THELINUX FOUNDATION
COLLABORATIVE PROJECTS



2016 User Survey Report

April 2016

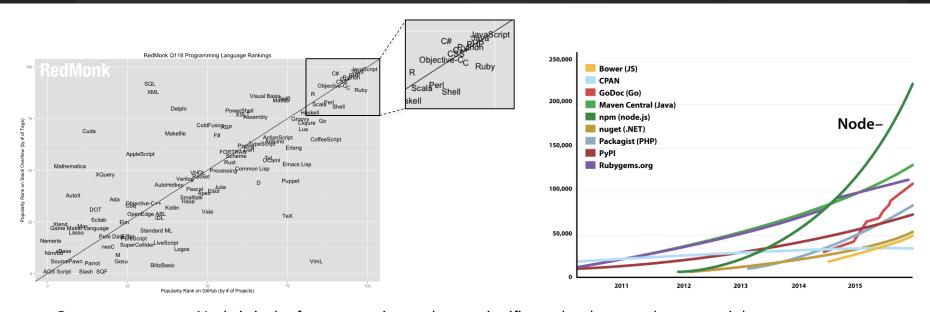
Purpose of Survey



- The purpose of the 2016 Node.js User Survey was to better understand Node.js users:
 - what type of development work they use Node.js for
 - what other technologies they use with Node.js
 - where they are located
 - how many years of experience they have
 - how they learn new languages
 - how the Node.js Foundation can help them get more out of Node.js
 - what version of Node.js they use
 - more
- In addition to revealing interesting insights about the current state of play and trends in web development, the survey provided important information to help The Node.js Foundation be more successful in our mission "to enable widespread adoption and help accelerate development of Node.js and other related modules..."
- Survey insights are being used to inform training materials and documentation, to plan events and meet-ups and create resources to assist developers, enterprises, and tech leaders do more with Node.js

Executive Summary





By many measures, Node.js is the fastest growing and most significant development language right now. With 3.5 million users and an annual growth rate of 100%, Node.js is truly everywhere.

This survey reveals the type of development work Node.js users do, the other technology they use with Node.js, which languages they plan to use more of, and which they plan to use less of in the coming months, and more.

Key Findings



Node.js: A Universal Language

The full stack is no longer "front end and back end" but rather "front end, back end and connected devices," everything from the browser to your toaster all powered by JavaScript and Node.js.

Node.js and Containers Take Off

Both Node.js and containers are a good match for efficiently developing and deploying microservices architectures.

Full "MEAN" Stack Explodes

Real-time, social networking and interactive game applications use MongoDB, Express, Angular.js and Node.js to address concurrent connections and extreme scalability.

Node.js Pervasive in Enterprises

More than 45 percent already using the Node.js Long Term Support release (v4) geared toward medium to large enterprise users.

IoT Developers Using Node.js Stand Out

IoT developers using Node.js have more experience than their front end and back end counterparts and tend to use more Node.js across their stack.

How Survey Was Conducted





The survey was open for **15 days**, from January 13 to January 28, 2016. During this time, **1,760 people** from around the world completed the survey. The survey was promoted by Node.js Foundation members, through Node.js social media accounts and by email to attendees of the 2015 Node Interactive conference.

Node.js User Survey Basic Stats



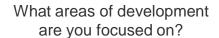


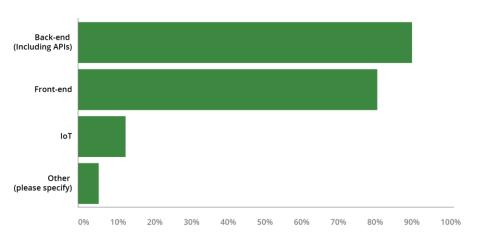
- 1,760 respondents, of which 1,124 (64%) run Node.js in production
- ~70% Developers, 22% Technical Management
- 824* Node.js Developer Respondents
 - 62% do both Front End and Back End development
 - 9% do Front End, Back End and IoT development
- 35% from US, 22% from Continental Europe, 6% India, 6% UK
- ~15% of all respondents from large enterprises

^{*} Developer respondents that run Node.js in production

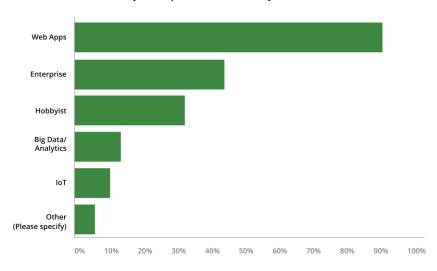
Type of Development Work







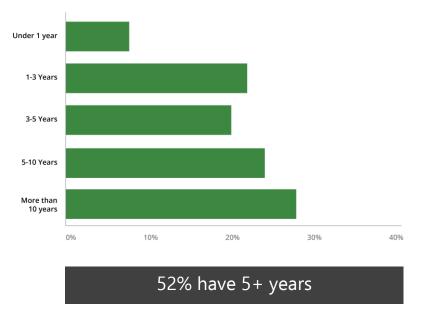
Select the type of development work you spend most of your time on.



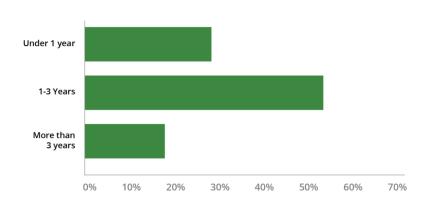
Average Years Experience







Years of Node.js Experience

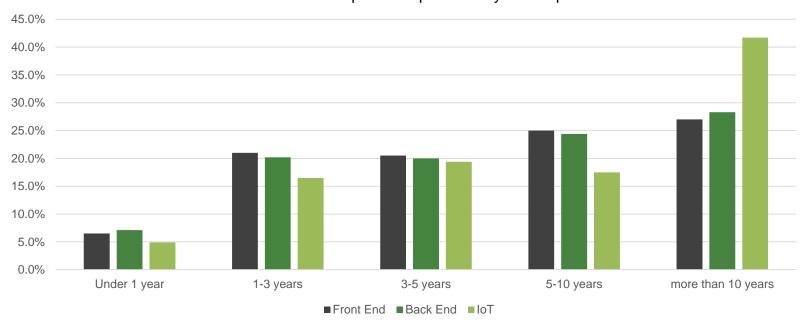


81% 3 years or less w/ Node.js

Average Years Experience by Dev Type



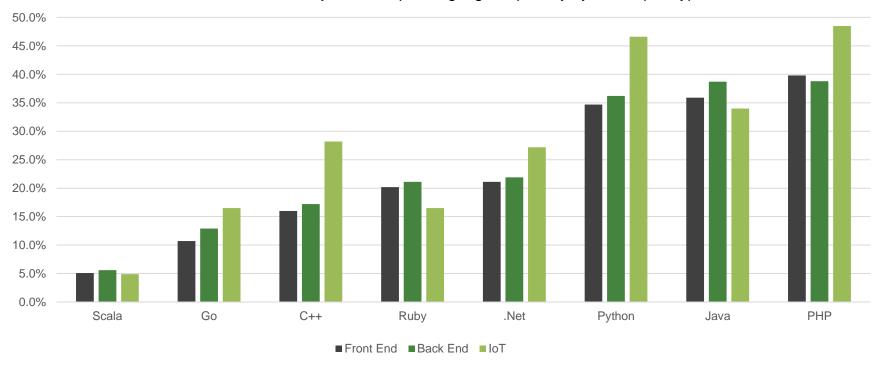
Years Professional Development Experience by Development Focus



Language Use - Front End, Back End, IoT

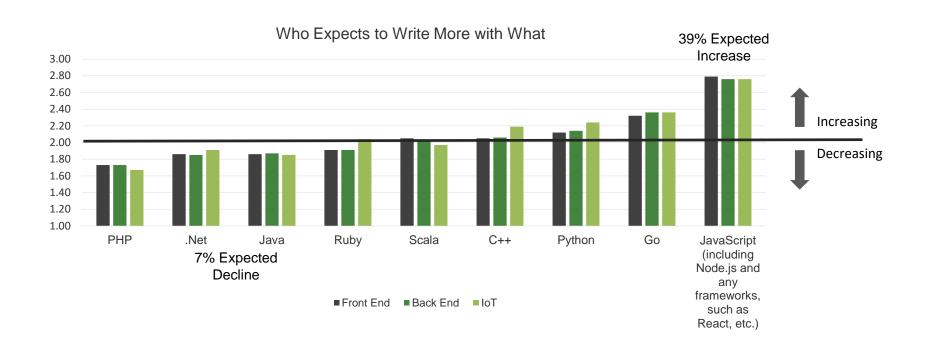


In addition to Node.js/JavaScript, Language Popularity by Developer Type



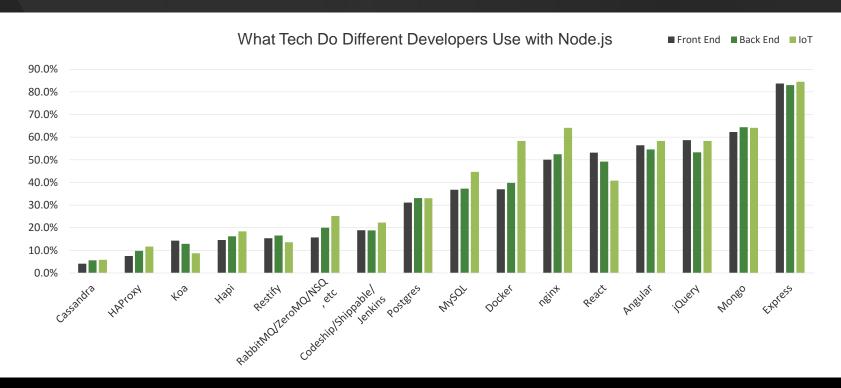
Language Use Forecast – Front End, Back End, IoT





Tech Use with/in Node – Front End, Back End, IoT

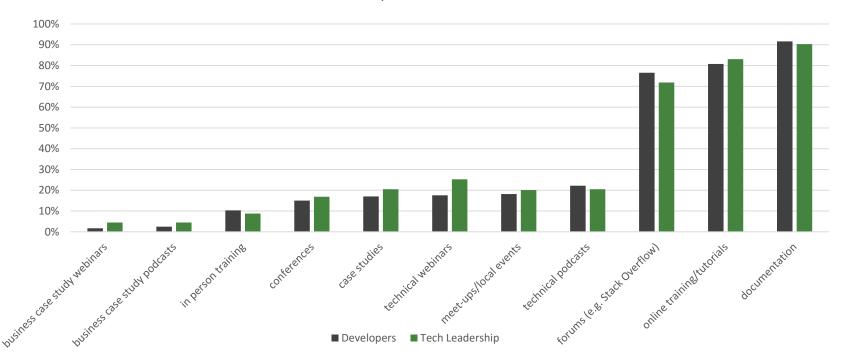




Resources Developers and Tech Leaders Rely on

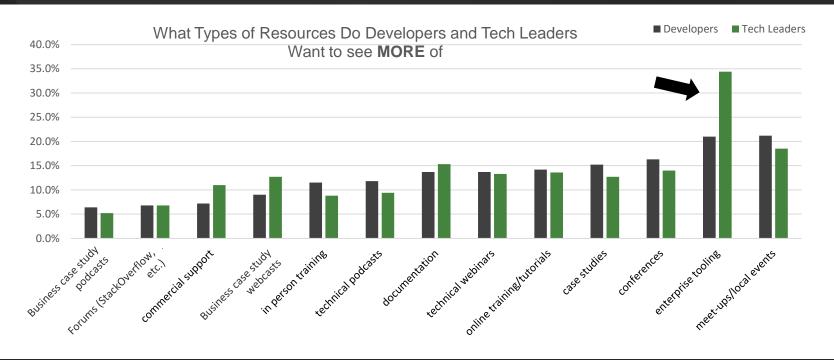


Resources Developers and Tech Leaders Use



Resources Developers and Tech Leaders Want More of

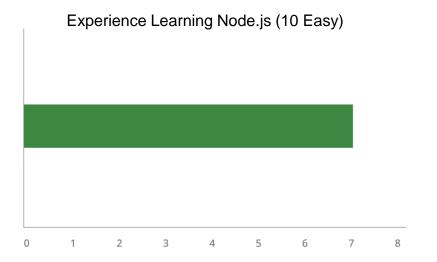




Strong interest in Enterprise Tooling among Tech Leaders is an indicator of Node's growing role in the enterprise

Experience Learning Node.js

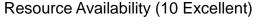




Positive	Needs Work
Background in other scripting languages makes adopting Node.js straightforward	More resources for advanced Node.js techniques, especially for large Enterprise projects would help
Strong MongoDB stack resources	More explanation of asynchronous models and handling callbacks

Experience Learning Node.js







Positive	Needs Work
Large and active community produces large volume of high- quality resources	More API resources would be beneficial
Excellent availability of introductory Node.js resources	Greater availability of large-scale, enterprise and cloud-ready resources would be helpful

Experience Learning Node.js

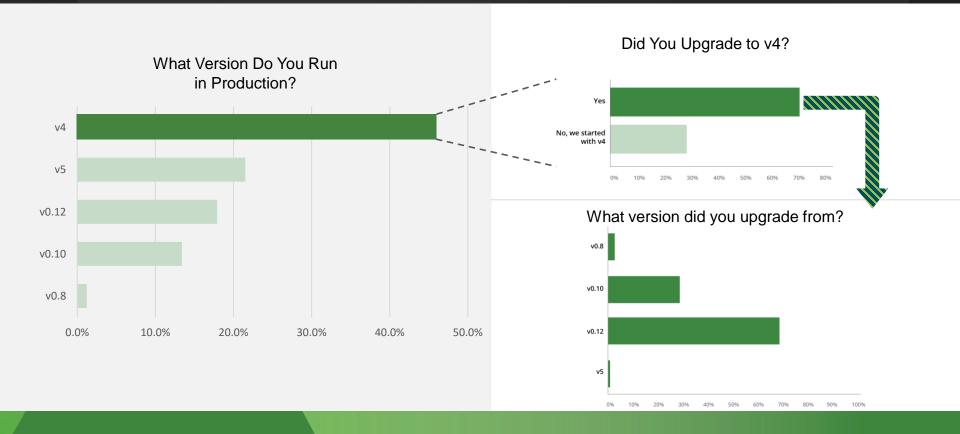




Positive	Needs Work
High-quality resources	Rapidly evolving state of the art requires rapid resource iteration

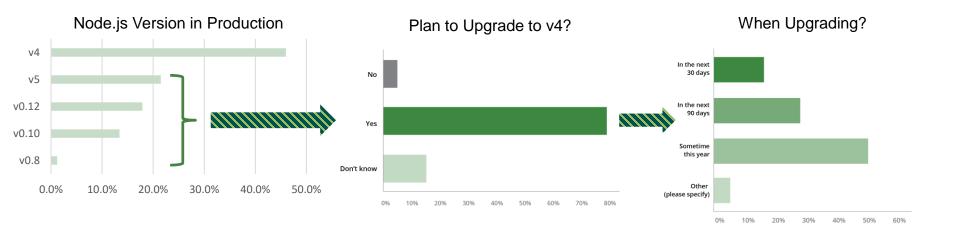
Version of Node.js in Production and Upgrade Plans/Path





Version of Node.js in Production and Upgrade Plans/Path





Detailed feature comparisons and matrices across versions will improve clarity

How Can The Foundation Help Clarify Versions?



Positive	Needs Work
Versions are well described	Help/encourage frameworks to migrate to LTS promptly
Changelog is good	Expand tutorials/guides/ matrices to assist users make the best choice for their needs and prepare for issues they may face



Thank you!

www.nodejs.org