



THE STATE OF CLOUD DEVELOPMENT

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CEO & founder | SlashData



We help the world understand developers

We survey 30,000+ developers annually – across web, mobile, IoT, cloud, Machine Learning, AR/VR, games and desktop – to help companies understand who developers are, what they buy and where they are going next.



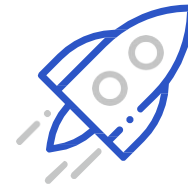
WHO DEVELOPERS ARE

Developer population sizing
Developer segmentation



WHAT THEY BUY

Why developers are adopting
competitor products – and how you
can fix that



WHERE THEY ARE GOING

Emerging platforms – augmented &
virtual reality, machine learning

TRUSTED BY

the leading tech platforms



SLASHDATA RESEARCH

KEY FIGURES

10 DEVELOPER
AUDIENCES



Mobile



Desktop



Web



Cloud

Industrial
IoT

Games

Augmented
& Virtual
RealityMachine
Learning
& Data
ScienceConsumer
ElectronicsApps/extensions
for 3rd party
ecosystems

30,000+

DEVELOPERS
ANNUALLY

2

SURVEY WAVES
ANNUALLY

19

GLOBAL WAVES
TO DATE

165

COUNTRIES
REACHED

40+

RESEARCH STUDIES
PER YEAR

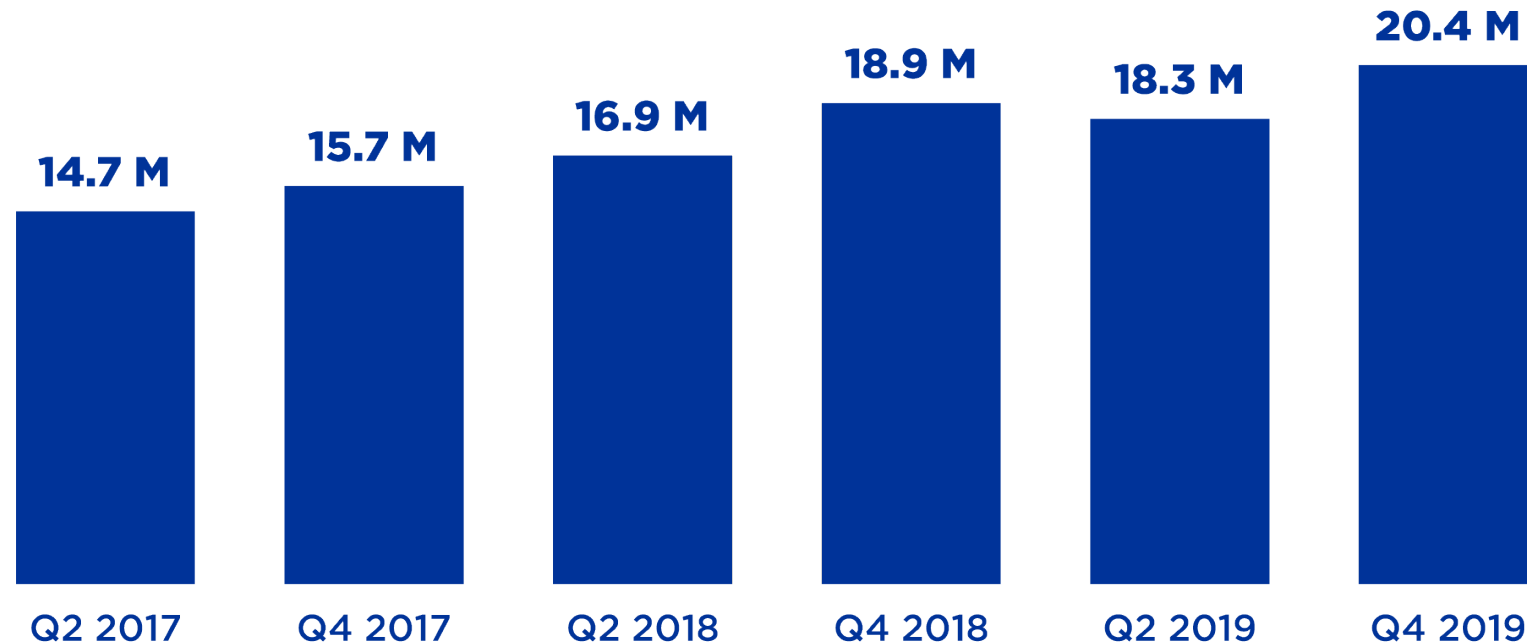
80+

PARTNERS & CHANNELS
FOR GLOBAL REACH

9

CUSTOMERS IN TOP-20
GLOBAL BRANDS

HOW FAST IS THE DEVELOPER POPULATION GROWING?



45M

DEVELOPERS GLOBALLY IN 2030

“

The developer population
will more than double in
the next decade

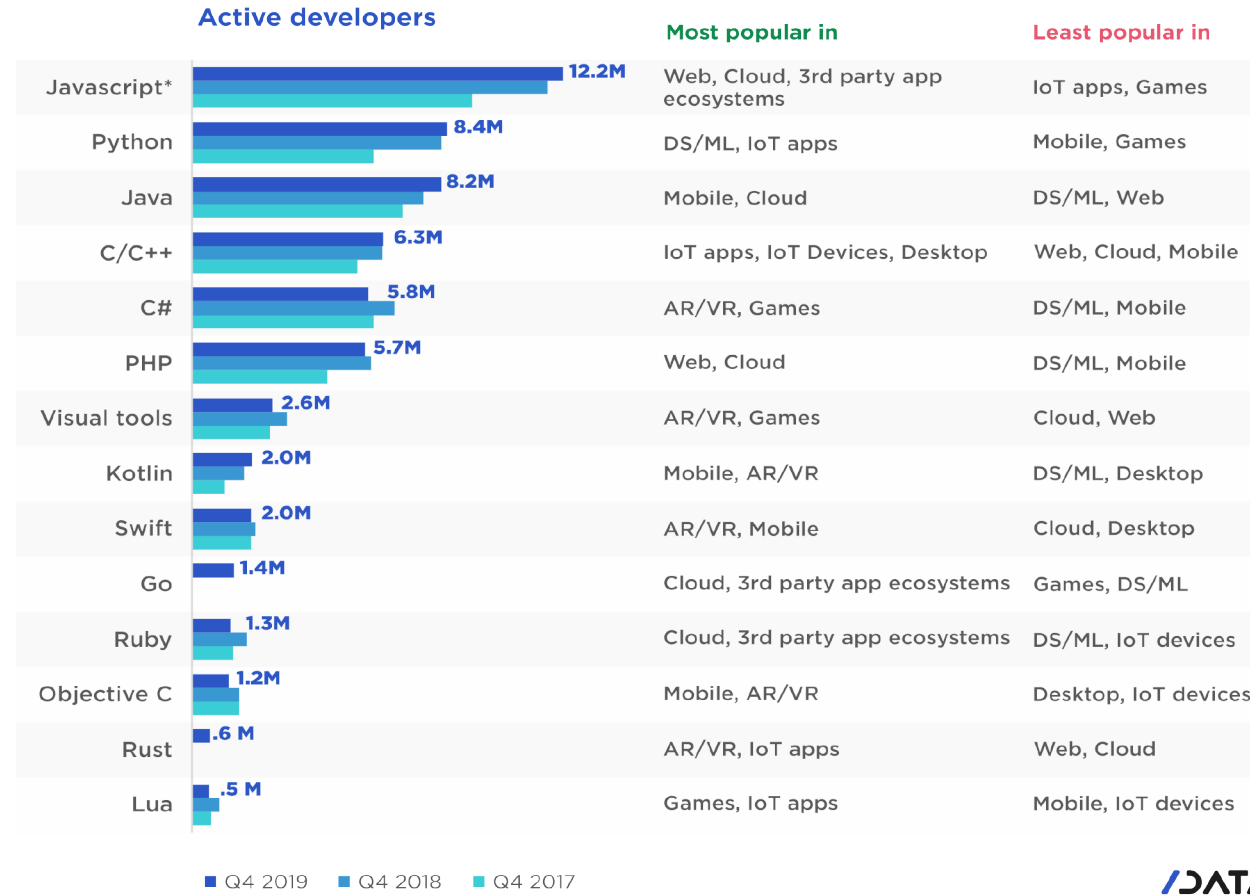
WHAT ARE DEVELOPERS WORKING ON?

% of developers in each sector (n=17,295)

Sector	% Developers	% Professionals	% Hobbyists/Students
Web apps / SaaS	64%	70%	30%
Backend Services	42%	76%	24%
Mobile apps	40%	49%	51%
Desktop apps	34%	52%	48%
Machine Learning / AI / Data science	27%	38%	62%
Games	14%	17%	83%
Apps/extensions for 3rd party ecosystems	12%	62%	38%
Industrial IoT	10%	53%	47%
AR/VR	8%	26%	74%
Consumer electronics devices	7%	37%	63%

JavaScript, Python and Kotlin have grown the fastest

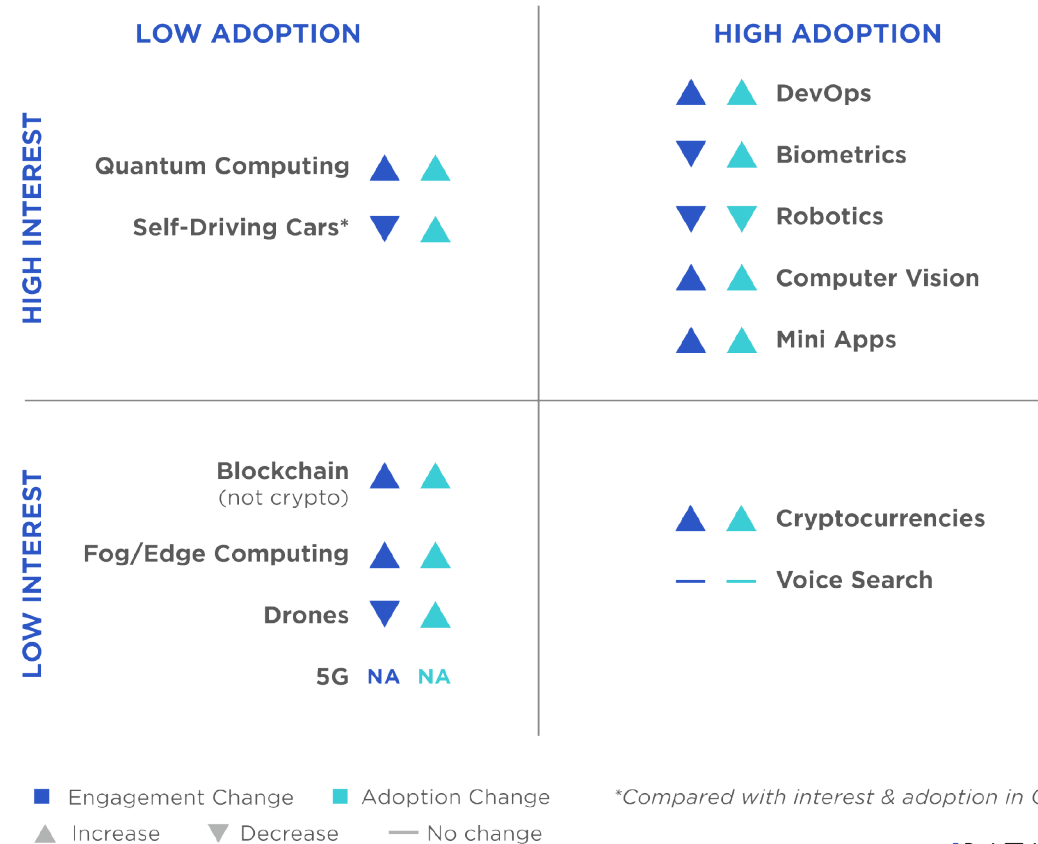
Active software developers, globally, in millions Q4 2019 (n=12,066)



(*) JavaScript includes CoffeeScript, TypeScript

DevOps and fog/edge computing had the largest increase in adoption and engagement

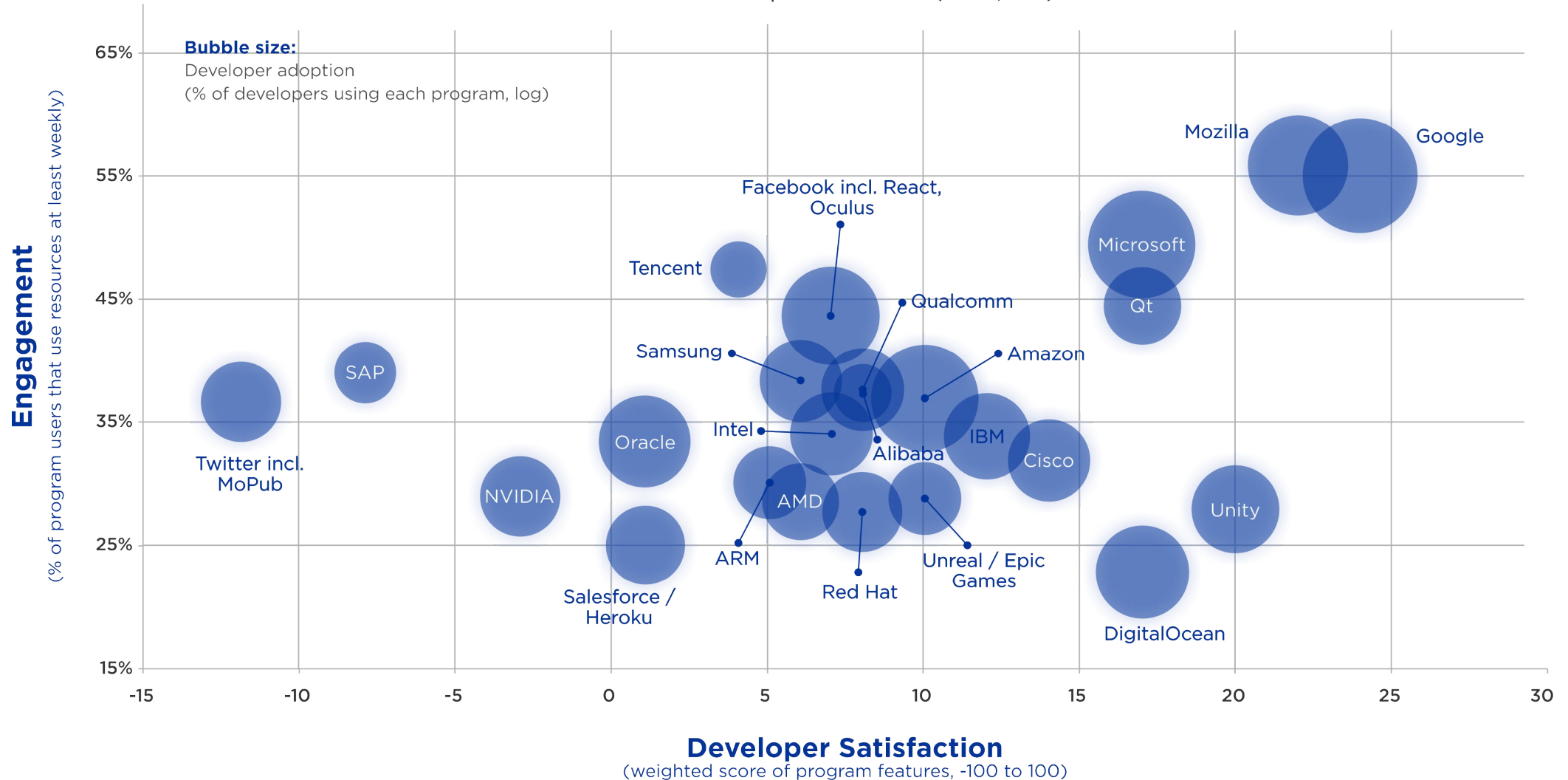
between Q4 2018 (n=11,777) and Q4 2019 (n=16,068)



*Compared with interest & adoption in Q2 2019

The developer program benchmark: Google, Mozilla & Microsoft lead the pack

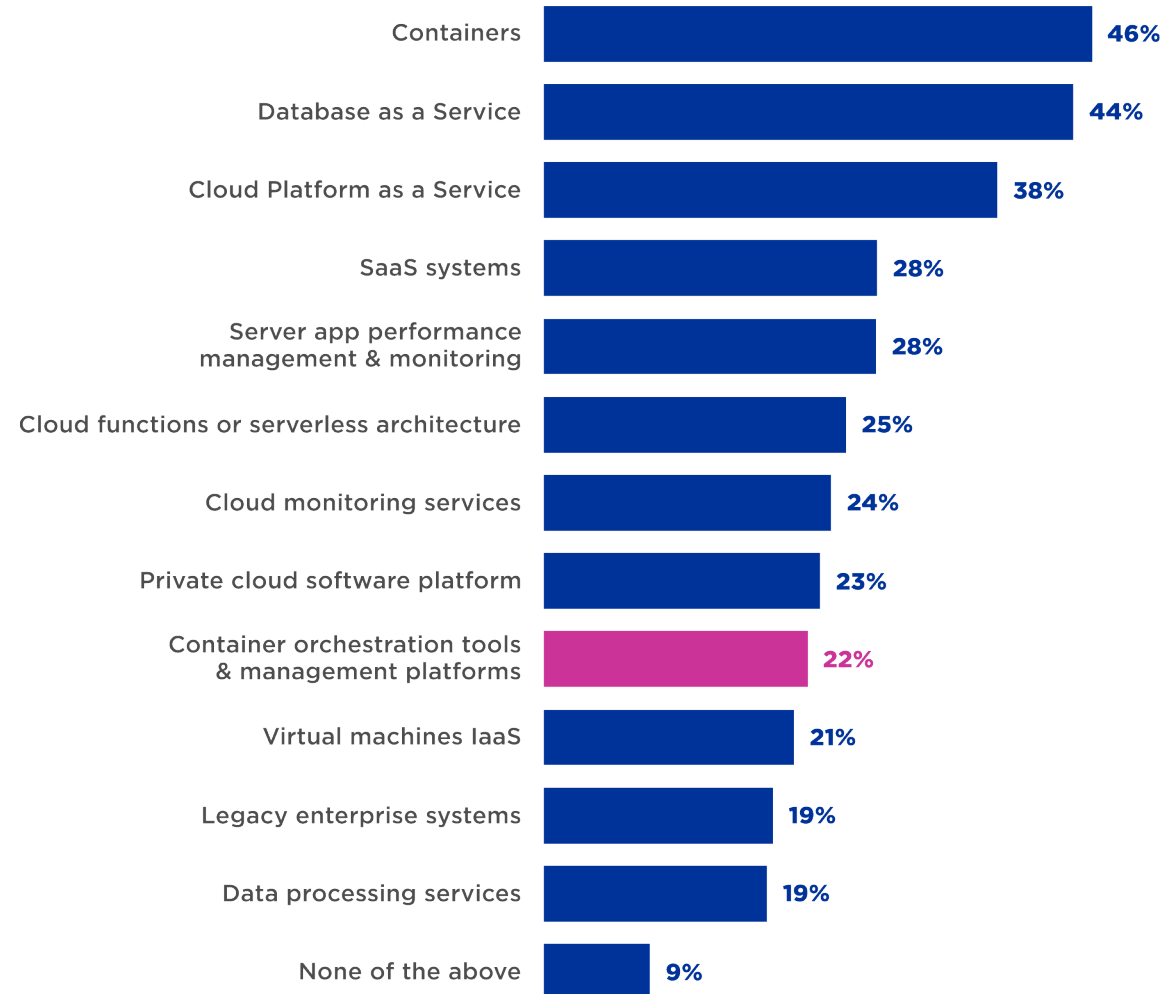
% of developers Q4 2019 (n=14,597)



Containers is the leading technology in backend development

% of backend developers (n=4,096)

Backend technologies used in the past 12 months

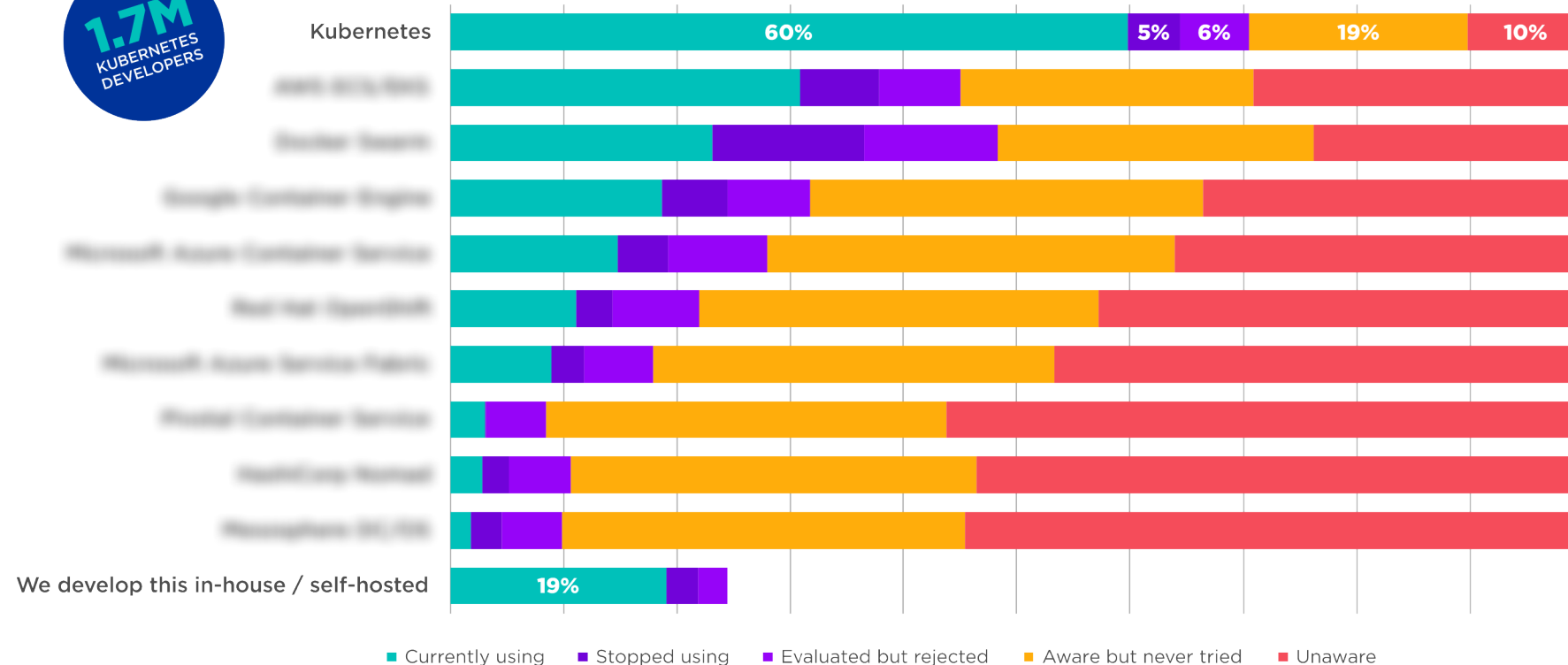


Kubernetes mindshare is almost twice as high as the first runner-up

% of backend developers who use orchestration tools (n=899)

Container orchestration tools & management platforms usage and awareness

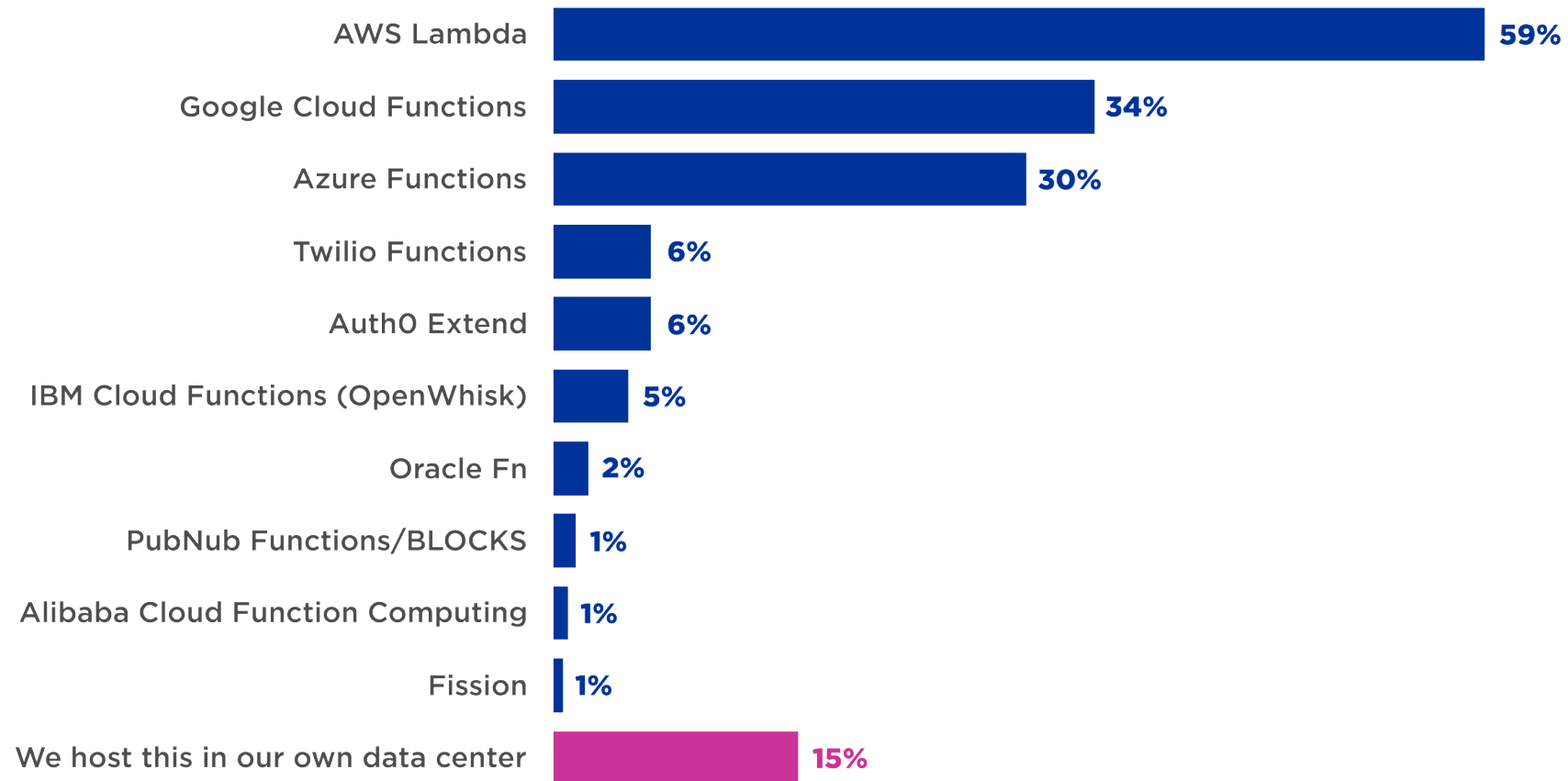
1.7M
KUBERNETES
DEVELOPERS



59% of serverless users are using Lambda

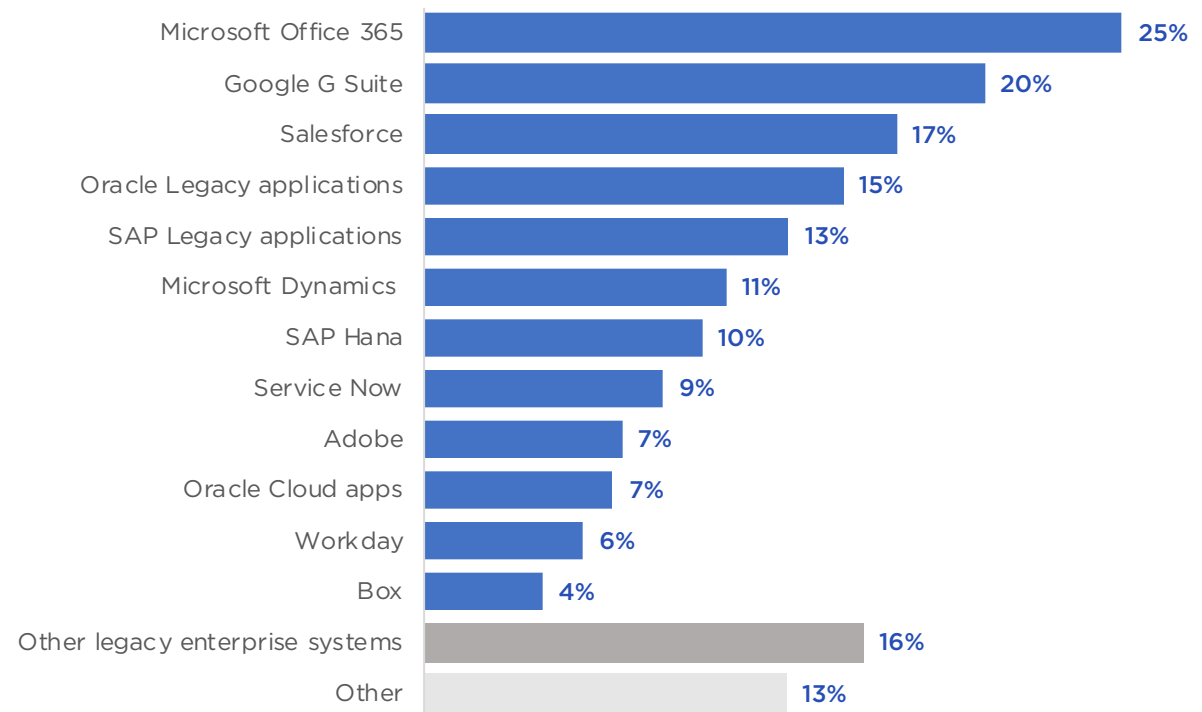
% of backend services developers using each Cloud function or serverless architecture platforms Q2 2019 (n= 817)

Cloud functions or serverless architecture platforms mindshare



A quarter of all developers extending SaaS and Enterprise systems are extending Office 365

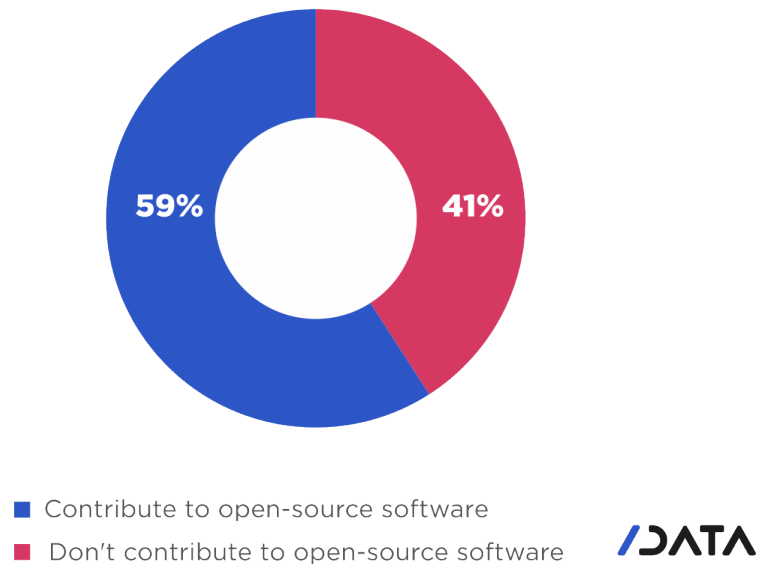
% of developers (n=830)



Open Source is now mainstream

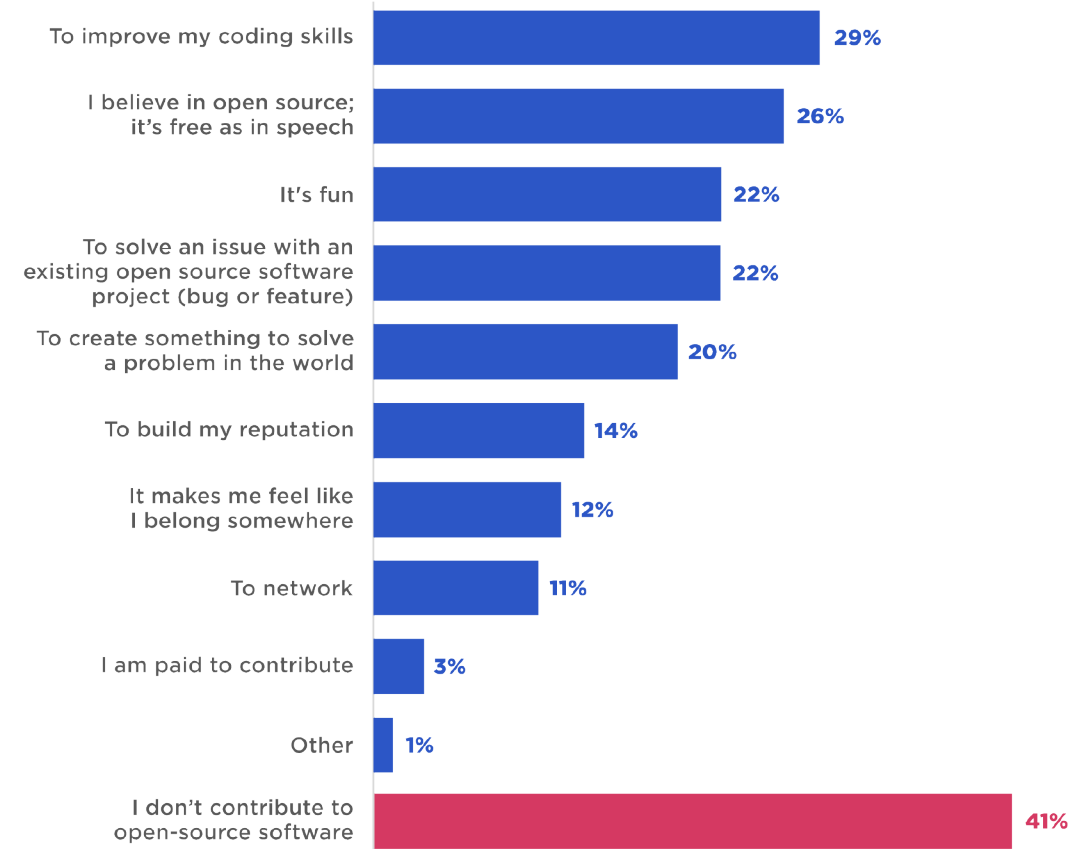
3 out of 5 developers contribute to open-source software

% of developers Q4 2019 (n=16,152)



29% of developers contribute to open-source software to improve coding skills

% of developers by reason for contributing to open-source, Q4 2019 (n=16,152)



We help you understand Developers.

If you could speak to 30,000+ developers what would you ask them?

Reach out to

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