**Node Tutorial**

**An overview of Node.js**

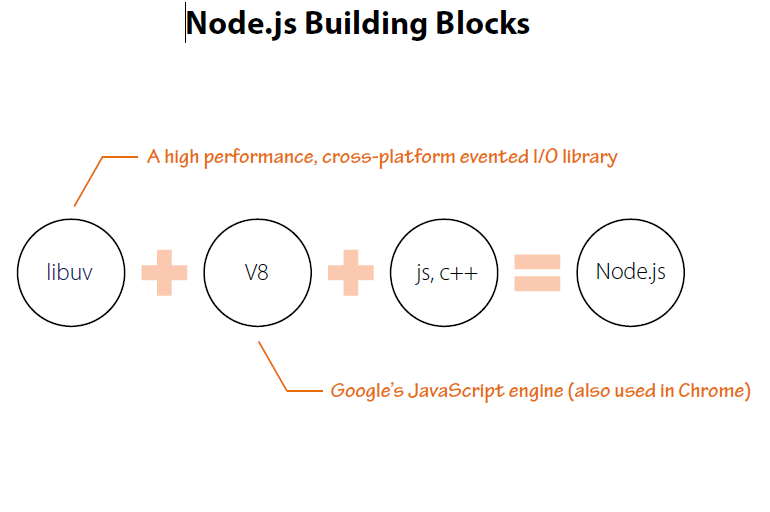
**Building and installing Node.js**

**Developing for Node with Cloud9 IDE**

**An introduction to Node’s event loop**

**Writing code with callbacks**

# An overview of Node.js



# Building and installing Node.js

[**http://nodejs.org/download/**](http://nodejs.org/download/)

**Installers available for Windows & Mac OS X**

**Binaries available for Windows, Mac, Linux and SunOS** Also available via many Linux package managers

nvm install 0.8.14

nvm use 0.6.19

# Developing for Node with Vscode

### best vscode extensions angualr js

HTML CSS Class Completion

Bracket Pair Colorizer

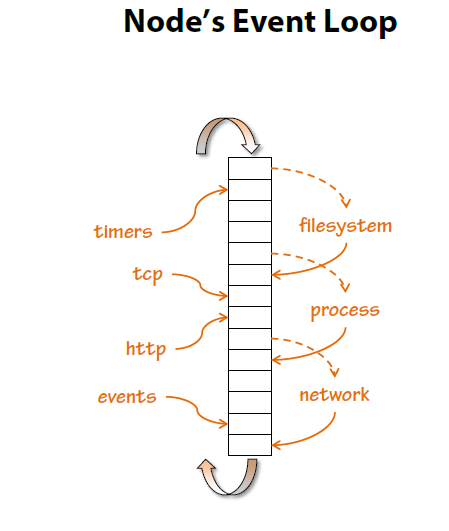
TypeScript

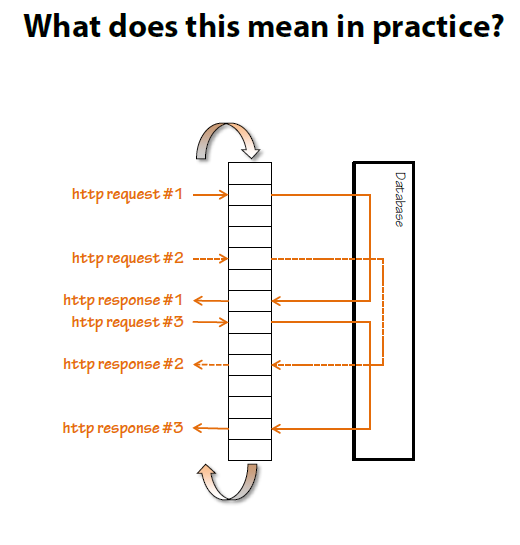
TSLint

TypeScript Hero

Node.js Modules Intellisense

# An introduction to Node’s event loop





# Writing code with callbacks

**A typical approach / blocking code**

var conn = getDbConnection(connectionString);

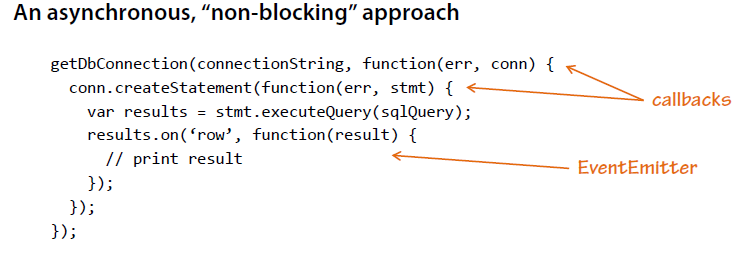
var stmt = conn.createStatement();

var results = stmt.executeQuery(sqlQuery);

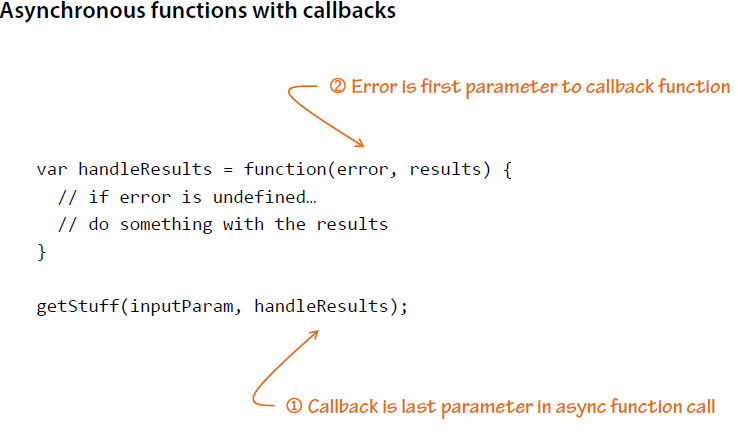
for (var i=0; i<results.length; i++) {

// print results[i];

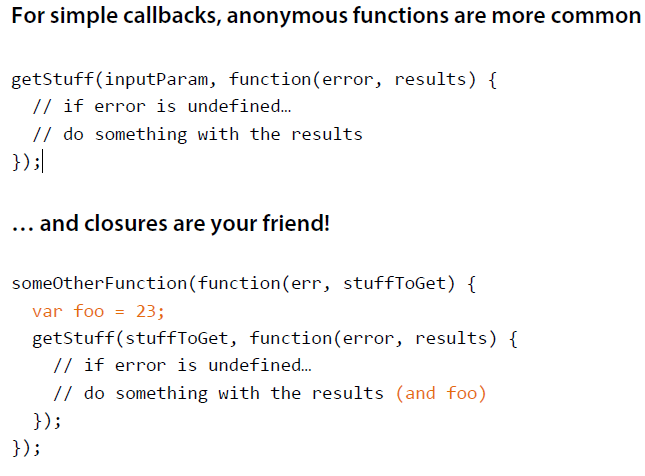
}



**Coding for asynchrony with callbacks**



**Anonymous Functions and Closures**



**“Christmas tree” effect!**

asyncFunction1(inputParam, function(err, results1) {

asyncFunction2(results1, function (err, results2) {

asyncFunction3(results2, function (err, results3) {

asyncFunction4(results3, function (err, results4) {

asyncFunction5(results4, function (err, results5) {

// and so on…

});

});

});

});

});

