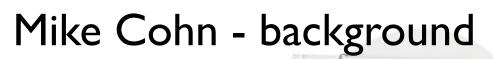
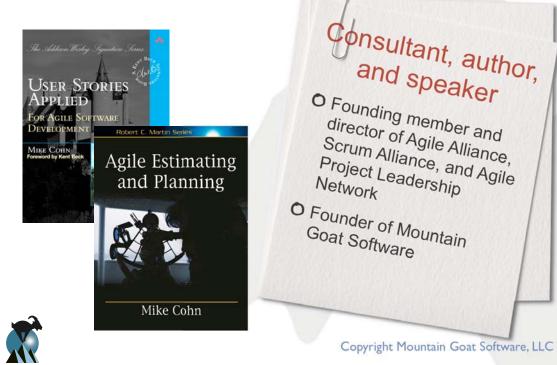
### User Stories for Agile Requirements





2

#### It's a communication problem

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

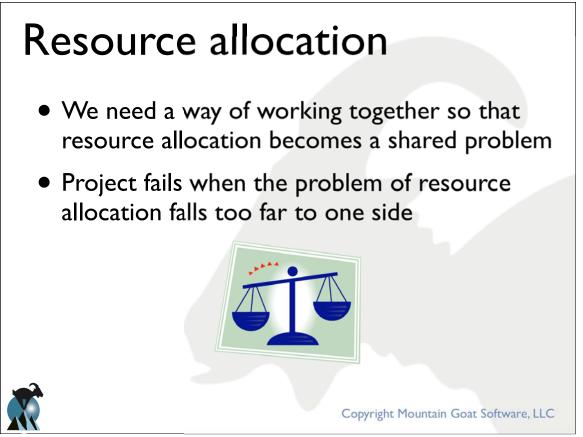


#### Balance is critical

- 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



#### Copyright Mountain Goat Software, LLC



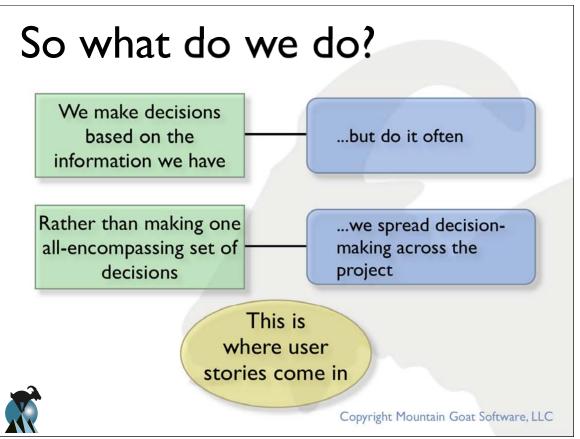
# <section-header><section-header><section-header><section-header><list-item><list-item><list-item><section-header><section-header><section-header>

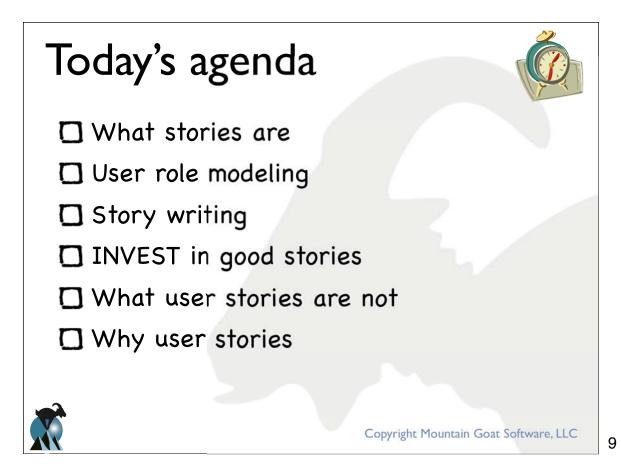
#### Imperfect schedules

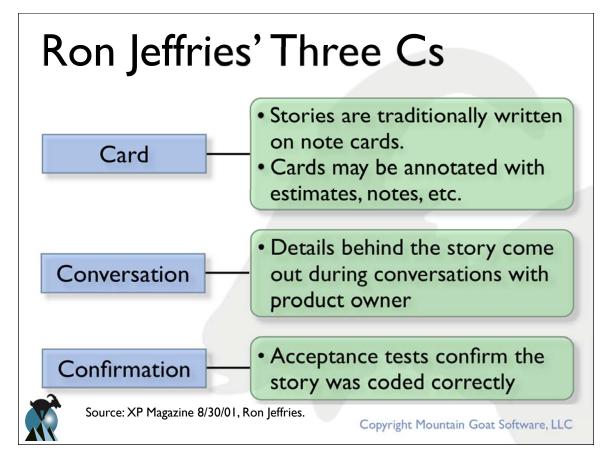
- We cannot perfectly predict a software schedule
  - As users see the software, they come up with new ideas
  - Too many intangibles
  - Developers have a notoriously hard time estimating
- If we can't perfectly predict a schedule, we can't perfectly say what will be delivered

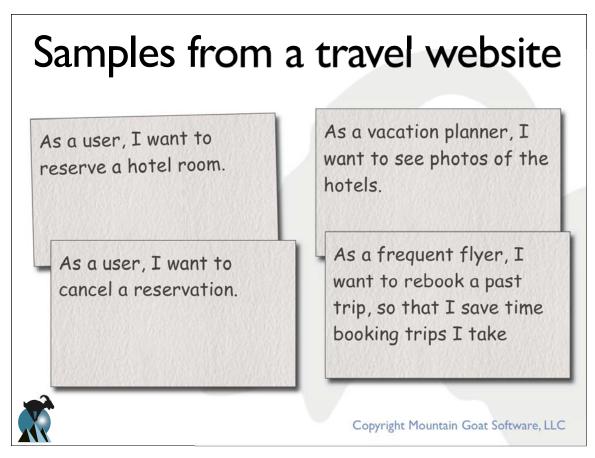


#### Copyright Mountain Goat Software, LLC



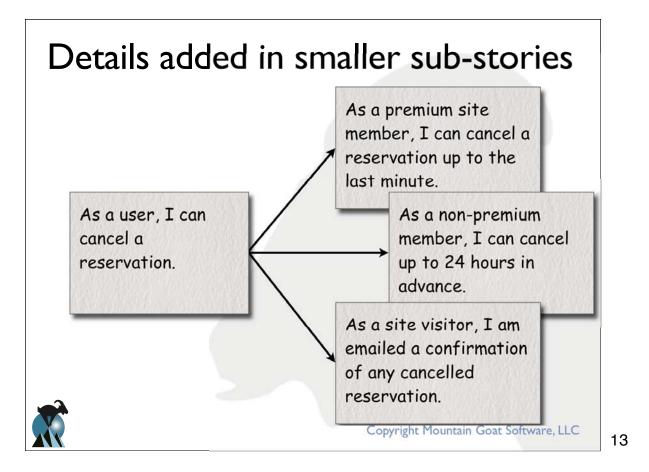


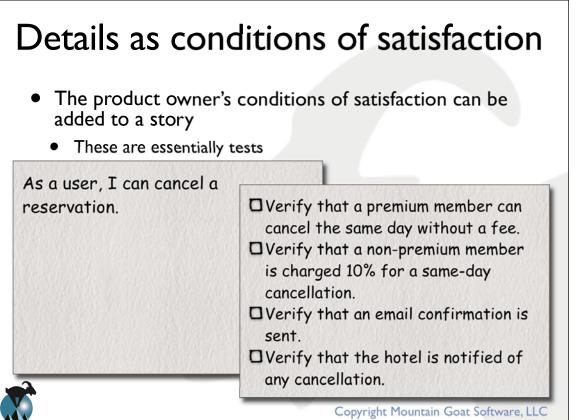


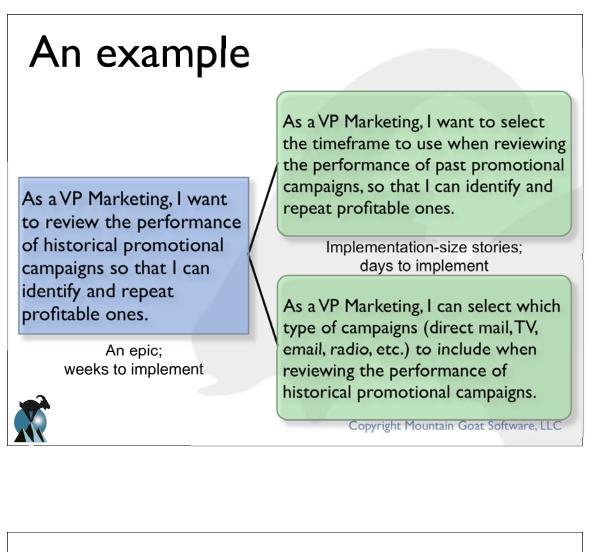


#### Where are the details?

- 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?







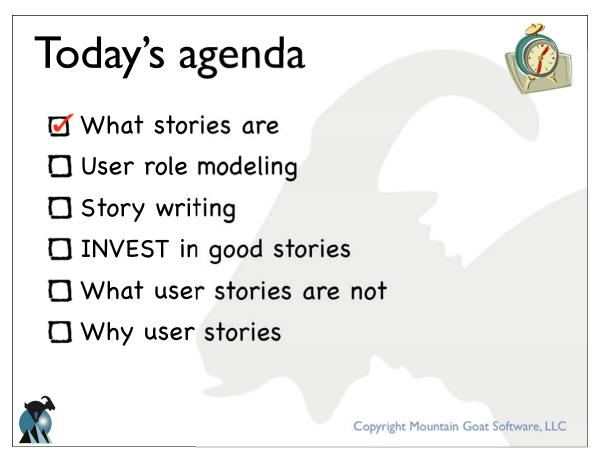
#### An example

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.

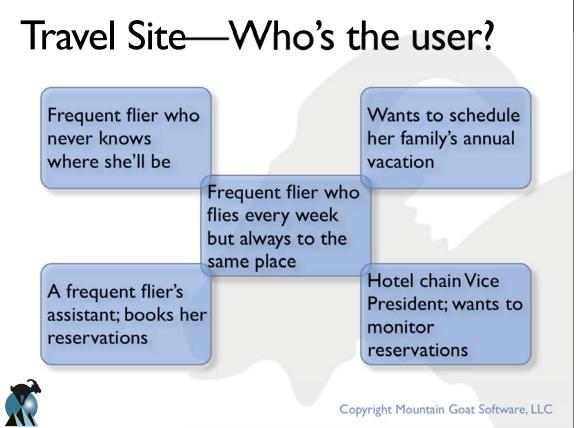




### "The User"

- Many projects mistakenly assume there's only one user:
  - "The user"
- Write all stories from one user's perspective
- Assume all users have the same goals
- Leads to missing stories



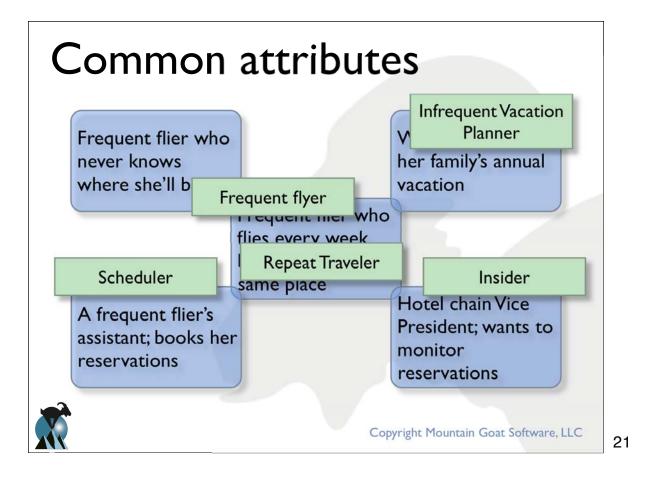


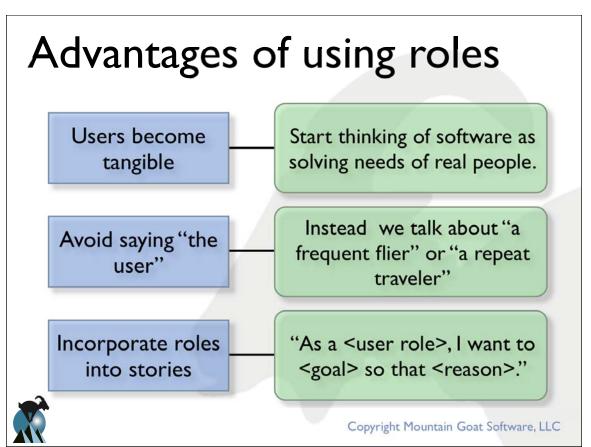
### User roles

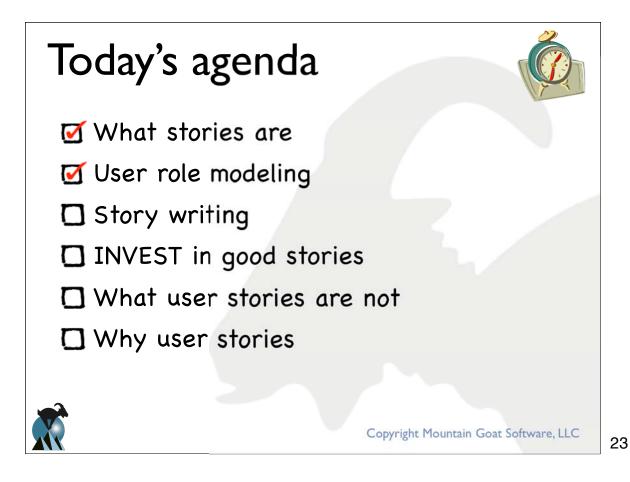
- Broaden the scope from looking at one user
- Allows users to vary by
  - What they use the software for
  - How they use the software
  - Background
  - Familiarity with the software / computers
- Used extensively in usage-centered design

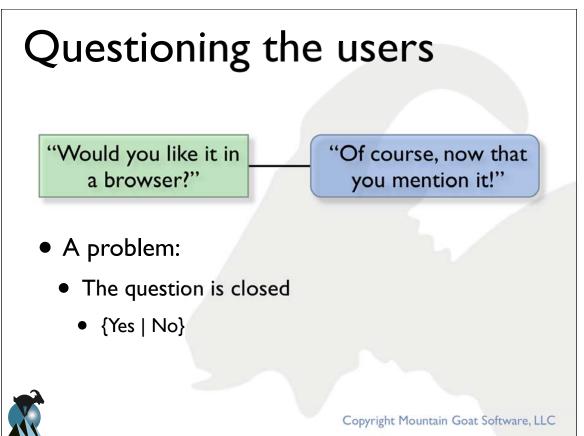


Source: Software for Use by Constantine and Lockwood (1999).





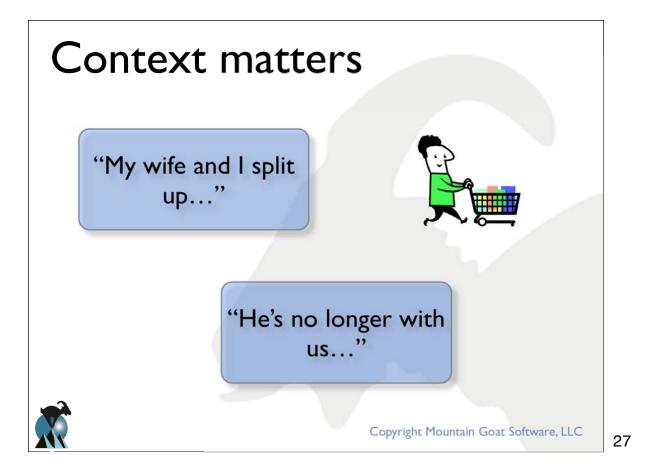


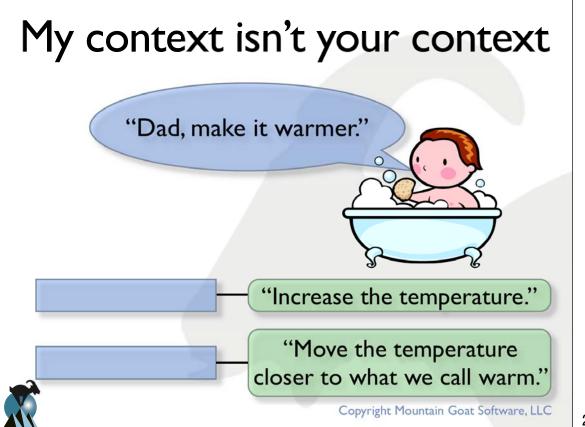


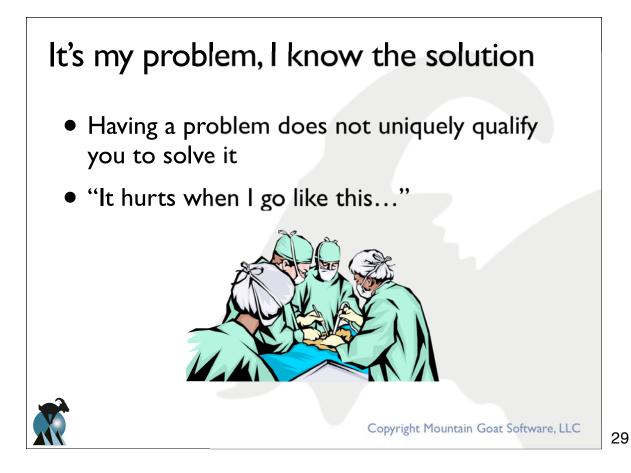


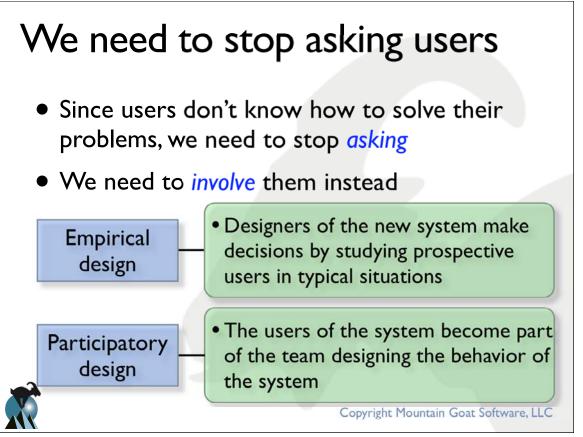


Copyright Mountain Goat Software, LLC





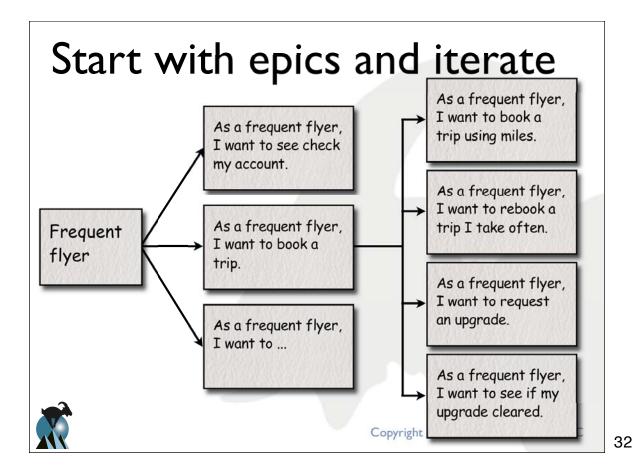




#### Story-writing workshops

- 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







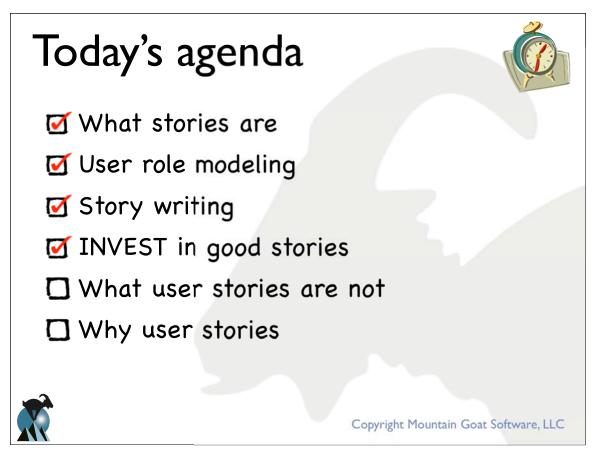


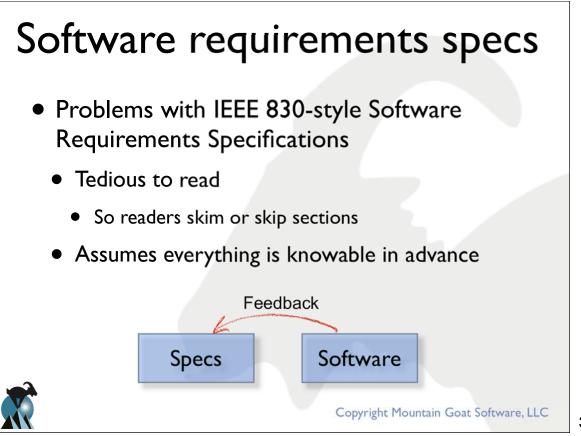


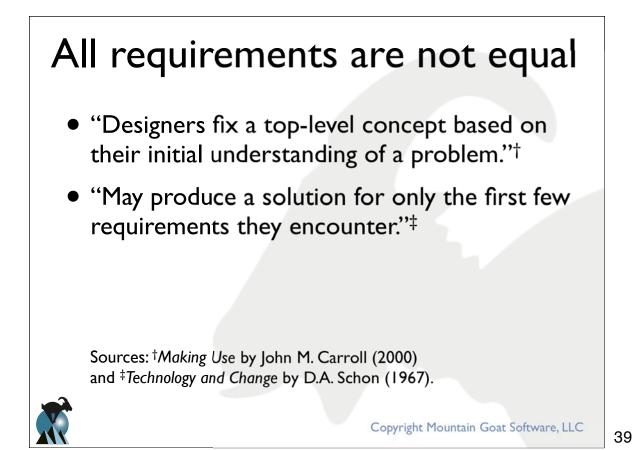
### INVESTing in good stories

- Estimatable
  - Because plans are based on user stories, we need to be able to estimate them
- Sized Appropriately
  - Complex stories are intrinsically large
  - Compound stories are multiple stories in one
- Testable
  - Stories need to be testable





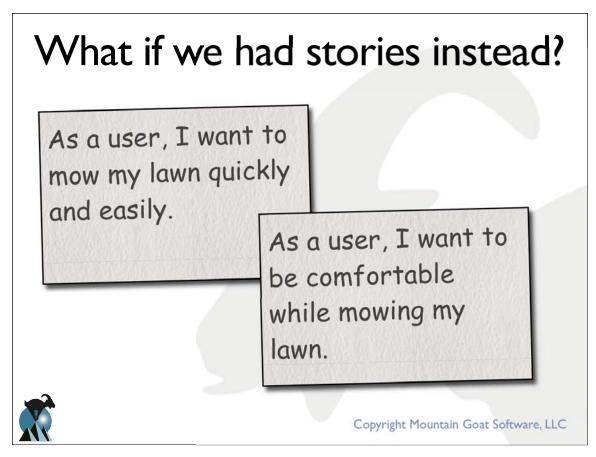




# What are we building? IEEE 830 Software Requirements Spec 1. The product shall have a gas engine. 2. The product shall have four wheels. 2.1.The product shall have a rubber tire mounted to each wheel. 3. The product shall have a steering wheel. 4. The product shall have a steering wheel.

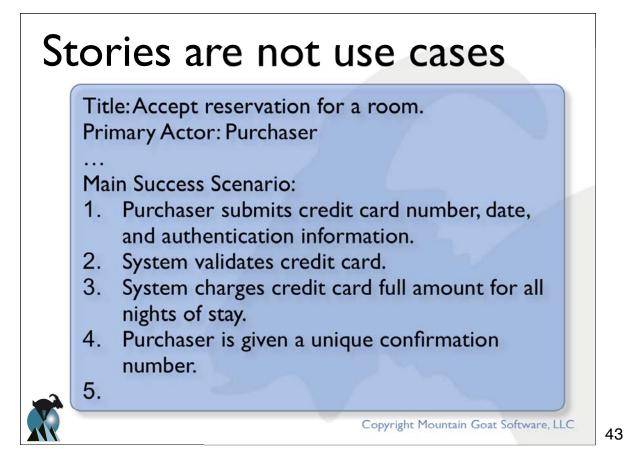
(1999).

Copyright Mountain Goat Software, LLC



#### The product





Stories are not use cases
Extensions:
2a The card is not a type accepted by the system. Card System notifies the user to use a different card.
2b The card is expired Cb System notifies the user to use a different card.
3a The card has insufficient available credit. Card System charges as much as it can to the

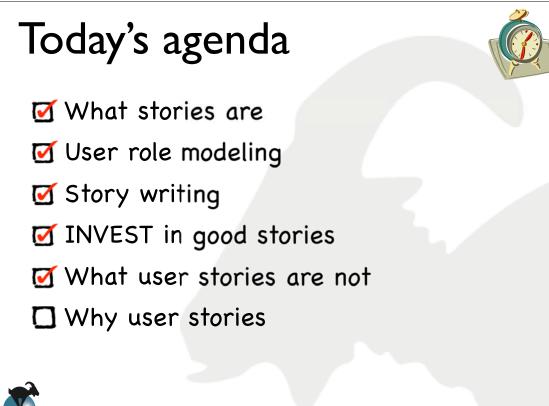
#### Copyright Mountain Goat Software, LLC

#### Differences: use cases / stories

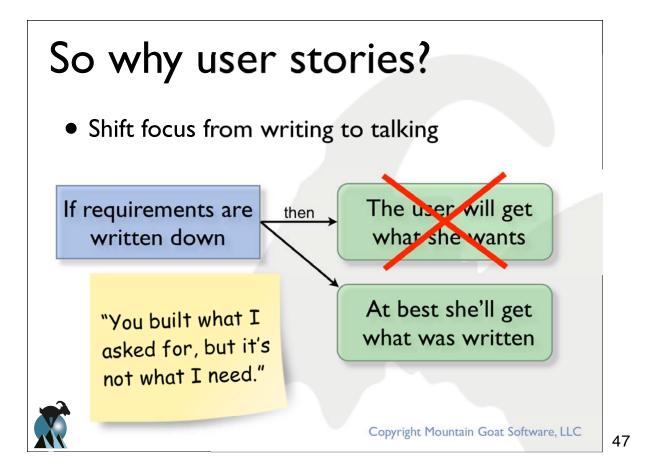
- Scope
- Completeness
- Longevity
- Purpose
  - Use cases document an agreement between the customer and the developers
  - User stories are reminders to have a conversations and are written to facilitate planning

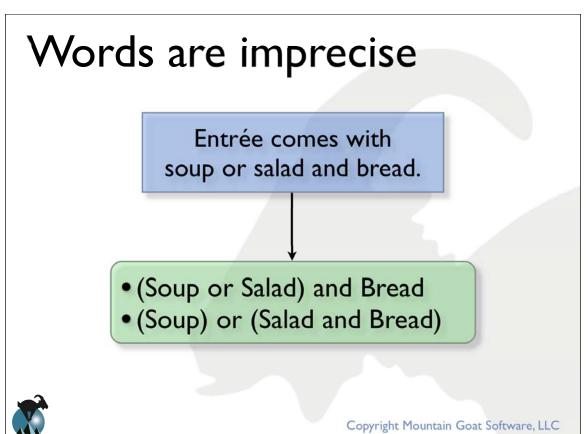


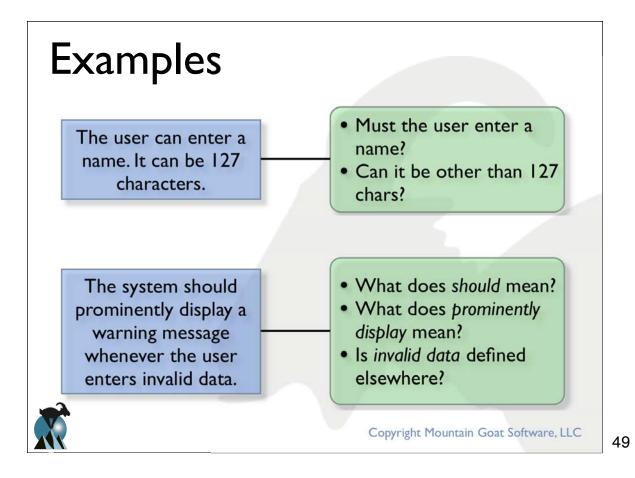
Copyright Mountain Goat Software, LLC

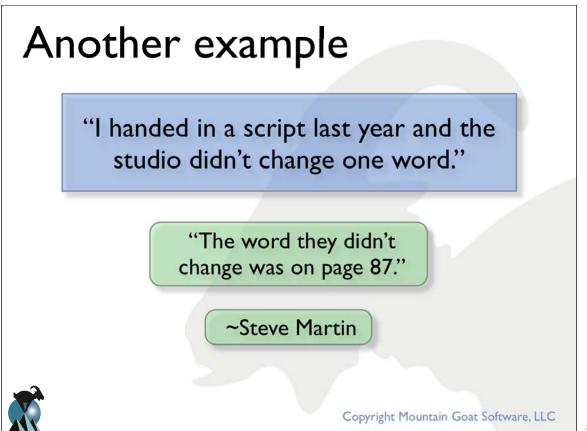












# Additional reasons Stories are comprehensible Developers and customers understand them People are better able to remember events if they are organized into stories<sup>†</sup> Support and encourage iterative development Can easily start with epics and disaggregate closer to development time

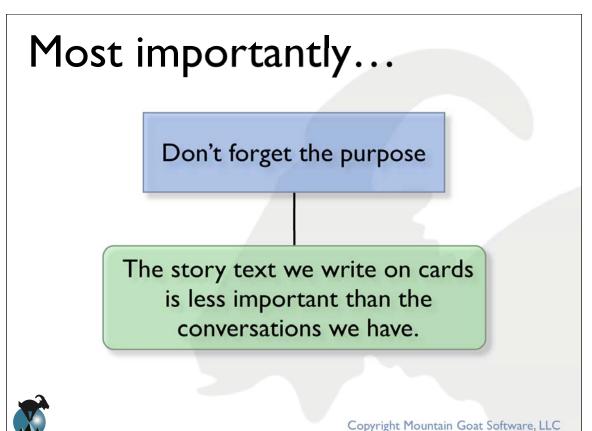
51

### Yet more reasons Stories are the right size for planning Stories support opportunistic development We design solutions by moving opportunistically between top-down and bottom-up approaches<sup>†</sup> Stories support participatory design



# Why not user stories? There are some drawbacks to be aware of On a large project there can be lots of stories Solution is to remember to keep some as epics initially Or "staple" some together into themes Stories on cards don't facilitate traceability But you can do it, or you can use software Stories focus on increasing tacit, not formal, communication May need to supplement with some formal documentation





Upcoming public classes			
	Date	What	Where
	August I-2	Certified ScrumMaster	Denver
	August 3	Agile Estimating & Planning	Denver
	November 7-8	Certified ScrumMaster	Santa Clara
	November 9	Agile Estimating & Planning	Santa Clara
	November 29-30	Certified Product Owner (with Ken Schwaber)	Boulder
	Register at www.mountaingoatsoftware.com Copyright Mountain Goat Software, LLC		

