

Introduction to Node.js

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What is Node.js

- “Server-side JavaScript finally done right”
- Based on Google’s V8 engine
- Event-driven I/O Model
- Highly Scalable

What Can You Do With Node.js

- Web Applications
 - Real-time applications
 - Event-based web sites
- REST Web Services
- [iOS/Android](#)
- [Desktop Applications](#)
 - Linux/Windows/OS X

Who Uses Node.js

- Dow Jones
- eBay
- LinkedIn
- Microsoft
- Pearson
- Yahoo
- Many more...

How To Install

- <http://nodejs.org/download/>
- Windows
 - Executable and installer
- Homebrew on OS X
 - brew install node
- Linux
 - <https://github.com/joyent/node/wiki/Installing-Node.js-via-package-manager>

Basic Commands

- node
 - Starts node console
 - node <.js filename>
 - node -v
- npm
 - Node package manager
 - npm -v

“Hello, World!”

Simple “Hello World”:

```
console.log(“Hello, World!”);
```

Web “Hello, World!”

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

```
http.createServer(function (request, response) {  
  response.writeHead(200, {"Content-Type": "text/plain"});  
  response.end("Hello, World!\n");  
}).listen(8000);
```

```
console.log("Server running at http://127.0.0.1:8000/");
```


Popular Modules

- [Express](#)
 - Web application framework
- [Socket.io](#)
 - Helps make real-time applications
- [Mongoose](#)
 - MongoDB Object Modeling
- [Jade](#)
 - Template engine
- [restify](#)
 - REST API framework