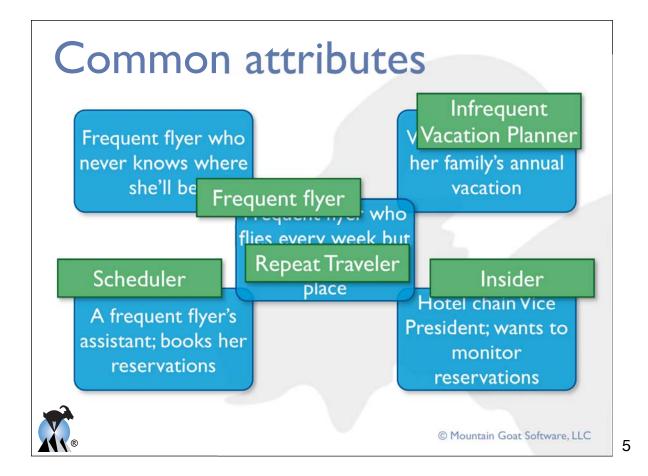




# "The User"

- 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

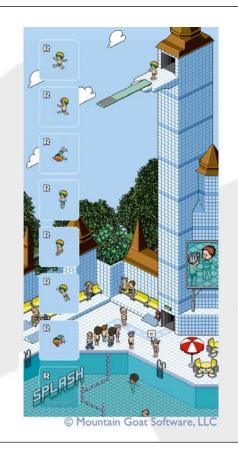
- Broaden the scope from looking at one user
- Allows users to vary by
  - What they use the software for
  - How they use the software
  - Background
  - Familiarity with the software / computers
- Used extensively in usage-centered design



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

# Habbo Hotel user roles

- Achievers
- Creatives
- Rebels
- Loners
- Traditionals





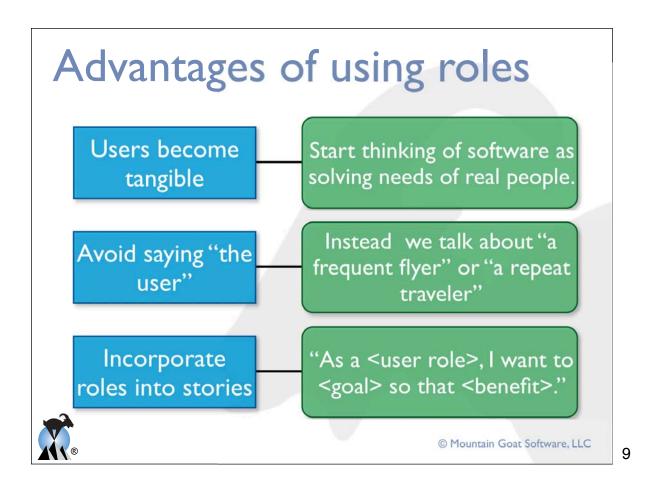
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# System and programmer users

As the payment verification system, I want all transactions to be well-formed XML.

As a programmer, I want an API for deleting widgets from the database.







# Card Stories are traditionally written on note cards. Cards may be annotated with estimates, notes, etc. 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. One of a user story Acreptance traditionally written on note cards. Cards may be annotated with estimates, notes, etc. Details behind the story come out during conversations with product owner

# 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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### Split this into (at least) five stories



 As a registered user, I am required to login before being able to use the system.

### Use this template

"As a <user role>,
I want <goal>
so that <reason>."



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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

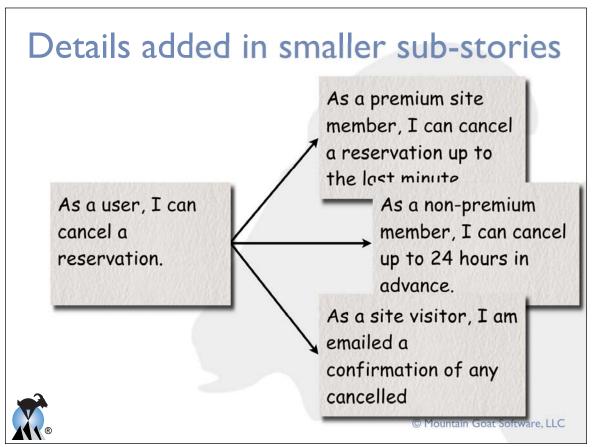
- The product owner's conditions of satisfaction can be added to a story
  - These are essentially tests

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.



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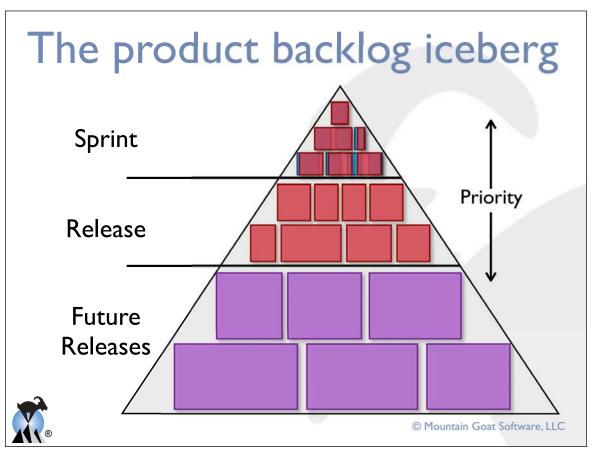


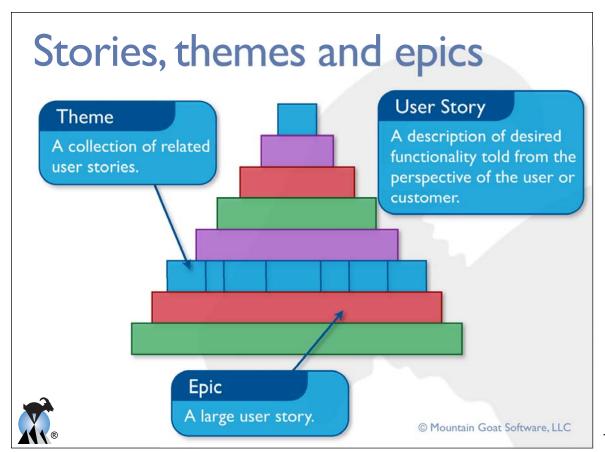
# Techniques can be combined

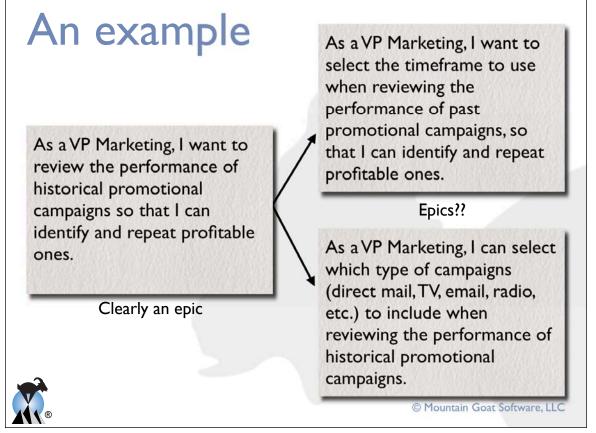
- These approaches are not mutually exclusive
- Write stories at an appropriate level
- By the time it's implemented, each story will have conditions of satisfaction associated with it

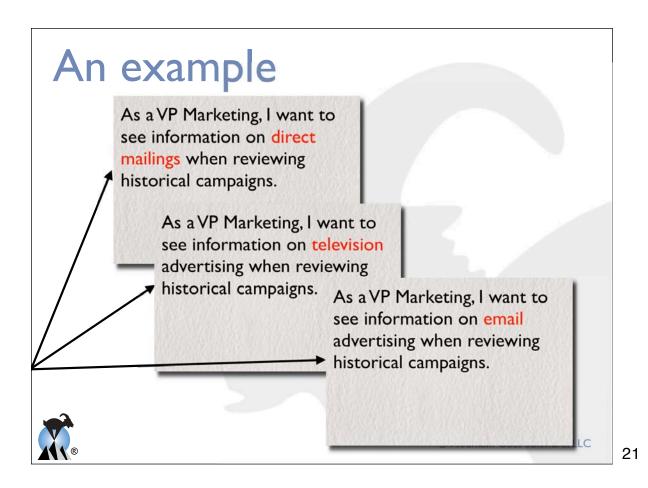


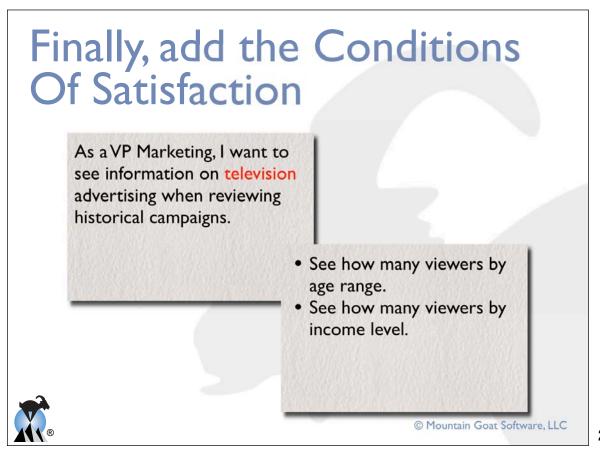
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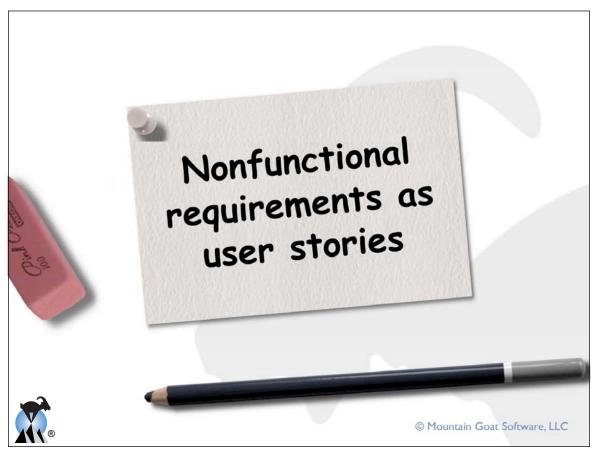












# Non-functional examples

As a customer, I want to be able to run your product on all versions of Windows from Windows 95 on.

As the CTO, I want the system to use our existing orders database rather than create a new one.

As a user, I want the site to be available 99.999% of the time I try to access it.

 As someone who speaks a Latin-based language, I might want to run your software someday.



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Write a user story for 2-3 of these common non-functional requirements.



- Performance
- Accuracy
- Portability
- Reusability
- Maintainability
- Interoperability
- Capacity

Some examples are on the following pages. Try thinking of some without looking at those though.



# Some possible answers

### Reusability

 As the CTO I expect the database and database access code to be reusable in future applications.

### Accuracy

- As a user, I want the software to correctly predict the winner of a basketball game at least 53% of the time.
- As a user, I want the driving directions to be the best 90% of the time and reasonable 99% of the time.



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### Performance

 As a user I want 80% of account searches to complete within 2 seconds.

### Interoperabilty

• As a[n IT person at a] customer I want the system to use MySQL so that I can integrate data with my own systems.

### **Portability**

 As a Linux user and prospective user of a future version, I want the system not to use any technologies that would make porting to Linux difficult.



### Capacity

 As the product owner, I want the system to be able to hold 20 million members on the specified hardware while meeting performance objectives.

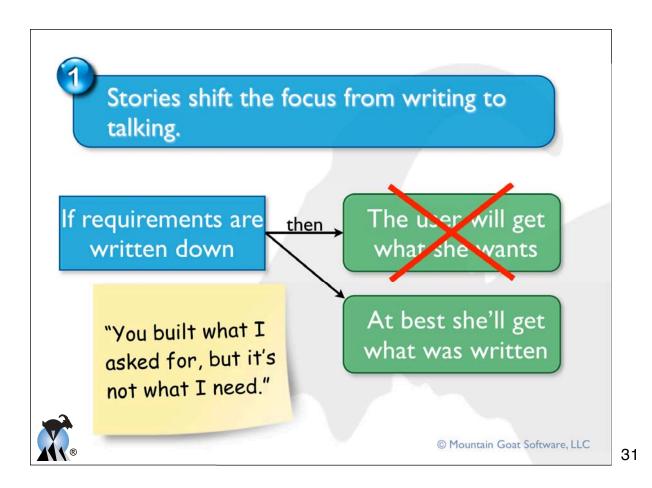
### Maintainability

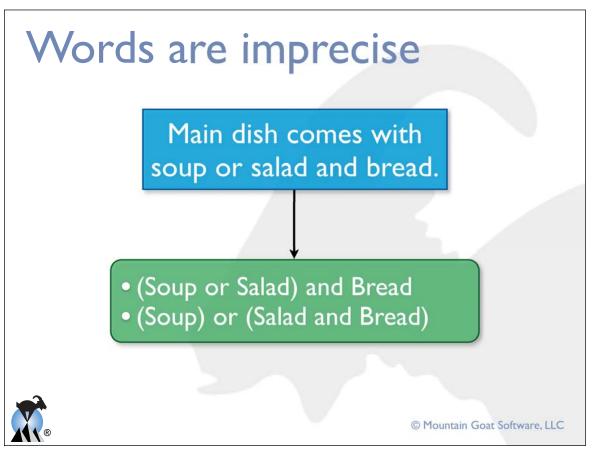
 As a customer I want you to have automated unit tests for all components so that you can enhance this system for a long time.

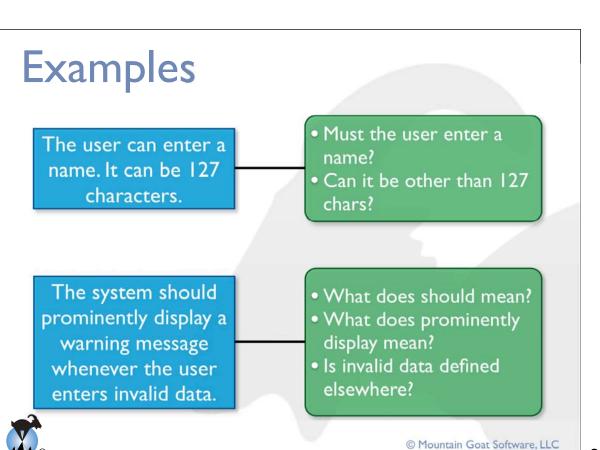


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Stories emphasize the user's goals not the system's attributes.

### 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.



Source: Adapted from *The Inmates are* Running the Asylum by Alan Cooper (1999).

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### What if we had stories instead?

# 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 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

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