



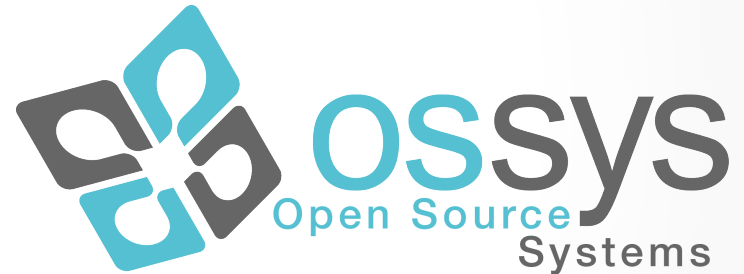
CODE talk Series:

Crafting Quality Code

August 15, 2014

Let's make some introductions!

PEOPLE MATTER™



PayNearMe™

blackbaud™
your passion > our purpose

Sarah Simpson

Credentials:

Director of Quality Assurance at
Blackbaud

Held multiple positions in QA

Main Areas of Focus:

- Code quality
- Reducing technical debt
- Insisting on unit testing and code reviews
- Building QA regression automation

blackbaudTM
your passion > our purpose

Andrea Williams

Credentials:

Senior Director of Engineering at
PeopleMatter

Started as a software engineer for
IBM, American Software, Cambar
Software and Benefitfocus

Passionate about software quality and
the user experience



David Elam

Credentials:

Applications Manager, Senior Software Engineer at Pay Near Me

20 year veteran in the software industry

Previously- Senior Software Architect for HGTV and the Food Network

Specialties: Ruby on Rails, JavaScript, AngularJS, Java

Passionate for front-end UI and mobile application development



And your moderator...

Chad Cravens

- Founder of Open Source Systems
- CODEcamp Technical Director and Advisory Board Member
- Jack of all trades and master of many





How the customer explained it



How the Project Leader understood it



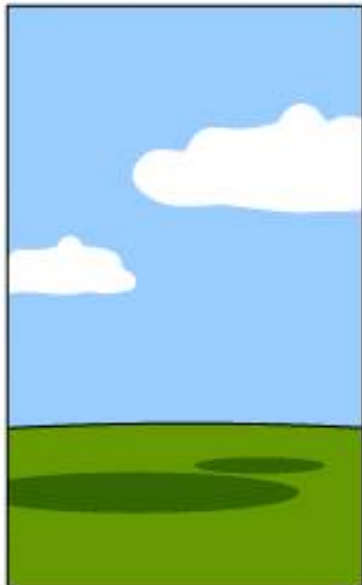
How the Analyst designed it



How the Programmer wrote it



How the Business Consultant described it



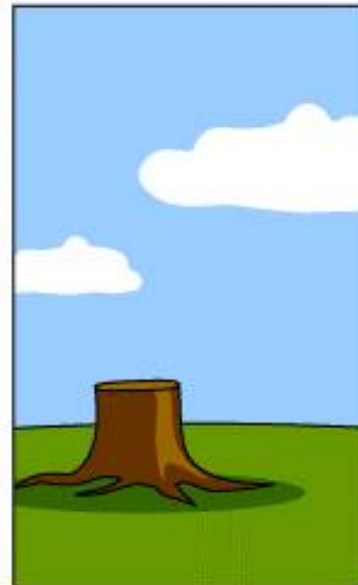
How the project was documented



What operations installed



How the customer was billed



How it was supported



What the customer really needed

Today's Discussions:

- **What is code testing?**
- **Why do we test code?**
- **What are the different types of tests?**

Q&A Talking Points

Software quality:

**“Good” vs. “Bad” Software
What is the difference???**



Q&A Talking Points

How do we test software?

- **Unit Tests (xUnit suites)**
- **Integration tests- automation**
- **Functional tests**
- **Smoke tests**
- **Security tests**

Q&A Talking Points

**Software quality metrics:
How do we quantify quality?**

What is "Technical Debt"?

What is Test-Drive Development? Is this something I should do and does it help prevent software faults?



Q&A Talking Points

“Not all bugs are worth fixing”

How many bugs should you fix and how do you make that decision?

Q&A Talking Points

**Automation of build verification-
Jenkins/Travis CI**

Q&A Talking Points

Code coverage:

How important is it?

Q&A Talking Points

Code quality:

SonarQube

Questions from the Audience