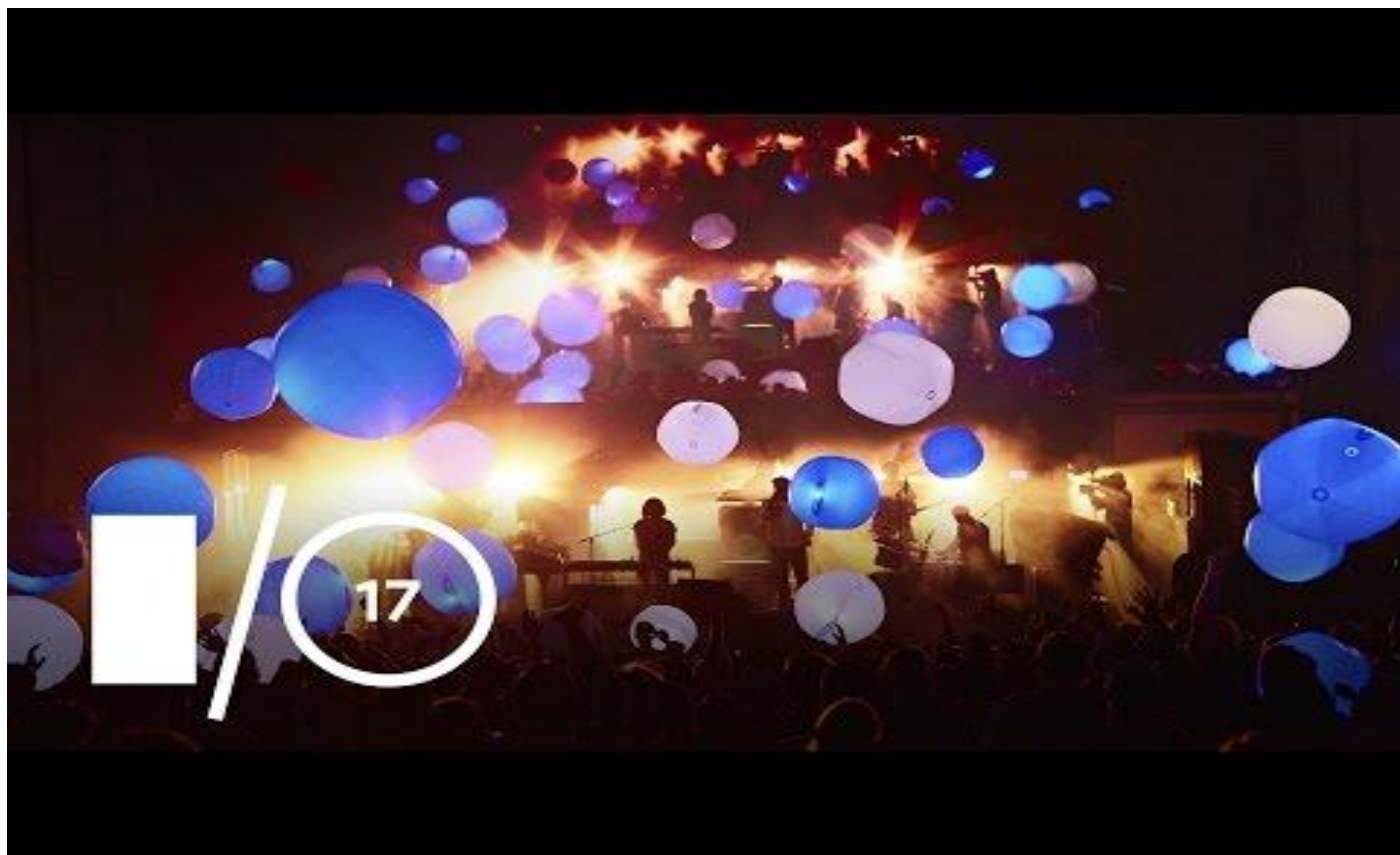


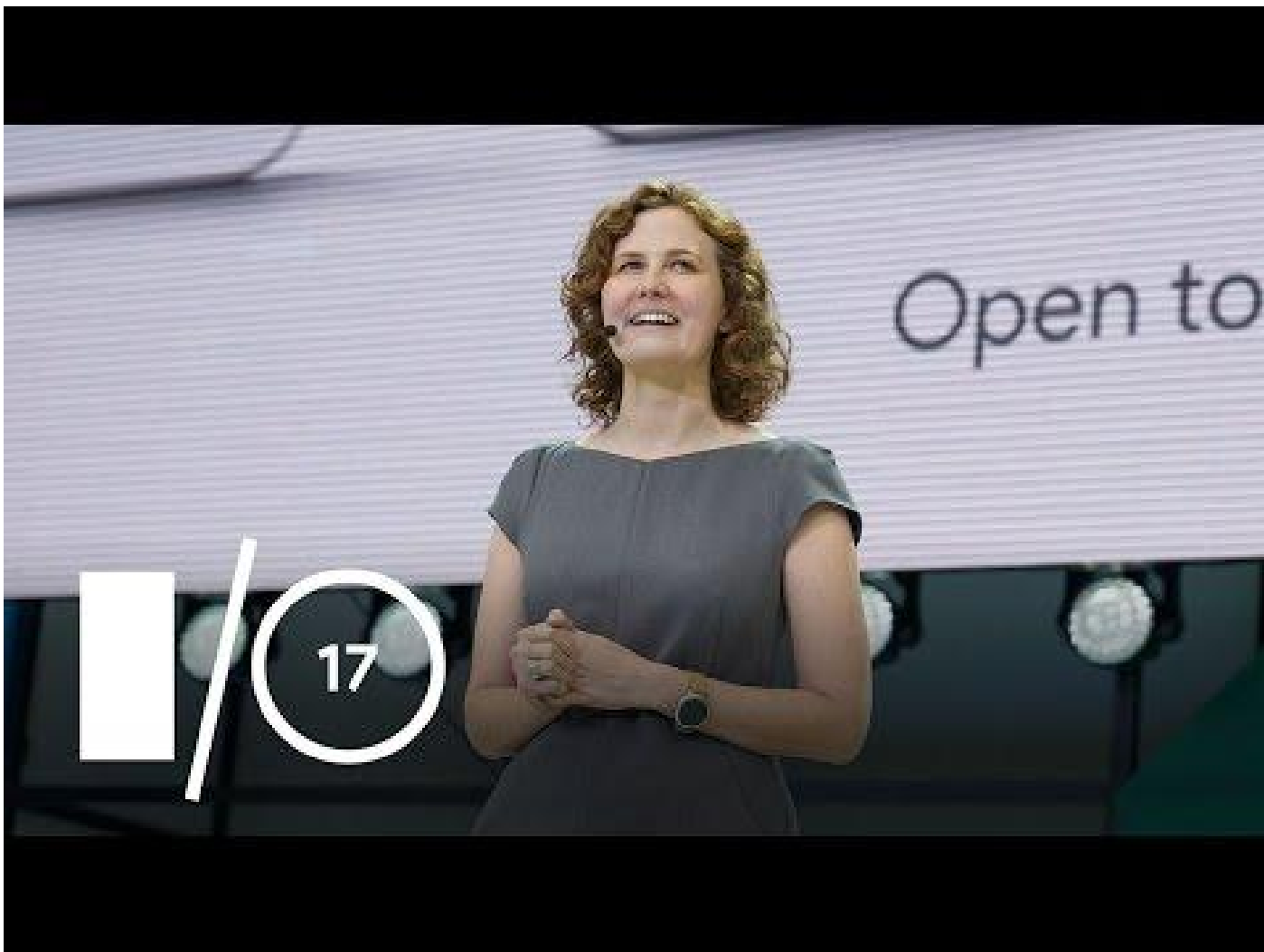
I/O Redux 2017 Tianjin



Google I/O 2017 Redux







Announcement

Kotlin

Android O

Android Studio 3.0 Canary

Firebase

AMP & PWA

Google.ai





Kotlin



#io17



1 Billion & 2 Billion

Oreo VS Oatmeal Cookie

Final APIs

JDK8

Project Treble

Fluid Experience (Picture in Picture,
Notification Dots, Autofill with Google, Smart
Text Selection, Adaptive Icons,
Downloadable Fonts & XML Fonts...)

Vitals

Instant Apps

Google Assistant and Actions

Android GO

The logo for Android Studio, featuring the word "android" in a bold, green, lowercase sans-serif font, followed by the word "studio" in a lighter, grey, lowercase sans-serif font.

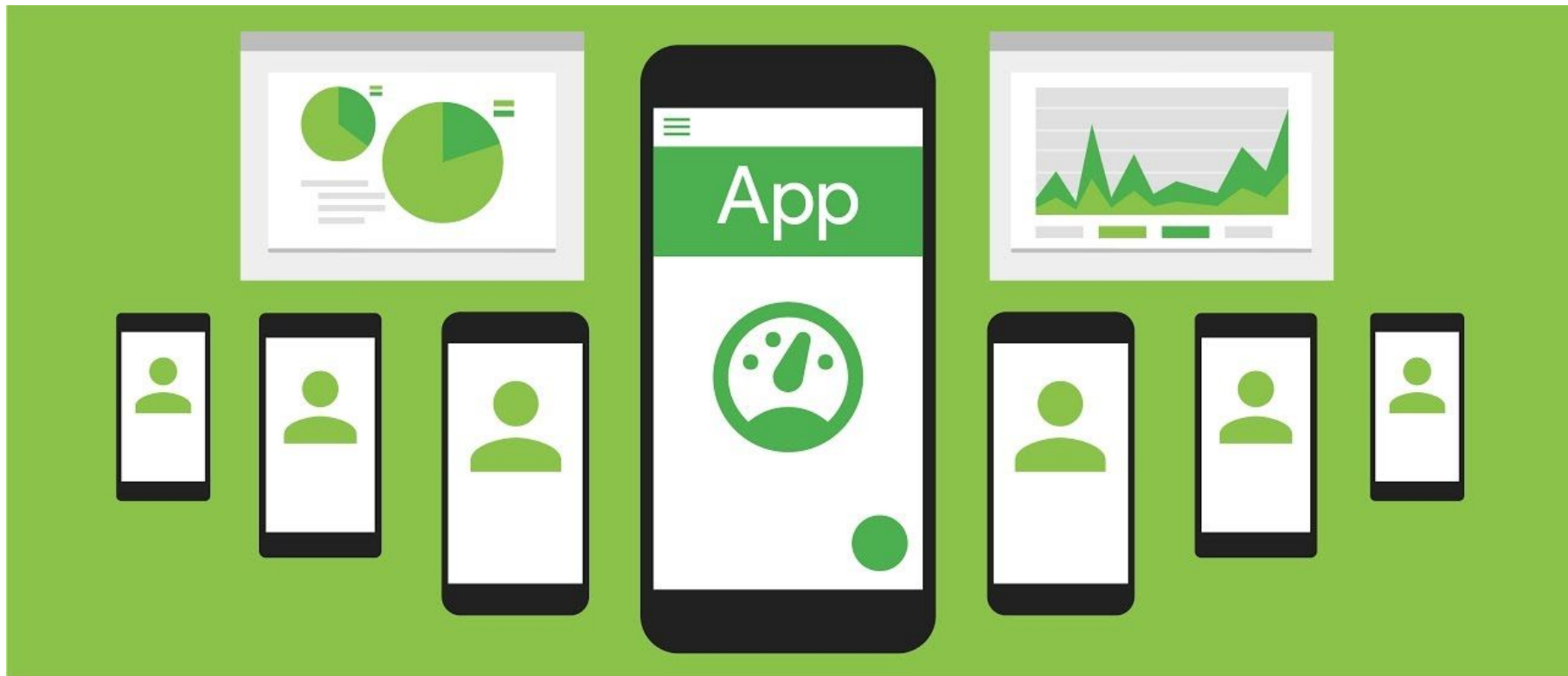
Powered by the IntelliJ Platform

- ❖ 一套全新的应用性能分析工具, 用于快速诊断性能问题;
- ❖ 支持 Kotlin 编程语言;
- ❖ 加快大规模应用项目的 Gradle 构建速度;
- ❖ Android Platform Support

3.0 Canary <https://developer.android.com/studio/preview/index.html>
Architecture Components Preview <https://developer.android.com/arch>



Firebase: What's New in 2017



Firebase Performance

AMP

Instant delivery

Optimized discovery

No user scripts

Static content

PWA

Advanced platform features

Highly dynamic

Slower first delivery

Not easily embedded

AMP Down: Embed AMP as data in a PWA



PWA shell embeds AMP pages into your PWA



beta.mic.com is a PWA with AMP embedded.



Article page loads AMP in PWA shell



AMP Up: AMP to Warm-up PWA



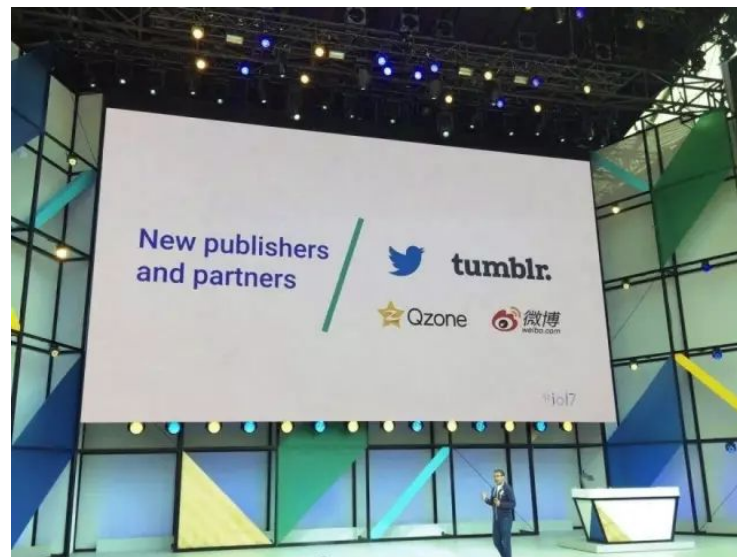
AMP loads instantly, and silently installs Service Worker to "warm up" PWA



<amp-install-serviceworkers>



Site loads instantly once warmed up.



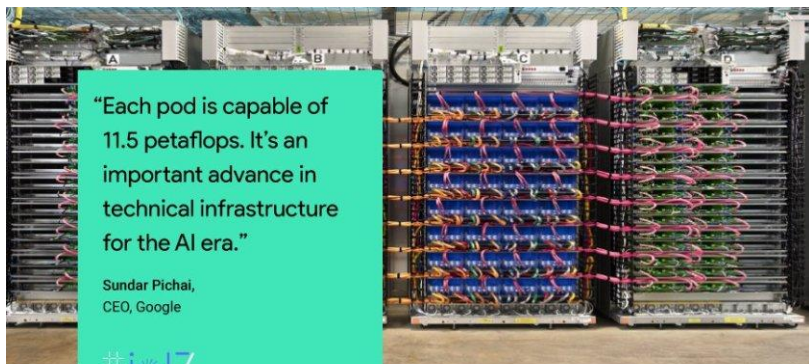


Google.ai

Cloud TPU



Cloud TPU: 第二代 TPU (Tensor Processing Unit), 用于深度学习的训练和推理。通过四个 TPU 的组合板, 可以实现 180 teraflops

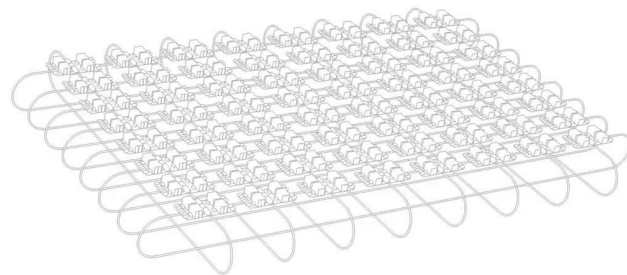


“Each pod is capable of 11.5 petaflops. It’s an important advance in technical infrastructure for the AI era.”

Sundar Pichai,
CEO, Google

#i17

如果将 64 个这样的 TPU 板连接起来组成Pod, 浮点性能可以达到惊人的11.5 petaflops, 可以与世界前五百超级计算机媲美!





Google.ai

Research

Tools

Applied AI

- TensorFlow Version 1.2, 提供了新的高级 API。
- TensorFlow Lite: 一个专门针对移动设备而优化的版本。这个库精简高效, 但依然能使用卷积神经网络和 LSTMs 先进的 API。
- AutoML: 最新的机器学习算法, It's learning to learn, 用神经网络来设计更好的神经网络, 可以解决机器学习中较难的模型设计部分。
- Tensorflow +Everyone 的理念, 推动 AI 技术的大众化。发布乐 Google.ai 平台, 这里汇集了 AI 领域取得的最新成就, 包括最新的研究技术, 先进的工具和基础设施, 以及 AI 应用的案例。
- Actions on Google
- Google Photos
- Google Lens: 可以理解你正在拍摄的场景或以前的照片, 并且给你相应的行为推荐。
- Google Home: 集成最新的 Google Assistant, 提供 Proactive Assistance、Hands-free Calling、Visual Response 新功能
- AI 民主化的意义

Neural networks that learn to build neural networks



to build a better neural network.

