

2017 USER SURVEY EXECUTIVE SUMMARY

THELINUX FOUNDATION

INTRODUCTION

Survey methodology

2017 NODE.JS USER SURVEY

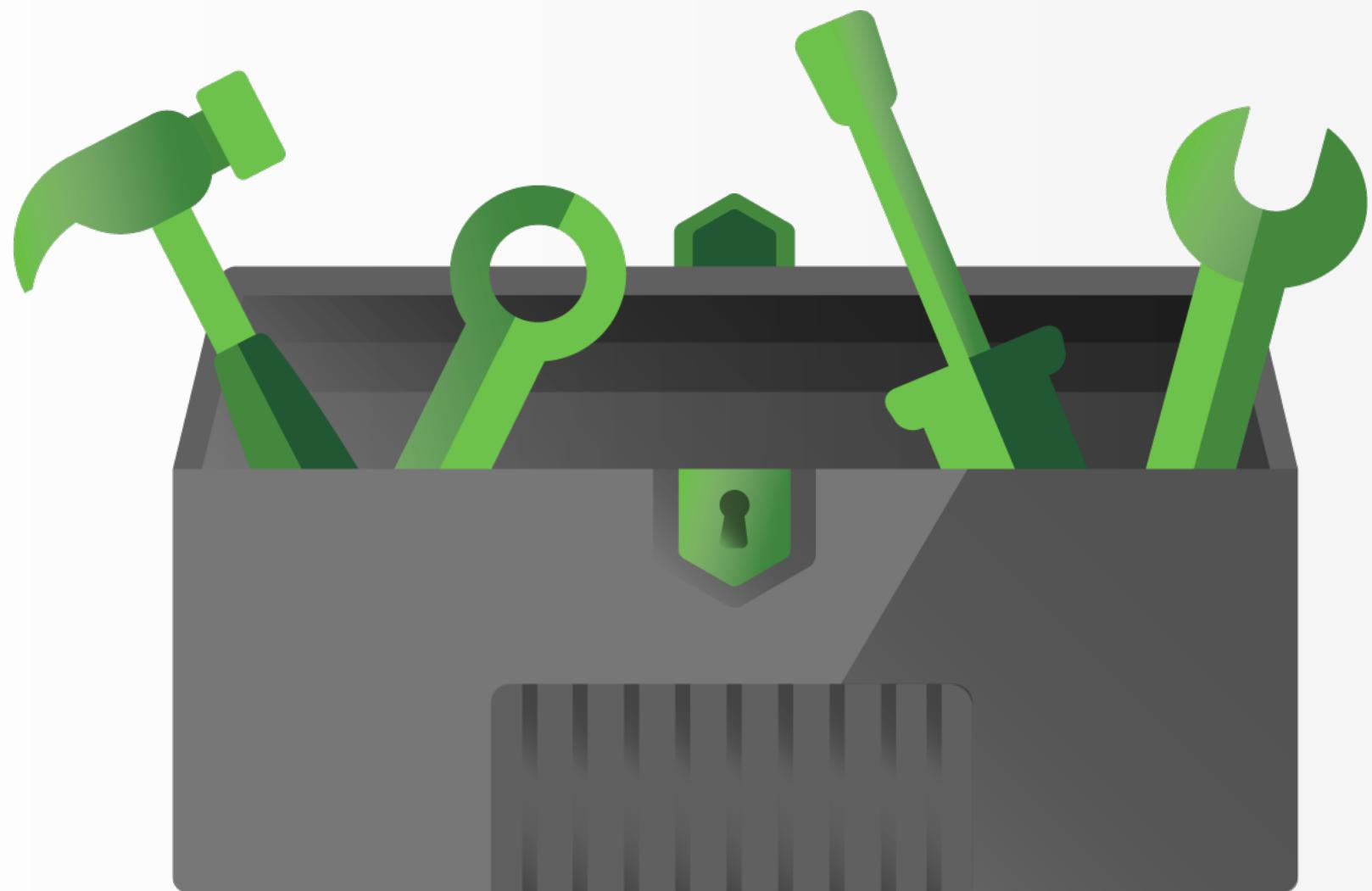
The primary objective of the research was to profile Node.js users, understand usage patterns and trends and identify potential areas of improvement.

- Conducted online from November 30, 2016 to January 16, 2017 via a self-administered survey.
- Fielded worldwide in English and Mandarin to encourage maximum response.
- 1,405 individuals responded to at least some questions in the survey.*
- Numbers may not total to 100% due to rounding.
- Research was analyzed by [Research Collaborative](#), an independent research consultancy.

*Due to skip logic or missed questions, the number of responses for individual questions may be considerably lower.

SUMMARY OF RESPONDENTS

Node.js usage profile



Users span a broad mix of development focus, ways of using Node.js, and deployment locations.

There is a large mix of tools and technologies used with Node.js

Experience with Node.js is also varied—although many have been using Node less than 2 years.

Node.js is a key part of their toolkit, being used at least half of their development time.



Node.js is emerging as a universal development framework for digital transformation with a broad diversity of applications.

With over 8 million Node.js instances online, three in four users are planning to increase their use of Node.js in the next 12 months. Many are learning Node.js in a foreign language with China being the second largest population outside of the U.S. using Node.

USAGE APPLICATION

Node.js users span a variety of industries

News Corp

PayPal

Pinterest

GM

U B E R

CapitalOne

Moz://a

Angie's list.

Lowe's

Joyent

WELLS FARGO

LinkedIn

Walmart

THE NEW YORKER

Zappos

Google

intuit

BMW

Goldman Sachs

GROUPON

WIKIPEDIA

CBS

NETFLIX

GoPro
Be a HERO.

GE

The New York Times

Go Daddy

Microsoft

Symantec

DOW JONES

SIEMENS

apple

ADP

NASA

cisco

NORDSTROM

amazon

Medium

github

ebay

airbnb

Yandex

Johnson Controls

SONY

QUALCOMM

BEST BUY

WIX

citi

DuckDuckGo

IBM

redhat

LogMeIn

box

Quizlet

SAMSUNG

SKYCATCH

coursera

fitbit

CONDÉ NAST

NFL

TARGET

Trello

yammer

change.org

salesforce

BUSTLE

BYLINE MUSIC

intel

YAHOO!

OpenTable

RBS

Aol.

LendingClub

cars.com

Cigna

EA

pwc

flickr

SAP

Fidelity INVESTMENTS

mastercard

Quad

simplereach

Koding

NodePing

MuleSoft

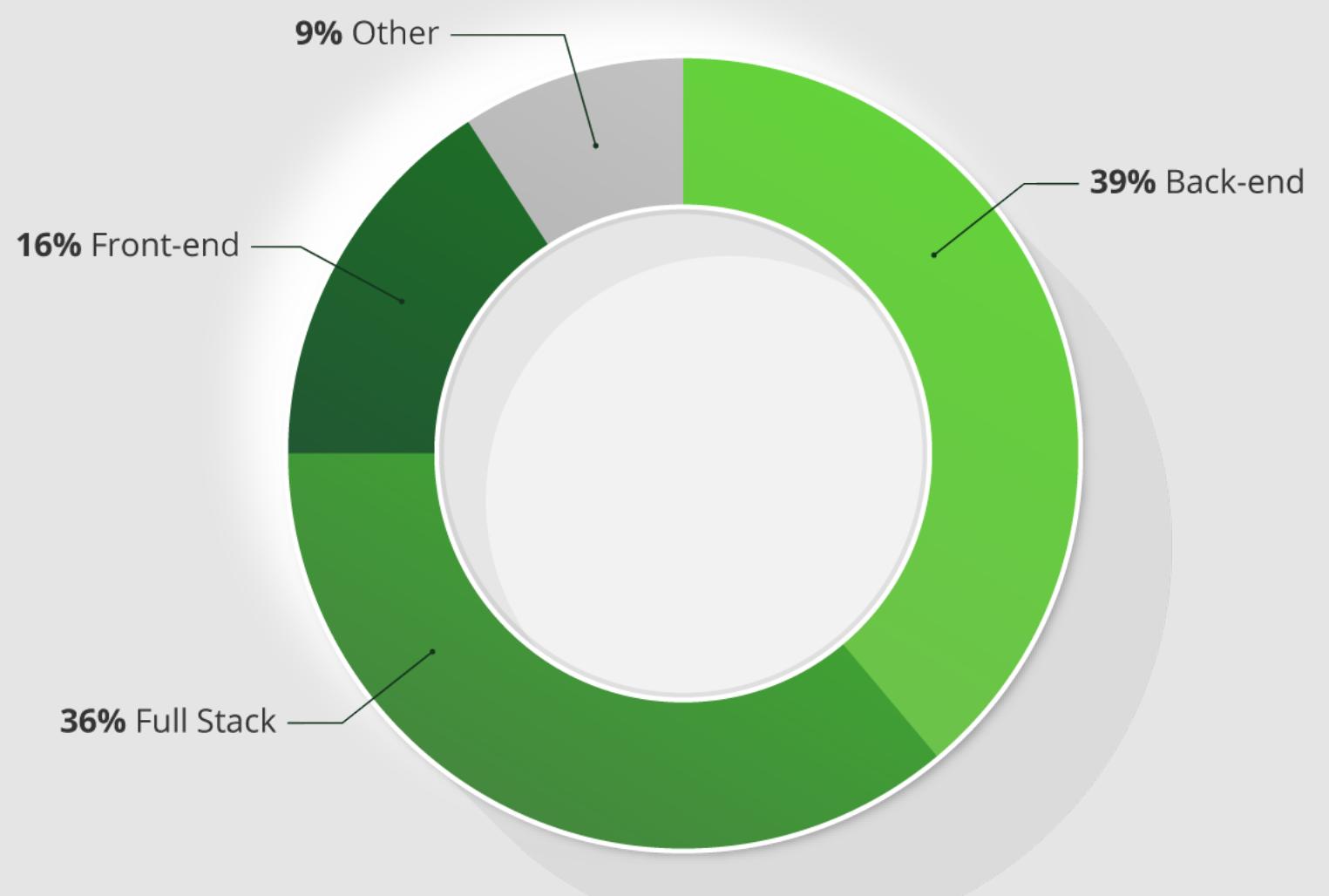
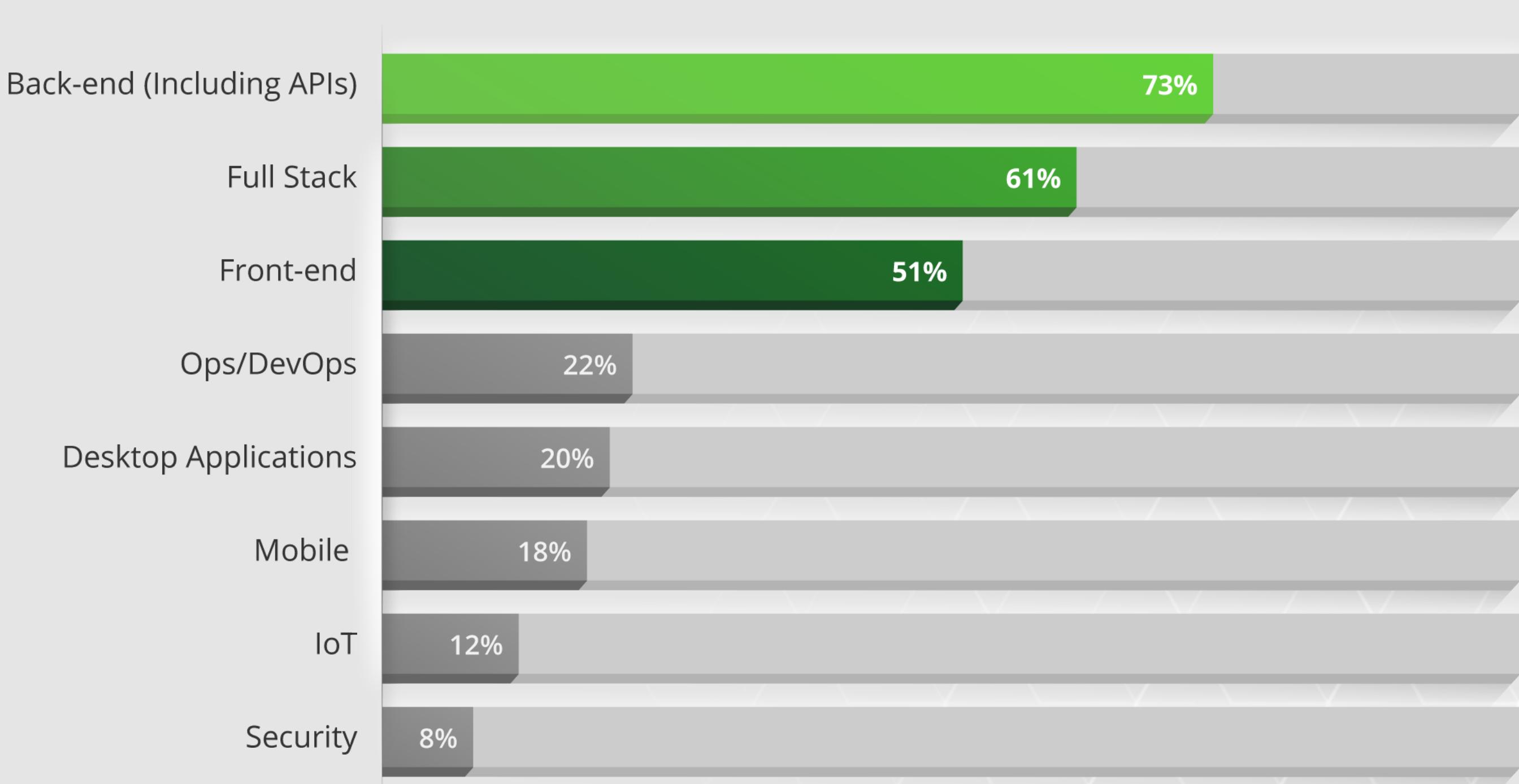
despegar.com

asana

shutterstock



How organizations use Node.js

DEVELOPMENT PRIMARY FOCUS**DEVELOPMENT NET FOCUS**

Source: Q21, Q22

Node.js is being used
with many types of tools
and technologies.

Databases, front-end
frameworks and Node.js
frameworks are chief
among them.

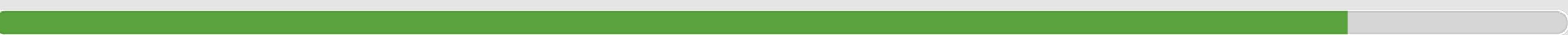
Node.js technology affinity

TYPES OF TOOLS/TECHNOLOGIES USED WITH NODE.JS *in past 12 months*

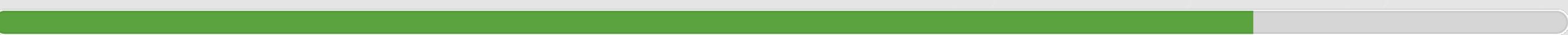
95% Databases



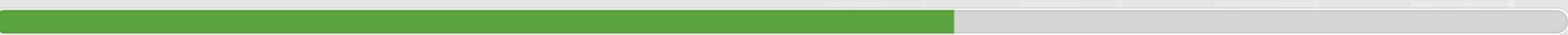
86% Front-end Framework/Libraries



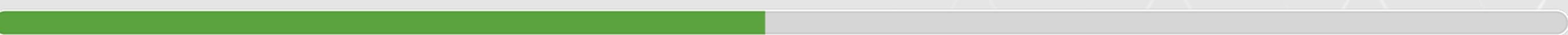
80% Node.js Frameworks



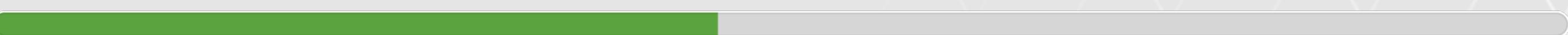
61% Load Balancing



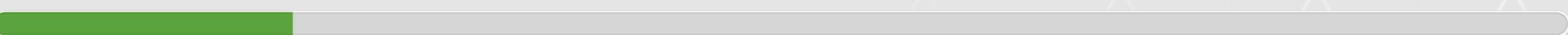
49% Containers/Cloud Native



46% CI



19% Messaging Systems



USAGE APPLICATION

For developers of all focus areas, Node.js has versatile usage

TYPES OF TOOLS/TECHNOLOGIES USED *by primary development area*

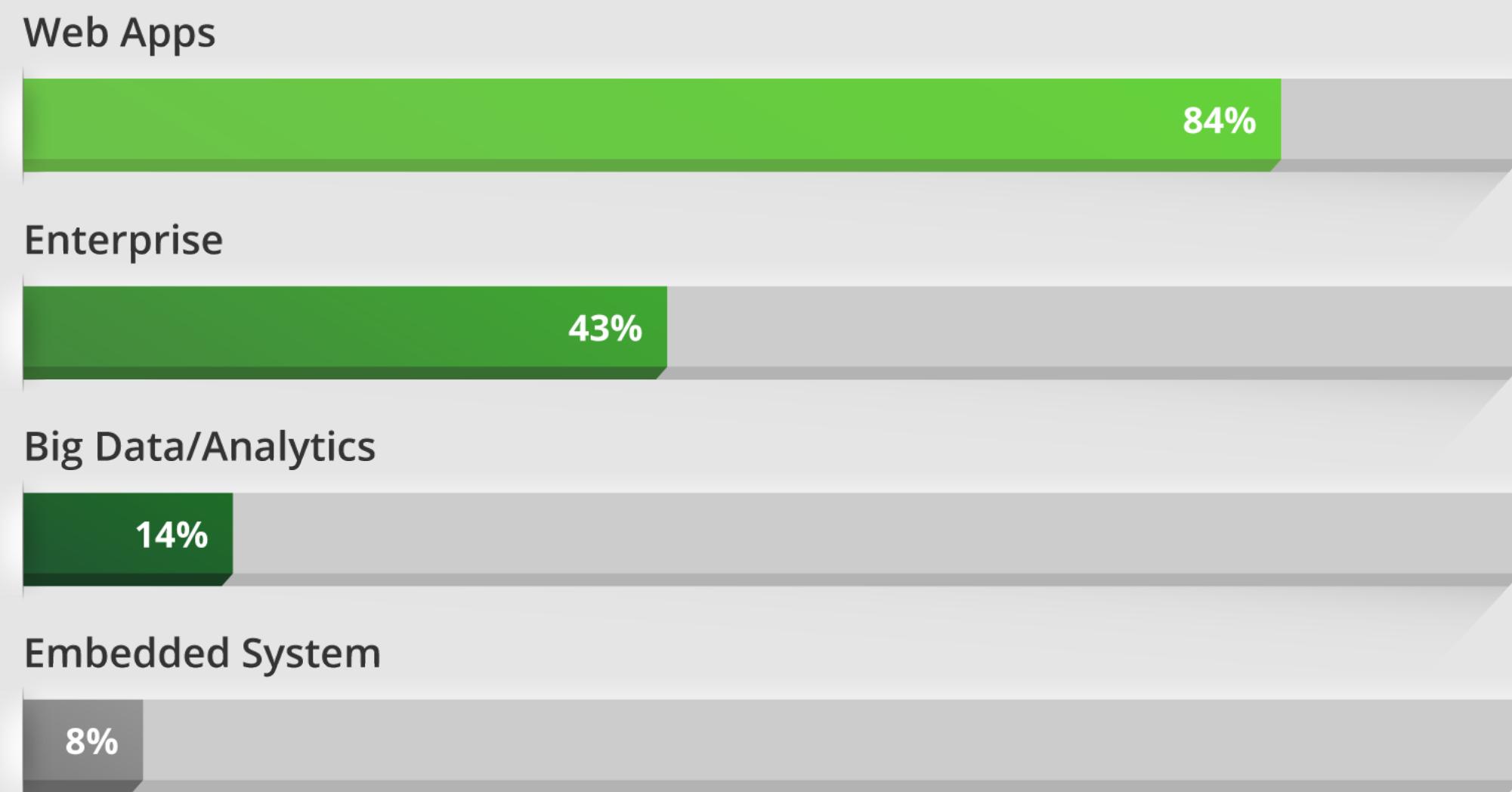


Source: Q26

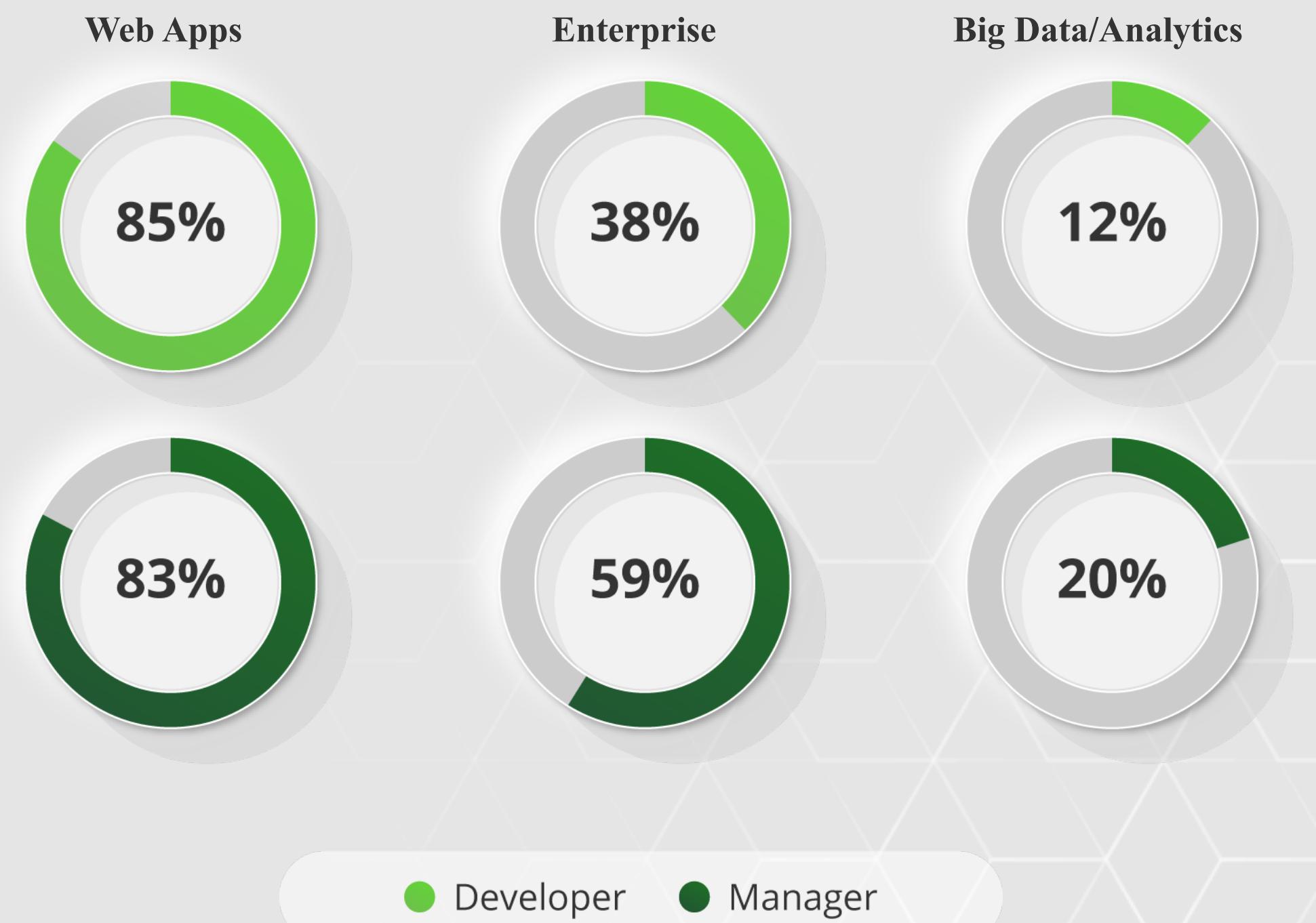
USAGE APPLICATION

Node.js usage spans development type

TYPES OF DEVELOPMENT WORK SPEND TIME ON WITH NODE.JS *top mentions*



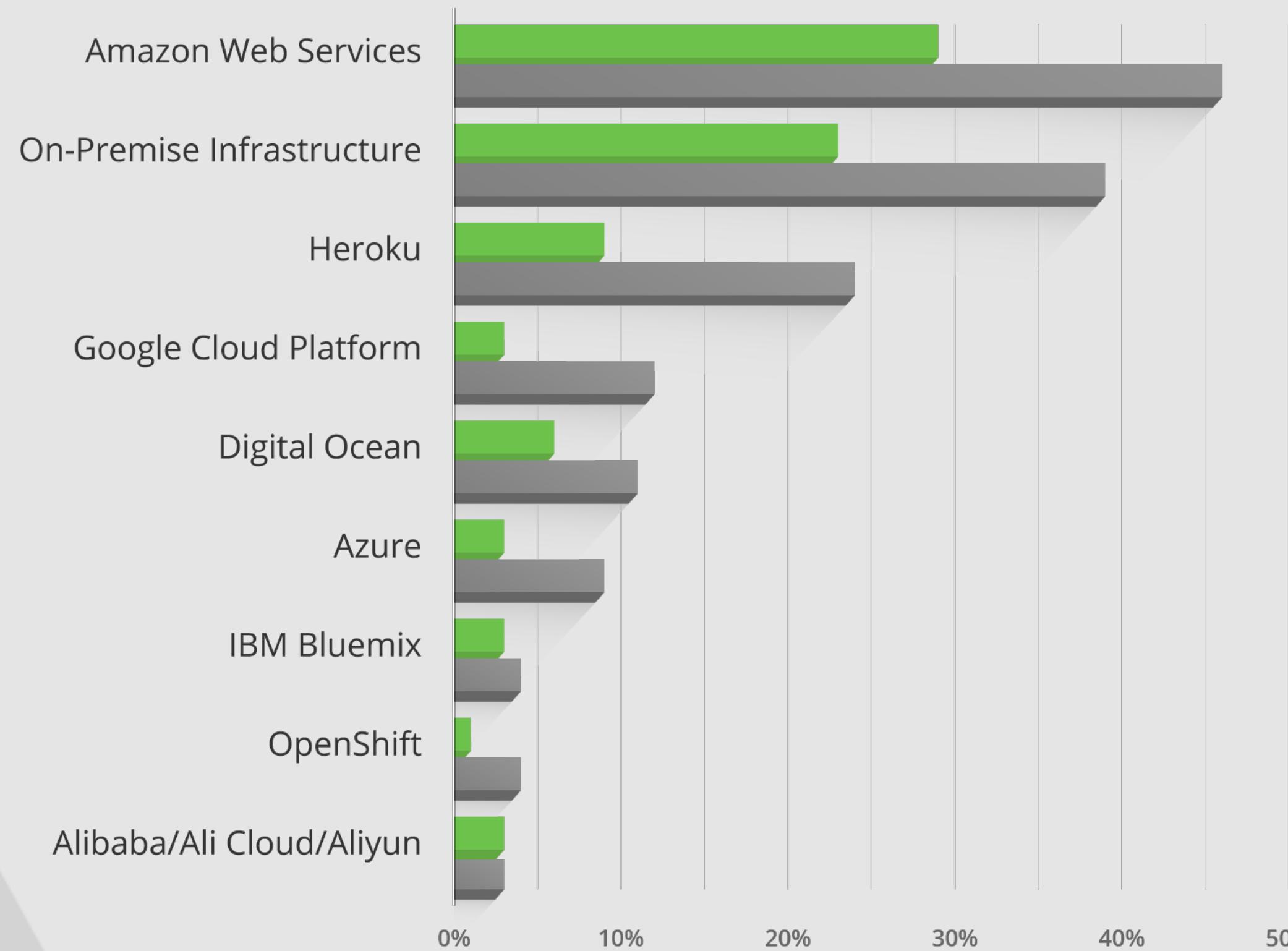
DEVELOPMENT WORK BY TITLE *top mentions*



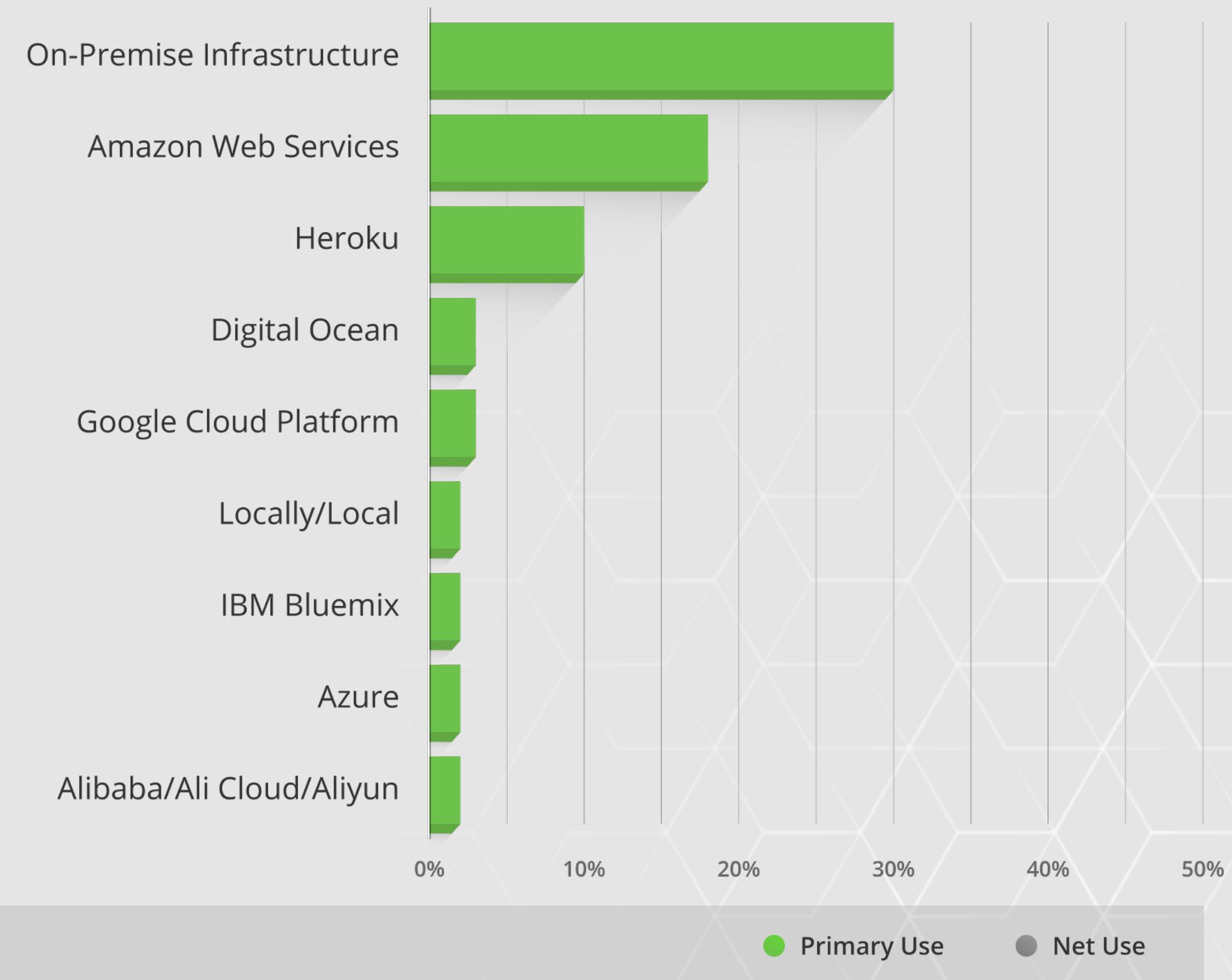
USAGE APPLICATION

Multiple deploy targets for Node.js

FOR PRODUCTION



FOR DEVELOPMENT



USAGE APPLICATION

Node.js versions

RELEASE LINE FOLLOWED

60% LTS

66% Enterprise Focused

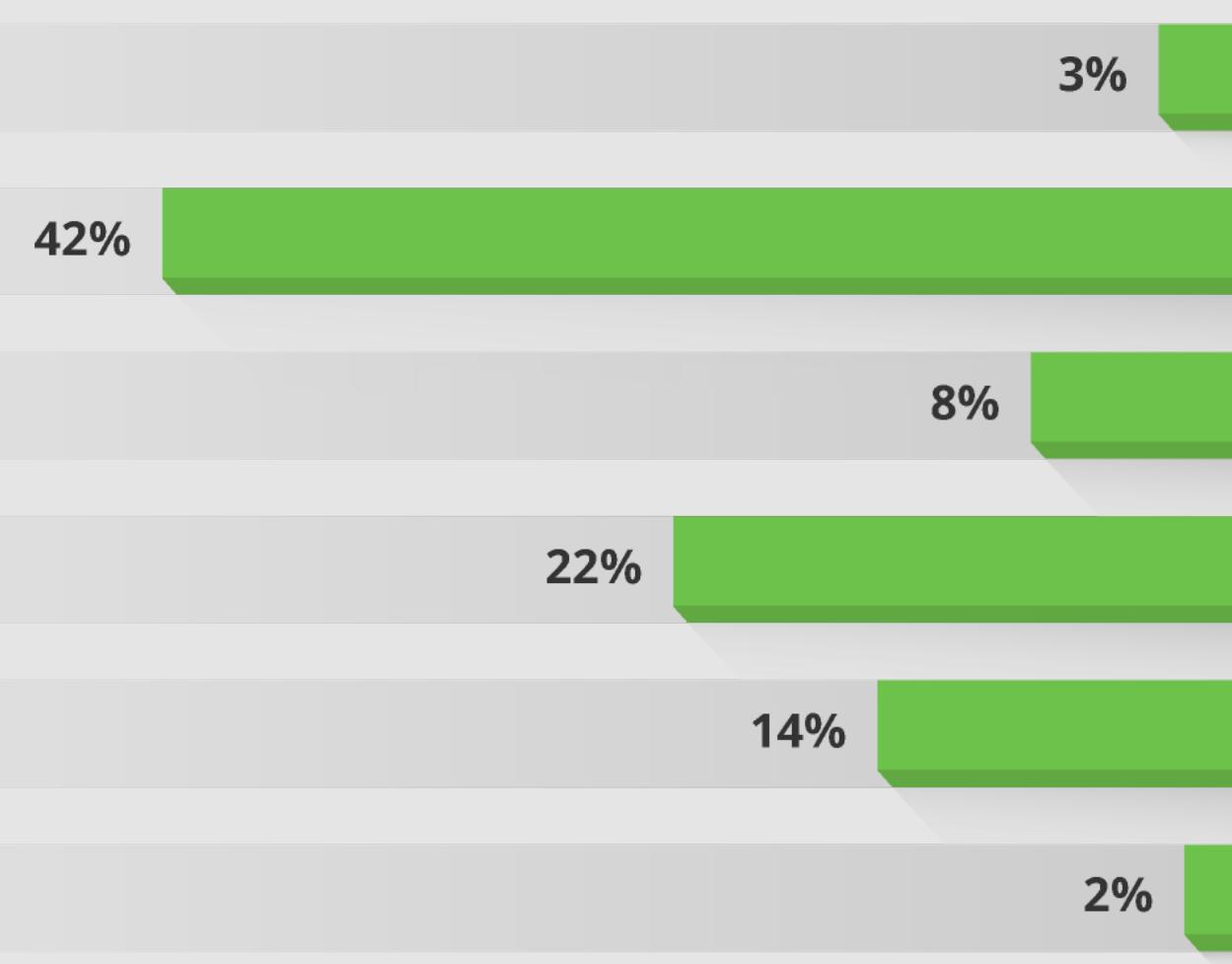
37% Current

47% Front-end Focused

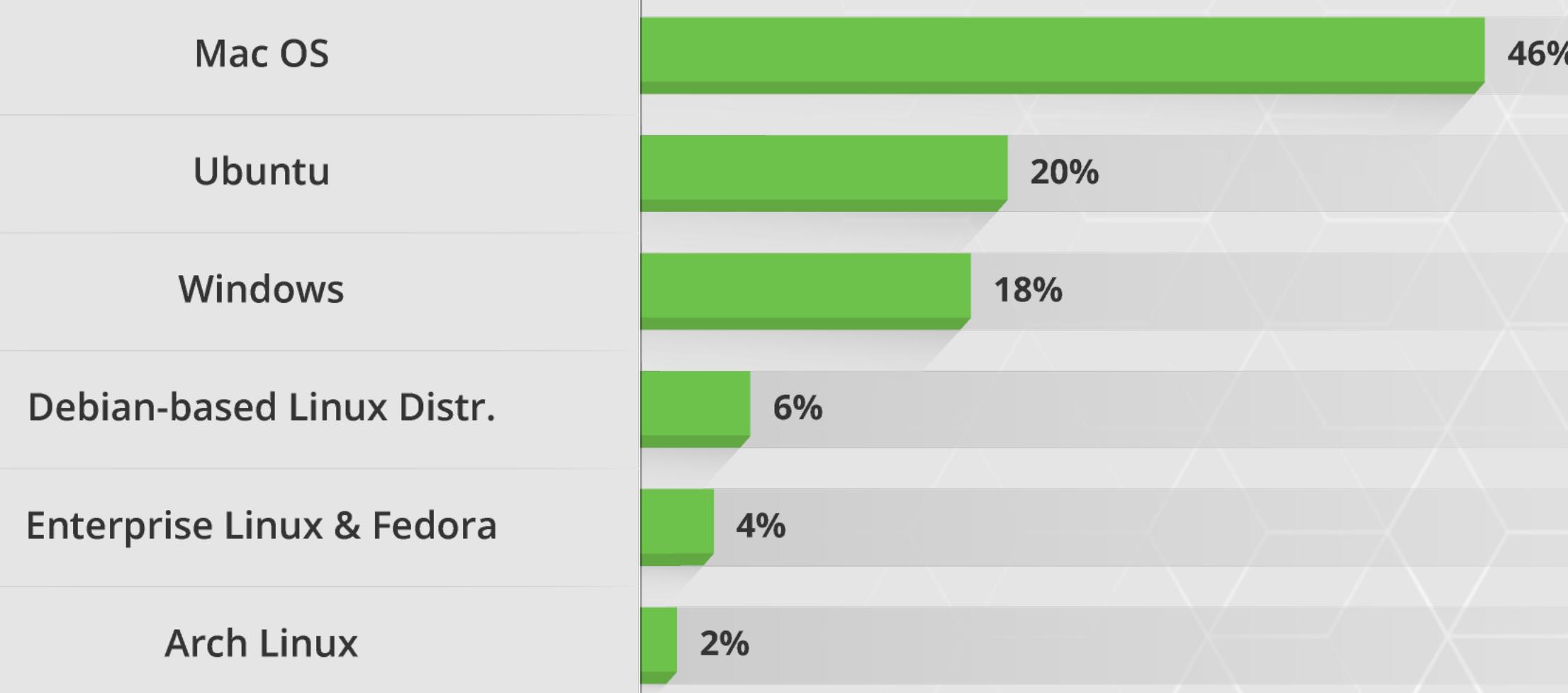
3% Other

PRIMARY OS/DISTRO USED *top mentions*

For Production



For Development



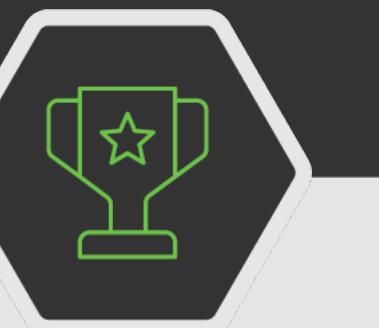
Node.js helps you succeed in the things that matter the most.



68%



Increased Developer
Productivity



65%



Improved Developer
Satisfaction



58%



Reduced Development
Costs



50%

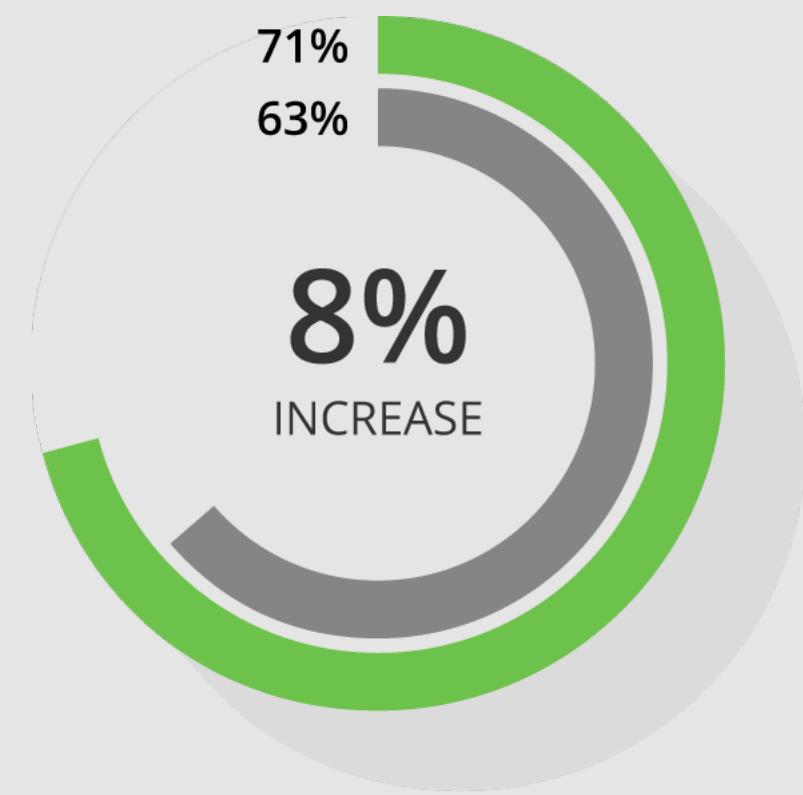


Increased Application
Performance

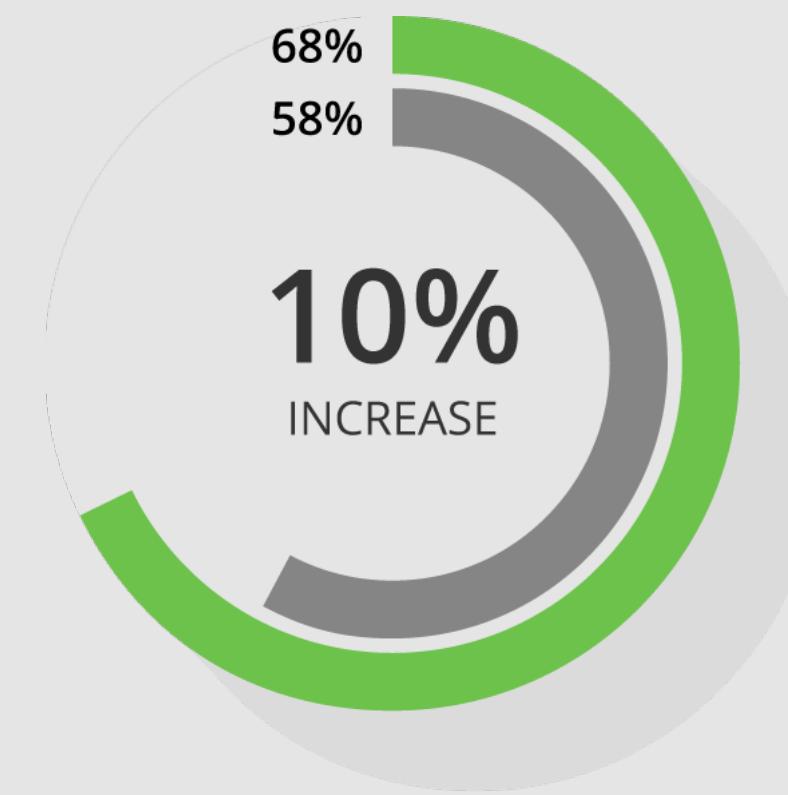
USAGE APPLICATION

Node.js benefits increase over time

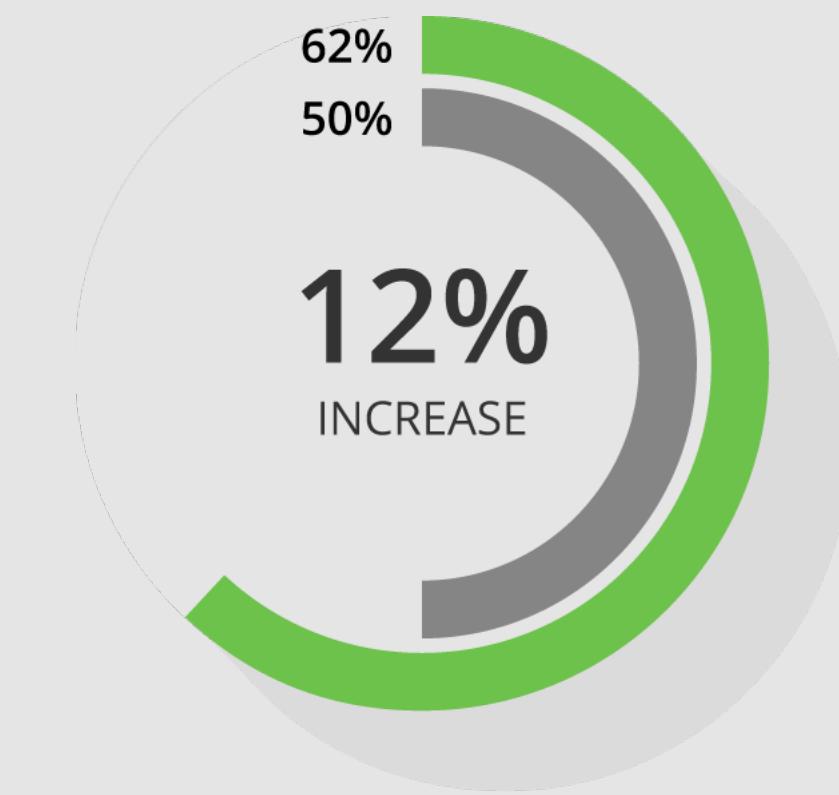
IMPACT BY YEARS USING NODE.JS



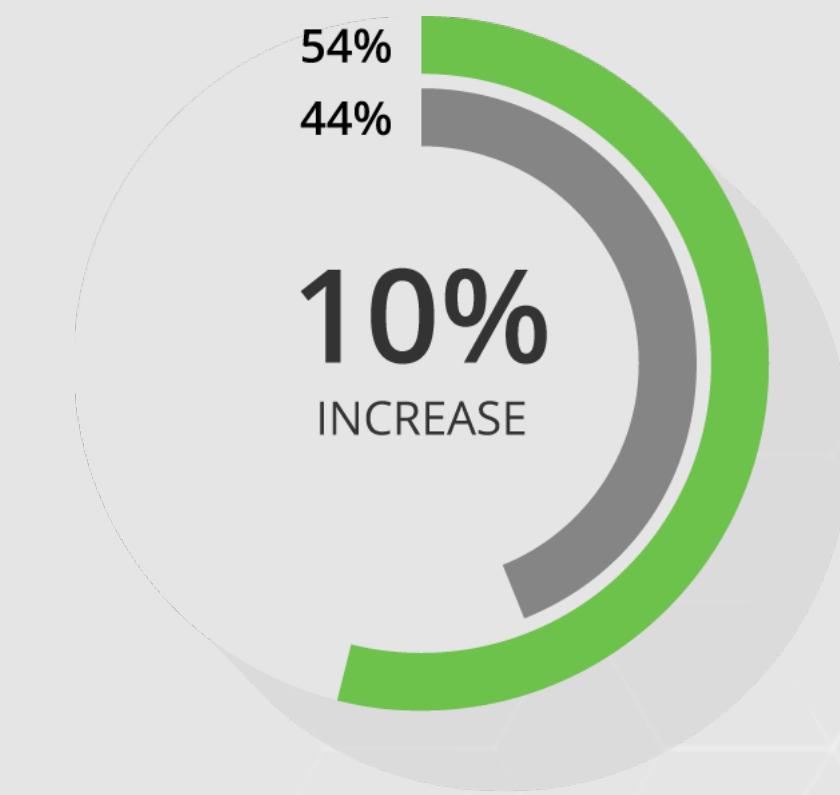
Increase Developer Productivity



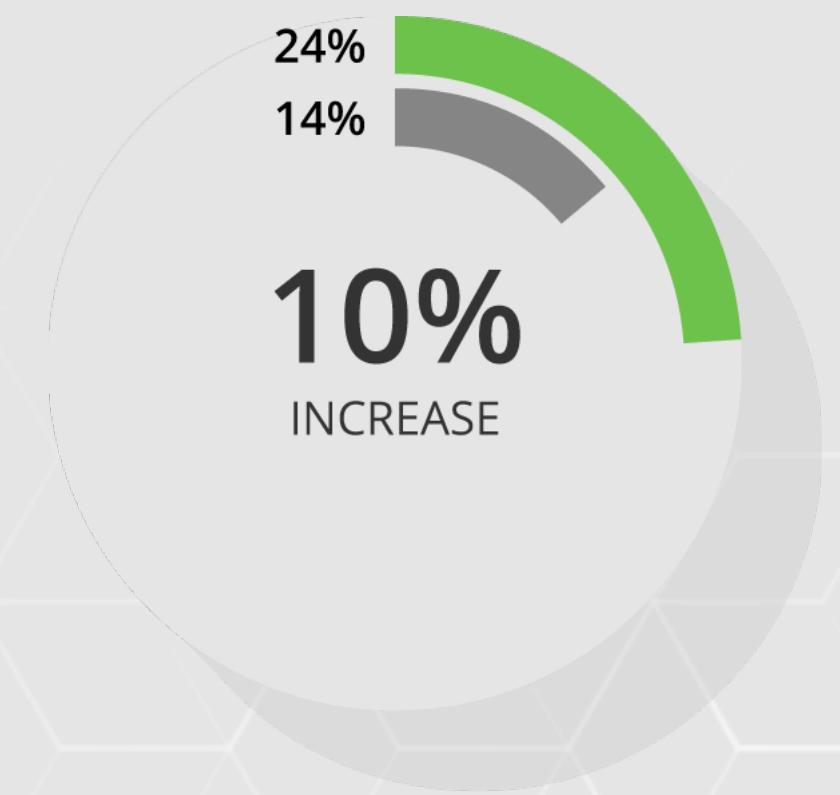
Improve Developer Satisfaction



Reduce Development Costs



Increase Application Performance



Help Recruit Developers

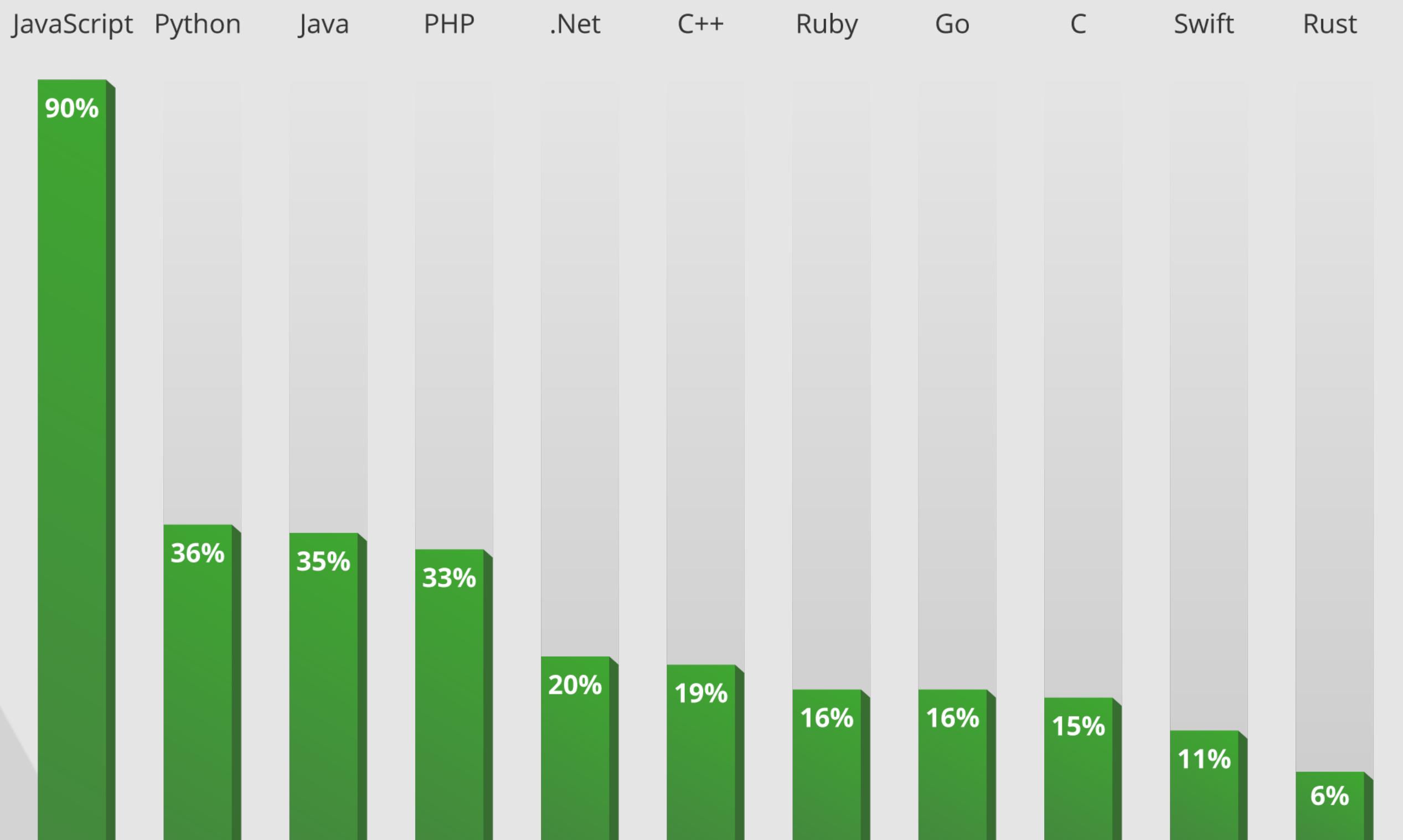
● < 2 years ● 2+ years

Source: Q75

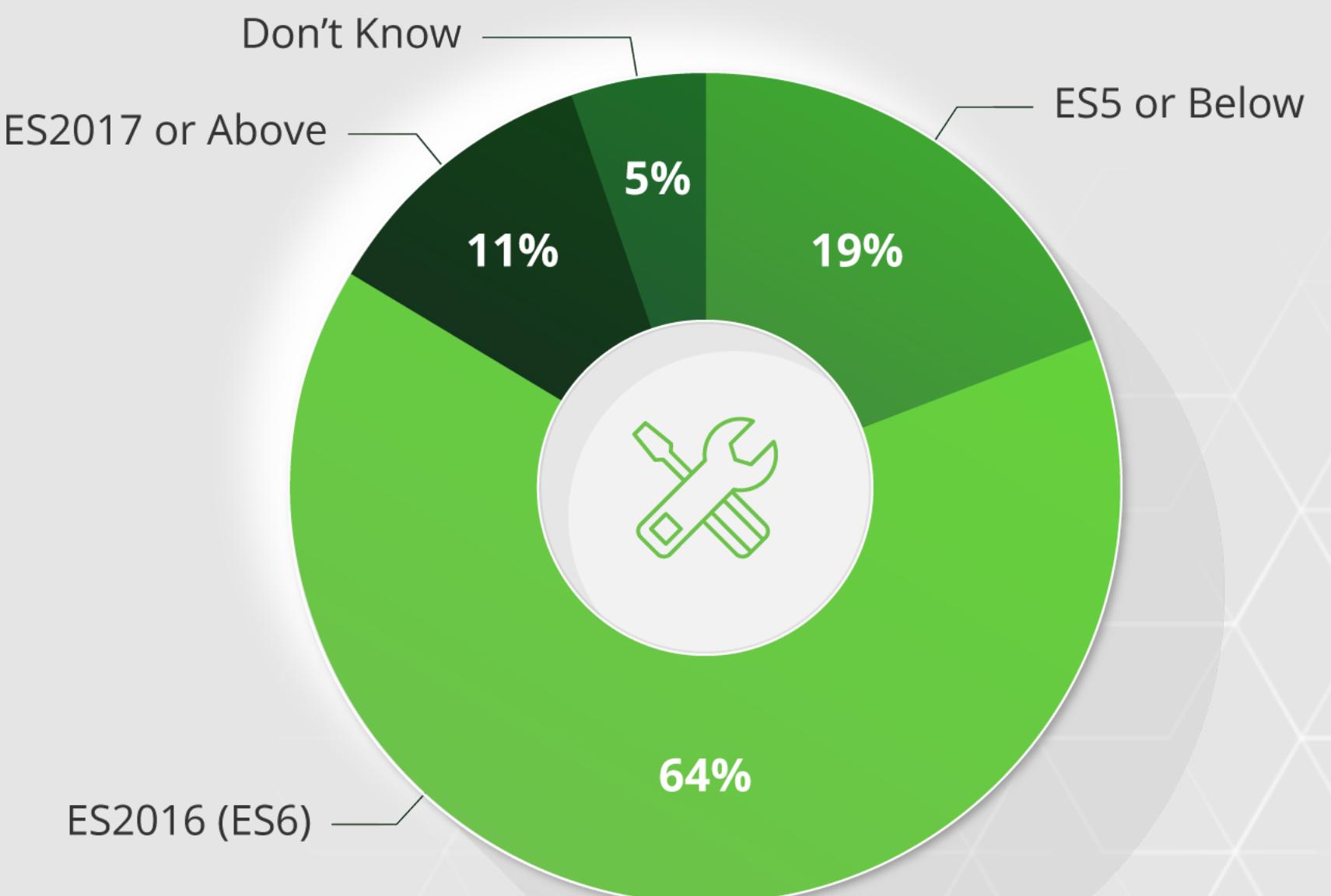
USAGE APPLICATION

Languages used

LANGUAGES USED IN PAST 12 MONTHS *top mentions*



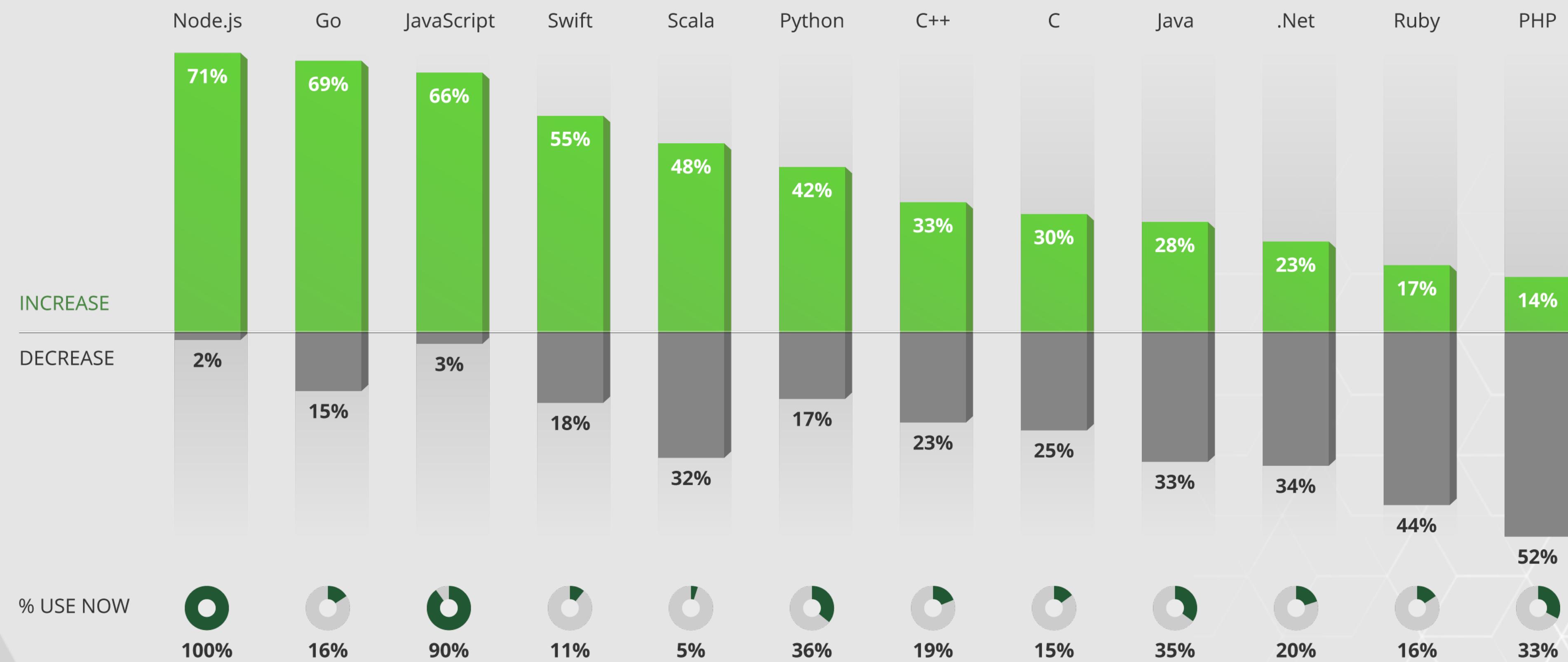
PRIMARY JAVASCRIPT LANGUAGE VERSION *past 6 months*



USAGE APPLICATION

Future use of development languages

EXPECTED CHANGE IN USE OVER NEXT 12 MONTHS *among users of each language*

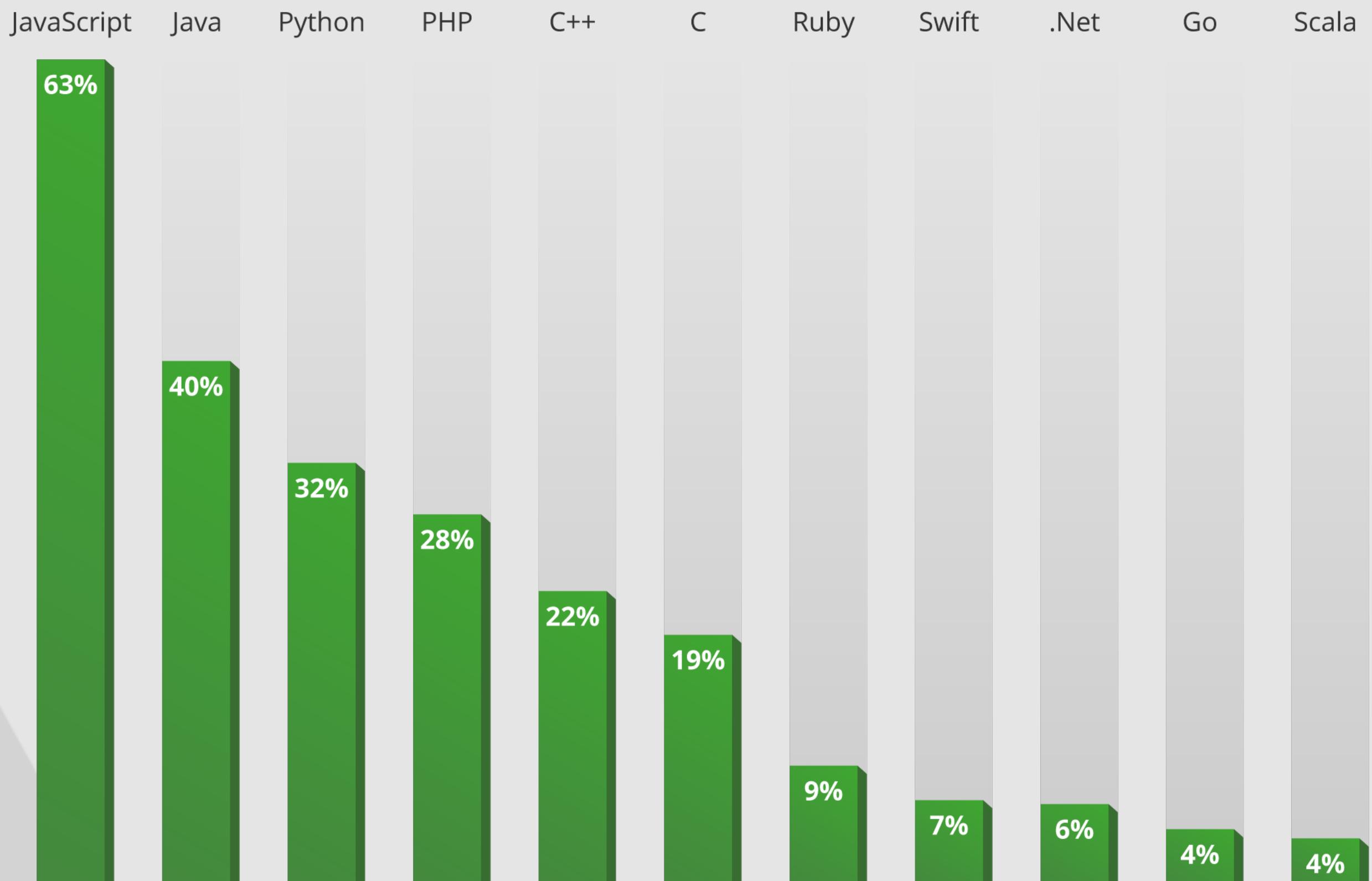


Source: Q24, Q25; among those who use respective brand and who provided an answer

USAGE APPLICATION

Most popular languages per 2017 Stack Overflow survey

PROGRAMMING LANGUAGES *percent of this category*



This year represents the largest group of respondents in Stack Overflow's history:
64,000 developers took the annual survey in January 2017.

According to the Battery Open-Source Software (BOSS) Index, Node.js is
a leader in enterprise-grade open source.



USER DEMOGRAPHICS

Profile of a typical Node.js user



Used in over 85 countries by speakers of more than 45 languages.

User benefits include Increased developer productivity, improved developer satisfaction, and reduced development costs.

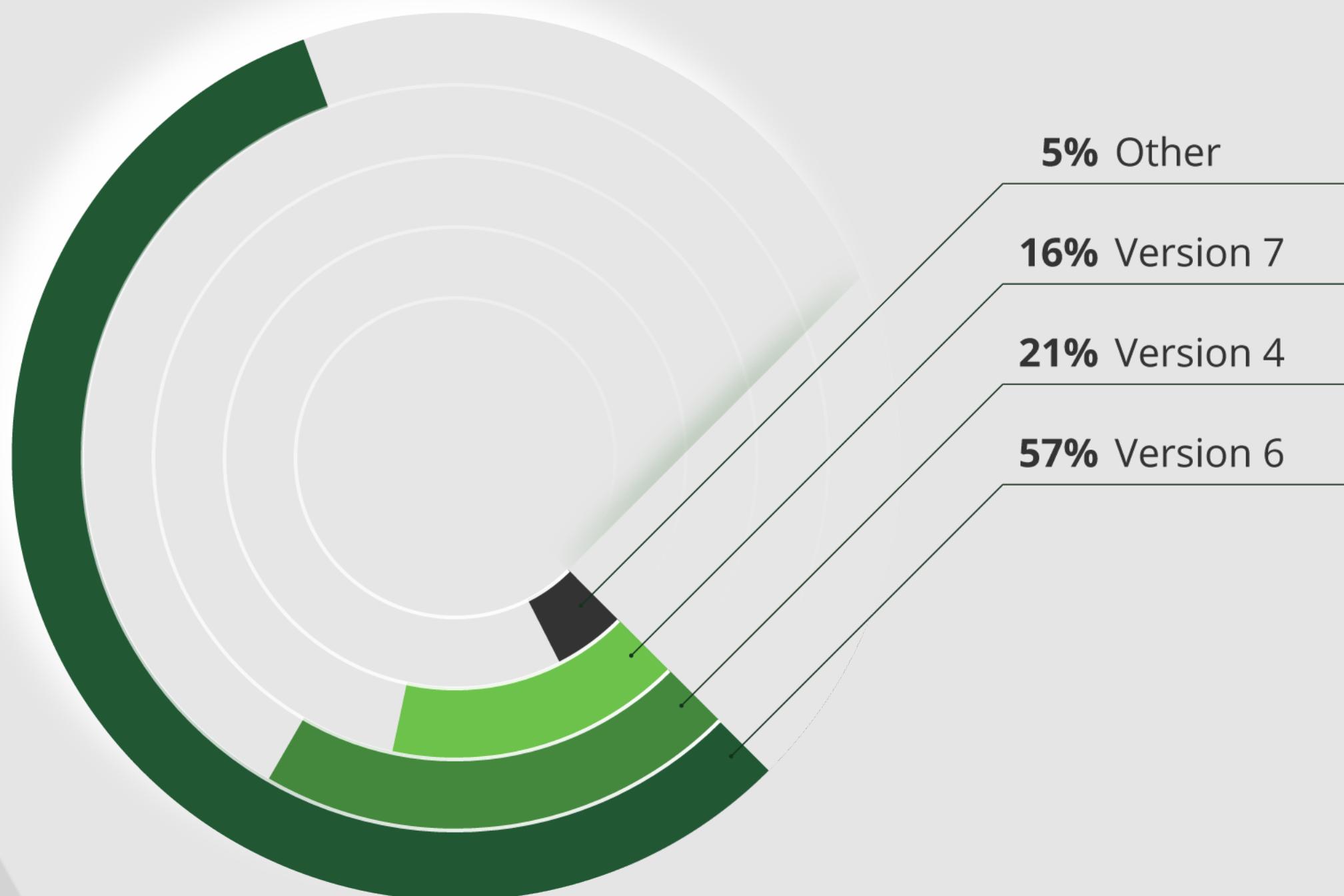
The “typical” Node.js user is college educated in his early 30's with 6-9 years development experience.

Users are from a broad mix in region, language, age, job function, experience, and employee size.

USER DEMOGRAPHICS

Node.js usage profile

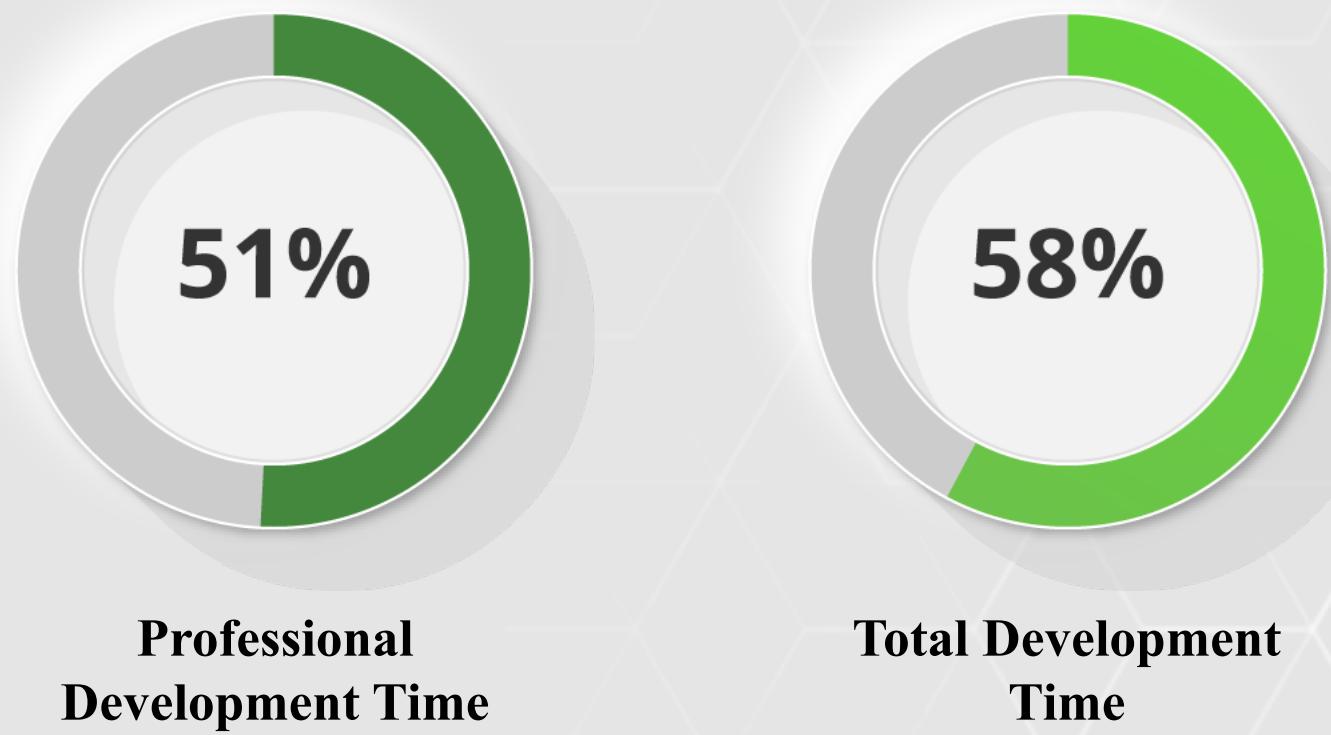
VERSION USED IN PRODUCTION



YEARS USING NODE.JS



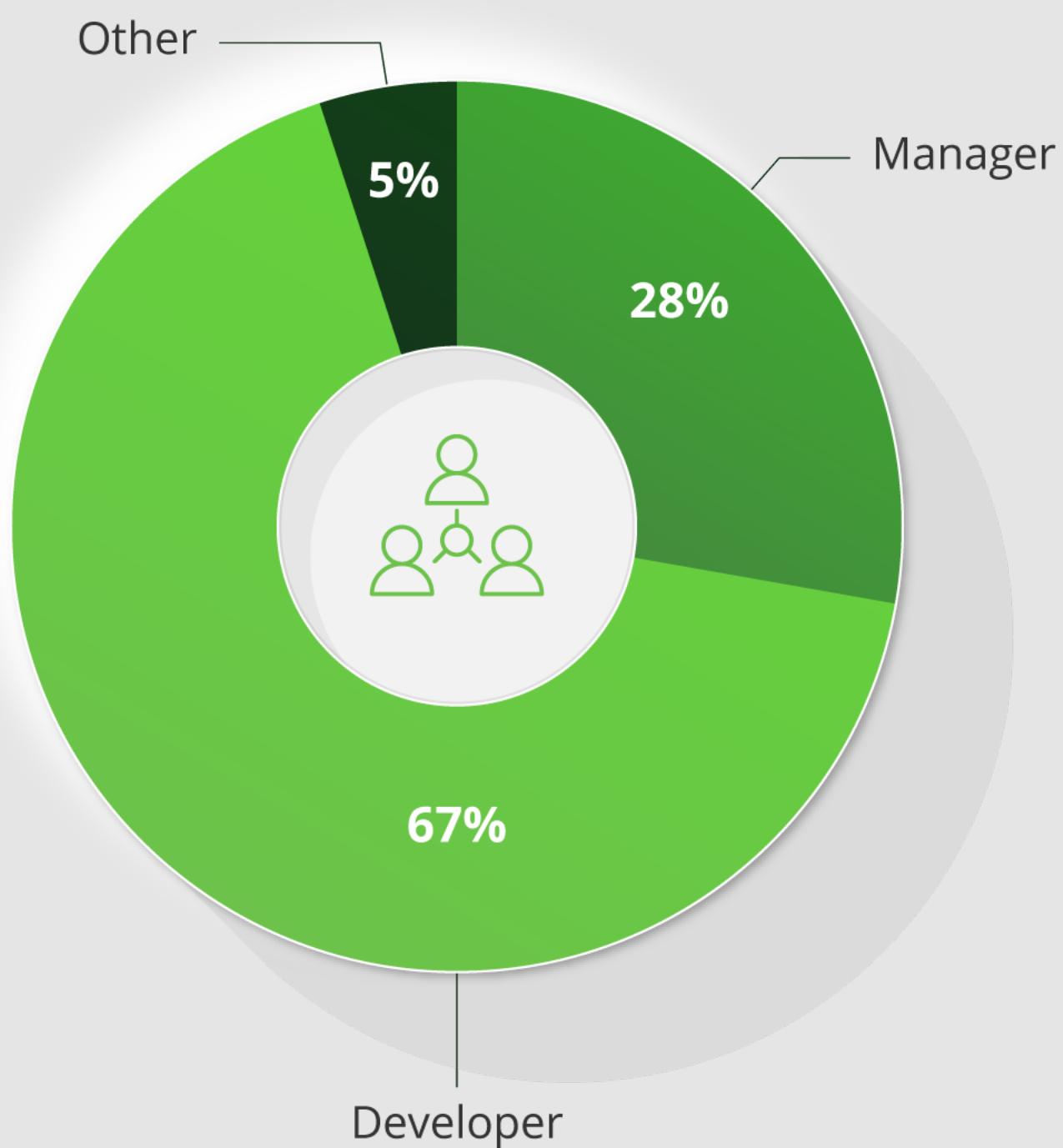
PERCENT OF TIME SPENT USING NODE.JS *Medians*



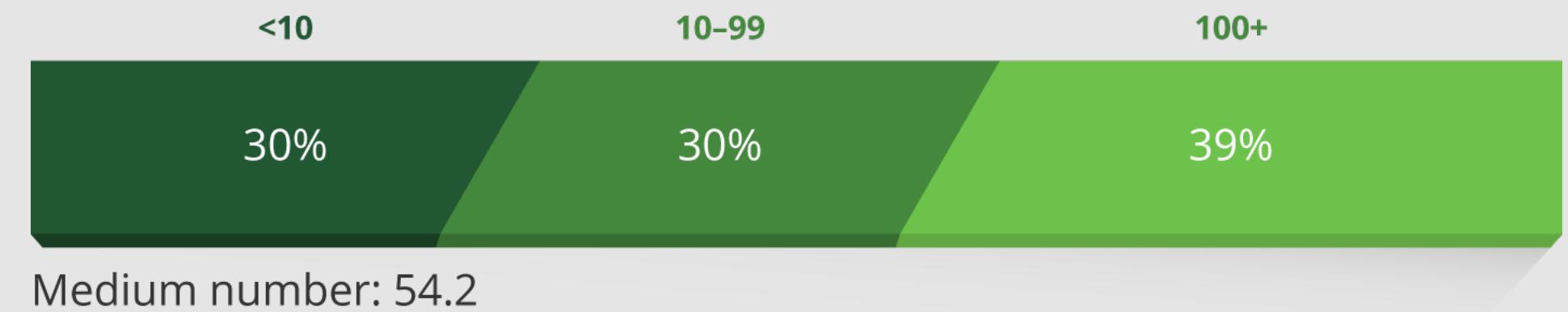
USER DEMOGRAPHICS

User professional profile

PROFESSIONAL TITLE



NUMBER OF EMPLOYEES IN COMPANY



PROFESSIONAL DEVELOPER EXPERIENCE

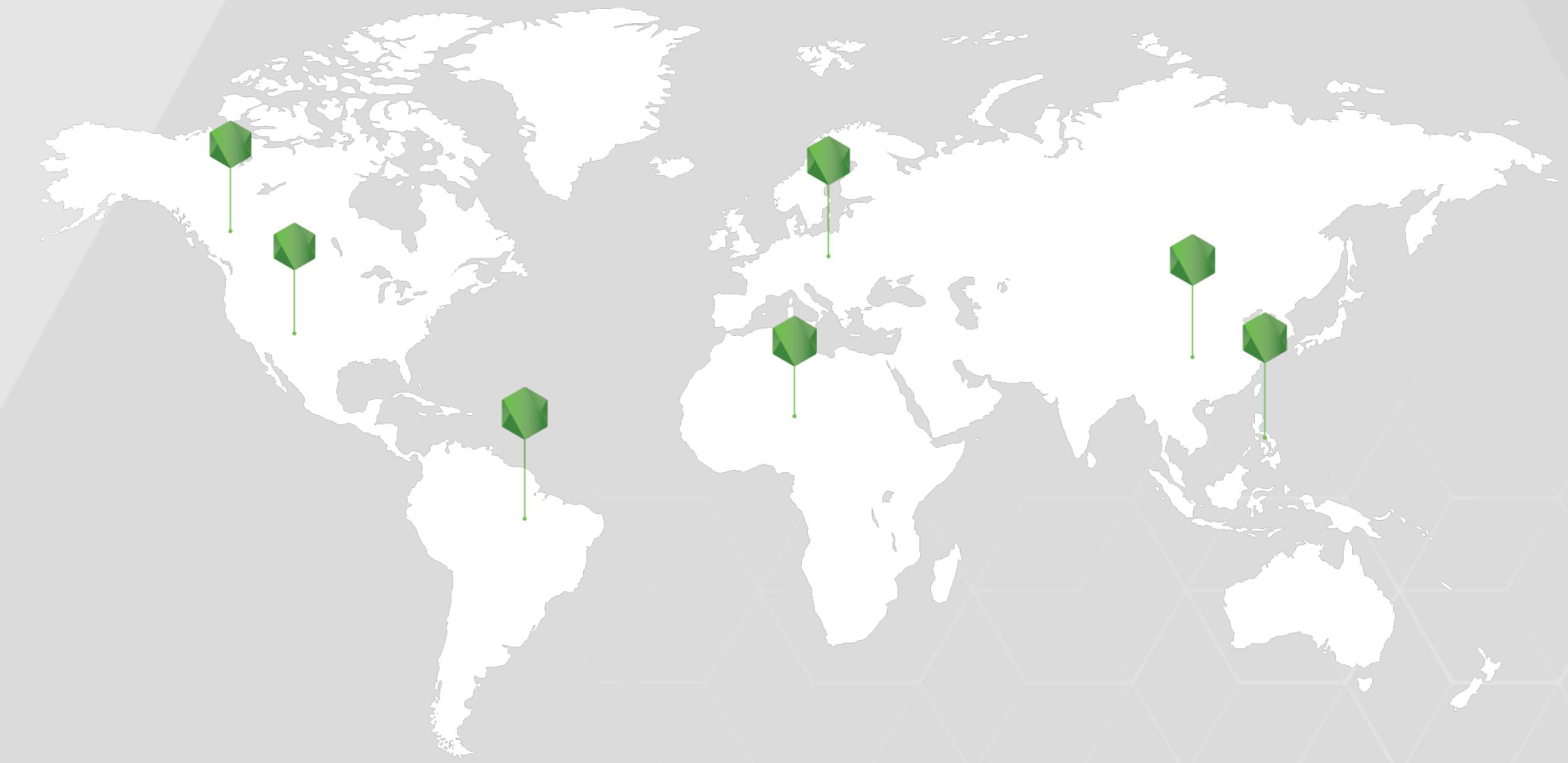
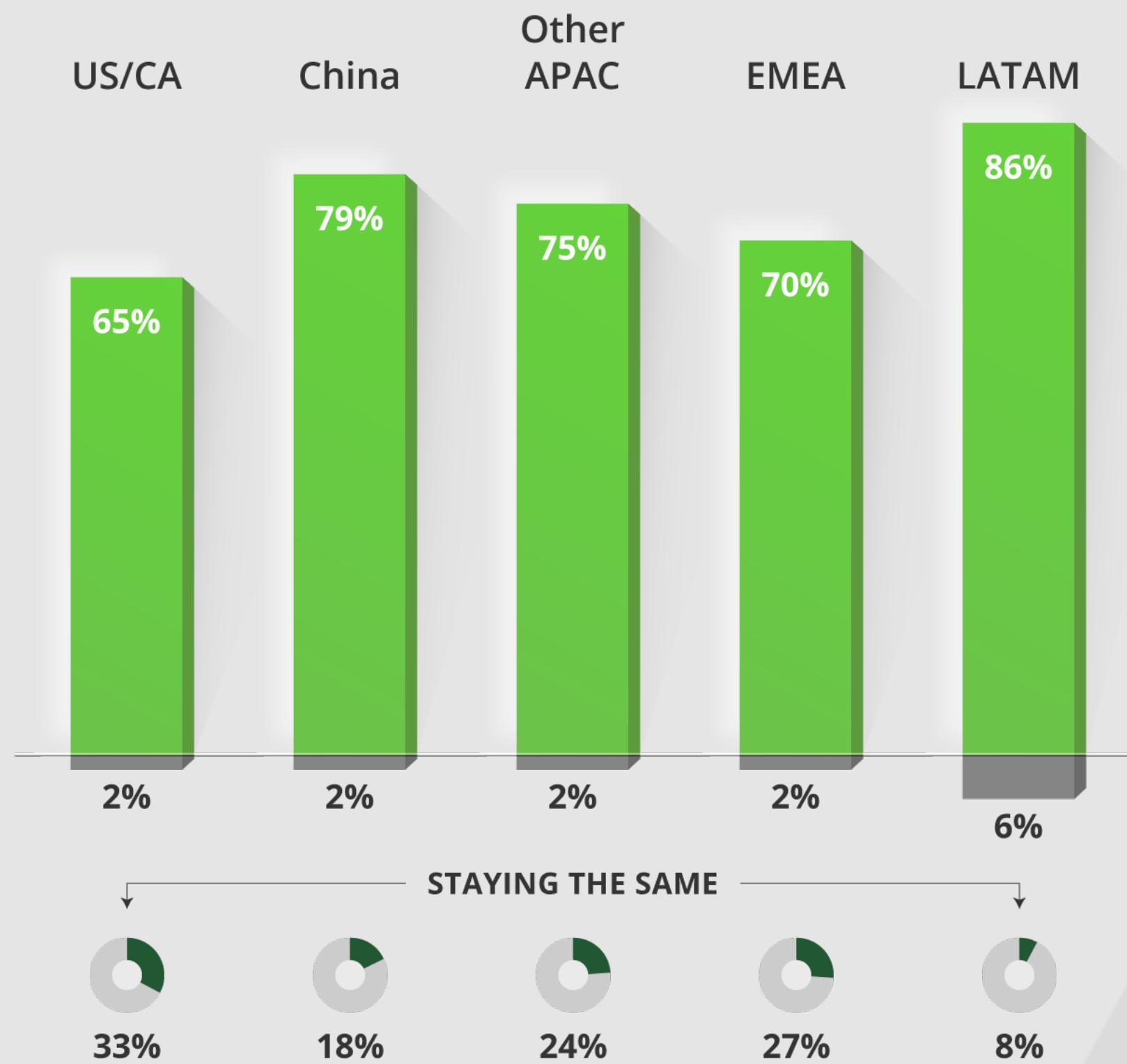


TOTAL DEVELOPER EXPERIENCE



USER DEMOGRAPHICS

Node.js increasing global footprint



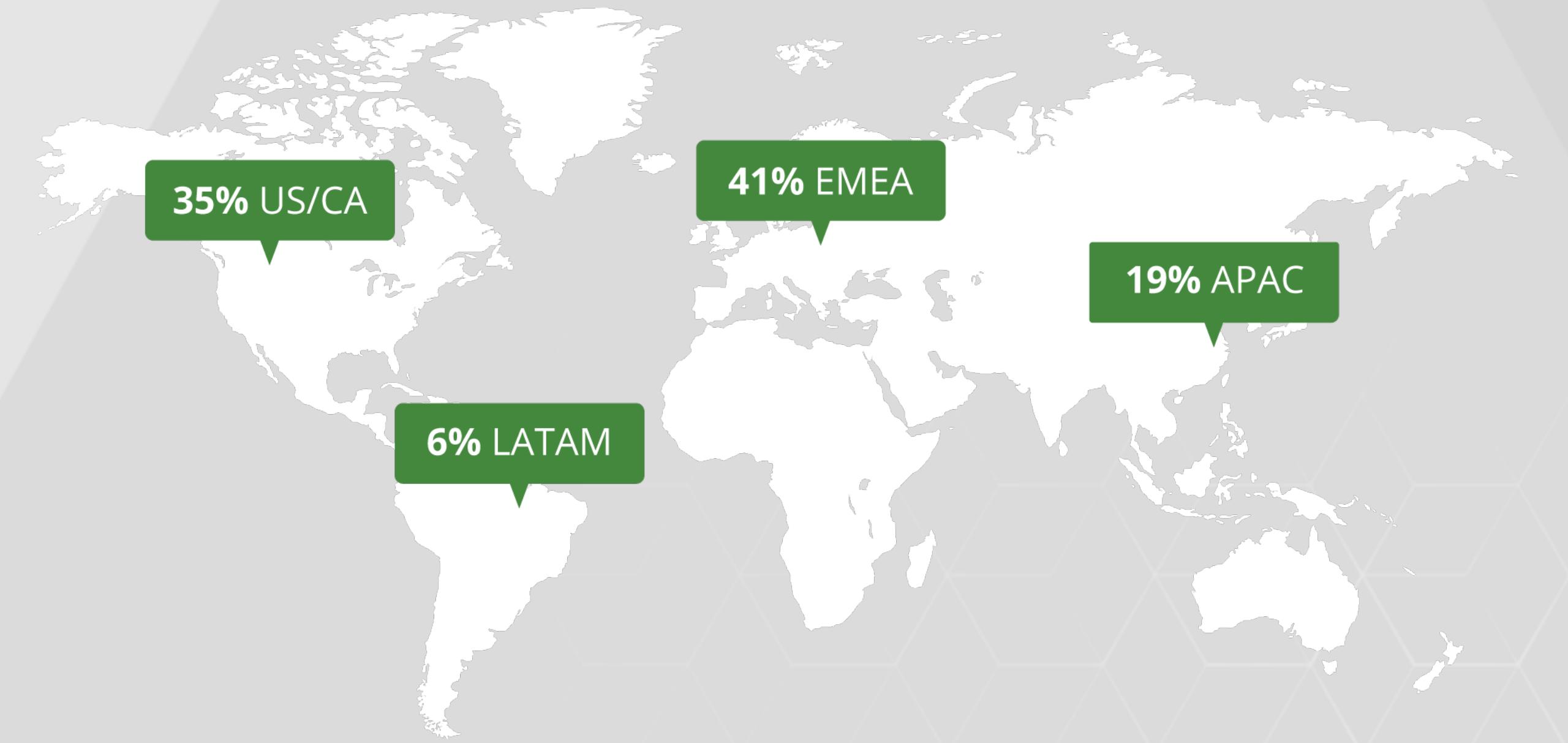
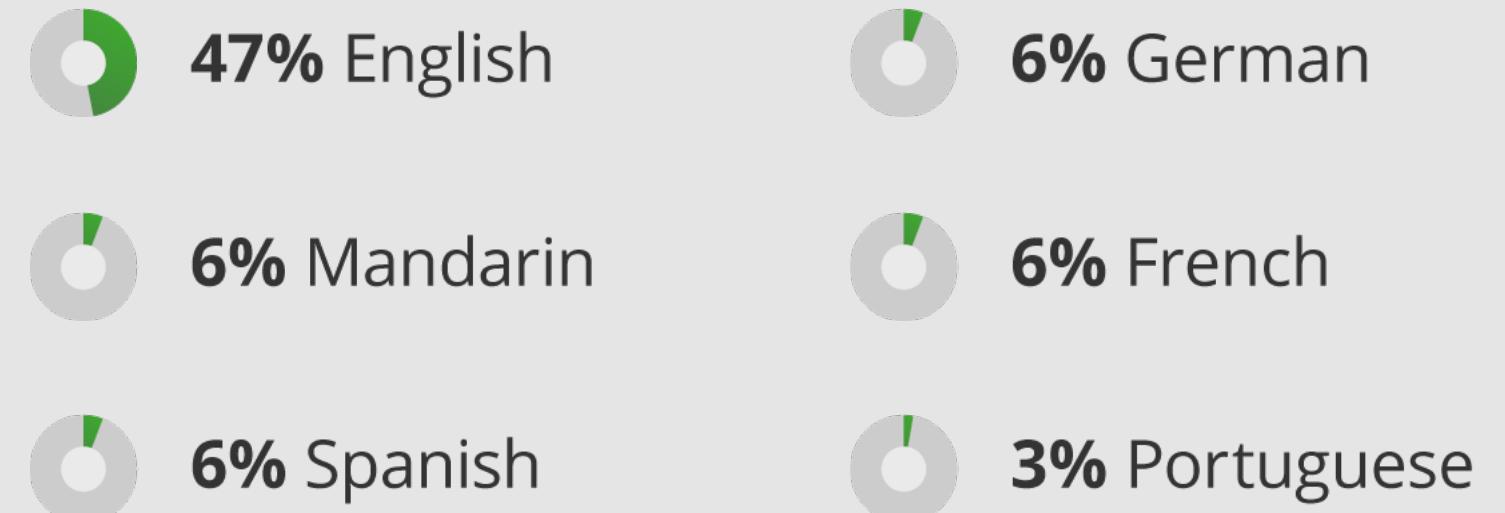
The majority of Node.js users plan to increase their use over the next 12 months.

Developers and users in Latin America are most likely to up their usage.

USER DEMOGRAPHICS

Node.js Global Reach

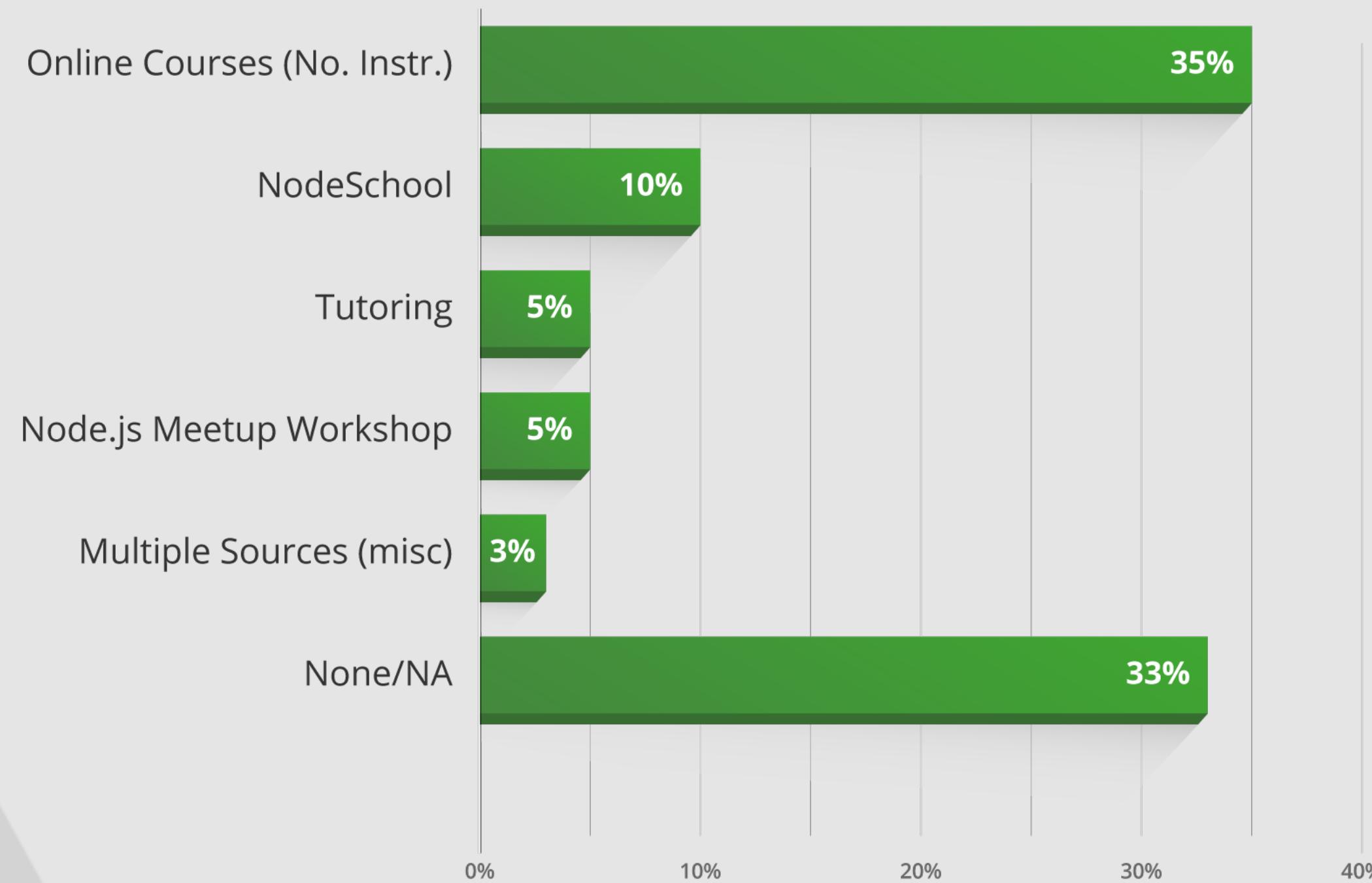
Collectively, Node.js users span **85+ countries** and speak more than **45 languages**



USER DEMOGRAPHICS

How users learn Node.js

INFORMAL CODING EDUCATION *single response question*



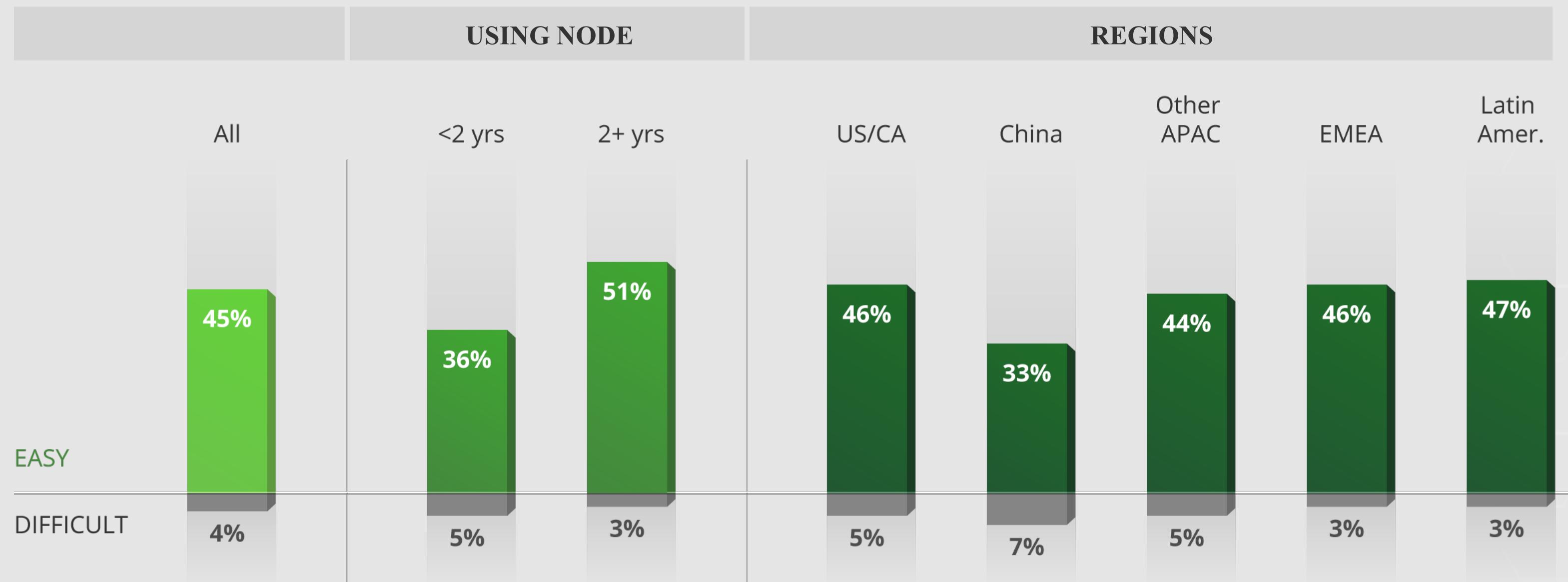
LANGUAGES

- 51%** learn Node.js in their Native Language
- 49%** learn Node.js in a Non-Native Language
- 68%** of Non-US users learned in Non-Native Language
- 95%** of users learned Node.js in English
- 3%** of users learned in Mandarin

USER DEMOGRAPHICS

Ease of learning Node.js

EASE OF LEARNING NODE.JS *by subgroup*



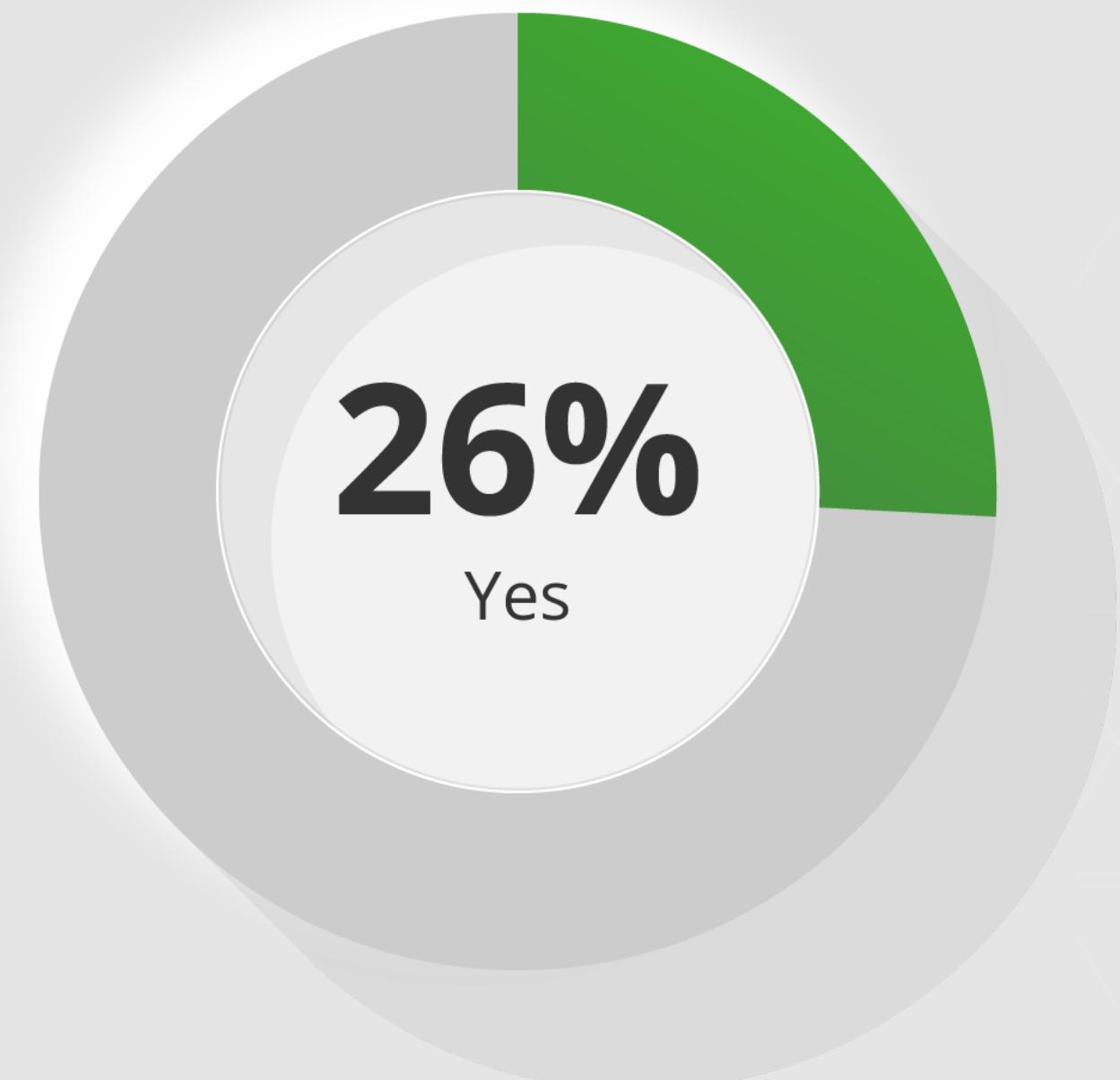
No difference in
ease of learning
by company size

USER DEMOGRAPHICS

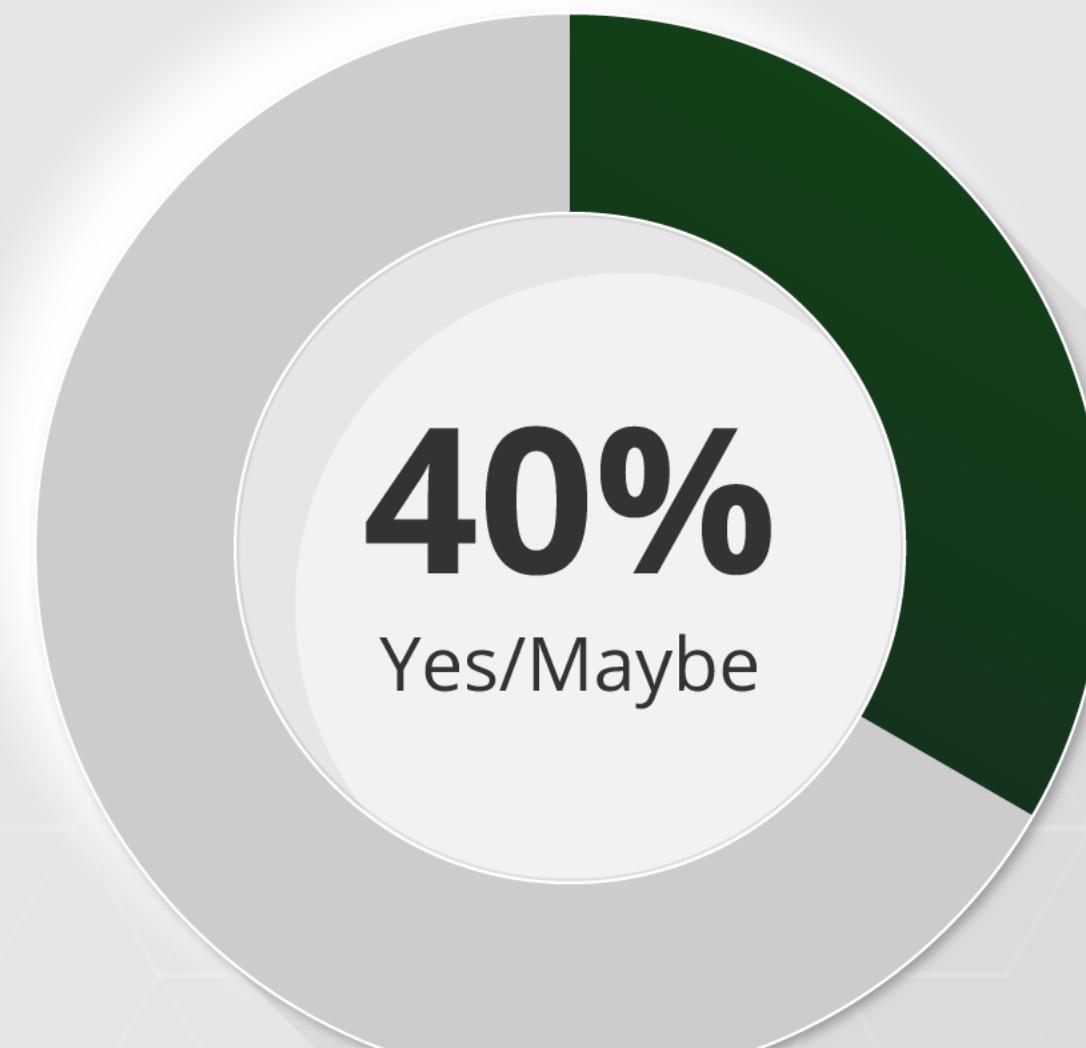
Interest in contributing to Node.js is limited, but there is some opportunity for mentoring development.

Node.js and getting involved

INTEREST IN CONTRIBUTING
TO OPEN SOURCE NODE.JS PROJECT



INTEREST IN MENTORING OTHERS



What users like about Node.js

Versatility

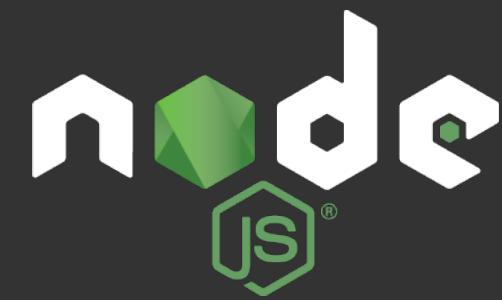
“ ” *I love being able to use JavaScript to make front-end, back-end, clip and everything in between. Liberating.*

Agility

“ ” *Node was super empowering for me as a novice: the ease of getting up and running, learning and being productive.*

Performance

“ ” *I like how Node.js totally changed the use of JS language; this language CAN do a lot of things and node.js is the great answer.*



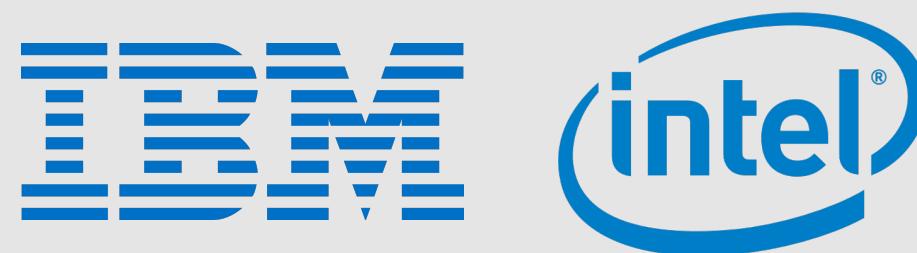
The Node.js Foundation's mission is to *enable widespread adoption and help accelerate development of Node.js* and other related modules through an open governance model that *encourages participation, technical contribution, and a framework for long term stewardship* by an ecosystem invested in Node.js' success.



INDUSTRY SUPPORT FOR NODE.JS

Node foundation members

Platinum



Gold



Silver





THANK YOU