

User Stories

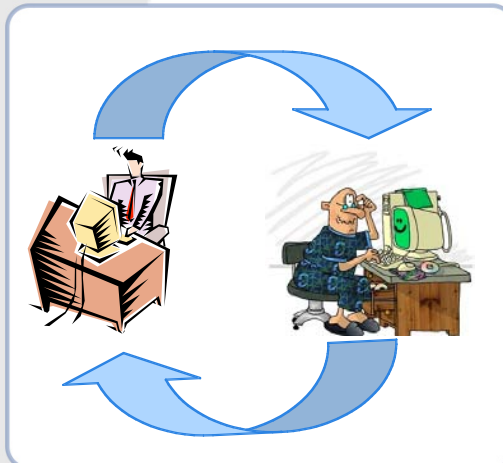
Mike Cohn

19 June 2009

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What problem do stories address?

- Software requirements is a communication problem
- Those who want the software must communicate with those who will build it



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Balance is critical

- If either side dominates, the business loses
- If the business side dominates...
 - ...functionality and dates are mandated with little regard for reality or whether the developers understand the requirements
- If the developers dominate...
 - ...technical jargon replaces the language of the business and developers lose the opportunity to learn from listening



Resource allocation

- We need a way of working together so that resource allocation becomes a shared problem
- Project fails when the problem of resource allocation falls too far to one side



Responsibility for resource allocation

If developers shoulder the responsibility...

- May trade quality for additional features
- May only partially implement a feature
- May solely make decisions that should involve the business side

If the business shoulders the responsibility...

- Lengthy upfront requirements negotiation and signoff
- Features are progressively dropped as the deadline nears



Imperfect schedules

- We cannot perfectly predict a software schedule
 - As users see the software, they come up with new ideas
 - Too many intangibles
 - Developers have a notoriously hard time estimating
- If we can't perfectly predict a schedule, we can't perfectly say what will be delivered



So what do we do?

We make decisions based on the information we have

...but do it often

Rather than making one all-encompassing set of decisions

...we spread decision-making across the project

This is where user stories come in



What Stories Are



Ron Jeffries' Three Cs

Card

- Stories are traditionally written on note cards.
- Cards may be annotated with estimates, notes, 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 user, I want to cancel a reservation.

As a vacation planner, 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.



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Where are the details?

- As a user, I can cancel a reservation.
 - Does the user get a full or partial refund?
 - Is the refund to her credit card or is it site credit?
 - How far ahead must the reservation be cancelled?
 - Is that the same for all hotels?
 - For all site visitors? Can frequent travelers cancel later?
 - Is a confirmation provided to the user?
 - How?



Details as conditions of satisfaction

- The product owner's conditions of satisfaction can be added to a story
 - These are essentially tests

As a user, I can cancel a reservation.

- Verify that a premium member can cancel the same day without a fee.
- Verify that a non-premium member is charged 10% for a same-day cancellation.
- Verify that an email confirmation is sent.
- Verify that the hotel is notified of any cancellation.



Details added in smaller sub-stories

As a user, I can cancel a reservation.

As a premium site member, I can cancel a reservation up to the last minute

As a non-premium member, I can cancel up to 24 hours in advance.

As a site visitor, I am emailed a confirmation of any cancelled

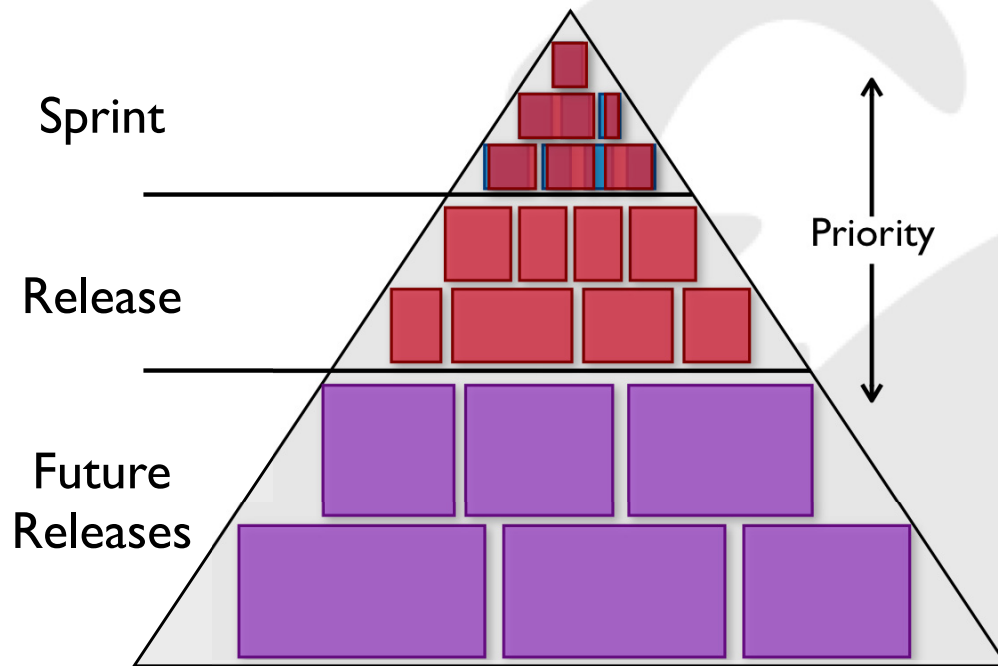


Techniques can be combined

- These approaches are not mutually exclusive
- Write stories at an appropriate level
- By the time it's implemented, each story will have conditions of satisfaction associated with it



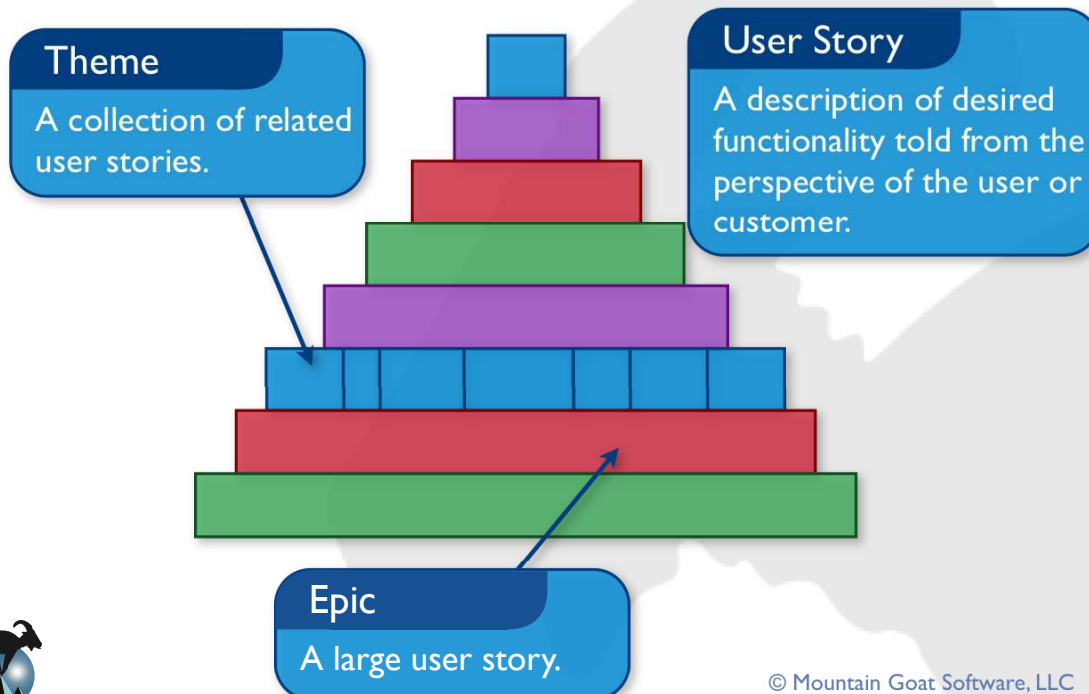
The product backlog iceberg



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Stories, themes and epics



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An example

As a VP Marketing, I want to review the performance of historical promotional campaigns so that I can identify and repeat profitable ones.

Clearly an epic

As a VP Marketing, I want to select the timeframe to use when reviewing the performance of past promotional campaigns, so that I can identify and repeat profitable ones.

Epics??

As a VP Marketing, I can select which type of campaigns (direct mail, TV, email, radio, etc.) to include when reviewing the performance of historical promotional campaigns.




An example

As a VP Marketing, I want to see information on **direct mailings** when reviewing historical campaigns.

As a VP Marketing, I want to see information on **television** advertising when reviewing historical campaigns.

As a VP Marketing, I want to see information on **email** advertising when reviewing historical campaigns.






Logging in

- See how many user stories you can write about logging in.
- Examples:
 - As a registered user, I am required to log in so that I can access the system.
 - As a forgetful user, I can request a password reminder so that I can log in if I forget mine

Use this template

“As a <type of user>, I want to <goal>, so that <reason>.”



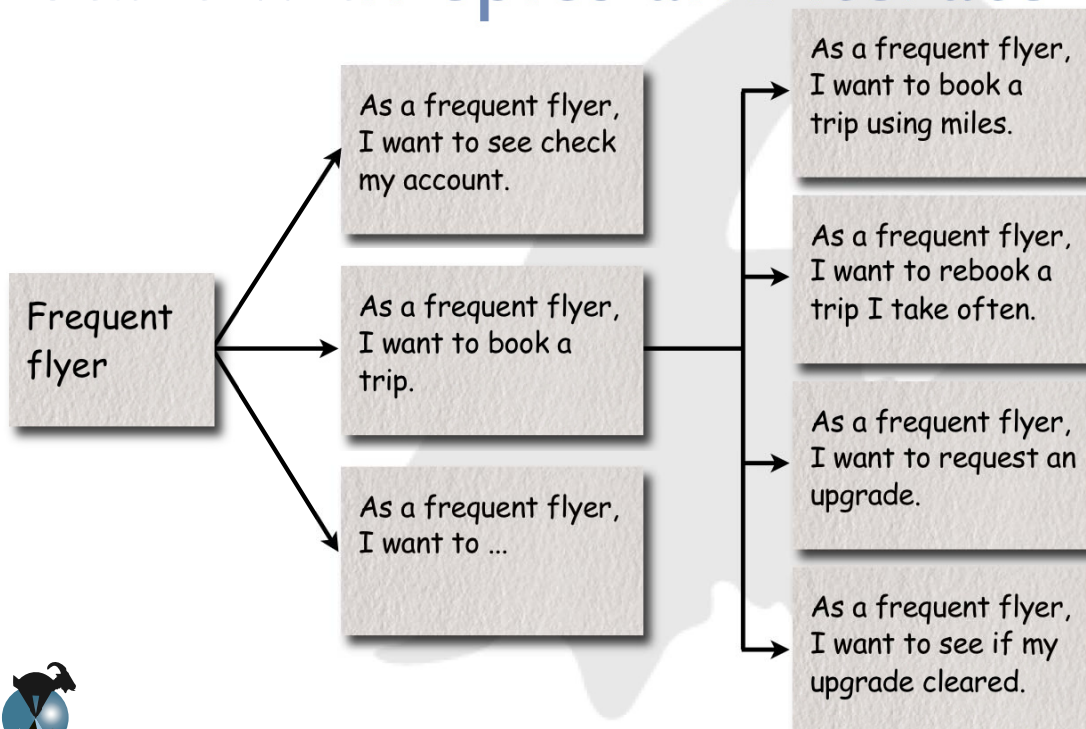
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Story-writing workshops

- Includes developers, users, customer, others
- Brainstorm to generate stories
- Goal is to write as many stories as possible
 - Some will be “implementation ready”
 - Others will be “epics”
- No prioritization at this point



Start with epics and iterate



Why User Stories

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Stories shift the focus from writing to talking.

If requirements are written down

then

~~The user will get what she wants~~

"You built what I asked for, but it's not what I need."

At best she'll get what was written

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Words are imprecise

Main dish comes with soup or salad and bread.

- (Soup or Salad) and Bread
- (Soup) or (Salad and Bread)



Examples

The user can enter a name. It can be 127 characters.

- Must the user enter a name?
- Can it be other than 127 chars?

The system should prominently display a warning message whenever the user enters invalid data.

- What does should mean?
- What does prominently display mean?
- Is invalid data defined elsewhere?



2

Stories are equally understandable by developers and customers.

3

Stories support and encourage iterative development.

4

Stories are the right size for planning.

5

Stories support participatory design.



6

Stories emphasize the user's goals not the system's attributes.

What are we building?

1. The product shall have a gas engine.
2. The product shall have four wheels.
 - 2.1. The product shall have a rubber tire mounted to each wheel.
3. The product shall have a steering wheel.
4. The product shall have a steel body.



What if we had stories instead?

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Most importantly...

Don't forget the purpose

The story text we write on cards is less important than the conversations we have.



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Upcoming classes in Oslo

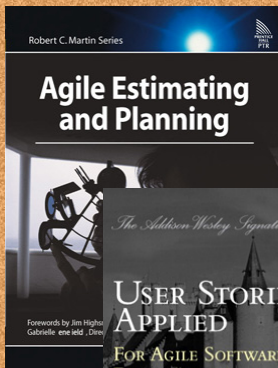
Date	What
22–23 June	Certified Scrum Product Owner
24–25 June	Certified ScrumMaster
12–14 October	Certified ScrumMaster (three-day)
15–16 October	Certified Scrum Product Owner
18–20 January	Certified ScrumMaster (three-day)
21–22 January	Certified Scrum Product Owner

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