

DEVELOPER ECONOMICS

# STATE OF THE DEVELOPER NATION Q1 2017

The latest trends  
from a survey of 21,200+ developers

<http://vmob.me/DE1Q17>





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Leading media channels  
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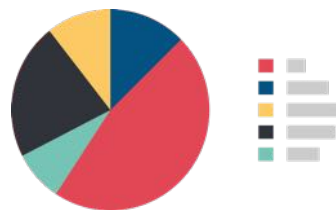
# We help the world understand developers

We survey 40,000+ developers annually – across mobile, IoT, cloud, 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 reality, machine learning, messaging bots

GLOBAL SURVEY REACH

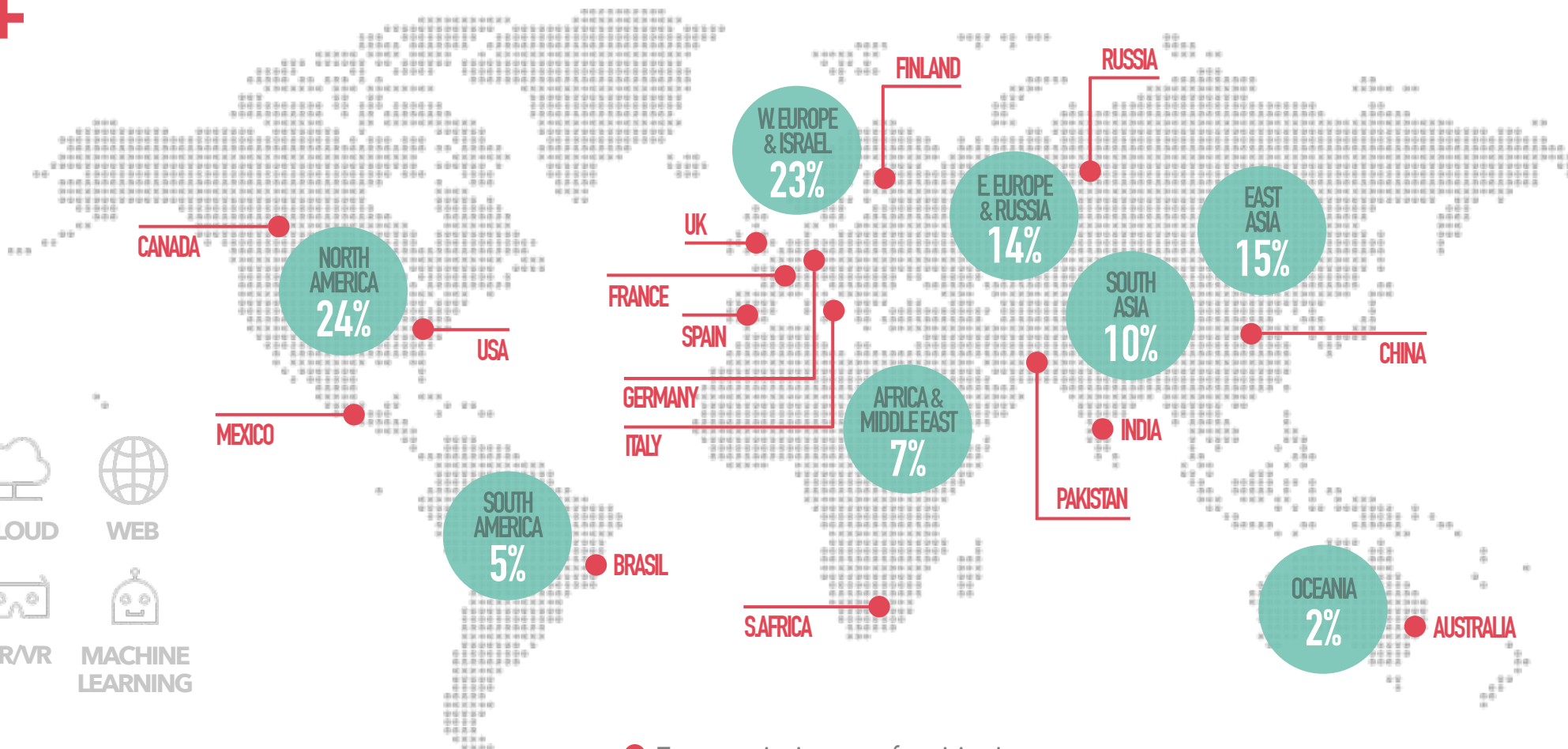
# The largest developer research, from mobile to cloud to ML

Geo distribution of respondents of the 12<sup>th</sup> Global Developer Economics Survey (Nov - Dec 2016)

**21,200+**  
DEVELOPERS

**160+**  
COUNTRIES

**8**  
SECTORS



● Top countries in terms of participation to our surveys

# 1

## Challengers chasing the cloud prize

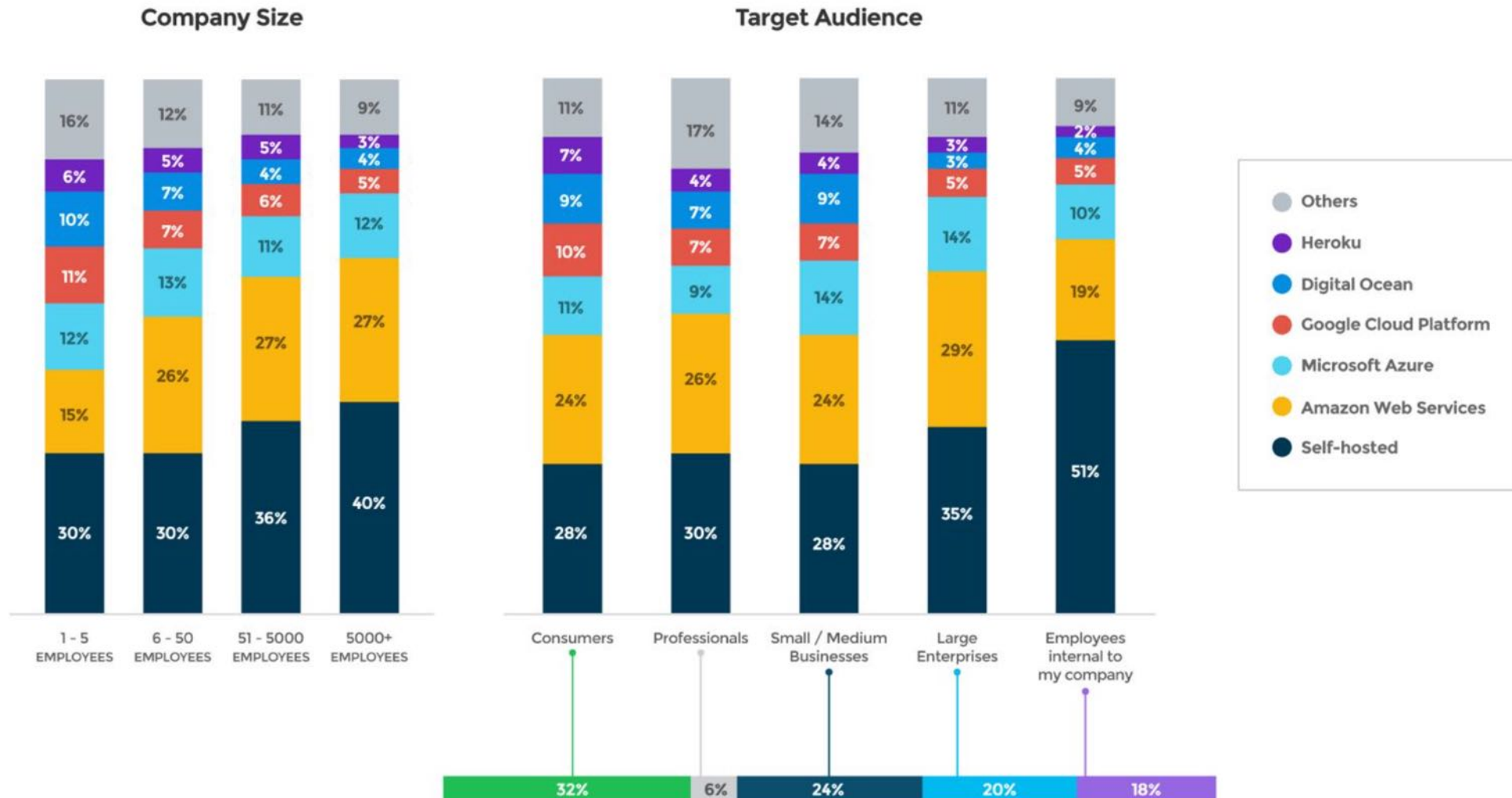
Amazon can't reinvest their cloud profits fast enough.

Amazon leads at every company size although, for the smallest companies (1-5 employees) where Amazon has a very small lead over Microsoft and Google.

Microsoft's share of primary developer usage is consistent at 11-13% across company sizes.

# 51% of internal apps still self-hosted

% of cloud developers primarily using each cloud host, split by company size (n=5,383) and target audience (n=4,894)



# 2

## AR/VR: a popular hobbyists playground

AR and VR audiences have little overlap.

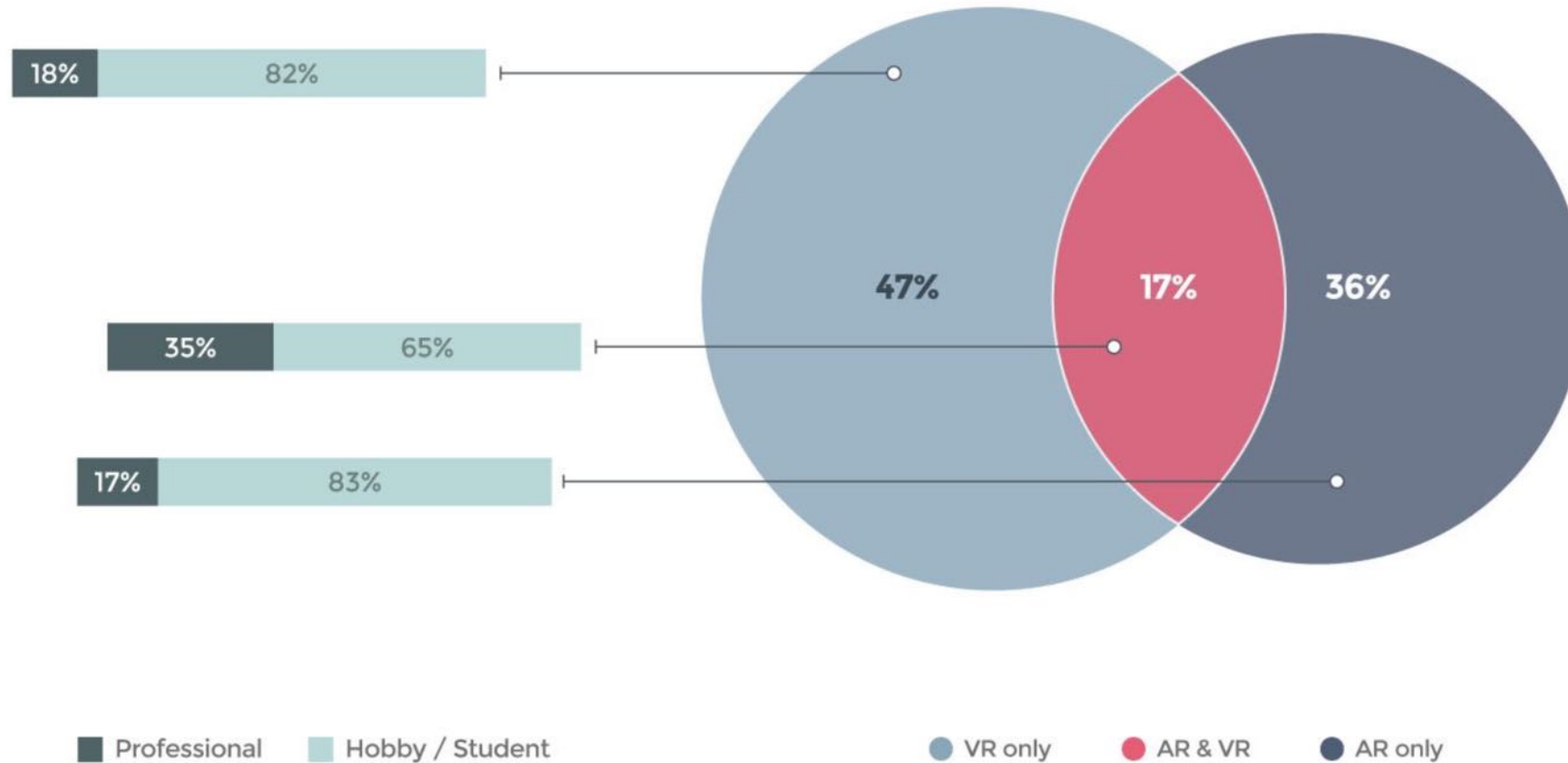
Out of AR/VR developers, 78% are AR hobbyists and 80% VR hobbyists.

C# is the most popular primary programming language, followed by C/C++ and Java.

Almost 90% of AR/VR developers would be considered juniors, having less than 2 years experience. Many are newcomers who will not be deeply invested in any tools, technologies or platforms.

# AR and VR developer audiences have little overlap

% of AR/VR developers who are involved in AR only, VR only, or both, and the % involved as professionals or hobby / student in each group  
(n=1,318)

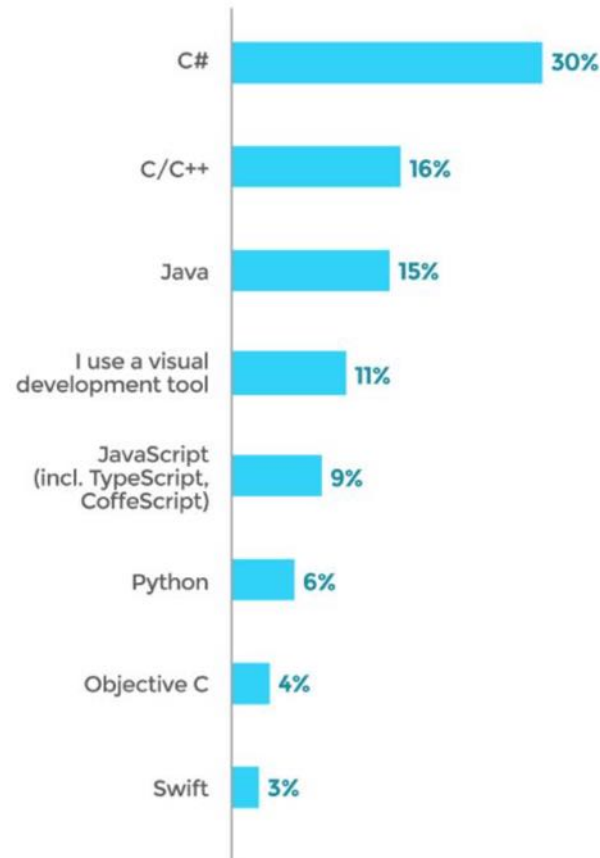




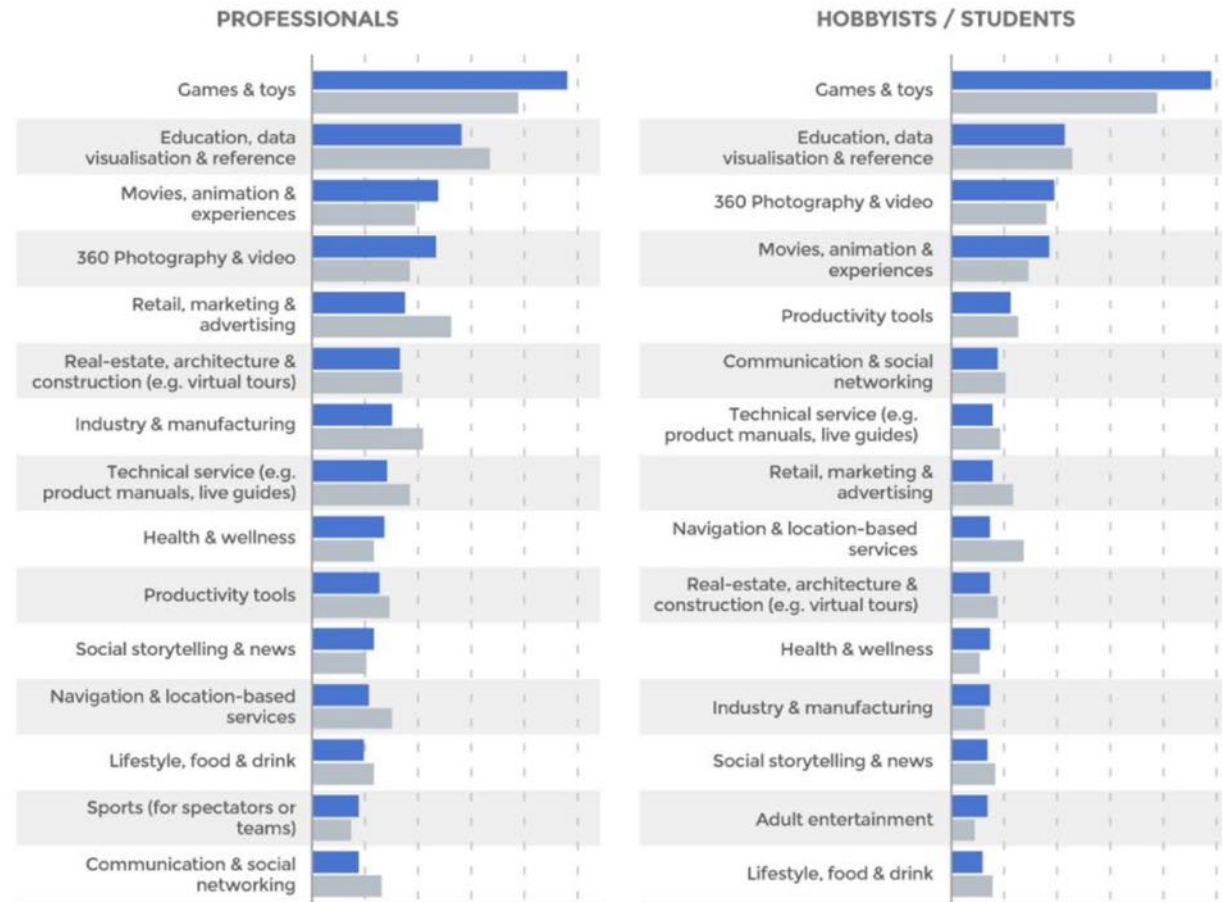
# C# leads as a priority language for AR/VR development

% of Augmented / Virtual Reality (n = 1,838)

Programming languages prioritised for AR/VR development



Augmented and Virtual Reality application areas targeted by professionals and hobbyists



# 3

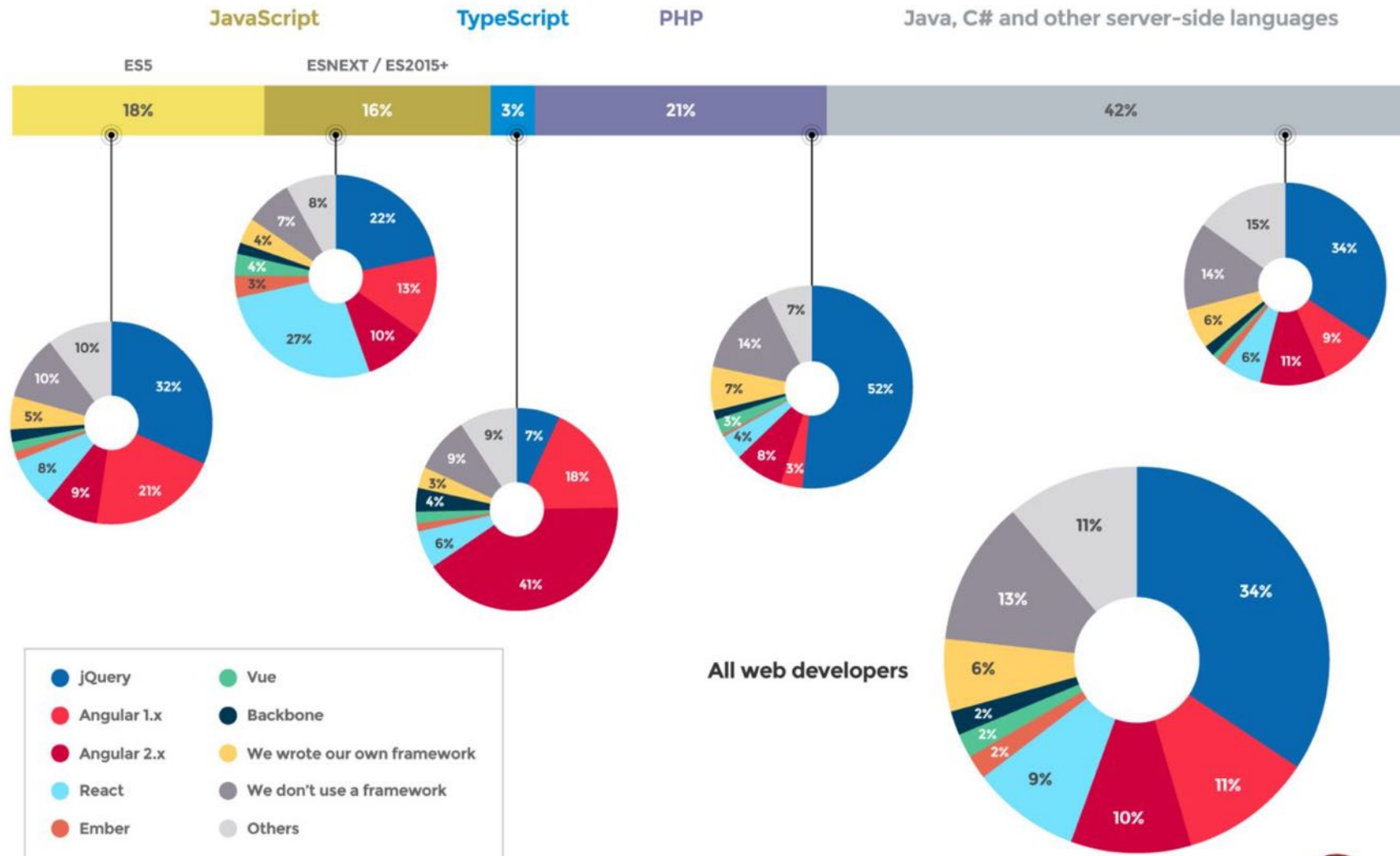
## JavaScript: Angular has a surprising lead over React

Besides jQuery at 48% of web devs, Angular and React account for 30%. No other single library or framework accounts for more than 2% of primary usage.

Angular is the primary framework for twice as many developers as React, despite the online discussions and open source traction of React.

# 21% of web developers prioritise Angular vs 9% for React

% of web developers using each JavaScript library or framework, overall and split by primary language (n=5,883)



# 4

## The fragmented IoT tool sector

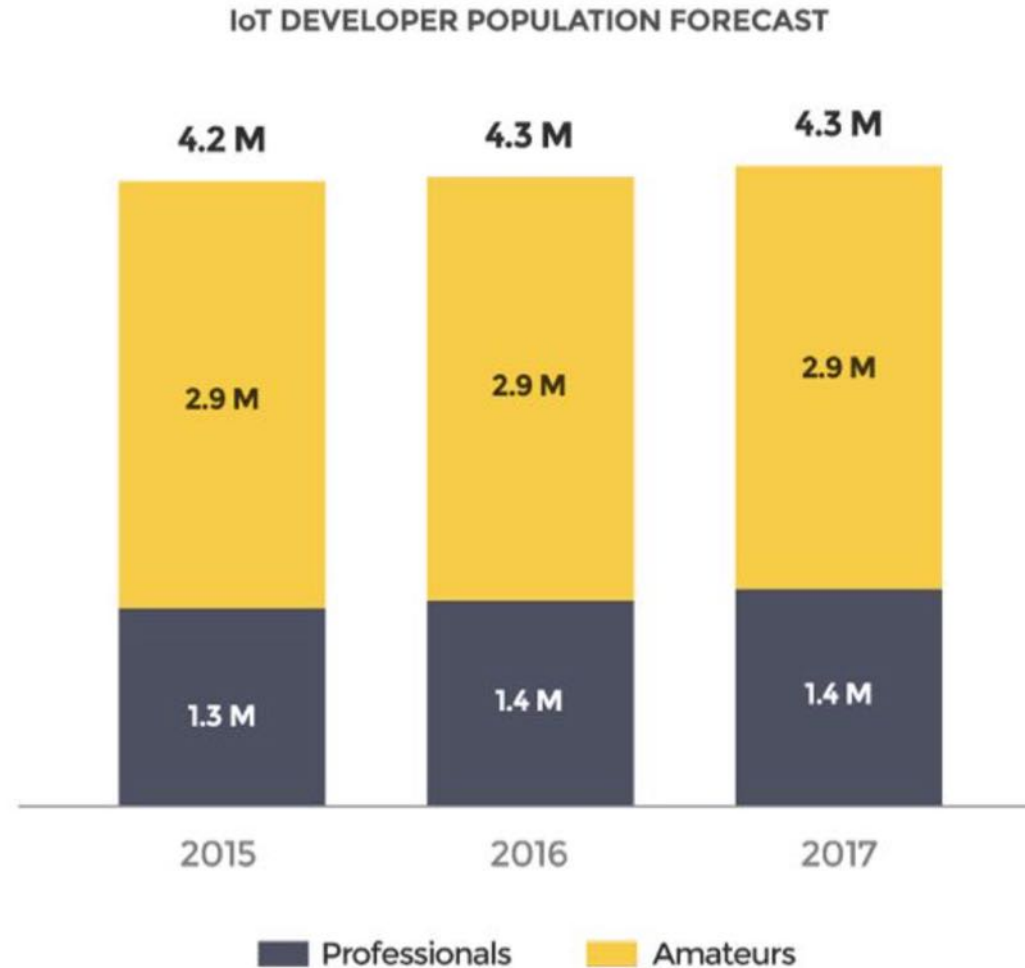
Growth of IoT developers has stalled at around 4.3M.

Internet of Things is lacking the kind of platforms that connect developers to an addressable market. The IoT tool market is still underdeveloped and heavily fragmented.

38% of IoT pros use IoT Cloud Platforms.

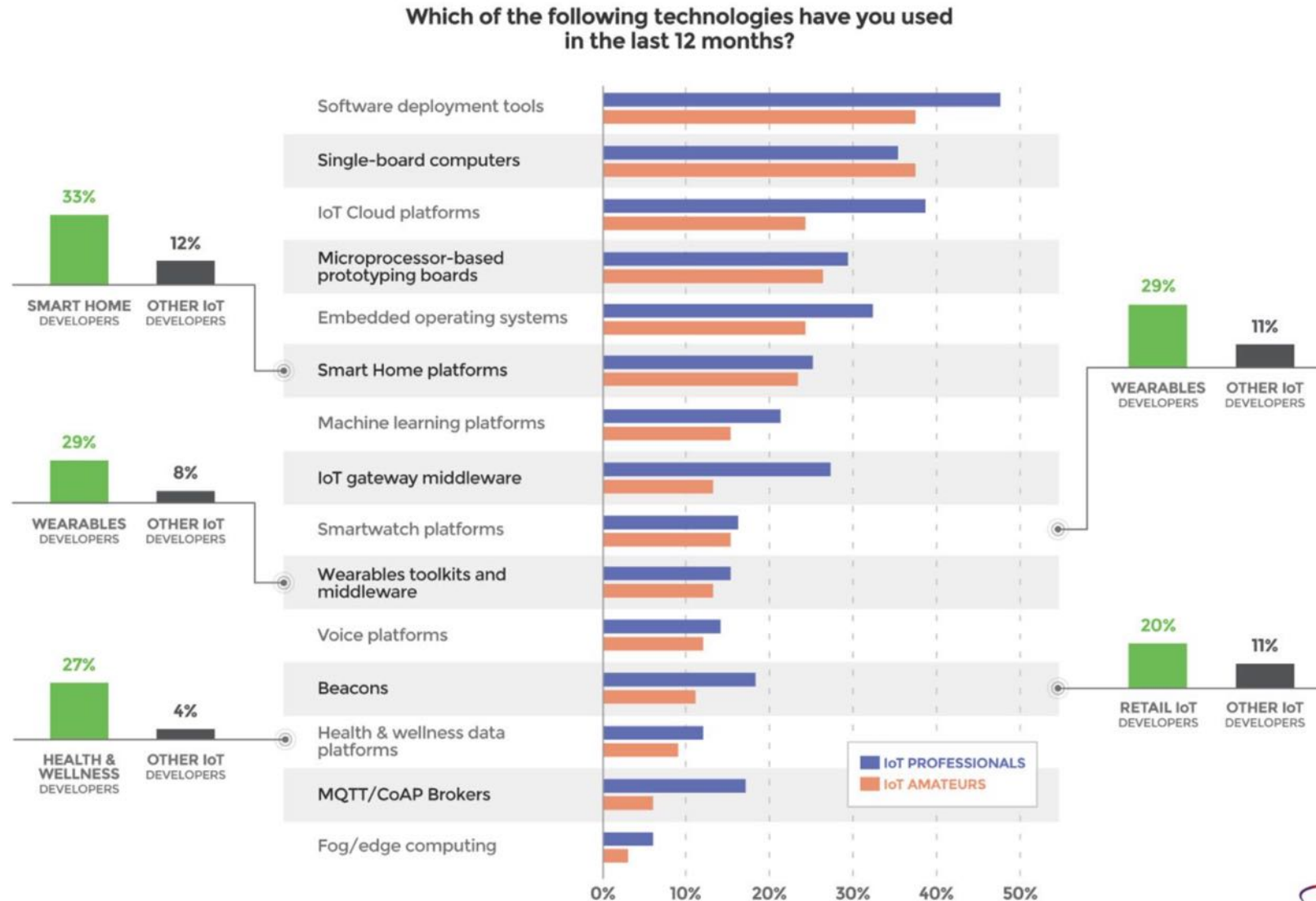
# Growth of IoT developers has stalled

Estimated number of individual IoT developers, in millions, at end of Q2 of each year



# Components are for IoT pros; hardware and app platforms for all

% of IoT developers by involvement and vertical (n = 3,845)



# 5

## The Machine Learning Languages war

Python is now recognised as the native language of machine learning, while R is in most cases a complementary language.

Language choice depends on what you want to build, where you're coming from and why you got involved in machine learning.



# Machine Learning Languages shoot-out

% of machine learning developers / data scientists who use or prioritise each language (n = 2,022)





**our research  
helps the world understand developers.  
and developers understand the world.**

If you could speak to 40,000+ developers what would you ask them?



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