The ‘Agile Movement’

An introduction to agile software development
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An introduction to agile software development

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&

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Agenda

Who are we?

Waterfall vs Agile
The Agile lifecycle

The Agile team
Agile meetings & events

Become more Agile today!
Who are we?
British Sky Broadcasting

- Provide TV, Phone, Broadband, Mobile Apps and IPTV
- Over 11 million customers
- Agile development using Java, PHP, Ruby, Objective C & Python
Product and Offer Management

Product catalogue service within Sky’s Sales platform

- Rest API using **Flask**
- Testing with **Nose**, **Freshen**, **Coverage** & **Pylint**
- **Paver** for build, test and deployment scripting
Waterfall vs Agile
Waterfall vs Agile

Waterfall: FIXED Requirements, Resources, Time

Agile: ESTIMATED Resources, Time, Requirements
Waterfall vs Agile

Waterfall

Agile

features delivered

risk of failure
Waterfall vs Agile

Analysis → Design → Implementation → Testing → Maintenance
The Agile Lifecycle

Sprint

Entire project broken down into tasks, known as ‘story cards’

Plan which story cards can be delivered this sprint

Write Code

Write Tests

Card Passes Acceptance Criteria

Quality Assurance

“Defuzz”

Story Card Lifecycle

ITERATIVE - QUALITY
Agile comes in many flavours
“We are uncovering better ways of developing software by doing it and helping others do it. Through this work we have come to value:

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

That is, while there is value in the items on the right, we value the items on the left more”

- 2001 Agile Manifesto
Our Agile Team
Our Agile Team

- Scrum Master
- Analyst
- Quality Assurance
- Developers
Quality Assurance

- Scrum Master
- Analyst
- Developers
- Quality Assurance
The Agile Lifecycle
The Scrum Board

COMMUNICATION - COLLABORATION

Thursday, 4 July 13
The Scrum Board

http://www.trello.com
## An Agile Month

**August 2013**

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### Sprint 1

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Planning Games

ACCURATE EFFORT APPROXIMATION

Argument ensues...
Developing within an Agile team

- Development starts with a ‘Defuzz’
- Test Driven Development
- Pair Programming (XP)
Testing within an agile team

Test driven development

Nose and unittest
Nose extends unittest: a unit testing framework in the Python standard library

Behaviour driven development

Freshen
Cucumber clone for Python
Also see our EuroPython 2012 presentation “BDD testing in Agile Development at BSkyB”

Deployment scripting

Paver
Build & deployment scripting tool

RELIABILITY - QUALITY - AUTOMATION
Showcases
Retrospectives

WHAT WENT WRONG

WHAT WENT RIGHT

WHAT WE COULD IMPROVE

REVIEW - IMPROVE
DEMO
Become more Agile today!
Set up an online scrum board

Break down your workload into tasks
And adopt an Agile Lifecycle...

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**Sprint 1**

- Planning Game
- Showcase
- Release
- Retrospective

**Sprint 2**

- Planning Game
- Showcase
- Release
- Retrospective

**Release** often

**Receive** frequent feedback

**React** to feedback quickly and efficiently

... Leading to **quality software, happier clients and a happier development team**!