

What Is Node.js and Why It Matters

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What Is Node.js?

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So What Is Node.js?



Node.js® is a platform built on **Chrome's JavaScript runtime** for easily building fast, scalable network applications. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient, perfect for data-intensive real-time applications that run across distributed devices.

What Node.js Is NOT

- Node.js is NOT a webserver
 - Apache, IIS, etc.
- Node.js is NOT a framework
 - Rails, Symfony, etc.
- Node.js is NOT an ORM
 - ActiveRecord, ADO.NET, etc.



... but it can be

Node.js Is Simply...

A JavaScript Runtime

An easy way to execute JavaScript outside of a browser



Cross-Platform I/O



Small Core Library

Node.js CAN Be a Webserver

```
var http = require('http');

http.createServer(function (req, res) {
  res.writeHead(200, {'Content-Type': 'text/plain'});
  res.end('Hello World\n');
}).listen(8080);

console.log('Server running on port 8080.');
```

Node.js CAN Be a Framework

```
var express = require('express'),  
    app = express();  
  
app.use(express.static(__dirname + '/public'));  
  
app.listen(8080);
```


Node.js CAN Be an ORM



Meteor

Node.js CAN Be Anything



Small Core Library



Community

Why Node.js Matters

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On the Shoulders of Giants



95k packages and counting...

Do More With Less

PayPalTM

Node version of app **doubled req/sec**

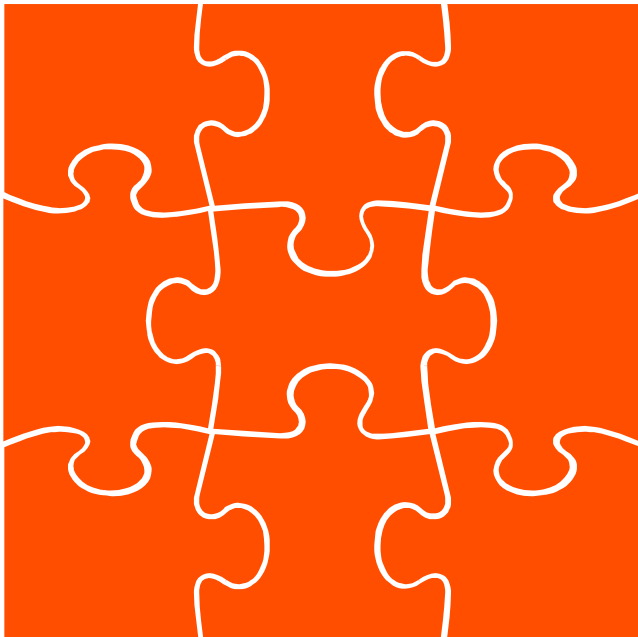
Response time **dropped 35%** or 200ms

Linked TM

2–10x faster on the client

Required **75% less** infrastructure

Accelerate Development



“Velocity was the key driving point for **PayPal’s move to Node**. We found it enabled a huge boost to our workflow allowing us to **iterate faster and innovate more.**”

– Jeff Harrel,
Director of User Interface Engineering

Recruiting & Developer Joy

“PayPal has a long history of enterprise technologies such as Java and C++. **Since PayPal has adopted Node**, I’ve been told countless times from engineers in passing that they are **energized by their job again** and excited to be adopting a ‘modern’ technology to build our future. It’s nice to hear that.”

– Jeff Harrel,
Director of User Interface Engineering



Davi Arnaut @davi · 13 Feb 2013

Amazing **recruiting pitch**: [...] has a lot of exciting projects [...] some of these include plans to rebuild our entire global website on **Node.js**

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Node.js & Progress

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Progress' Commitment to Node.js



Node.js + Progress



ODBC, JDBC

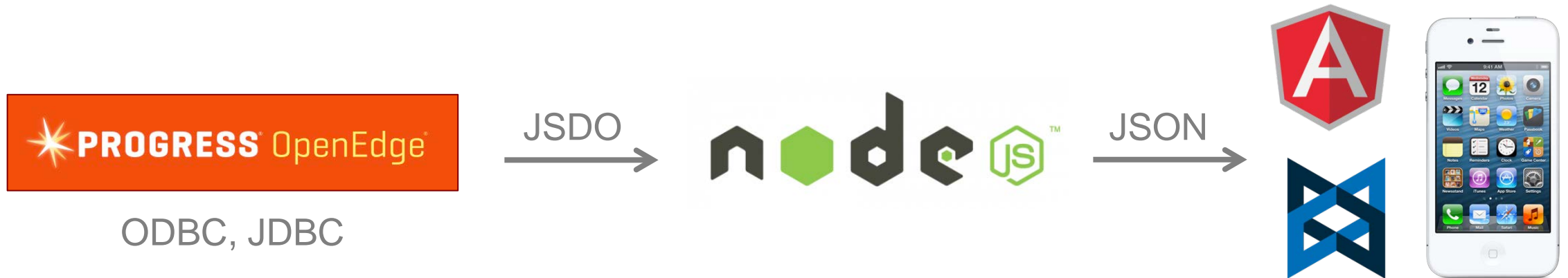
Node.js + Progress



ODBC, JDBC



Node.js as the Middleman



JSDO – JavaScript Data Objects

Node.js as a Proxy



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