# Web Development with Express.js

Hadi Hariri <a href="http://hadihariri.com">http://hadihariri.com</a>



Introduction to node

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- Installation and Tooling

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- Connect Middleware: Foundation for Express.js

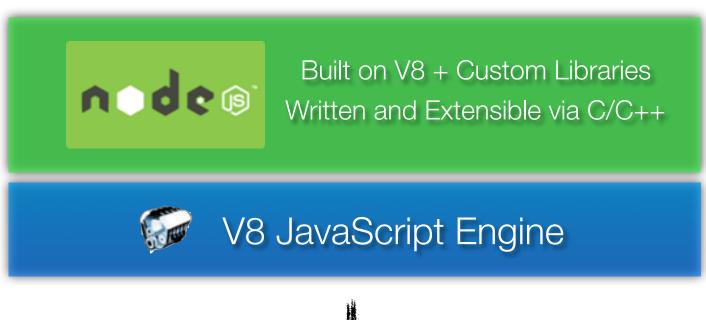


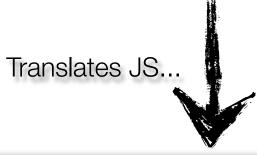
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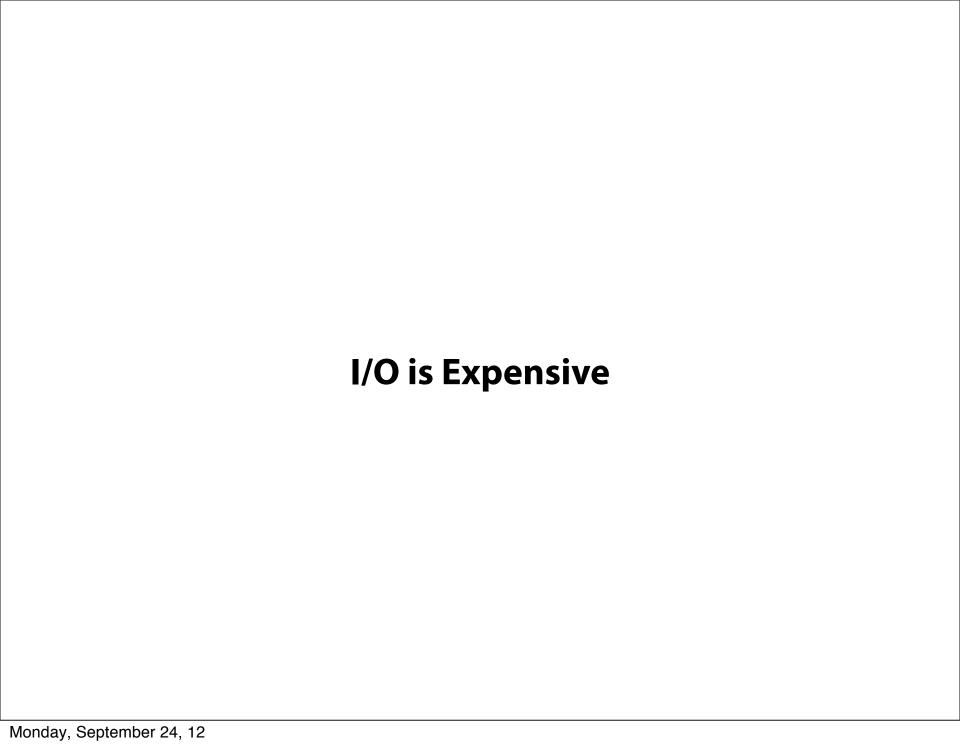
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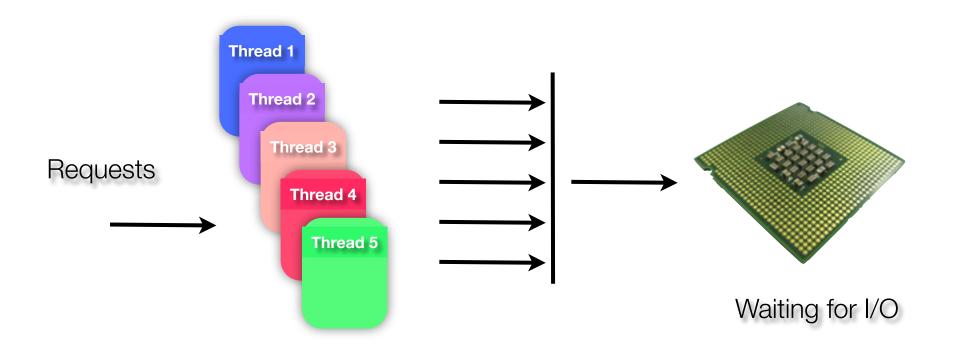




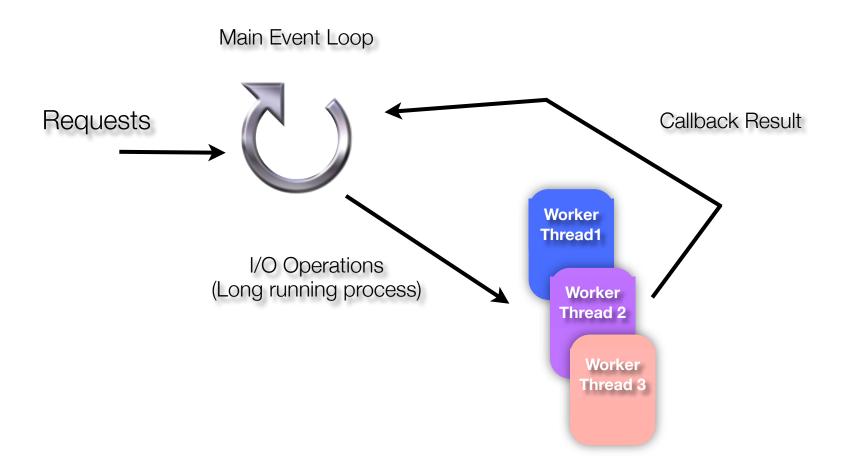
Native machine code



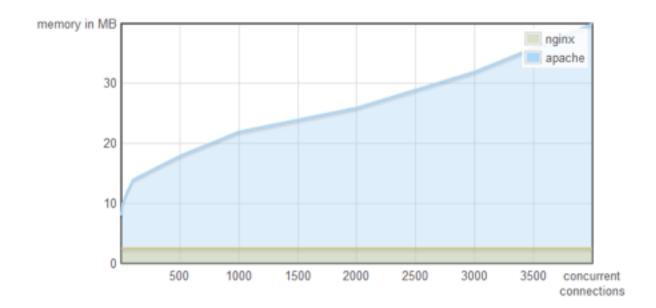
### **Threaded Model**



# **Event-Loop Model**

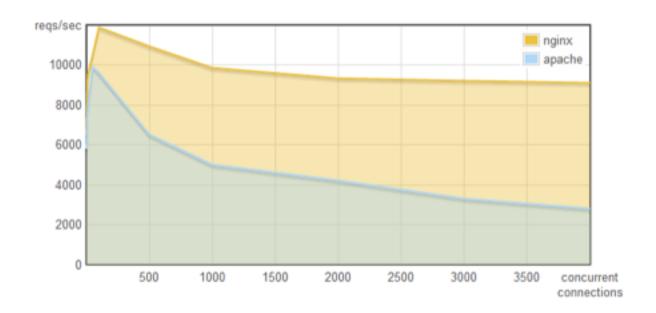


# **Memory Usage**



Source: http://www.beakkon.com/geek/node.js/why-node.js-single-thread-event-loop-javascript

### **Performance**

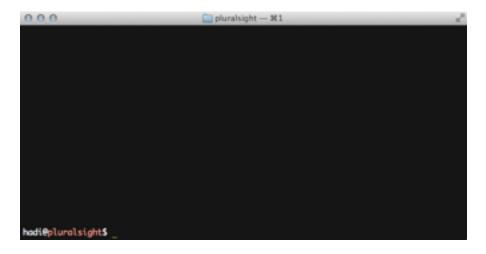


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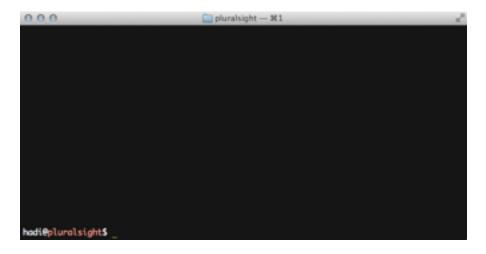


Command Line

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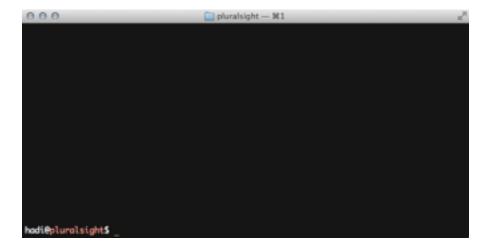


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  - Visual Studio
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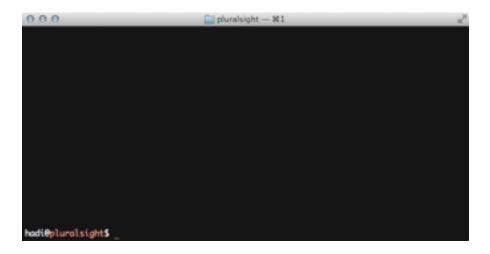
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Request Processing Pipeline

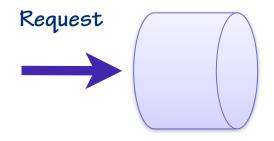
Request



Response

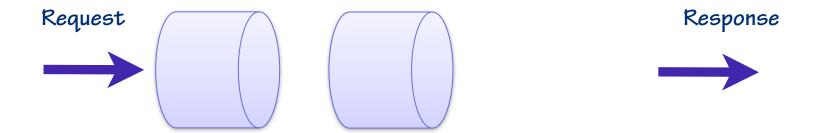


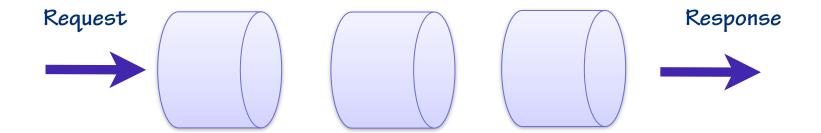
#### Request Processing Pipeline

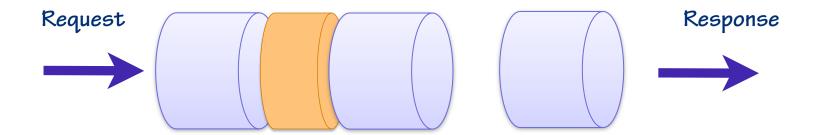


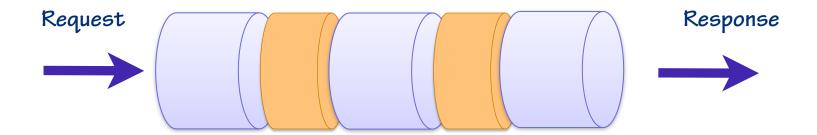
Response



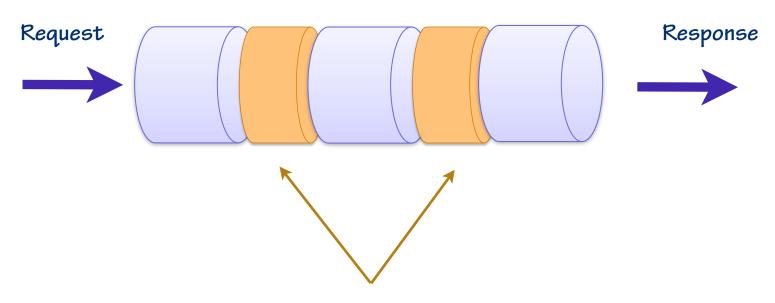








#### Request Processing Pipeline



Middleware (Logging, Authentication, etc.)



Built on top of node's Http Server

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- Available as an npm package (connect)