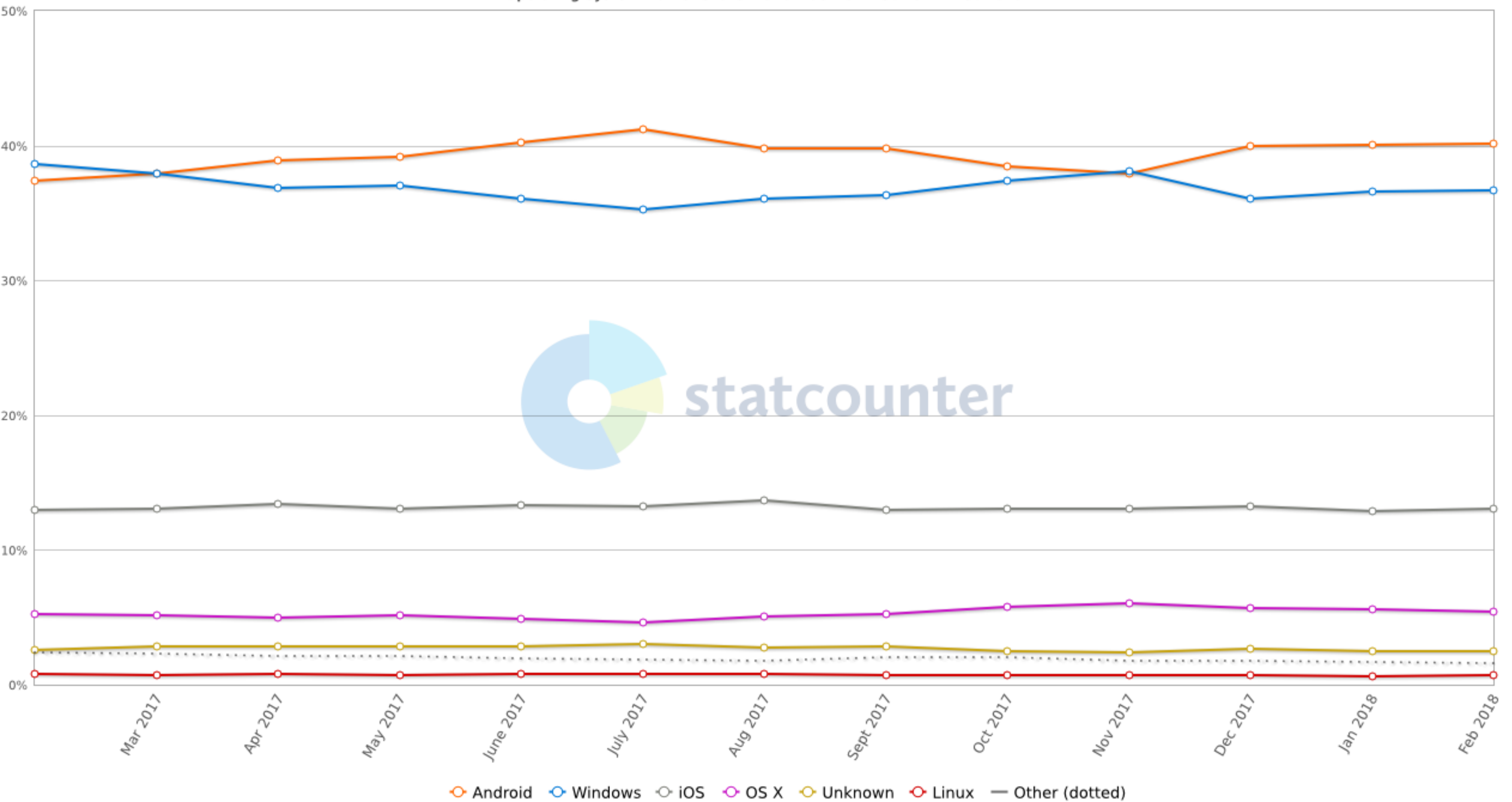




# 操作系统市场份额

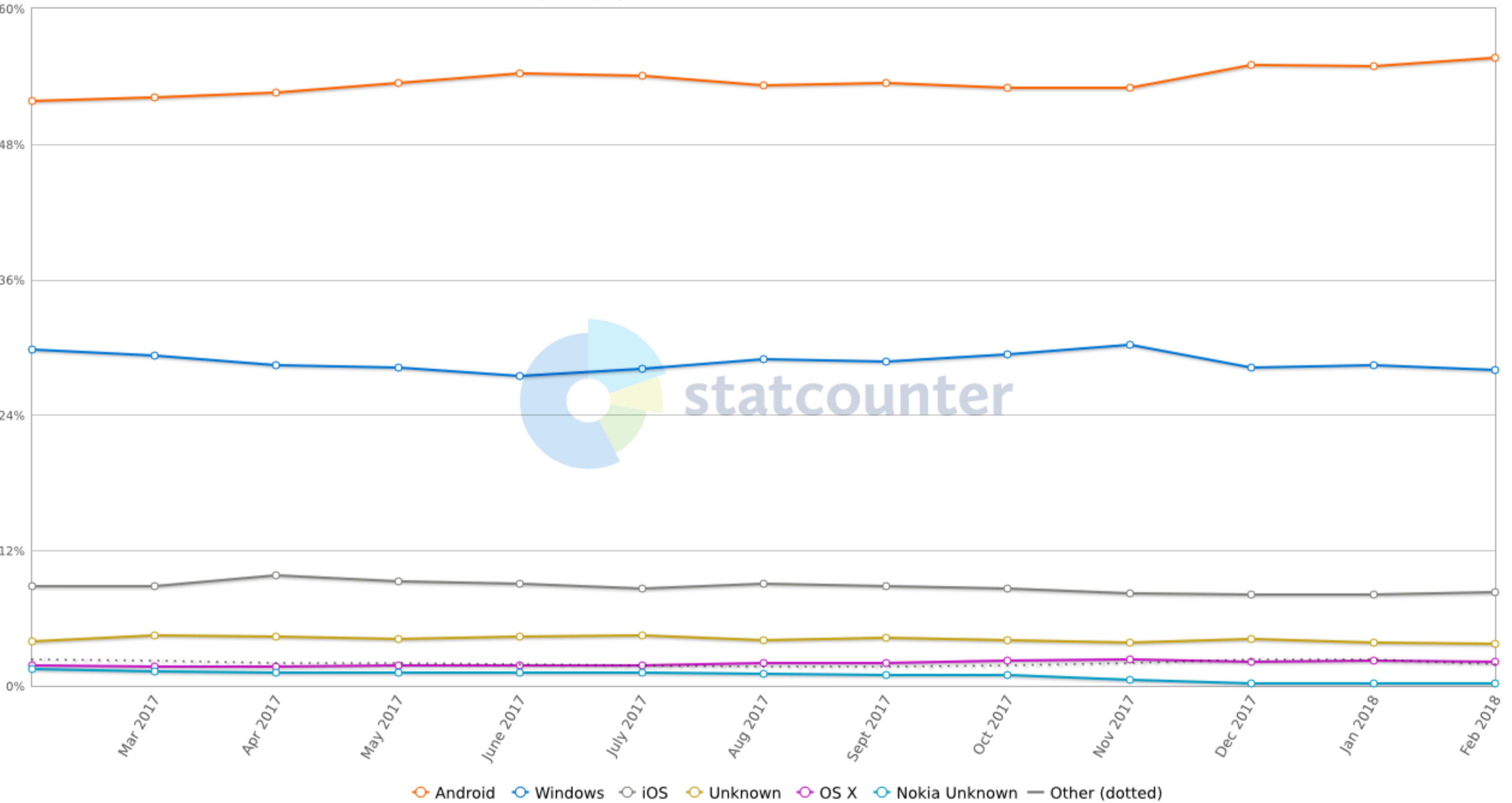


StatCounter Global Stats  
Operating System Market Share Worldwide from Feb 2017 - Feb 2018

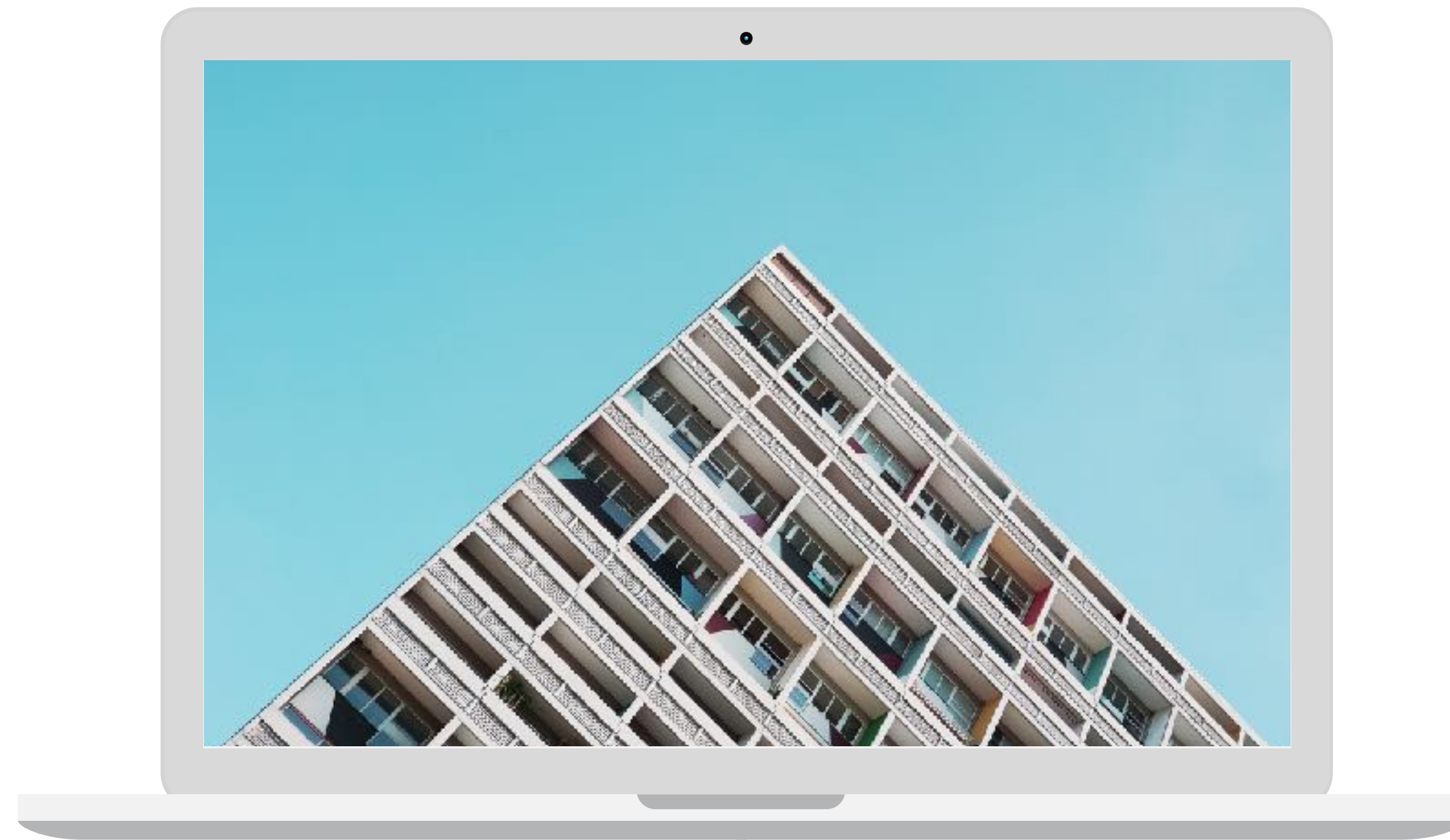




StatCounter Global Stats  
Operating System Market Share Asia from Feb 2017 - Feb 2018



# History



麦金塔（也叫Macintosh或Mac）是最早使用图形用户界面（GUI），鼠标和图标的个人计算机。

它第一次出现是在1984年1月22日。

它的灵感来自上世纪70年的Xerox Parc实验室。

Mac OS  $\neq$  Linux

Mac OS = Unix + desktop

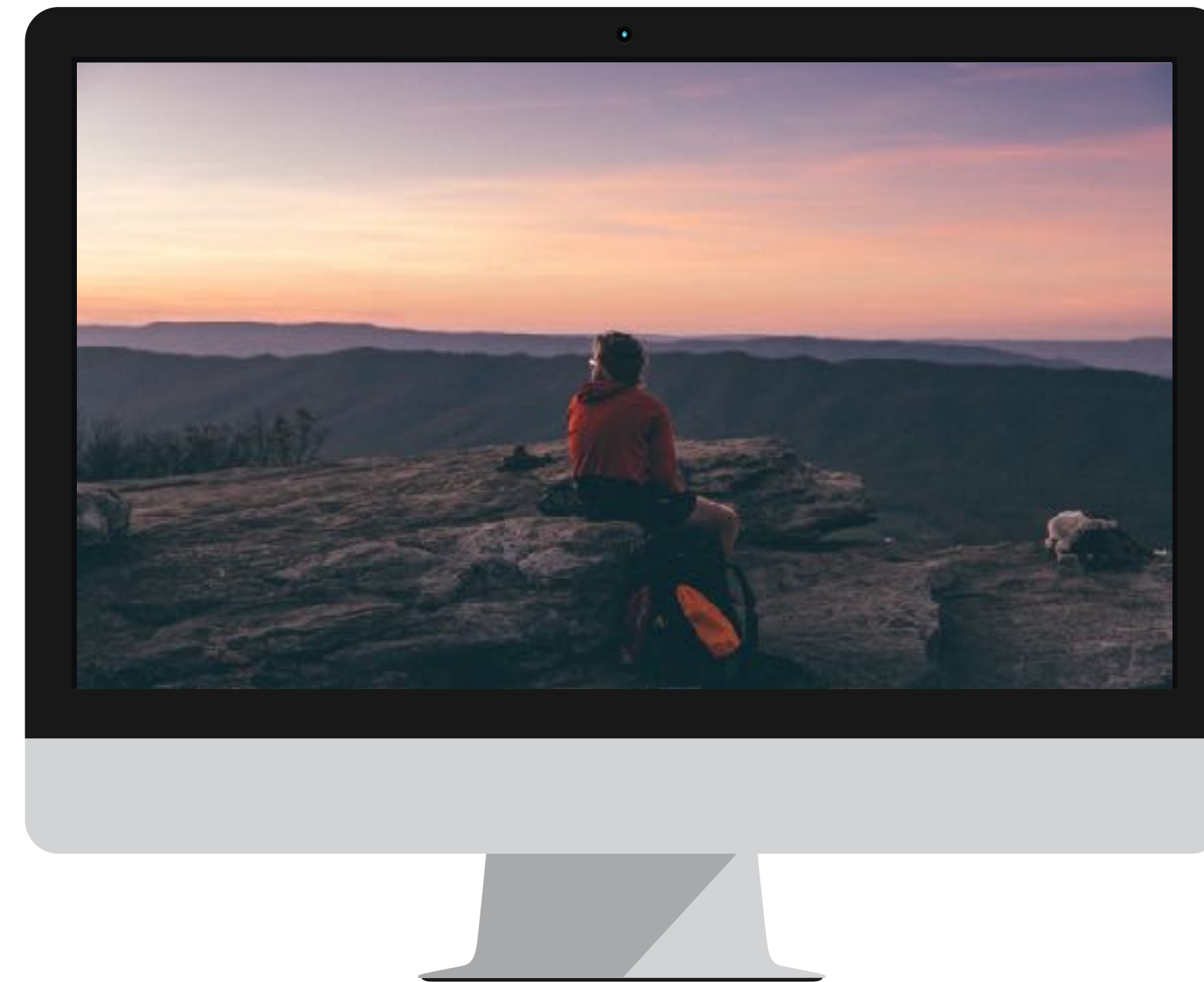
Mac OSX 基于 FreeBSD，Mac有Unix授权



# 为什么用Mac

- 提供类Unix shell，更接近部署环境
- 速度快，性能佳（从买上就没有关过机）
- 开发者友好，工具全，例如安装IDE, \*\*sh, docker, jdk, python, xcode (c++) , nodejs
- 既能做设计，也能做编码，更能做运维
- 系统兼容性，多系统支持（windows, linux），虚拟机
- 电池，屏幕（视网膜），键盘，track pad
- 漂亮，简单; 开发和个用的完美结合

除非，开发.net, mfc等纯微软生态



# Terminal vs Shell

**Terminal = text input/output environment**

physical terminal = console e.g. device file in Unix on behalf of a hardware device and implements a number of commands

terminal emulator Terminal/Itterm2

Nowadays terminals are considered any input/output devices. A mouse, keyboard, screen, camera, they are all terminals.

**Shell = command line interpreter**

Bash, zsh, sh...

Shell is an OS thing, tell what app/function you want to run.



# Terminal vs Shell

## Diff between shell and terminal:

1. Input: the terminal converts keys into control sequences (e.g. Left → `\e[D`). The shell converts control sequences into commands (e.g. `\e[D` → backward-char).
2. Output: the shell emits instructions such as “display foo”, “switch the foreground color to green”, “move the cursor to the next line”, etc. The terminal acts on these instructions.
3. The shell never sees the output of the commands it runs (unless redirected). Output history (scrollback) is purely a terminal concept.
4. Inter-application copy-paste is provided by the terminal (usually with the mouse or key sequences such as Ctrl+Shift+V or Shift+Insert). The shell may have its own internal copy-paste mechanism as well (e.g. Meta+W and Ctrl+Y).
5. Job control (launching programs in the background and managing them) is mostly performed by the shell. However, it's the terminal that handles key combinations like Ctrl+C to kill the foreground job and Ctrl+Z to suspend it.

# Bash vs Zsh

**Zsh, or Z shell**, was first released by Paul Falstad back in 1990 when he was still a student at Princeton University. It's a name originated from professor [Zhong Shao](#). Much like Bash, Z shell can basically be seen as an extended version of the Bourne shell, and does contain a lot of the same features as Bash.

**Bash shell** (also known as the "Bourne-again shell") was also released around the same period as the Z shell (in 1989) and Brian Fox is regarded as the creator behind it. It was initially written as a replacement for the Bourne shell. For many years it has shipped as the default shell for GNU, most Linux distributions, and Mac OS X (version 10.3+).





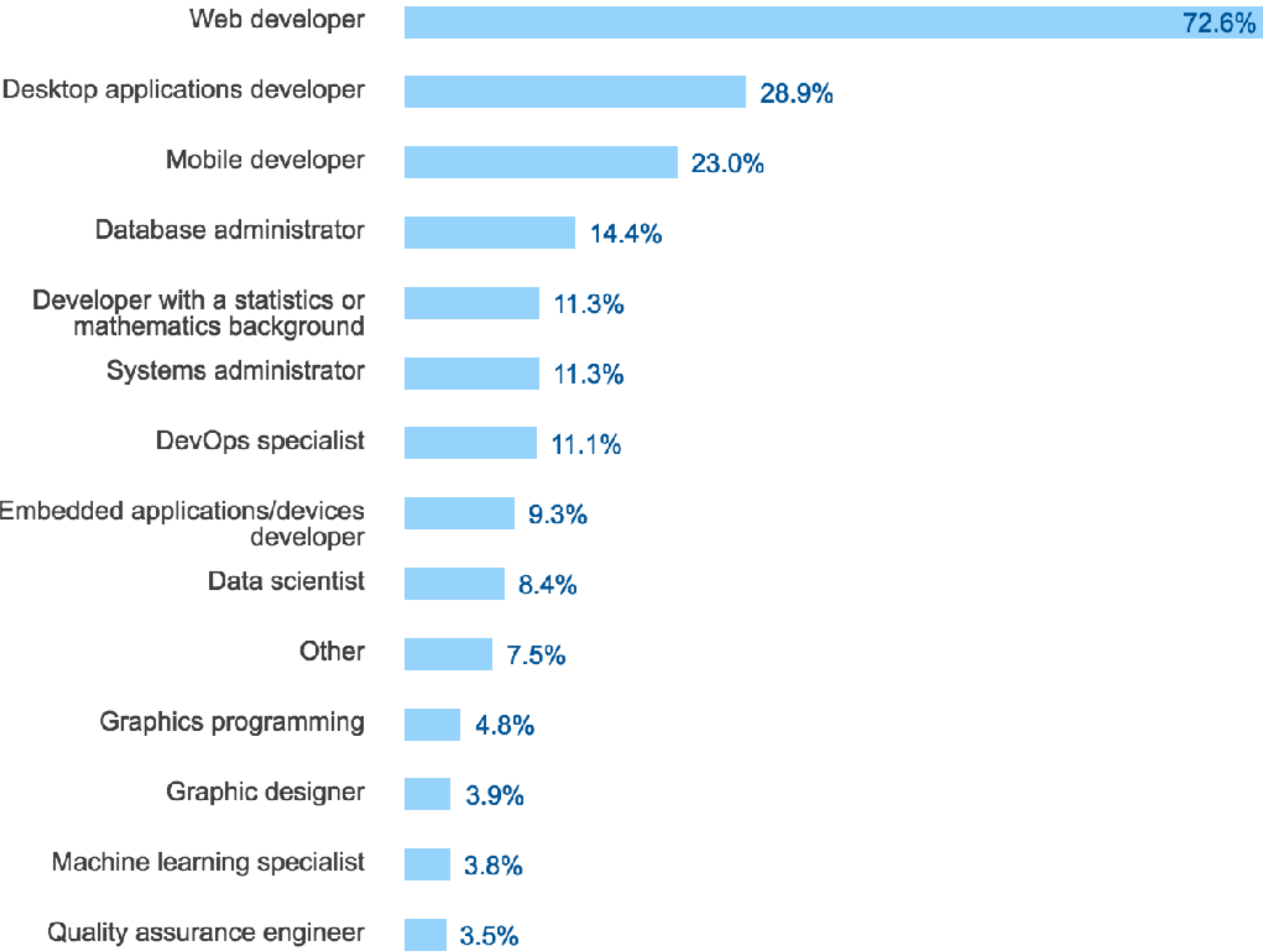


# 软件开发从业者调查

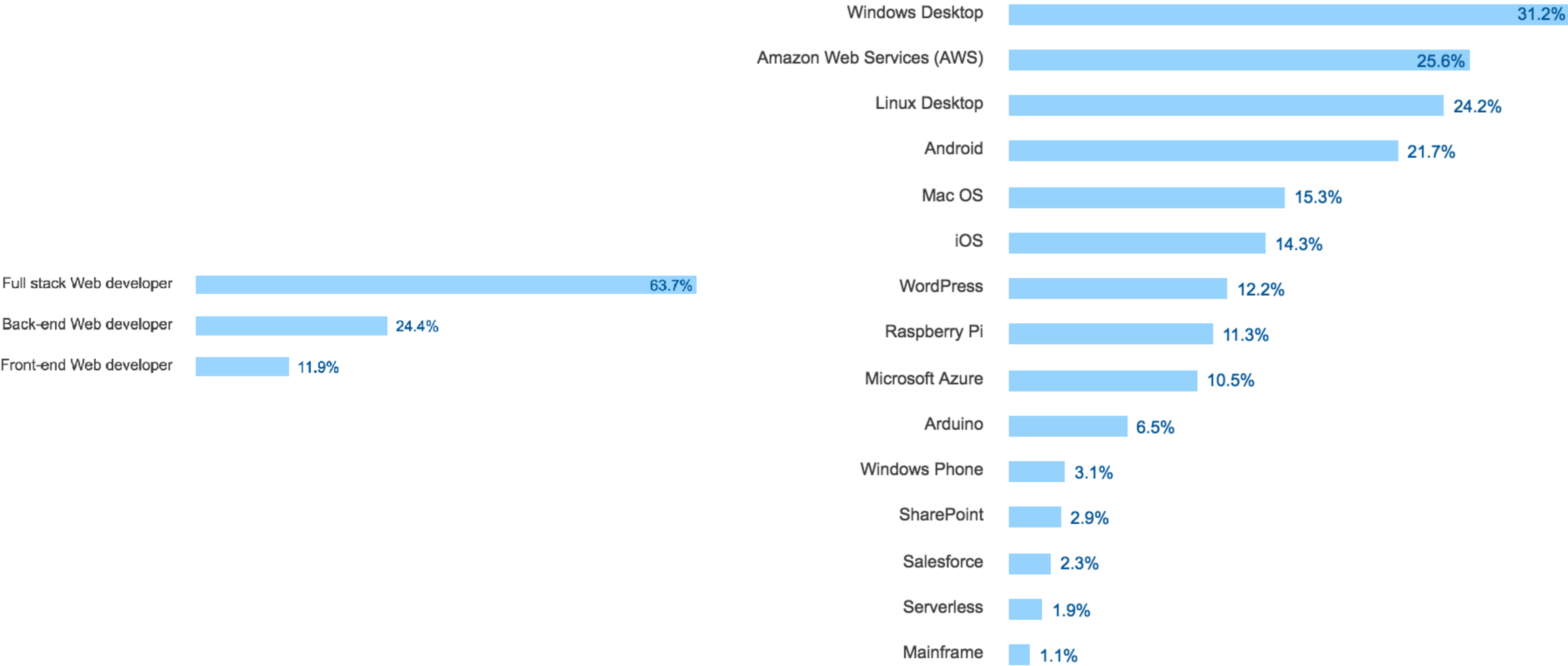
# 2

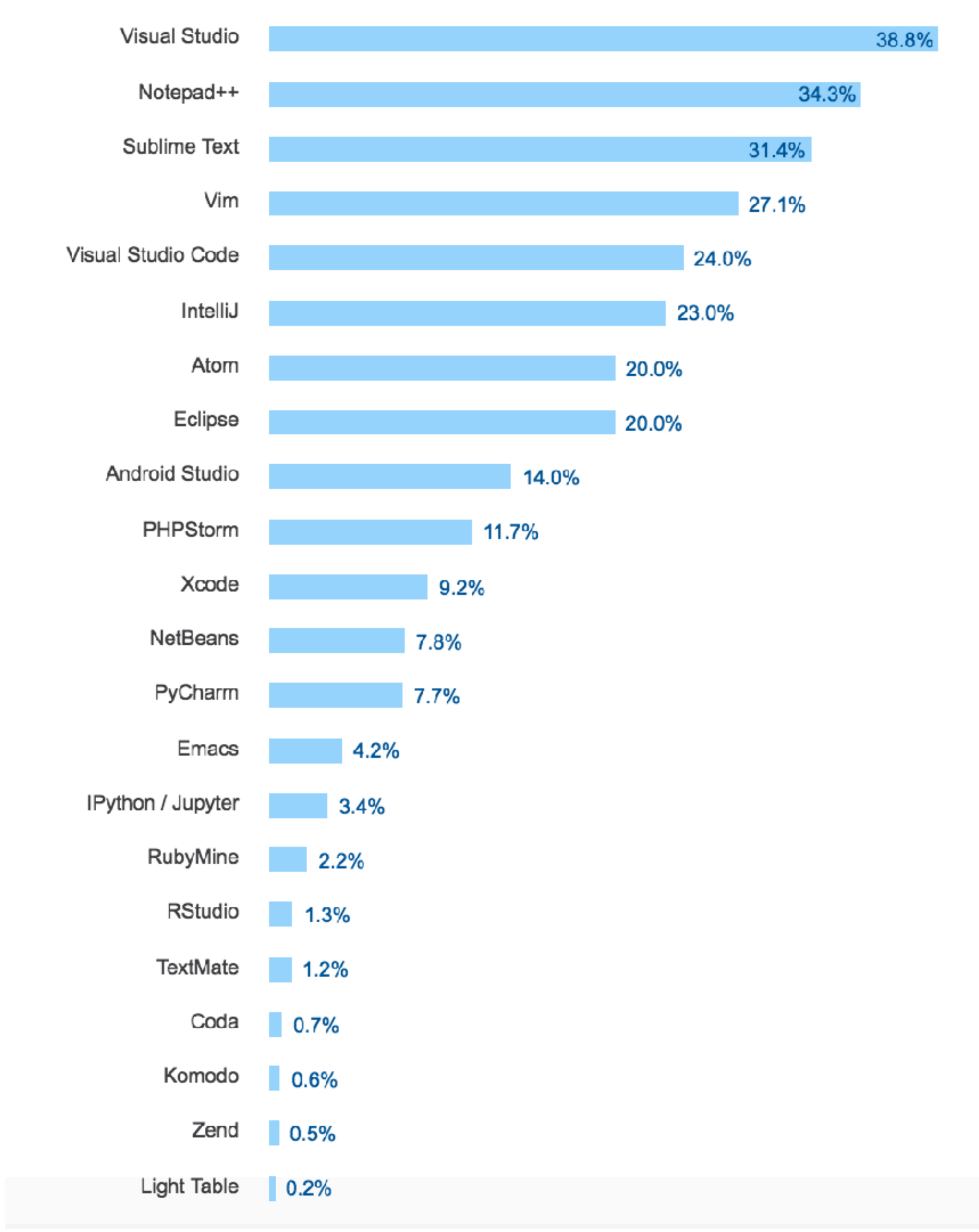
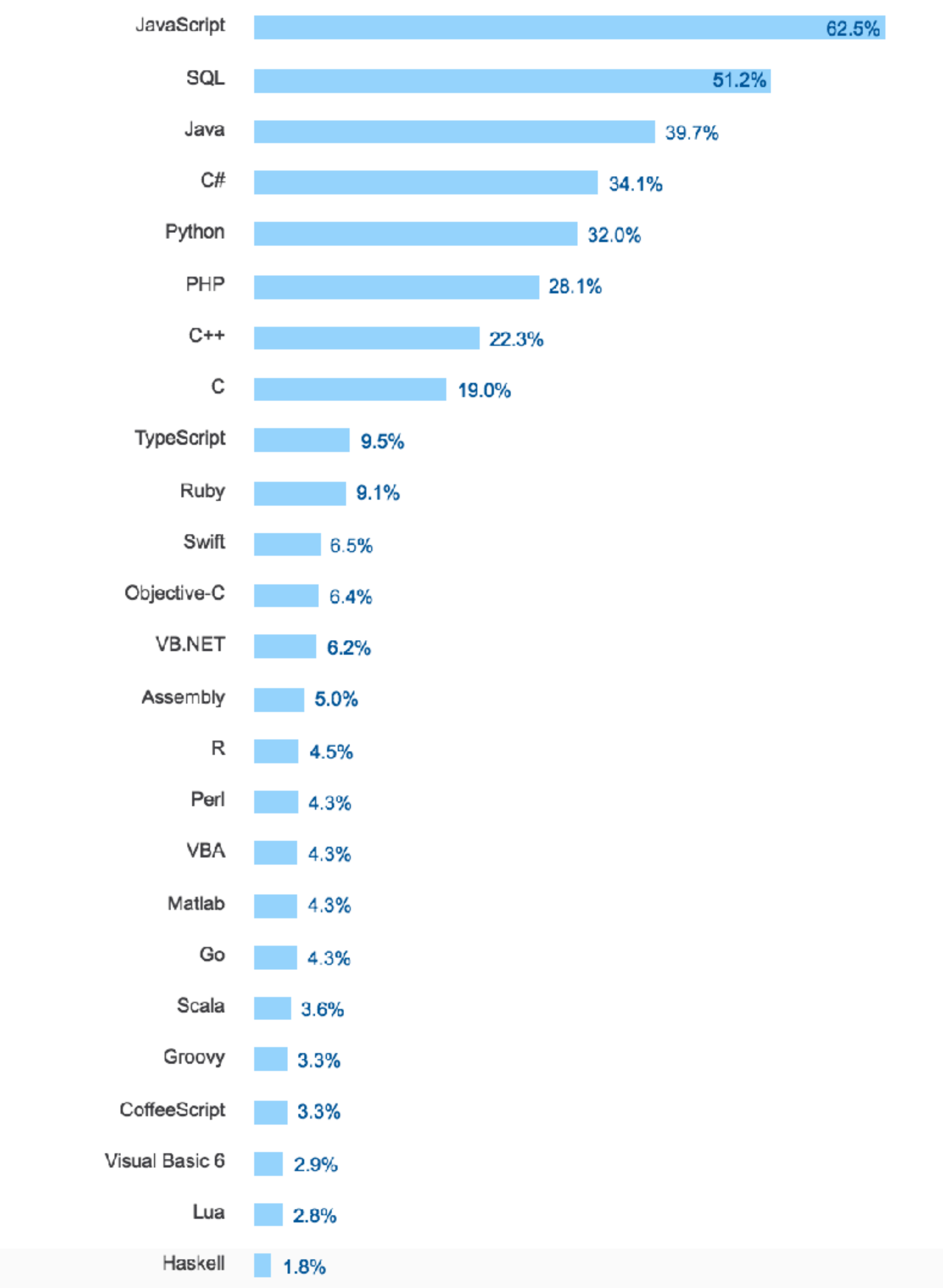
<https://insights.stackoverflow.com/survey/2017>

# Developer Type













# 开发环境搭建

做一个专业，酷炫的工程师

# 3

# STEP 1

## Java

下载JDK9 macos版本 (dmg)

<http://www.oracle.com/technetwork/java/javase/downloads/jdk9-downloads-3848520.html>

安装JDK9, mac下无需环境变量配置

打开终端 `java --version`



# STEP 2

## IntelliJ Idea

安装Idea IDE

<http://www.jetbrains.com/idea/download/#section=mac>

<http://idea.lanyus.com/>

最优秀的IDE值的购买^\_^ 请大家购买正版，这里仅供学习用途

打开熟悉世界上最棒的IDE







Version: 2017.3.5  
Build: 173.4674.33  
Released: March 13, 2018  
[Release notes](#)

[System requirements](#)  
[Installation Instructions](#)  
[Previous versions](#)

# Download IntelliJ IDEA

[Windows](#)

[macOS](#)

[Linux](#)

## Ultimate

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Free, open-source

License	Commercial	Open-source, Apache 2.0 <a href="#">?</a>
Java, Kotlin, Groovy, Scala	✓	✓
Android <a href="#">?</a>	✓	✓
Maven, Gradle, SBT	✓	✓
Git, SVN, Mercurial, CVS	✓	✓
Detecting Duplicates <a href="#">?</a>	✓	
Perforce, TFS	✓	
JavaScript, TypeScript <a href="#">?</a>	✓	
Java EE, Spring, GWT, Vaadin, Play, Grails, Other Frameworks <a href="#">?</a>	✓	
Database Tools, SQL	✓	

## STEP 2

1. 打开terminal
2. nano /etc/hosts
3. 添加host  
0.0.0.0 account.jetbrains.com
4. 打开Intellij Idea, 它会提示注册, 然后选择Activation Code, 粘贴如下注册码

EB101WSWD-  
eyJsaWNlbnNISWQioiJFQjEwMUIXU1dEliwiBGljZW5zZWVOYWY1lloiibGFuIHl1liwiYXNzaWduZWVOYWY1lloiiliwiYXNzaWduZWVfWFpC6l6lslmXpY2Vuc2VSZXN0cmJldGlvbil6lkZvciBIZHVjYXRpb25hbCB1c2Ugb25seSIsImNoZWNRQ29uY3YvcymVudFVzZSI6ZmFsc2UsInBib25hY3R3RjlpbeyJjb2RlRlloiSukilCJwYWlkVXBubyl6ljlwMTgtMTAtMTQifSx7ImNvZGUioiJSUzAilCJwYWlkVXBubyl6ljlwMTgtMTAtMTQifSx7ImNvZGUioiJXUyIsInBhaWRVcFrvljoijMjAxOC0xMC0xNCJ9LHsiY29kZSI6IlJeliwicGfPZFVwVwG8iOilyMDE4LTEwLTE0In0seyJjb2RlRlloiUkMiLClJwYWlkVXBubyl6ljlwMTgtMTAtMTQifSx7ImNvZGUioiJETSIsInBhaWRVcFrvljoijMjAxOC0xMC0xNCJ9LHsiY29kZSI6IkFliwicGfPZFVwVwG8iOilyMDE4LTEwLTE0In0seyJjb2RlRlloiRFB0liwicGfPZFVwVwG8iOilyMDE4LTEwLTE0In0seyJjb2RlRlloiUINvliwicGfPZFVwVwG8iOilyMDE4LTEwLTE0In1dLCJoYXNoljoijNk0NDAzMi8wliwiZ3JhY2VQZXJpb2REYXlzlJowLCJhdXRvUHJvbG9uZ2F0ZWQioiOmZhbHNILCJpc0F1dG9Gcm9sb25nYXRIZCI6ZmFsc2V9-Gbb7jeR8JWQVxdUFAxflJzVU//  
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# STEP 3

## lterm2 + zsh + oh my zsh

安装lterm2

<http://www.terminal2.com/>

安装zsh + oh my zsh

<https://www.jianshu.com/p/95f68e035f33>

<https://www.jianshu.com/p/a3c956a24b58>

<https://github.com/robbyrussell/oh-my-zsh/wiki/Themes>





# STEP 4 课后作业

## Chrome

<https://www.google.com/chrome/>

浏览网页 + Debug工具 + 扩展

Dream Afar New Tab

## homebrew

<https://brew.sh/>

```
/usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"  
brew doctor
```





# Thanks!

Any questions?

