



Agenda

- Overview of Scrum
- Product backlogs
- Sprints and sprint backlog
- Tracking progress
- Scrum meetings



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The Agile Manifesto

Individuals and interactions

over

Process and tools

Working software

over

Comprehensive documentation

Customer collaboration

over

Contract negotiation

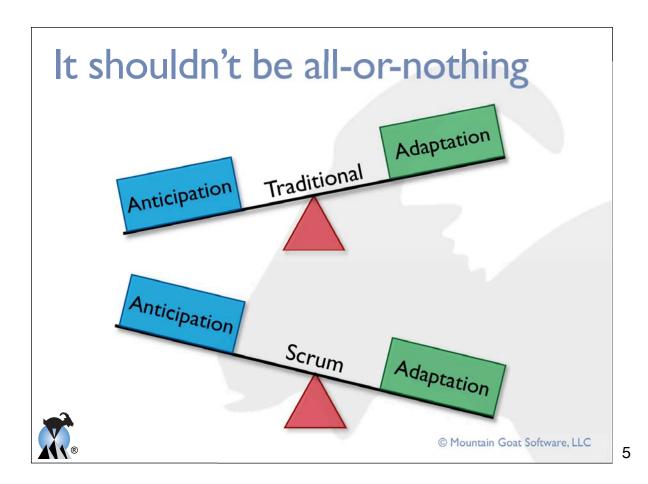
Responding to change

over

Following a plan



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We're losing the relay race

"The... 'relay race' approach to product development...may conflict with the goals of maximum speed and flexibility. Instead a holistic or 'rugby' approach—where a team tries to go the distance as a unit, passing the ball back and forth—may better serve today's competitive requirements."

Hirotaka Takeuchi and Ikujiro Nonaka, "The New New Product Development Game", Harvard Business Review, January 1986.



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Scrum roles and responsibilities



- · Defines the features of the product, decides on release date and content
- Is responsible for the profitability of the product (ROI)

Product

- · Prioritizes features according to market value
- · Can change features and priority every sprint

Owner

Accepts or rejects work results



- Ensures that the team is fully functional and productive
- Enables close cooperation across all roles and functions and removes

Scrum Master

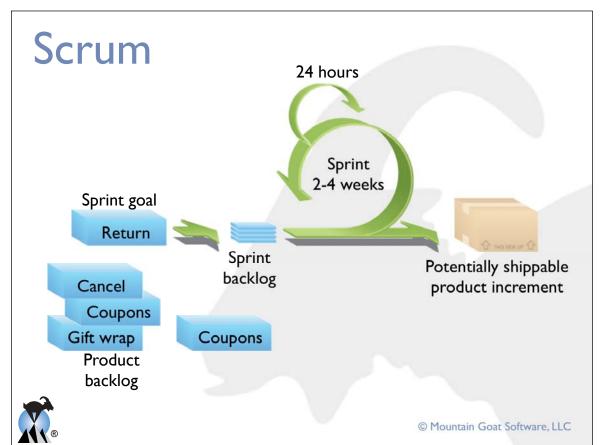
- Shields the team from external interferences
- Ensures that the process is followed. Participates in daily scrum, sprint review and planning meetings



- · Cross-functional, seven plus/minus two members
- Selects the sprint backlog
- Has the right to do everything within the boundaries of the project guidelines to reach the iteration goal
- · Organizes itself and its work
- · Demos work results to the Product Owner

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Scrum

- Is results-oriented
- Is commitment-driven
- Is value-focused
- Empowers and respects teams



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Product backlog

- The requirements
- A list of all desired work on the project
- Ideally expressed such that each item has value to the users or customers of the product
- Prioritized by the product owner
- Reprioritized at the start of each sprint

This is the product backlog

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A sample product backlog

Backlog item	Estimate
Allow a guest to make a reservation	3
As a guest, I want to cancel a reservation.	5
As a guest, I want to change the dates of a reservation.	3
As a hotel employee, I can a run RevPAR (Revenue-Per-Available-Room) report	8
Improve exception handling	8
•••	30
	50

User stories as backlog items

Card

- Stories are traditionally written on note cards.
- May be annotated with notes, estimates, etc.

Conversation

 Details behind the story come out during conversations with product owner

Confirmation

 Acceptance tests confirm the story was coded correctly



Source: XP Magazine 8/30/01, Ron Jeffries.

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Samples from a travel website

As a user, I want to reserve a hotel room.

As a vacationer, I want to see photos of the hotels.

As a frequent flyer, I want to rebook a past trip, so that I save time booking trips I take often.

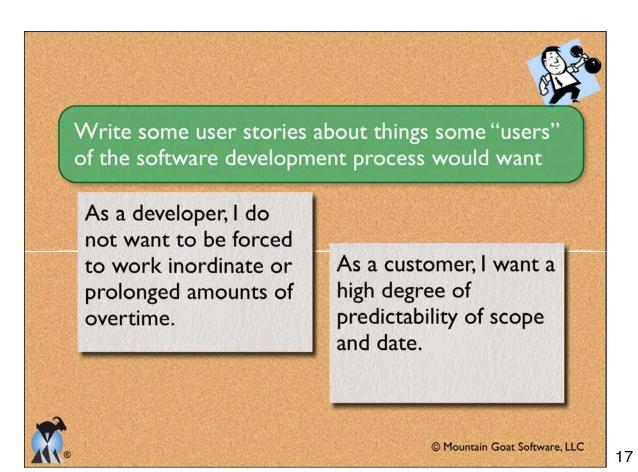
Use this template:

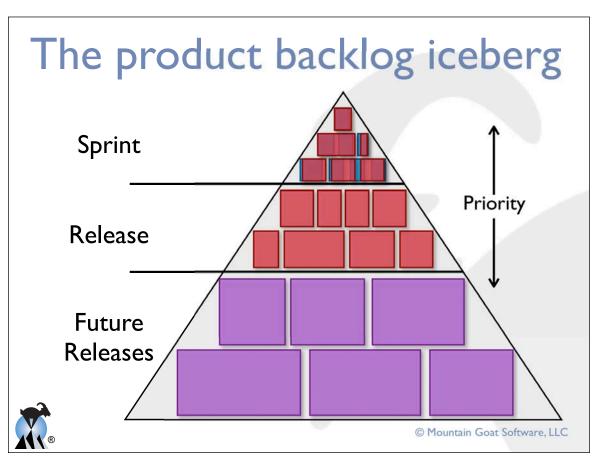
As a <type of user>,
I want <some goal>
so that <some reason>.

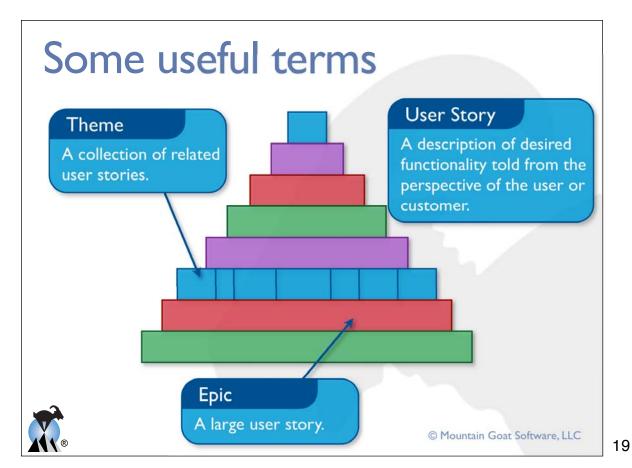


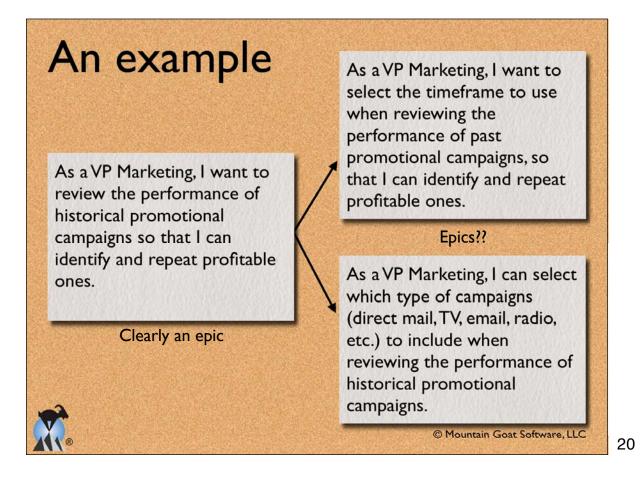
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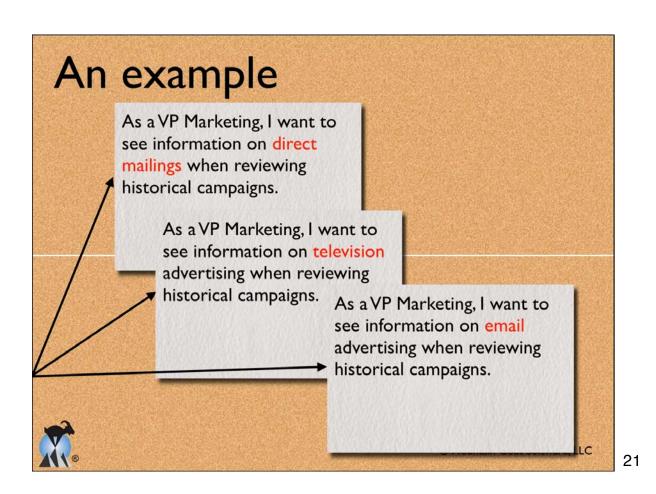
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A sprint backlog

Tasks	Mon	Tues	Wed	Thur	Fri
Code the user interface	8	4	8		
Code the middle tier	16	12	10	4	
Test the middle tier	8	16	16	- 11	8
Write online help	12				
Write the foo class	8	8	8	8	8
Add error logging			8	4	



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Potentially shippable product increment

- At the end of each sprint, the team must produce a potentially shippable product increment
 - High quality, tested, complete, done, what it does it does well
- Potentially shippable ≠ shippable
- Product increment may not be cohesive
 - Print preview but no print



Always deliver

- You must have a potentially shippable product increment at the end of each sprint
- Do not miss the end of the sprint
 - The deadline is sacred
 - Functionality may vary





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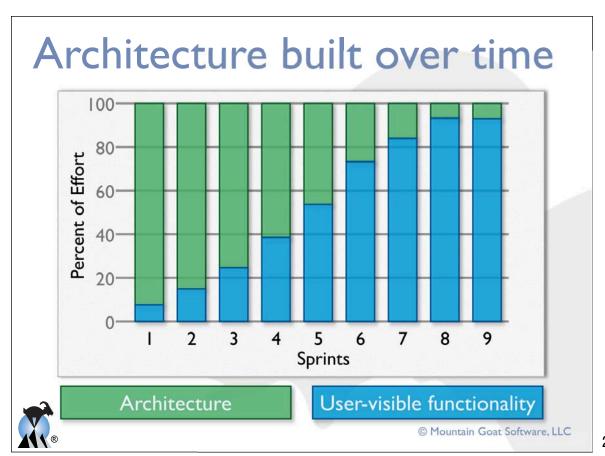
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Sprints



- Is there such a thing as an "analysis sprint" where requirements are pulled together?
- Is there such a thing as a "testing sprint"?
- What is a "stabilization sprint" and what should be done with it?







No changes during a sprint

 What the team commits to—and what the product owner agrees to—during sprint planning should be what is delivered

However, keep in mind that...

- We start with vague requirements
- Our understanding of those requirements is refined during the sprint



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Abnormal terminations

- If change cannot be kept out of a sprint...
 - The sprint may be abnormally terminated
- An extreme circumstance, not done very often
- Raises visibility of priority changes





Deciding to abnormally terminate

- Team can abnormally terminate if...
 - They feel they cannot meet the sprint goal
- Management can abnormally terminate if...
 - Business priorities change

After abnormally terminating...

- All work from the current sprint is undone
- Code reverts to where it was at the end of the prior sprint
- Next step is to plan a new sprint



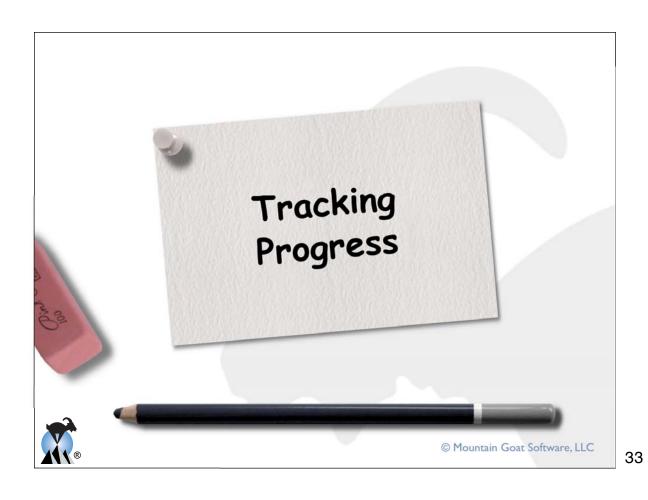
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Release sprints

- Always target a potentially-shippable product increment
- But, some polishing can occur in a release sprint
 - Mean Time Between Failure (MTBF) testing
 - Some stress, performance or usability testing
 - Compliance
 - Documentation touchups (final screen shots)



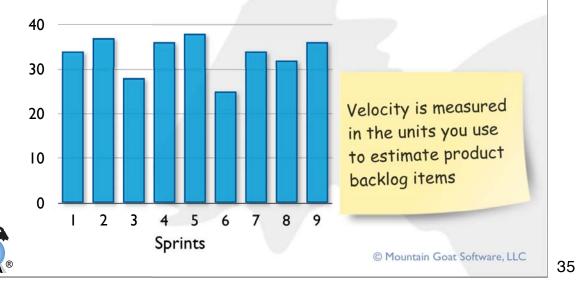


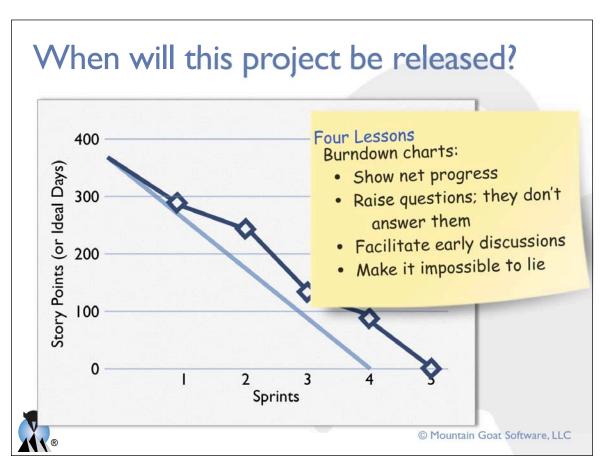
A product backlog

Points	Done
5	✓
5	✓
3	
5	
8	
5	
13	
	5 3 5 8

Velocity

 A useful long-term measure of the amount of work completed per sprint







Knowing more precisely where we are at the end of sprint is very powerful.

?

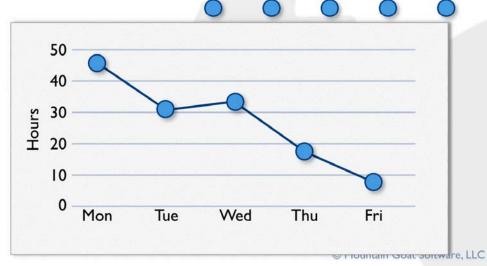
What would be the impact in your organization of knowing how the project is going each sprint?

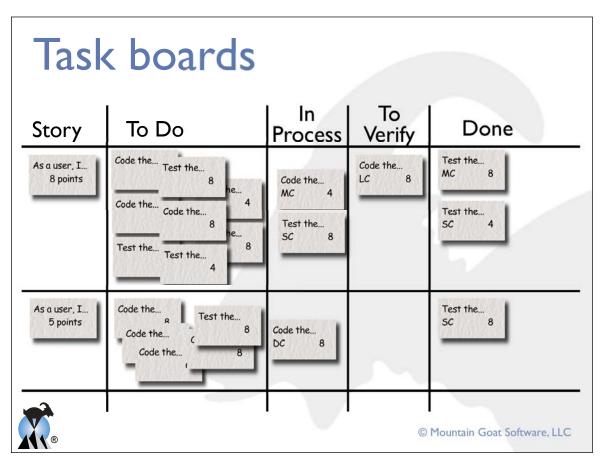


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Tasks	Mon	Tues	Wed	Thur	Fri
Code the user interface	8	4	8		
Code the middle tier	16	12	10	7	
Test the middle tier	8	16	16	11	8
Write online help	12				





A sample task board





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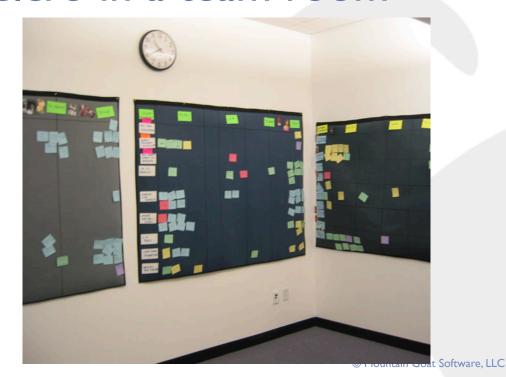


A cork task board



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Velcro in a team room



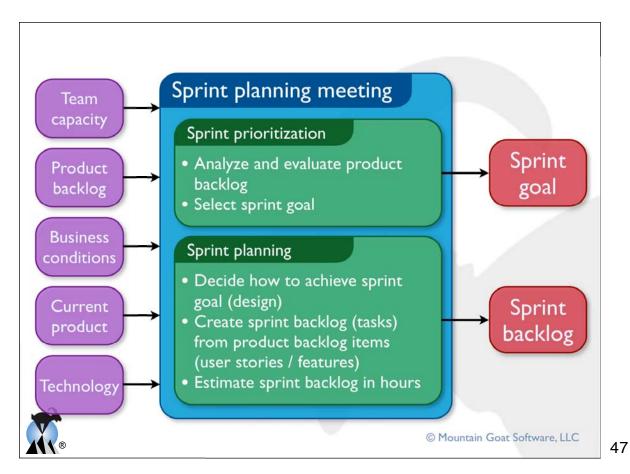


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Scrum meetings

Sprint Review Meeting
Sprint Retrospective
Sprint Planning Meeting
Sprint Planning Meeting
Sprint Planning Meeting



Sprint planning

- Team selects items from the product backlog they can commit to completing
- Sprint backlog is created
 - Tasks are identified and each is estimated (1-16 hours)
 - Collaboratively, not done alone by the ScrumMaster
- High-level design is considered

As a vacation planner, I want to see photos of the hotels.

Code the middle tier (8 hours)
Code the user interface (4)
Write test fixtures (4)
Code the foo class (6)
Update performance tests (4)

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The daily scrum

- Parameters
 - Daily
 - 15-minutes
 - Stand-up
- Not for problem solving
 - Whole world is invited
 - Only team members, ScrumMaster, product owner, can talk
- **1** 8

Helps avoid other unnecessary meetings

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CHICKENS

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Everyone answers 3 questions

- 1.What did you do yesterday?
- 2.What will you do today?
- 3. What, if anything, is in your way?
- These are not status for the ScrumMaster
 - They are commitments in front of peers





The sprint review

- Team presents what it accomplished during the sprint
- Typically takes the form of a demo of new features or underlying architecture
- Informal
 - No slides
 - 2-hour prep time guideline
- Whole team participates
- Invite the world







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Sprint retrospective

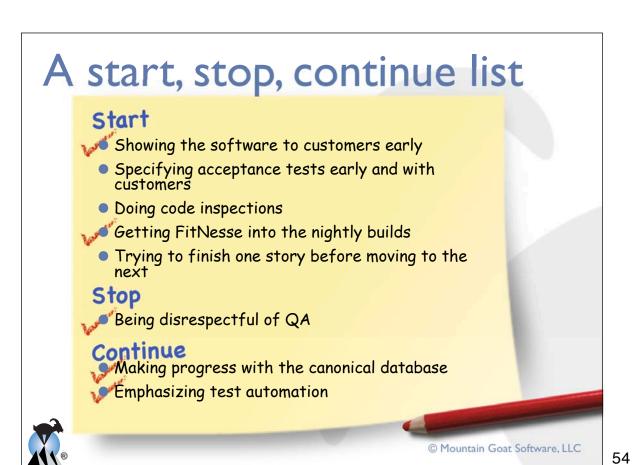
- Periodically take a look at what is and is not working
- Typically 15–30 minutes
- Done after every sprint
- Whole team participates
 - ScrumMaster
 - Product owner
 - Team
 - Possibly customers and others

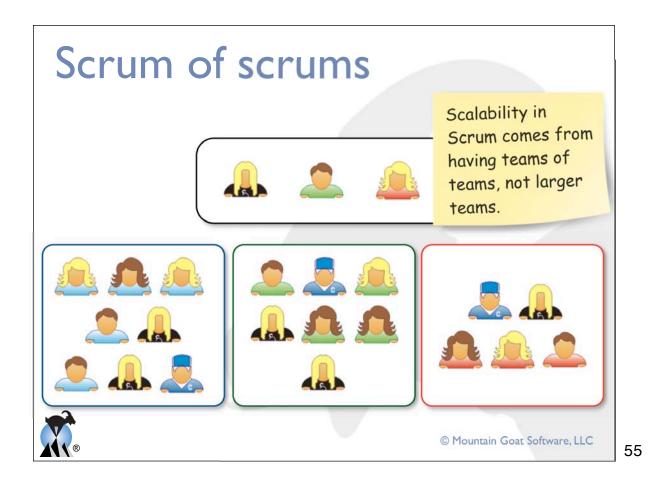


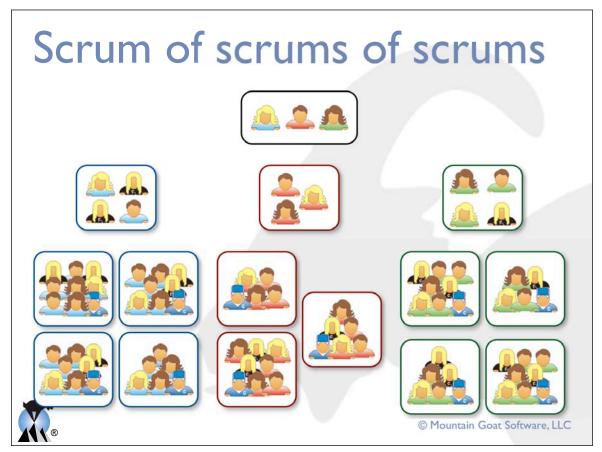
Start / Stop / Continue

 Whole team gathers and discusses what they'd like to:









Is Scrum right for you?

Yes, probably. But...

- Remember that Scrum requires empowered teams
 - Can you allow the team the freedom to self organize?
- Do your teams have the discipline to be agile or do they equate agile to lazy?
- Will you have the courage and stamina to resolve the issues that Scrum surfaces?
 - The problems were always there, but now they're more visible
- Remember, Scrum is an approach, not a list of rules



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Upcoming public classes

Date	What	Where
Feb I-2 Feb 3-4	Certified ScrumMaster Certified Scrum Product Owner	Dallas
March I March 2–3 March 4	User Stories for Agile Requirements Certified ScrumMaster Agile Estimating & Planning	Boulder
April 12 April 13–14 April 15	User Stories for Agile Requirements Certified ScrumMaster Succeeding with Scrum (new!)	San Diego

See mountaingoatsoftware.com for details



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