

Full Stack JS



PRESENTED
BY

GRANT
SHIPLEY



AGENDA



Introduction



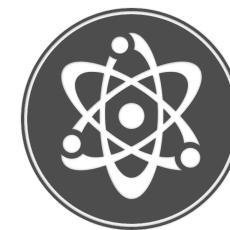
JavaScript
Overview



Production?



Demo

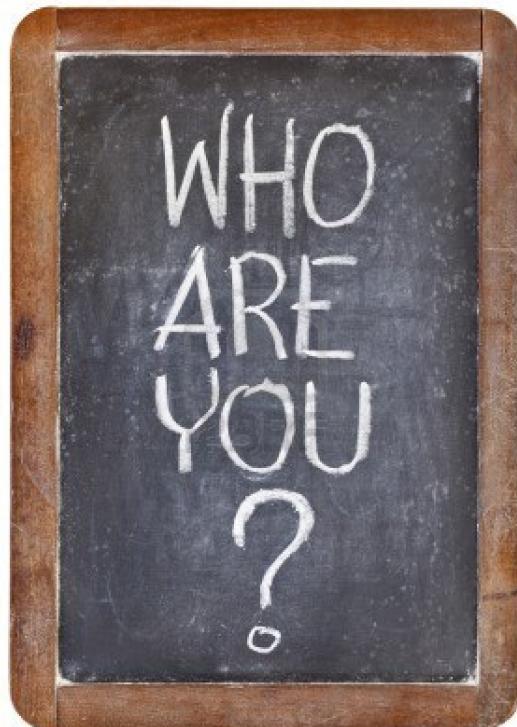


WHO AM I?

- Grant Shipley -- @gshipley
- Senior Manager, Cloud– Red Hat
 - I still code
- Red Hat (8 Years), Novell (2 years), Caldera / SCO (5 years)
- Java / Mobile /MongoDB / MySQL/ PostgreSQL
- Open source projects



WHO ARE YOU?



ASSUMPTIONS

- You care about writing JS applications
- You want to learn how to create scalable applications
- You want to learn how to use JS to develop mobile & backend



JavaScript Stack History

- Created in 10 days in 1995 (Netscape)
- Original name was Mocha ... then LiveScript
- December of 95, changed to JavaScript
 - Ride the coat tails of Java
- Useful for making blinking HTML
- 2005 – jQuery
- 2006 - Appcelerator Created
- 2009 – Node.js announced
- 2009 – Appcelerator release Titanium
- 2009 – MongoDB released



HATERS



GONNA HATE

I was among many developers that recently rediscovered JavaScript. Indeed as a very capable language. But after using the new JavaScript for a solid year, I came to the conclusion that JavaScript still sucks. And no, I'm not talking about its wacky...

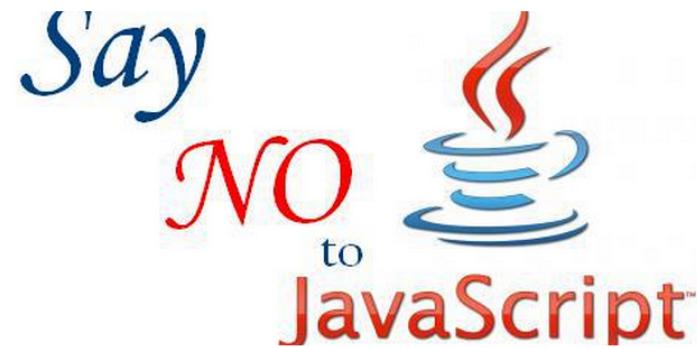
Like · Comment · Share

 I hate Javascript
March 1, 2013

Death to JavaScript!!!

Like · Comment · Share

 I hate Javascript changed their cover photo.
February 13, 2013



Like · Comment · Share

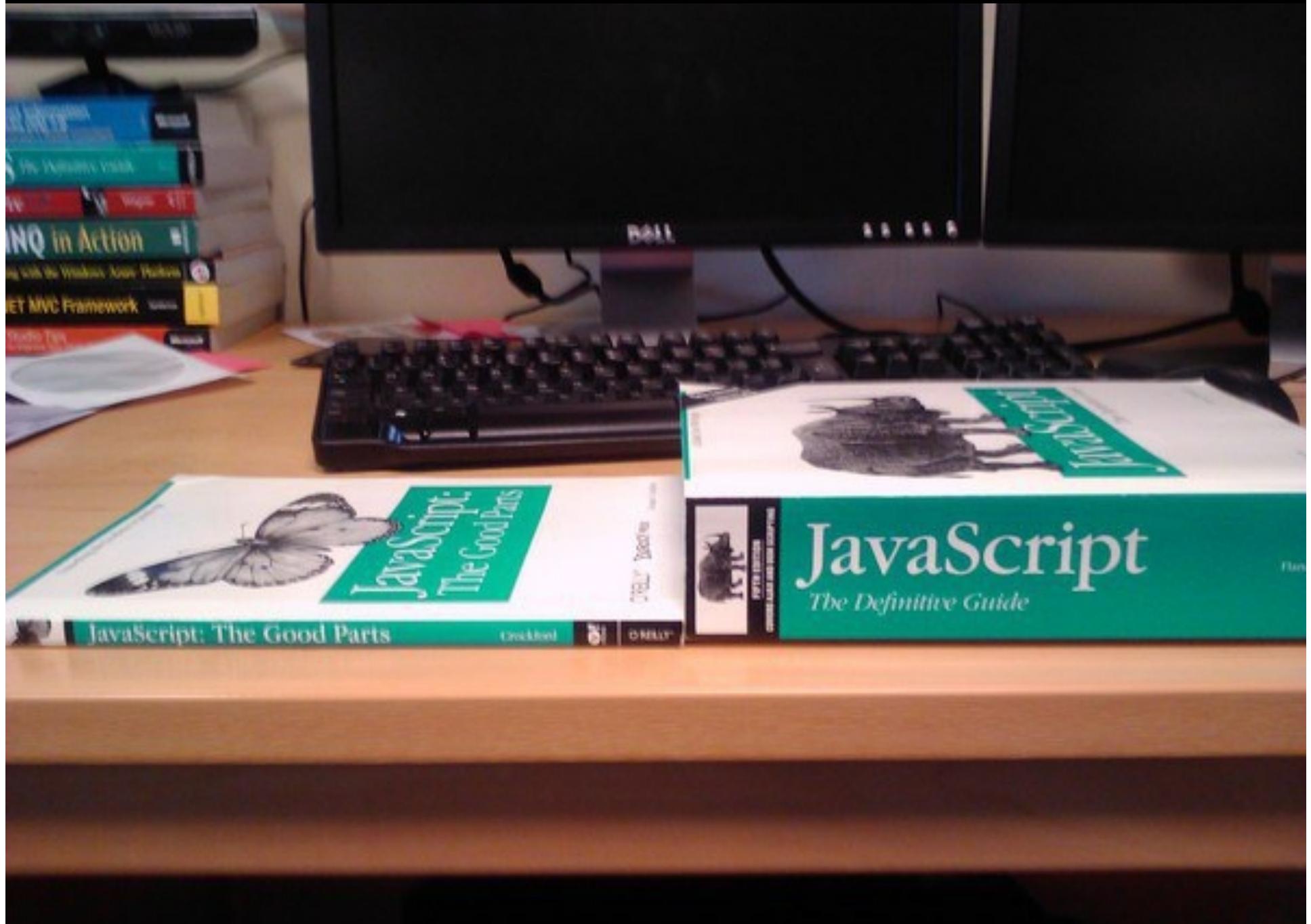
41

 I hate Javascript
March 21, 2013



Like · Comment · Share

1



JS? Huh.

- JS is a toy language
- It's for making blinking web pages
- Only good for client side validation, and even that should be done on the server
- Not a real programming language



JS, I LOVES YOU

- Easy to code in (once you understand it)
- A gazillion libraries
- Runs anywhere!
- A tool for most jobs (What can't this thing do?)
 - Mobile
 - Server
 - Client
 - Database



THE A-TEAM



The A Team

- Eclipse-based IDE
- Integrated with OpenShift
- Build, test and deploy mobile apps from a single IDE
- Debugger
- I love it, but I hate it

The A TEAM

- Document-orientated
- High performance
- High availability
- Easy scalability
- JSON Document Store – Perfect for Titanium
- Backed by 10gen
- Open Source



The A Team

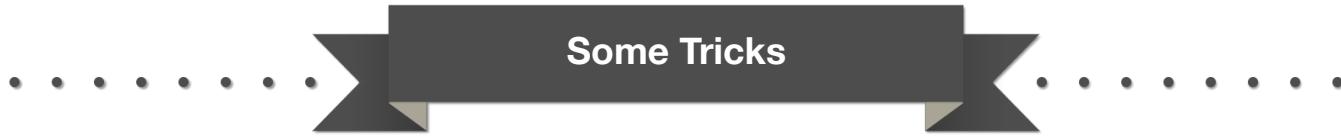
- Easy to code in (once you understand it)
- A gazillion libraries
- Non-blocking IO
- Same code base on windows, mac, linux.





How do I make money





Some Tricks

- What I learned about publishing mobile apps
 - Split revenue
 - Contract work
 - Freemium
 - In app purchases
 - Pay per download
- Partner Partner Partner – I can't compete
- Use established brands and content
- You can't just push it out there

Shin
P.
It!



REVIEW



What is cloud computing
My mom thinks I work at Apple

LEVEL SET

- Cloud computing will
 - Feed all the children
 - Shelter all the homeless
 - Create world peace
 - Save us from the zombie apocalypse
 - Automagically correct your terrible photos



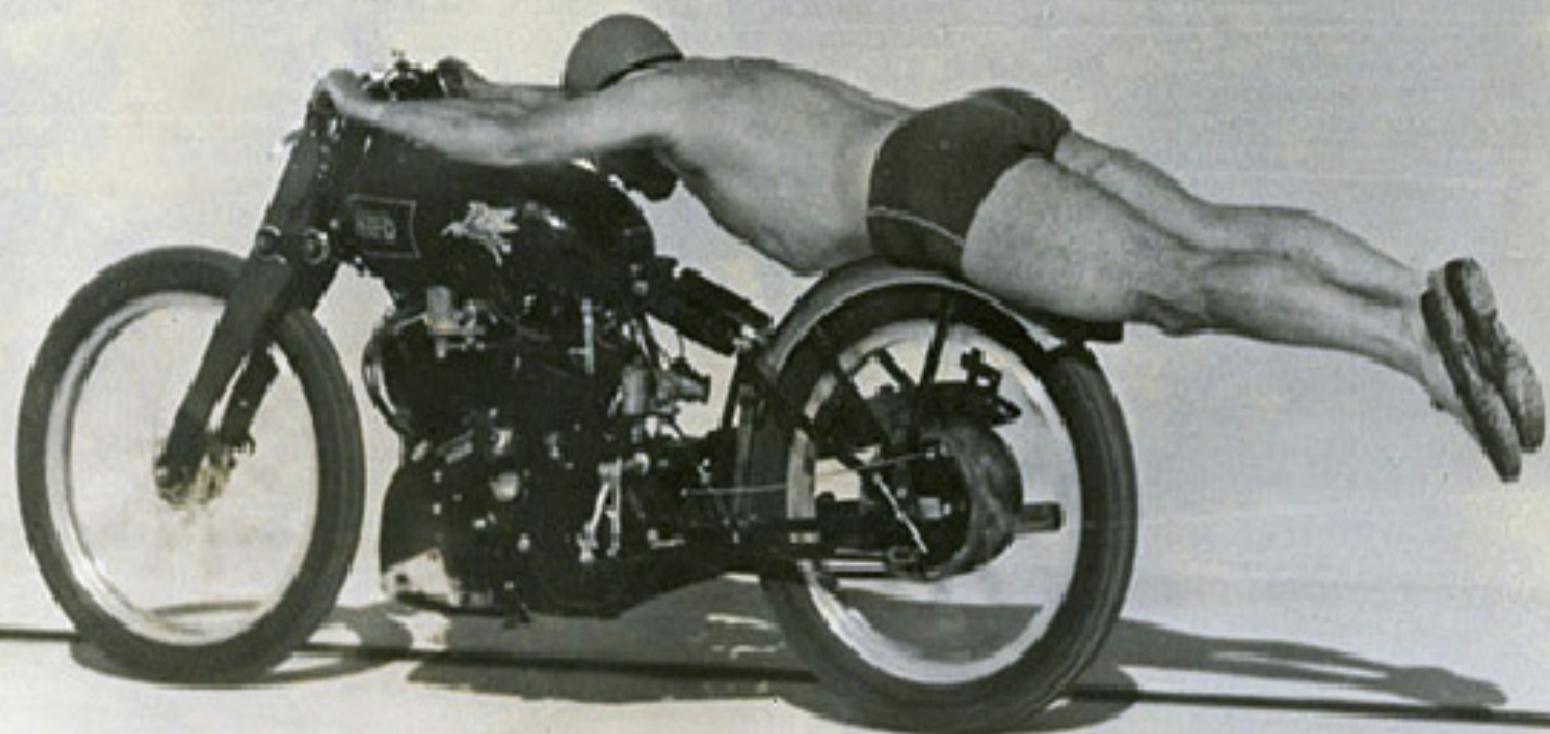
EVERYONE GETS ALONG

- Operations care about stability and performance
- Developers just want environments without waiting

PaaS creates a peaceful environment for both parties



**Fast
Free
Scalable**



OpenShift is SCALABLE



Vertical Scaling



Horizontal Scaling

LANGUAGES?

DEVELOPER TOOLS



PACKAGED APPS



FRAMEWORKS



LANGUAGES



CUSTOM CARTRIDGES



OPENSHIFT

MIDDLEWARE



DATASTORES & BACKENDS



HOSTING



OS



Node ROCKS
on OpenShift



Got Questions? I Have Answers!

- IRC: freenode #openshift
- Grant on Twitter: @gshipley
- Web: www.runcloudrun.com
- Source code: www.github.com/gshipley

DONE!

