Open Source and Google Cloud
开源与谷歌云

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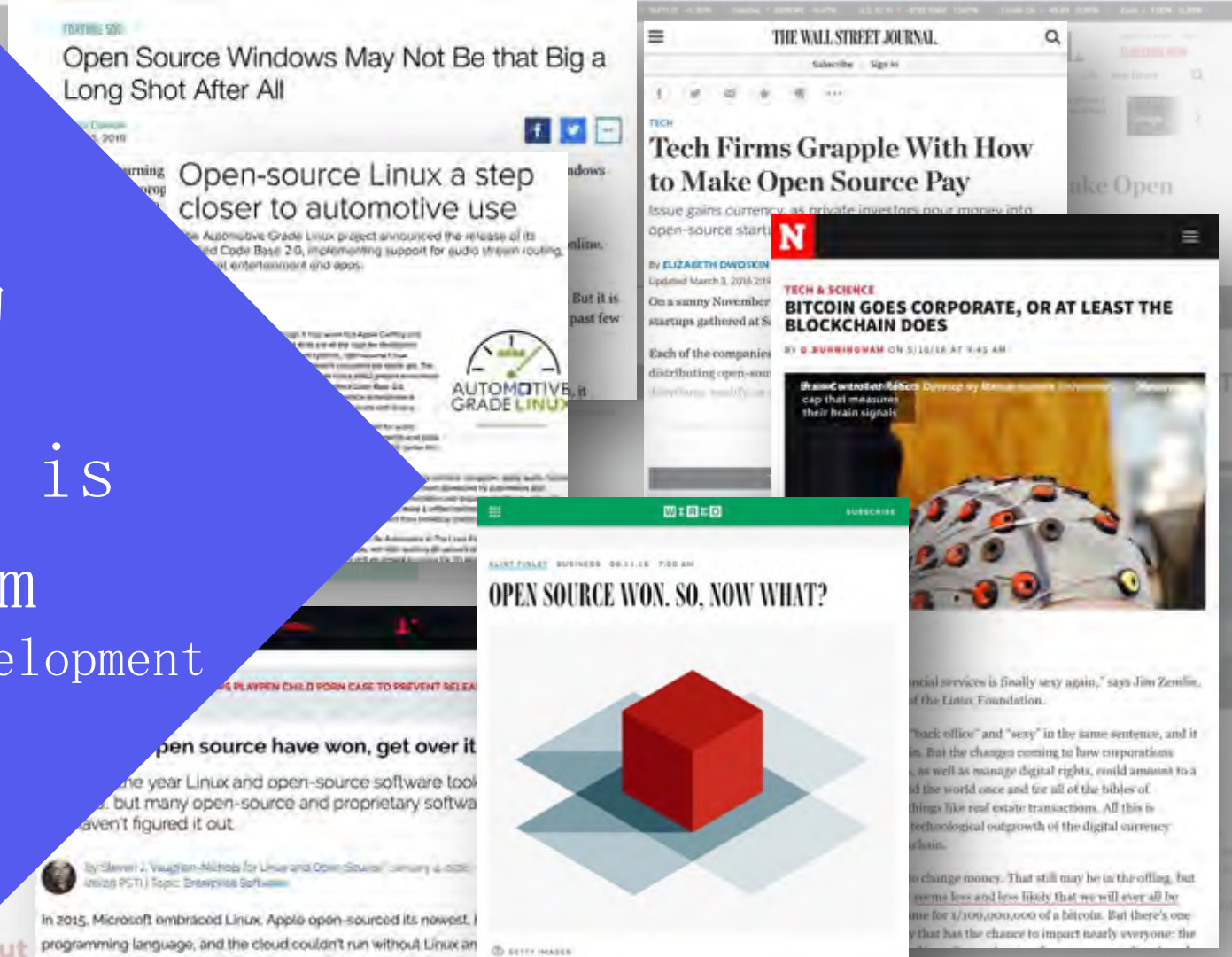
谷歌云全球技术合作伙伴负责人

开源是软件开发的新常态

Open Source is The New Norm For Software Development



The New

Economic Norm

新经济常态

“Organizations that don’t harvest this shared innovation will be unable to compete.
提高组织竞争力的方式就是共同创新。”

开源项目有上百万个
There are Millions of Open Source Projects

GitHub

50,000,000

开放源存储库

sourceforge

430,000

开放源项目

50+

孵化中的项目

120

孵化中的新项目

1,525

项目存储库

Linux是有史以来最成功的软件
Linux is The Most Successful Software in History

53,000
个Linux内核中的源文件

21M+
条源代码

3,900+
个来自全球的开发方

10.3B
典型Linux OS的价值

99.4%
全球最佳性能的计算系统

64.8%
智能手机、平板、手持设备、智能电视和可穿戴式电脑

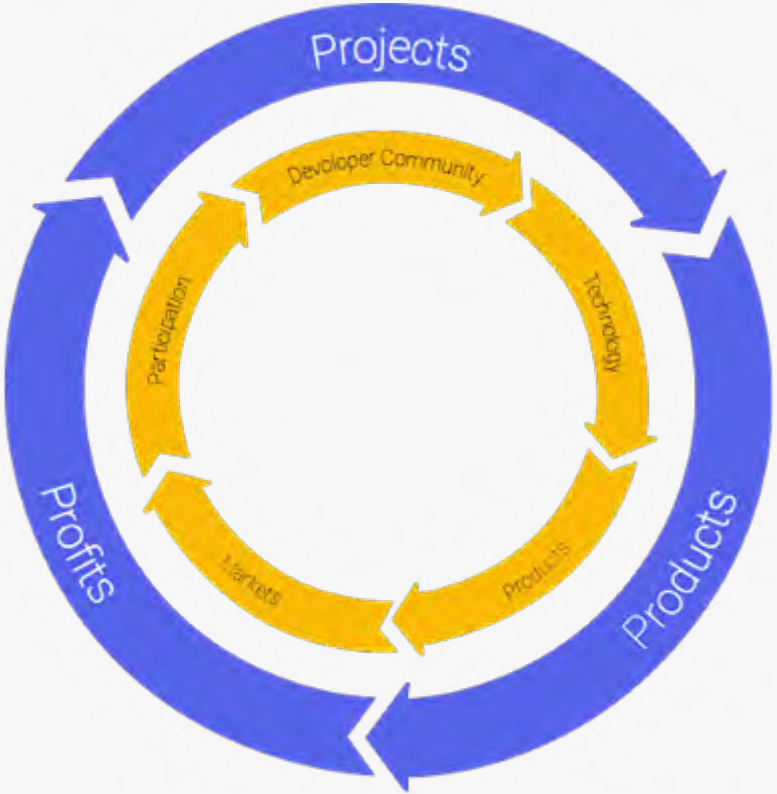
90%
全世界股票交易

生态圈ecosystem

1. A rich and diverse developer community whose code is used to create value which benefits industry and society.
2. 丰富多样化的开发者社群，将代码用于创造价值，惠及行业及社会。

2. Part of that value is in turn reinvested back into the project.
开源代码反哺项目。

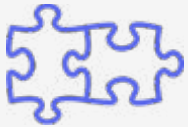
通过打造互信
基金会使生态圈发挥作用
Foundations
enable ecosystems by
creating trust



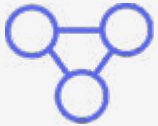
打造可持续的信任需要切实的工作
Creating Sustainable Trust Requires Real Work

管理及成员
Governance and Membership

开发流程
Development Process



基础设施
Infrastructure

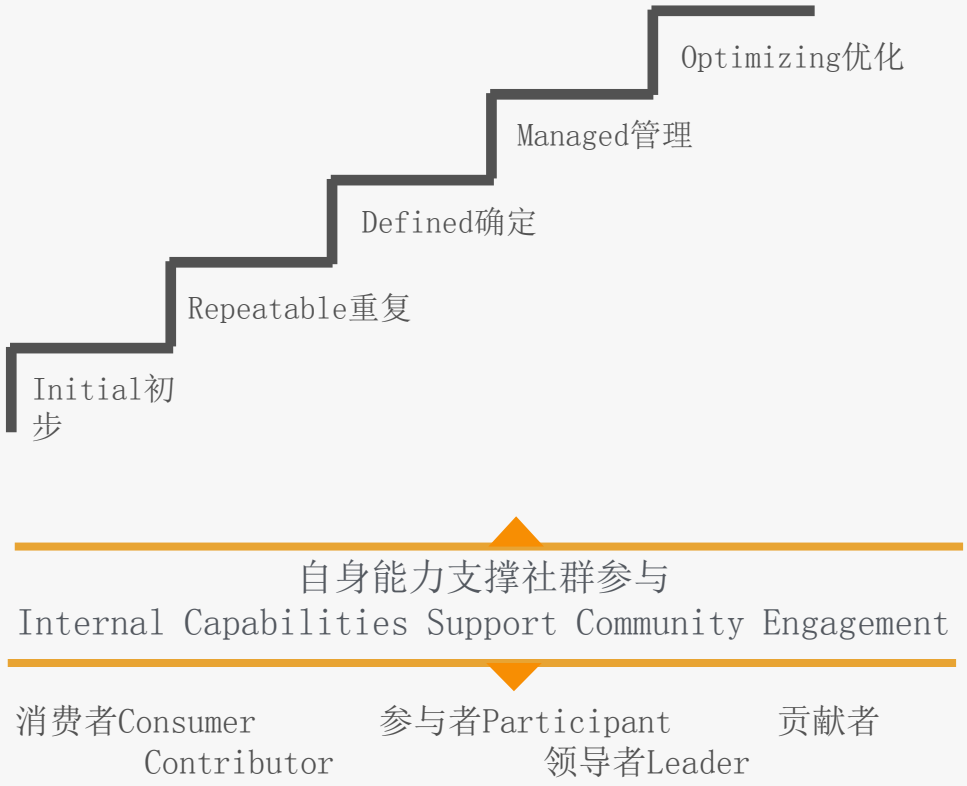


生态系统开发
Ecosystem Development

IP管理
IP Management

谷歌是开源的引领者

Google is a Clear Leader in Open Source



Long History积淀已久

10+

年的项目

Year Projects

领导力
Leadership

巨大投入与贡献
Broad Contribution

287,024

个项目在2016年Github上获得谷歌员工支持，开放源代码
Commits by Googlers to Open Source Projects on GitHub in 2016

15,000+

个项目在2016年获得贡献
Projects Contributed to in 2016

2,500

个项目获得了谷歌人的10多个活动支持
Projects That Have Had 10+ Events from Googlers

项目及计划
Projects and Programs

每年有

50—75

个主要项目计划
主导社群
Primarily Community
Led Events Annually












100+

个安全漏洞在
Chrome和Linux
中被识别

Open Source Matters More for Cloud
开源对云意义更加重大

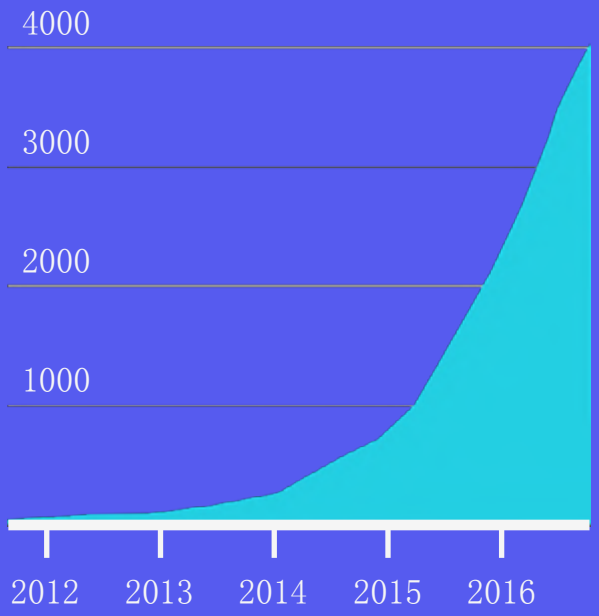
Collaboration fuels Innovation

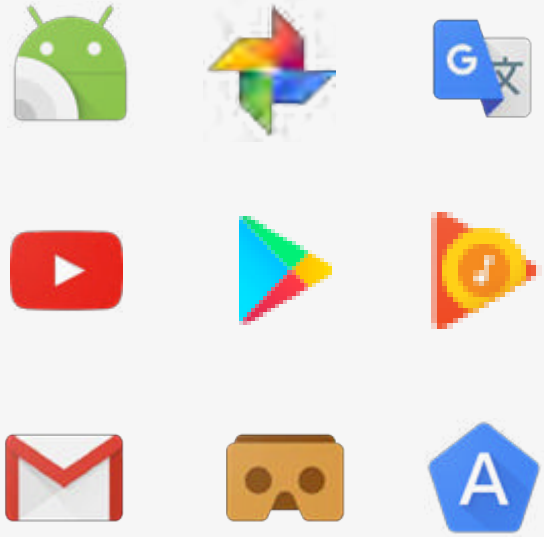
协作驱动创新

TensorFlow的目标

Establish a common platform
建立共同平台
Make this platform the best in the world
打造全世界最优秀的平台
Open source the platform for everyone
开放平台源，惠及所有人

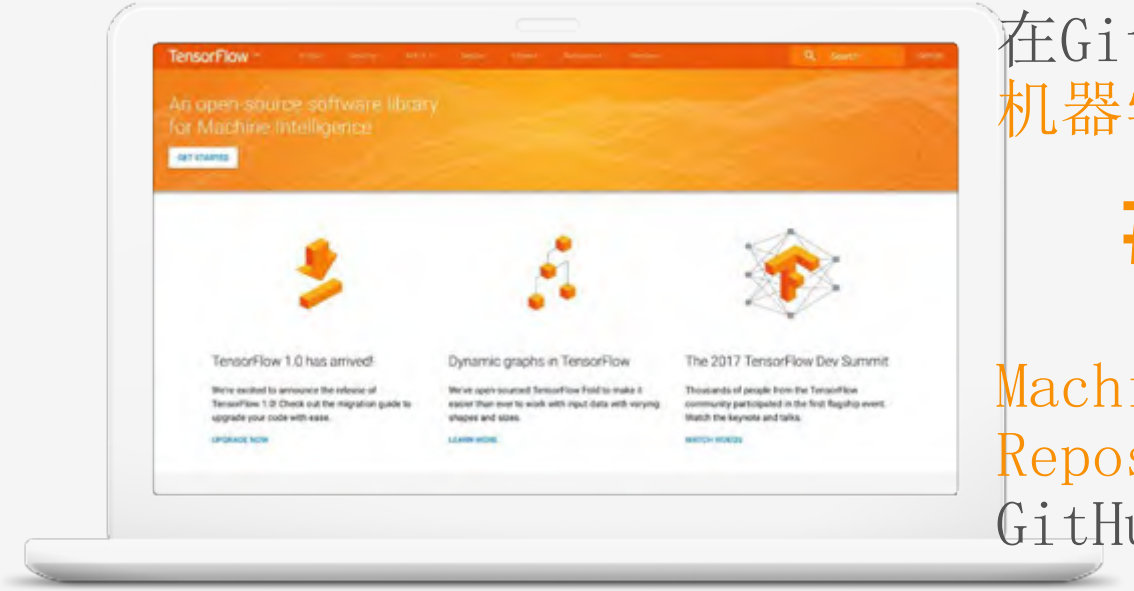
谷歌指引
包括的模式描述文件
Google directories containing **model description files**





还有更多……

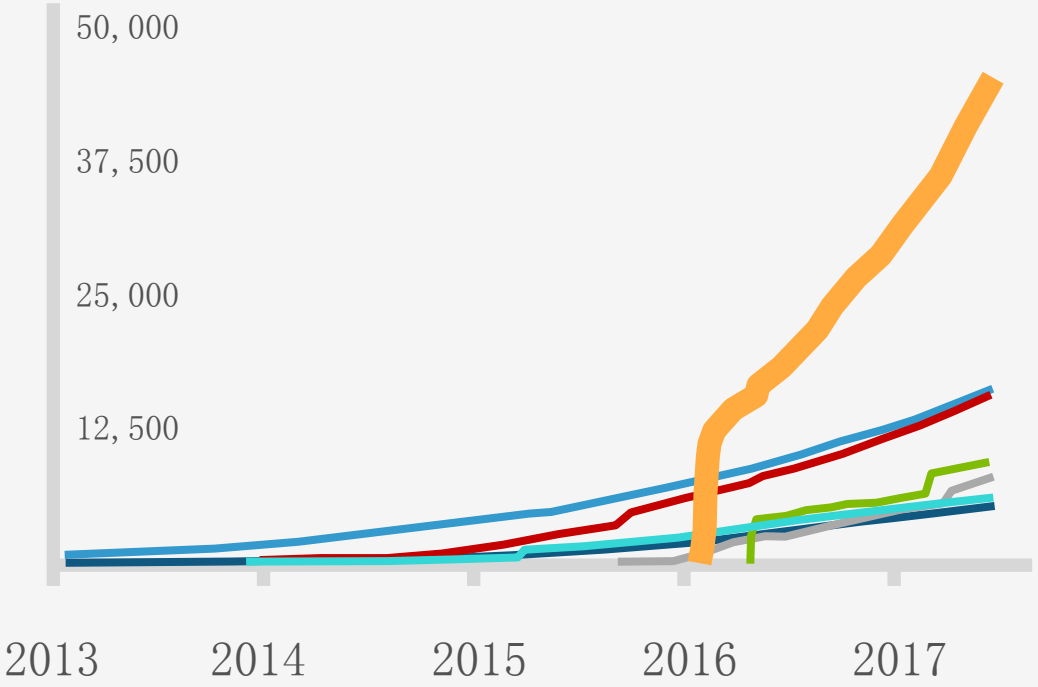
and many more . . .



在Github上
机器学习存储库排名

1

Machine Learning Repository on GitHub



49K+

TensorFlow
GitHub Star数量


airbnb


AIRBUS
DEFENCE & SPACE


ARM


CEVA


CI&T


DeepMind


Dropbox


ebay


Google


IBM Power Systems


intel


JD.京东
.COM


mi


Movidius

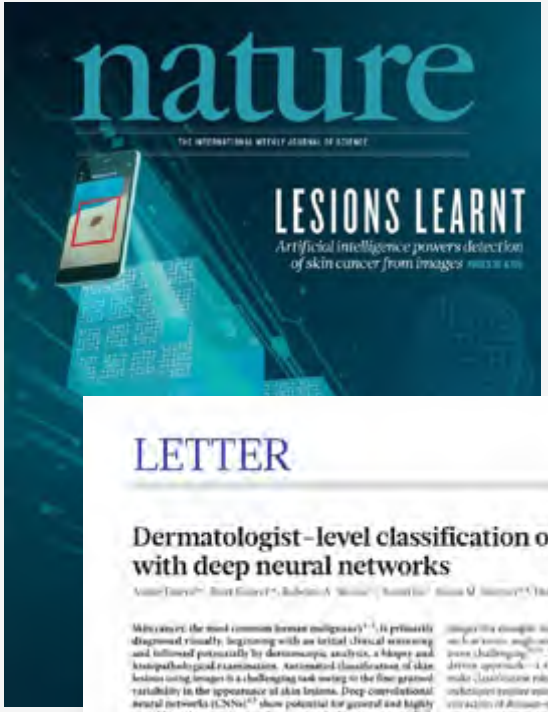

NVIDIA


QUALCOMM


quantiphi


SAP

机器学习，惠及众人
Machine Learning Is For Everyone



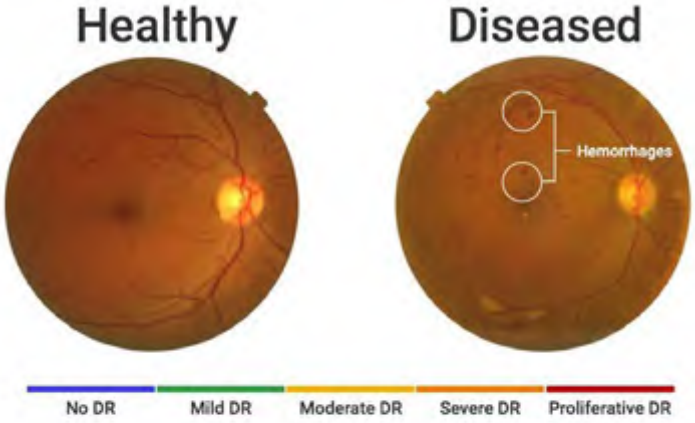
LETTER

Dermatologist-level classification of skin cancer with deep neural networks

JAMA
The Journal of the American Medical Association

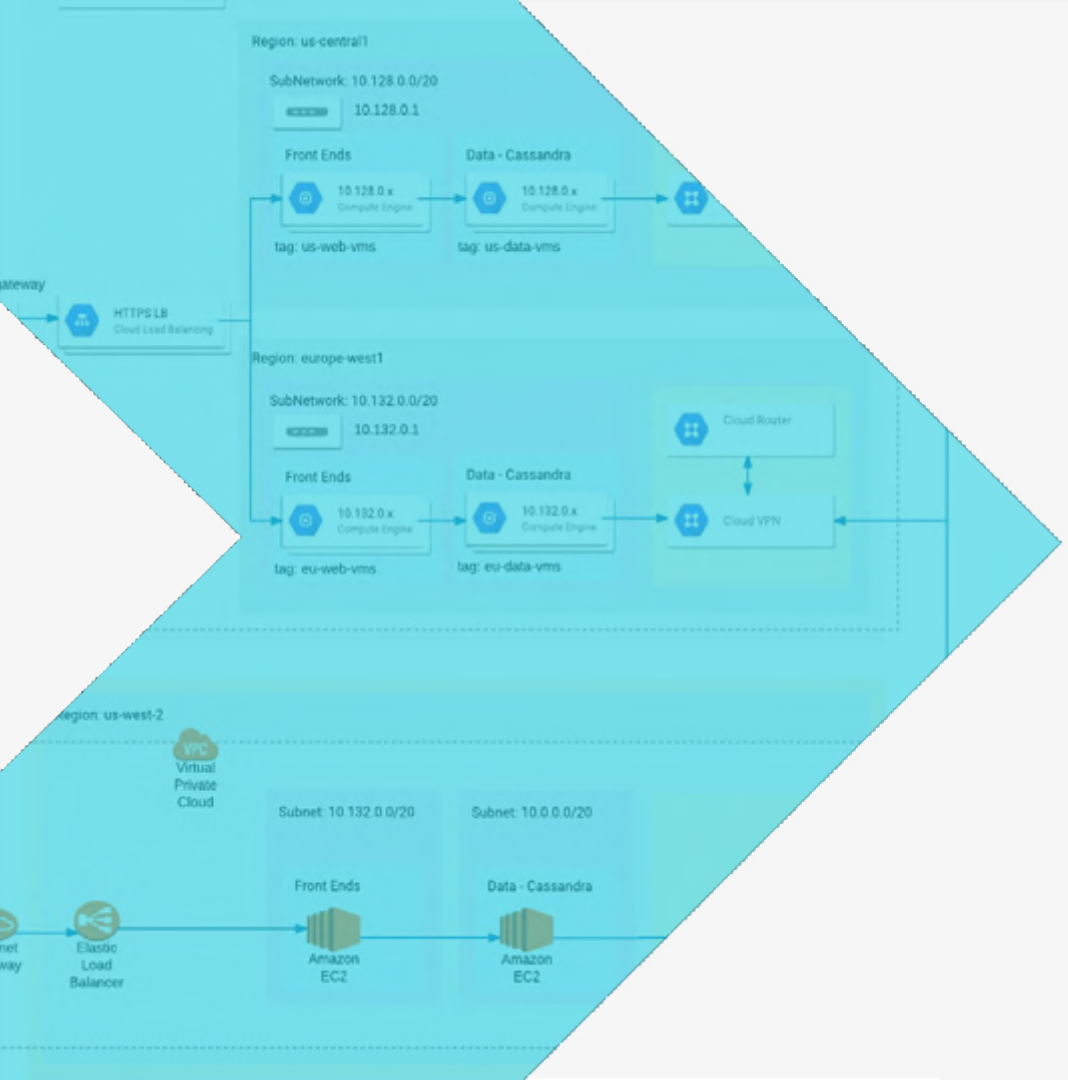
Development and Validation of a Deep Learning Algorithm for detection of Diabetic Retinopathy in Retinal Fundas Photographs

Varun Gulshan, PhD; Lily Peng, MD, PhD; Marc Coram, PhD; et al. **Author Affiliations:** Google Inc, Mountain View, California



“开放式开发” 时代

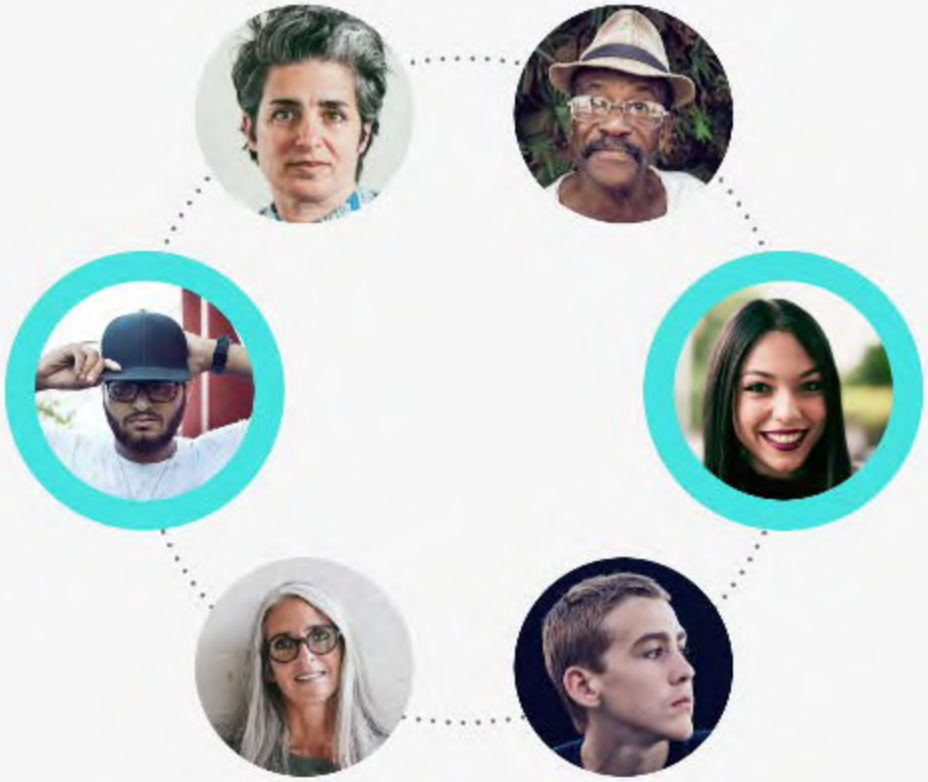
Age of
Open Development



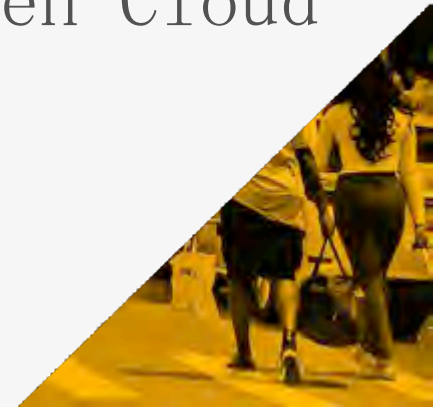
混合云和多重云时代已经到来

Hybrid, Multi Cloud World Is **Now**

Open APIs 开放API平台 + Open Source 开放源 + Open Cloud 开放云 = Open Development 开放式开发



用户从开放云中受益良多
Users Win in an Open Cloud



感谢聆听！
Thank you!