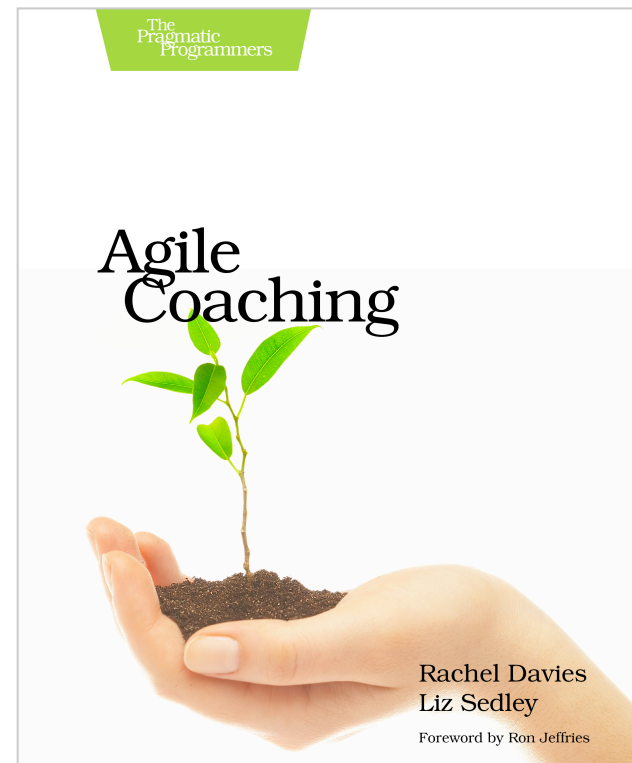


Non-Functional Requirements: Do user stories really help?

Rachel Davies
rachel@agilexp.com



My background

Past jobs:

Software Engineer, Sys Admin,
Systems Designer, Development
Manager

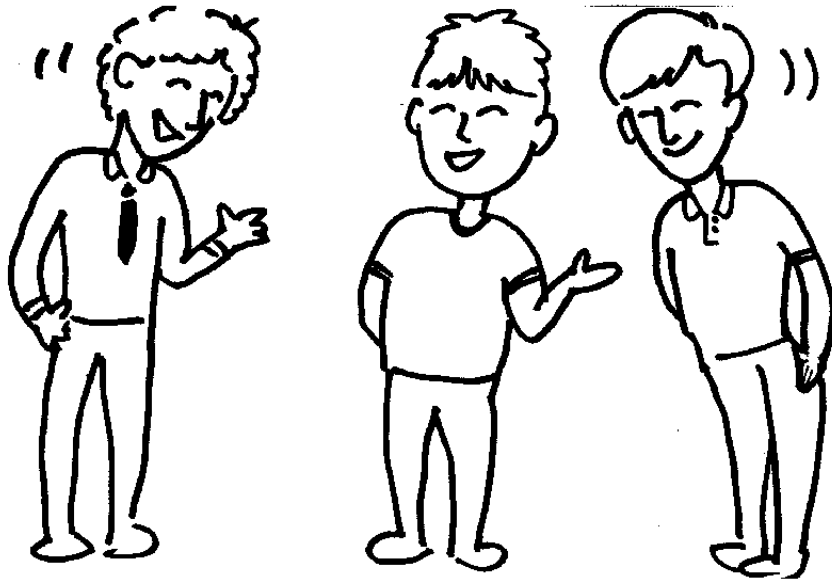
Current jobs:

- Agile Coach, Agile Alliance Director,
Book Author, Conference Organizer



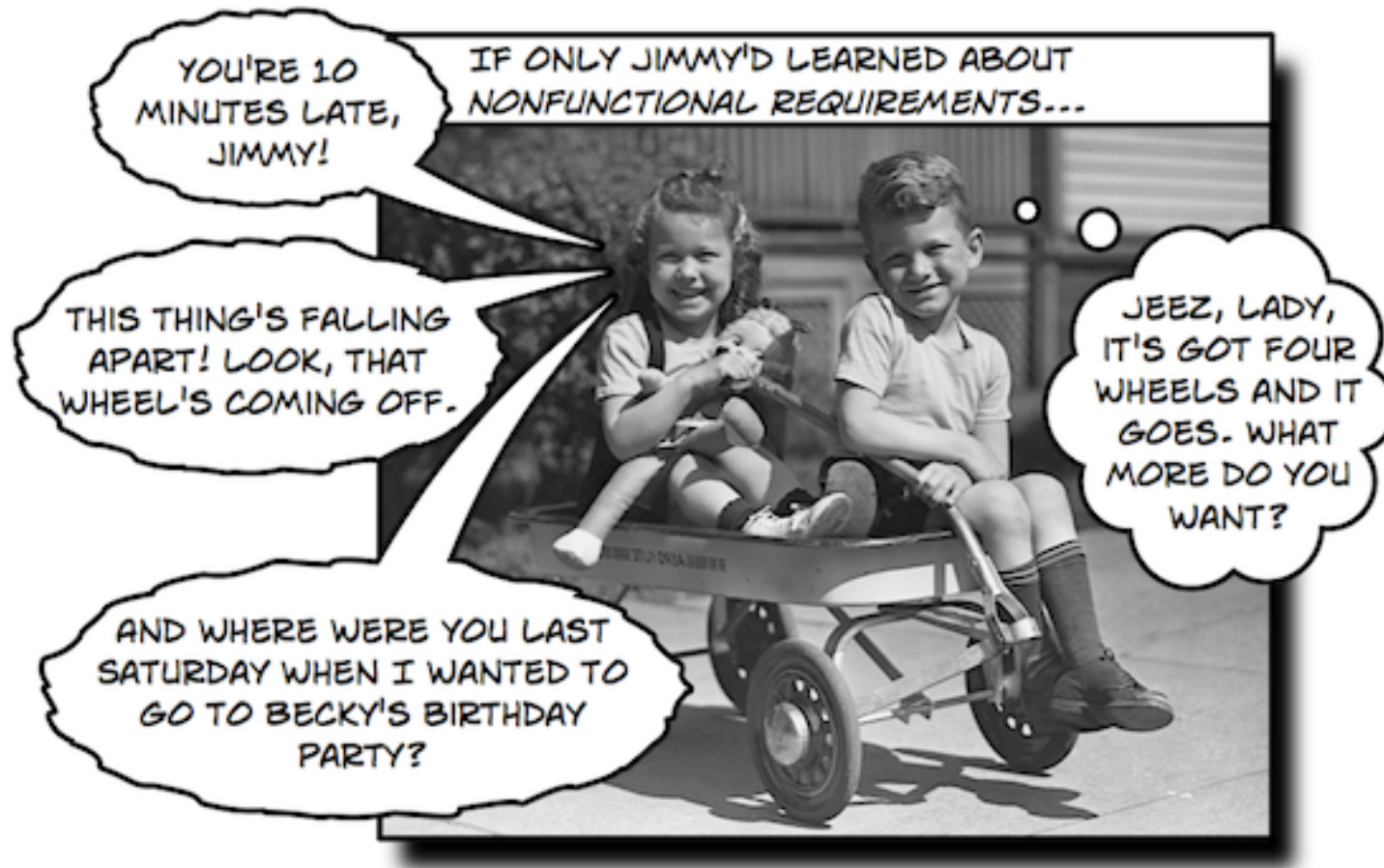
Who's Here?

- Raise your hand if ...



- new to agile?
- used agile?



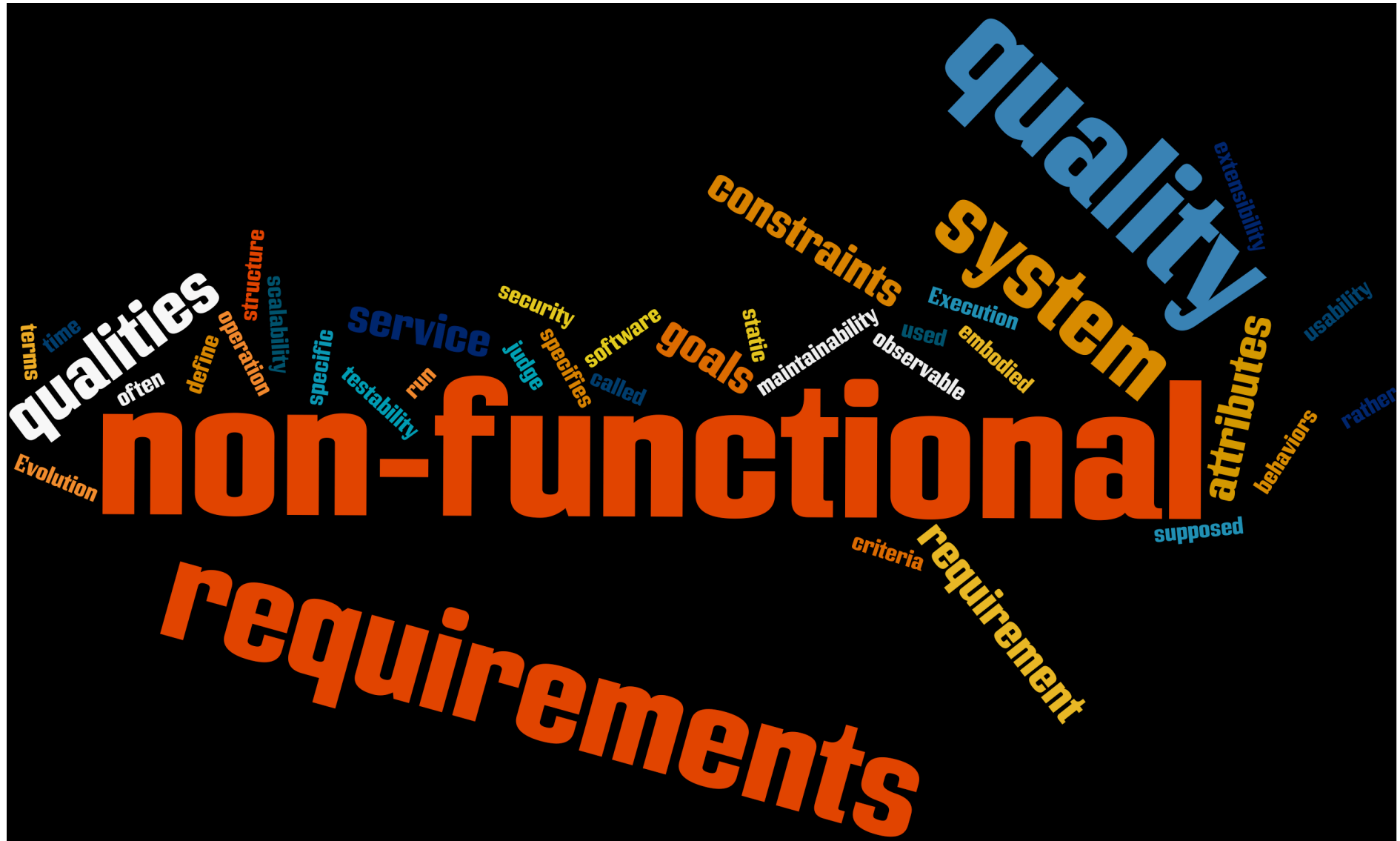


HOW not WHAT

Photo from Andrew Stellman's blog



Lots of terms



Requirements in Disguise



Agile Manifesto

Shared values
and principles
for better
ways to develop
software
(2001)

www.agilemanifesto.org



Agile Values

Individuals & Interactions over Processes & Tools

Working software over Comprehensive documentation

Customer collaboration over Contract negotiation

Responding to change over Following a plan

While there is value in the items on
the right,
we value the items on the left more.



Agile Manifesto Principles (1)

- Our highest priority is to **satisfy the Customer** through early and continuous delivery of valuable software
- **Welcome changing requirements**, even late in development. Agile processes harness change for the customer's competitive advantage.
- **Deliver working software frequently**, from a couple of weeks to a couple of months, with a preference to the shorter timescale.
- Business people and developers must **work together** daily throughout the project.



Agile Manifesto Principles (2)

- Build projects around **motivated individuals**.
Give them the environment and support they need, and trust them to get the job done
- The most efficient and effective method of conveying information to and within a development team is **face-to-face conversation**.
- **Working software** is the primary measure of progress
- Agile processes promote **sustainable development**.
The sponsors, developers, and users should be able to maintain a constant pace indefinitely.



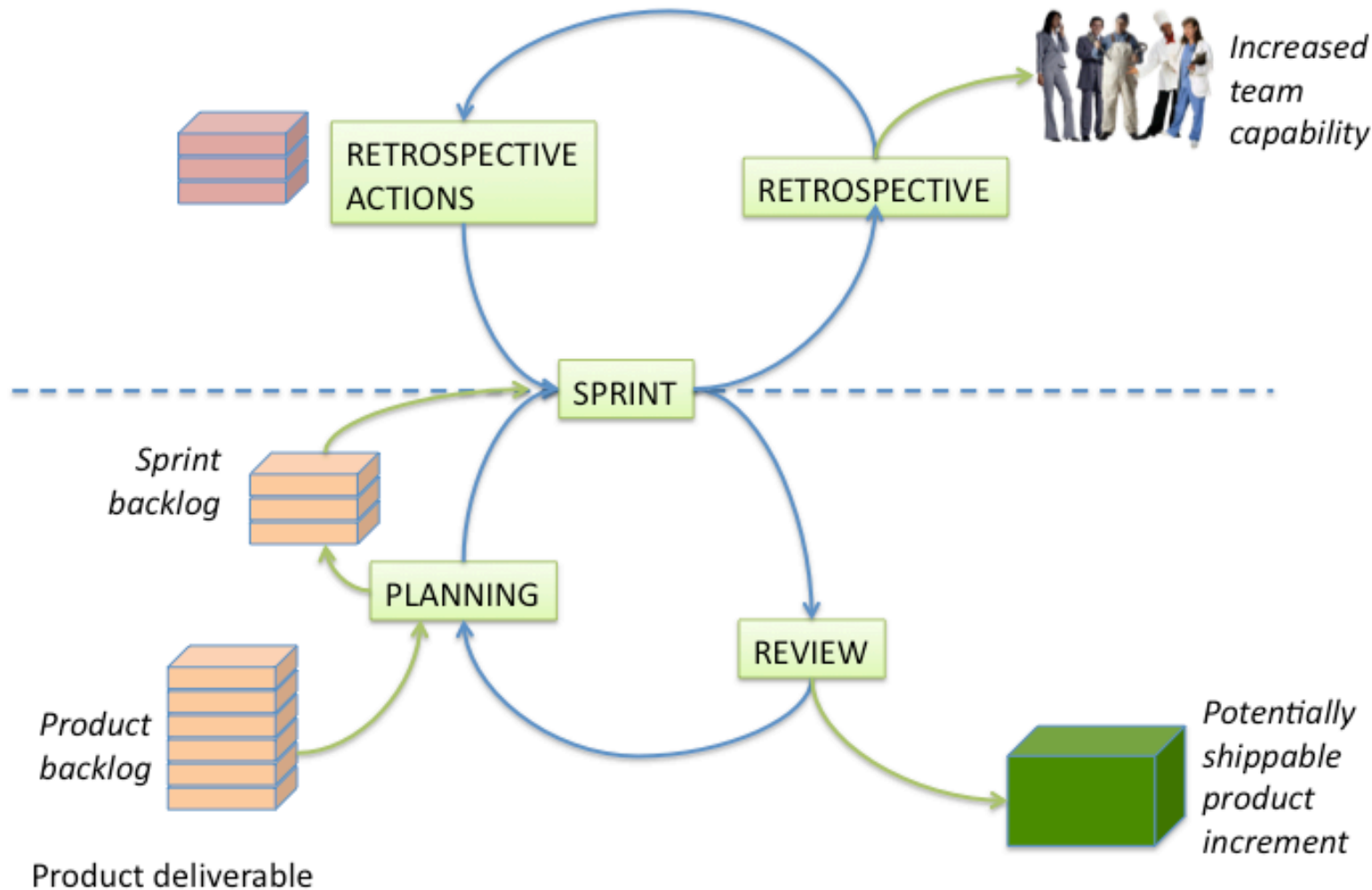
Agile Manifesto Principles (3)

- Continuous attention to **technical excellence** and good design enhances agility The most efficient and effective method of conveying information to and within a development team is **face-to-face conversation**.
- **Simplicity**--the art of maximizing the amount of work not done--is essential.
- The best architectures, requirements, and designs emerge from **self-organizing teams**
- At regular intervals, the team **reflects** on how to become more effective, then tunes and adjusts its behavior accordingly

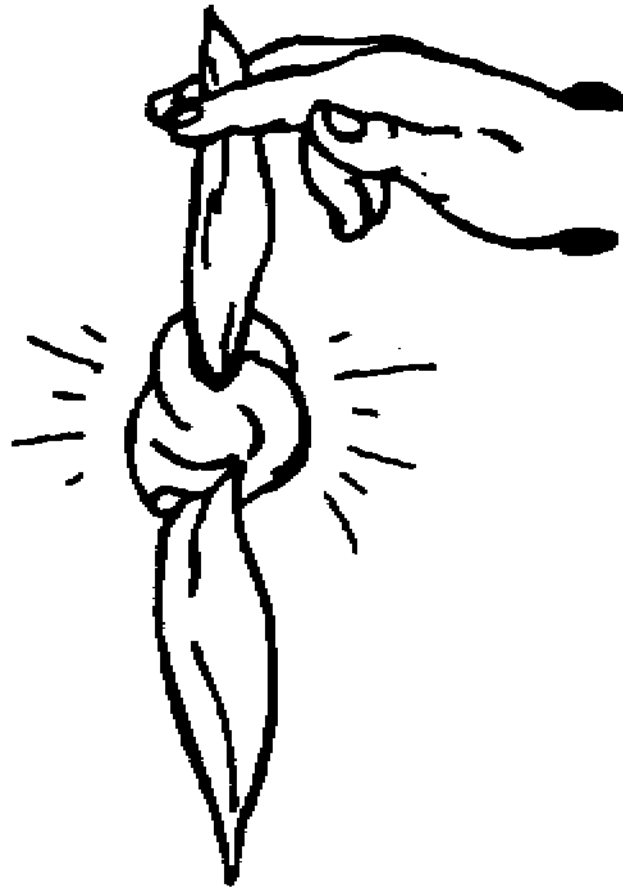


Agile Lifecycle

Capability deliverable



How does an Agile team
remember them?



Is there a new Agile
practice?



Whole Team



Business people and developers must **work together** daily throughout the project.



Talk about the lifetime of the software



YAGNI

Mantra from XP - "You aren't gonna need it"

-- Ron Jeffries

- Developing for future NFRs slows us down!
Keep options open
- Now vs Later trade-off
- When is "Last Responsible Moment"?
- Educate the customer about the choice being made
- Can use Risk impact to prioritize NFR work.



The Customer / Product Owner

- Don't rely on the Customer to tell you about non-functional requirements!
- Include technical stakeholders in prioritization meetings.
- Make sure you have people with ops experience in planning meetings



The Team

- Agile relies on cross-functional teams with relevant skills to deliver/maintain
- Include sys admin experience on team
- Share the knowledge (by pairing)



User Stories

- User stories explain what the software needs to do from a user perspective.
- Knowing who the user is and what problems they are trying to solve helps us develop better software.



Three Cs to a user story

Card: user goal written on an index card

Conversation: team gets to ask questions

Confirmation: acceptance criteria

Ron Jeffries, Xprogramming.com



Planning with User Stories



The cards aren't mini-requirements specs!



Card format?

As who, I want
what so that why.

As persona, I want
goal, so that value.

<http://thesherpaproject.com>

Can describe NFRs like this but is it worth it?



BBC Example story cards

As an operations engineer, I want to be able to reconfigure the timeout of a specific service request without needing to restart the backend service process

Examples from
Kerry Jones, BBC

Notice they are not
"As a system"!

As an operations engineer, I want to know how many people are currently watching Eastenders on iPlayer



Titles + Tests

Keep it simple:

- Story Title on the front of the card
- Acceptance Criteria on the back of the card
- NFRs are listed as Acceptance Criteria



Definition of Done

Agree a "Definition of Done" with team

May need per story checks

Also per release checks - especially if some kinds of testing is expensive



Class of Service

Clean code not a
customer choice

Agree quotas of
different types of
work like a "quality
tax"

Use different color
cards

Eg, Yellow cards for
operational stuff, Blue
for technical debt/
spikes



Questions?



Thanks to:

- Simon Baker
- Jason Gorman
- Kerry Jones
- Duncan McGregor
- Ivan Moore
- Dave Nicolette
- Duncan Pierce
- Gus Power

For sharing their experiences.



Thank you

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Agile Infrastructure

Team takes
responsibility for
work on
infrastructure and
apply Agile
techniques

- Visible
- Testable
- Automated, etc

