

PUT SOME JAVASCRIPT IN YOUR BACKEND

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OBJECTIVES

- JavaScript on the Server
- What is Node.js
- What can JavaScript do for Flash Developers



ME

- Building Web Applications since 98
- Developing Flex applications since 04
- Training Flex Developers since 06
- Tech Junky – My whole life





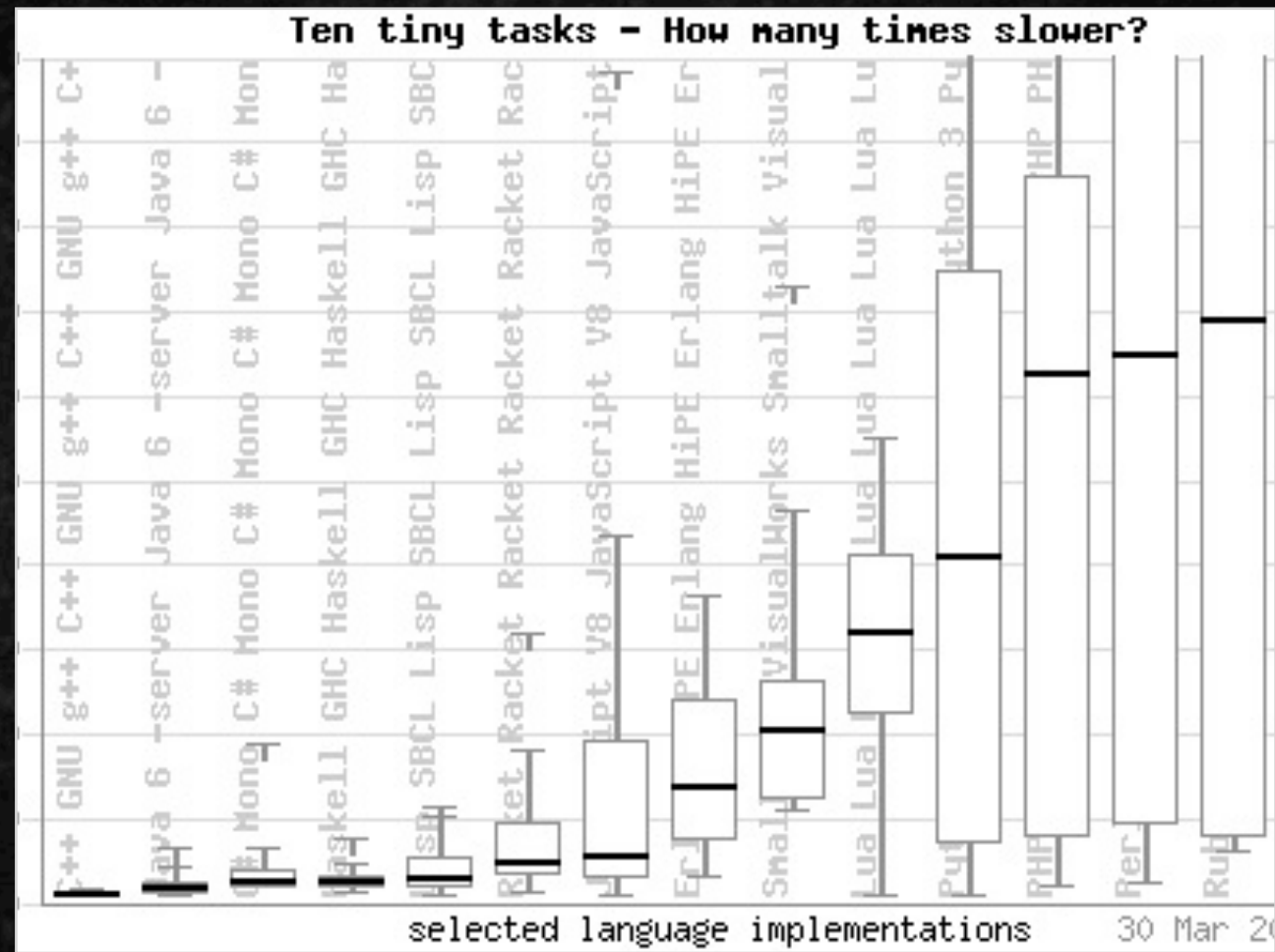
HOW DID WE GET HERE?



ENTERPRISE JS

- I started looking into how would I build JS apps like I build Flex apps
- Including
 - Layout
 - Styles
 - Loading Data
- JavaScript can be fast





ITS FAST!



WHY JAVASCRIPT

- Despite what you may feel about JS its a very powerful language
- Object Oriented
- Useful in many contexts



COMMON JS

- <http://www.commonjs.org/>
- Create Common API for non browser implementations
- Defines Spec for
 - Modules
 - System
 - Packages



MODULES

- Like Imports in AS3
- Allow for packaging of chunks of code that can be used in applications



PACKAGES

- Unlike AS3, packages are not about where your code lives
- Packages describe your application
- Predefined format to express author, licenses and dependencies



Socket.IO / package.json

100644 | 19 lines (18 sloc) | 0.475 kb

```
1  { "name": "socket.io-browser"
2    , "description": "Browser-side code for Socket.IO"
3    , "version": "0.6.2"
4    , "main" : "./socket.io.js"
5    , "homepage": "http://socket.io"
6    , "repository":
7      { "type": "git"
8        , "url": "git://github.com/LearnBoost/Socket.IO.git"
9      }
10   , "author": "LearnBoost"
11   , "licenses" :
12     [ { "type" : "MIT"
13         , "url" : "http://github.com/learnboost/Socket.IO/raw/master/README.md"
14       } ]
15   , "engines": { "node": "*" }
16   , "scripts" :
17     { "install" : "bin/build" }
18   }
19
```



NODE.JS

- Node.js is a non blocking event driven javascript environment
- Built by Ryan Dahl of Joyent
- Focuses on making http and networking first class parts of the environment.





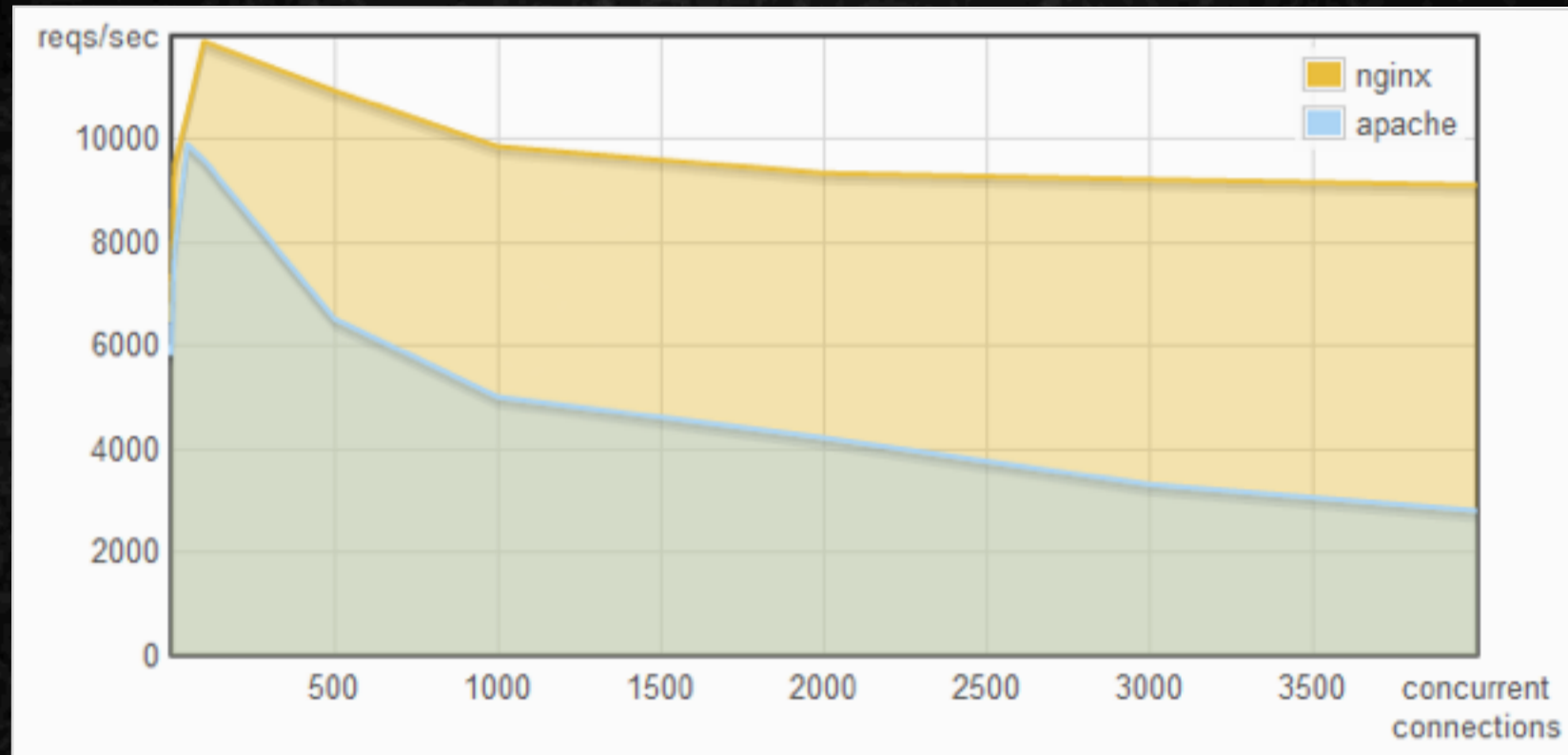
REQUEST BOUND TO PROCESS





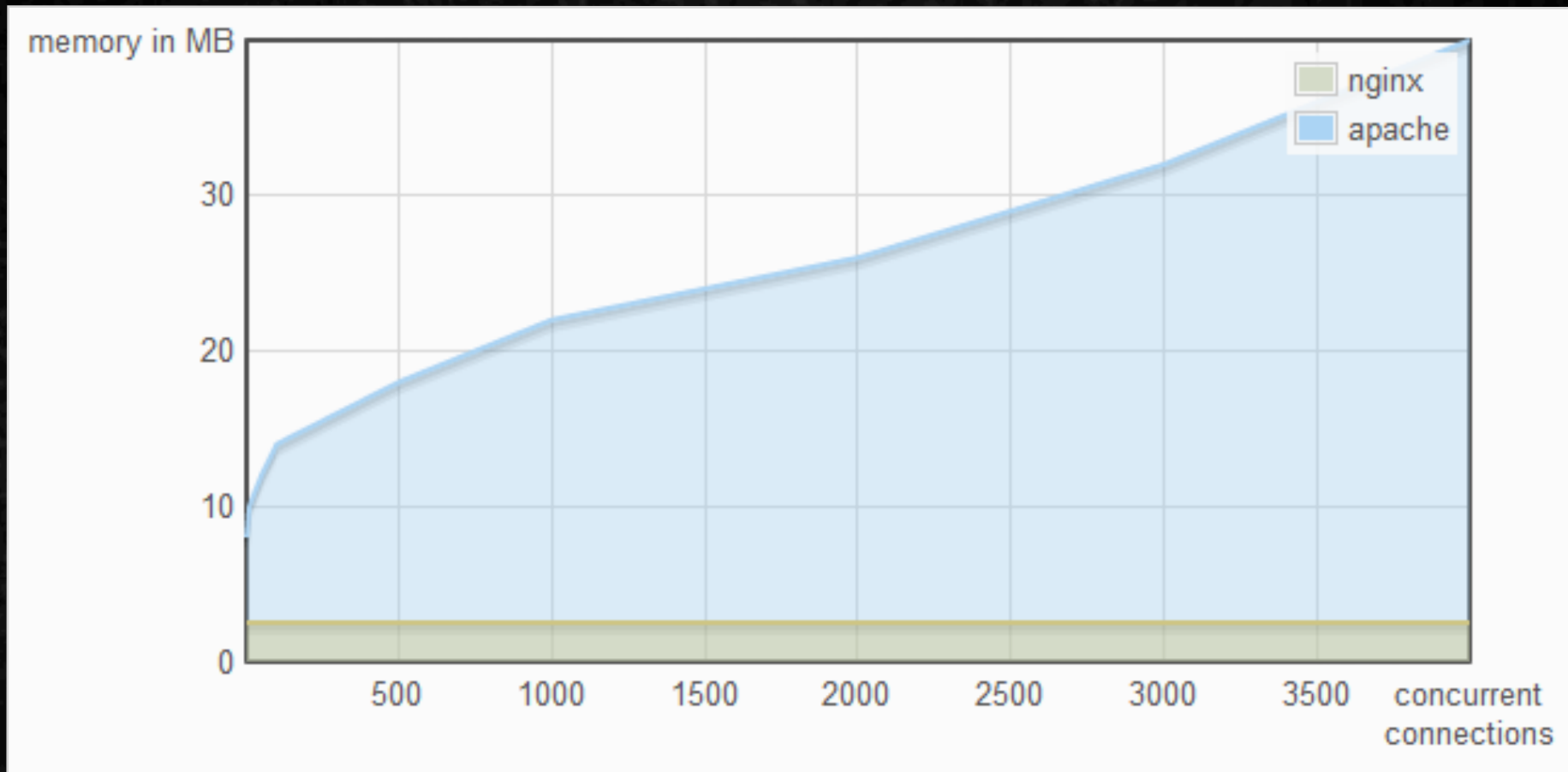
EVENTED





NON BLOCKING CONNECTIONS





MEMORY USE



WHATS IN IT FOR YOU

- Demos
 - HTTP Server – Modules
 - Connect – Static Provider
 - Express – Routing
 - Express – MVC
 - Simple Echo Socket Server
 - Socket.IO – Chat
 - *Bonus* Socket.IO – Real Time Stats



RESOURCES

- Node.js – <http://nodejs.org/>
- Connect – <http://senchalabs.github.com/connect/>
- Express – <http://expressjs.com/>
- Socket.IO – <http://socket.io/>



- Thanks!
- Simeon Bateman
- <http://www.simb.net>
- @simbateman

