

Programming for non-Programmers

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A whirlwind tour in three parts ...

1. Architecture

2. Agility

3. Implementation

Programming for non-Programmers

ARCHITECTURE

Very Fast ...

but very dumb

- Billions of cycles / sec
- Millions of bytes / sec
- Thousands of writes / sec

- Faces
- Voices
- Handwriting
- "Do What I Mean"

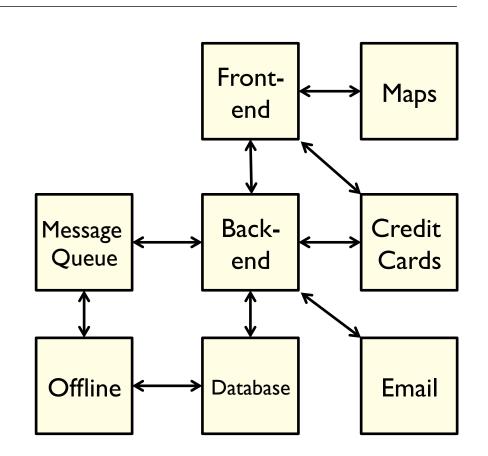
PERFORMANCE

- Realistic targets
- ... from business plan
- Minimum Viable Product

COMPONENTS

- Source code is not an asset!
- Divide and conquer

- Front / Back
- Database
- Message Queue
- External Services



WEBSITES & WEBAPPS

- Static HTML
- HTML Templates & Forms
- HTML5 & AJAX
- Single Page HTML5

APPS & APPLICATIONS

- Native Apps (iOS, Android, Windows Phone)
- PC Applications (Windows, Mac, Linux)
- Hybrid & Mixed Approaches

DISCUSSION: Technologies

Programming for non-Programmers

AGILITY

AGILE MANIFESTO

- Individuals and Interactions over processes and tools
- Working software over comprehensive documentation
- Customer collaboration over contract negotiation
- Responding to change over following a plan

Agility 13

AGILE DEVELOPMENT

- Sprints
- Phases
- User Stories
- Standup Meetings
- Index Cards

The word "agile" has been subverted to the point where it is effectively meaningless

Dave Thomas

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AGILE DEVELOPMENT

- Issue Tracking
- Revision Control
- Review
- Culture

DOCUMENTATION

- "Document Driven Development"
- User Stories
- Wireframes
- Requirements
- Specifications

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TESTING & REGRESSIONS

- Automated Tools
- Test Driven Development

DISCUSSION: Projects

Programming for non-Programmers

IMPLEMENTATION

- Operating System
- Languages
- Databases
- Libraries

You can do anything in any language. You can also eat soup with a knife

- Ville Vainio

FRAMEWORKS

Python	Django, Tornado
Ruby	Ruby on Rails
Javascript	Node.js / Express, ASP
PHP	Laravel,
Java	Spring, JBoss, Grails,

DATABASES

SQL:

NoSQL:

- MS-SQL
- Postgres
- MySQL
- SQLite

MongoDB

CouchDB

Cassandra

Redis

AUTOMATION

- Configuration Management Puppet / Ansible / Chef
- Automate Everything
- Backups!

Q&A

p12: Agile Manifesto http://agilemanifesto.org/

p13: Dave Thomas, co-author of the Agile Manifesto:

http://pragdave.me/blog/2014/03/04/time-to-kill-agile/

p18: Ville Vainio on /r/programming:

http://reddit.com/r/programming/comments/29syhg/

farewell_nodejs/cioaq3o

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