

Lecture 3

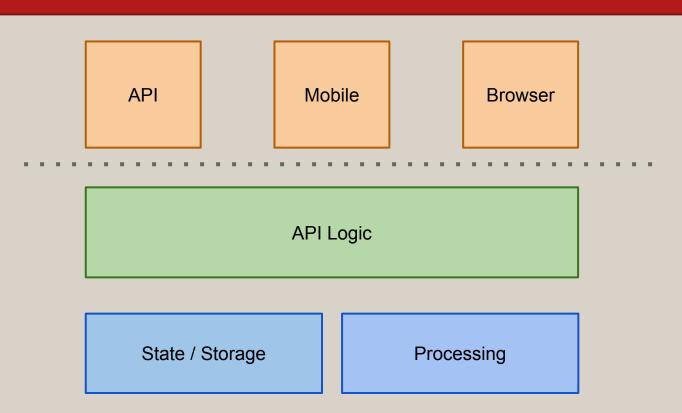
Development Stacks adam@honestbuildings.com



Class Business

- Project Teams
- GitHub Names + Faces
- Attendance







API

- Protocol (HTTP, TCP, Socket, ?)
- Language

Mobile

- Cocoa vs Java
- Cross-compiler
- Phone-Gap

Browser

- JS, CoffeeScript, TypeScript
- CSS, SASS v LESS
- Semantic HTML v Tables
- SVG, Canvas



API Logic

- Python, Java, JavaScript / NodeJS, PHP, Ruby, C++
- Spring, Rails, Meteor



State / Storage

- MySQL,
 PostgreSQL,
 MongoDB, Redis,
 Cassandra
- Amazon RDS, Redshift

Processing

Hadoop, RabbitMQ



API Mobile Browser **API Logic** State / Storage Processing

Chef, Docker, Puppet, Ansible, AWS OpsWorks



Good Stack Choices

- Can help you focus
- Offer generic solutions to (potentially many!) problems
- Empower developers

Poor Stack Choices

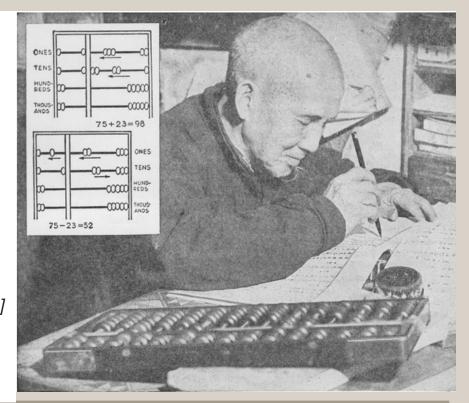
- Introduce fun (but irrelevant)distractions
- You get to re-implement standard libraries
- Difficult hiring or training takes weeks



How to Choose?

"If our basic tool, the language in which we design and code our programs, is also complicated, the language itself becomes part of the problem rather than part of its solution"

- Hoare [http://dl.acm.org/citation.cfm?id=358561]





O. Personal Favourite





1. Social Proof

- It worked before
- It did not work before
- Someone I trust uses it
- Everyone jumping



2. Developer Happiness

C0D3RS <3

- Their own choices
- Cutting edge tech
- Vibrant dev communities



3. The Benefits

- Domain suitability
- Language and Library Maturity
- Symmetry across the stack (JavaScript)



Your Stack

- What problem are you solving
- What is important to you?
- What do you know?



Next Steps

- Project Teams Unite!
- Get setup in a project manangement system
- Setup your AWS Educational Account
- Prepare your first Story