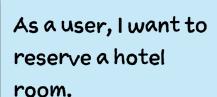


- Iterative and incremental
- User stories
- Estimating
- Planning





As a user, I can cancel

a reservation.

R

As a vacation traveler, 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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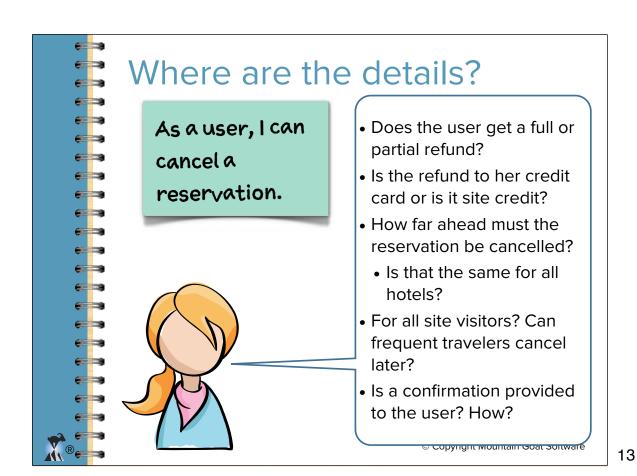
11

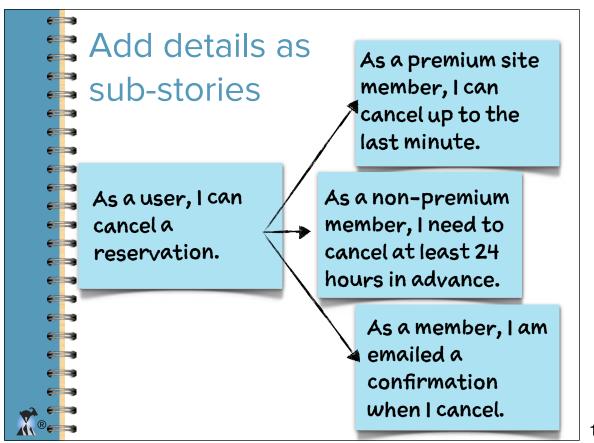
## A template

As a <user type>,
I <want/need/can/etc.>
some goal,
[so that <reason>].



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### ... or as Conditions of Satisfaction

- Conditions of Satisfaction are essentially tests
- Should come from the product owner

### As a user, I can cancel a

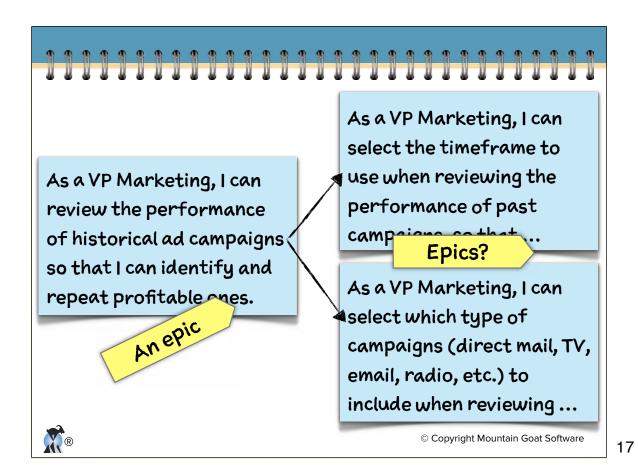
reservation.

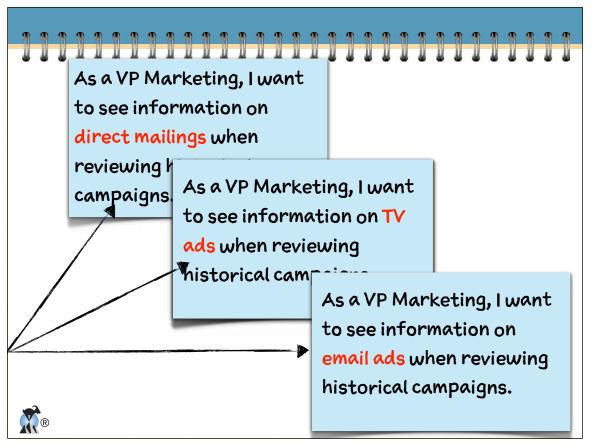
- □ Verify that a premium member can cancel the same day without a fee.
- □ Verify that a non-premium member is charged 10% for a same-day cancellation.
- ☐ Verify that an email confirmation is sent.

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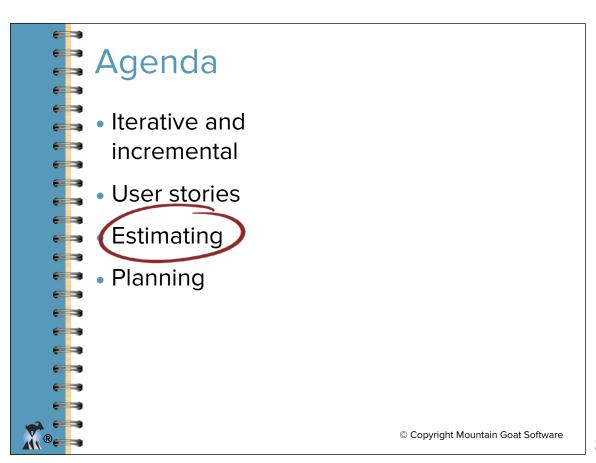
Legend
Size
Larger
Smaller
Detail
Less More

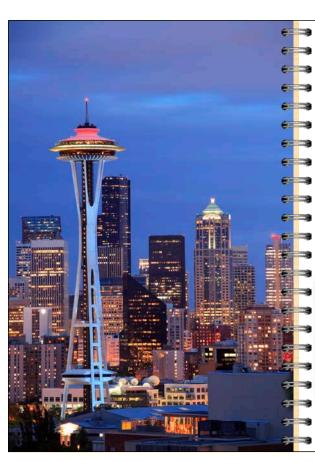
Time





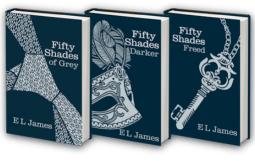


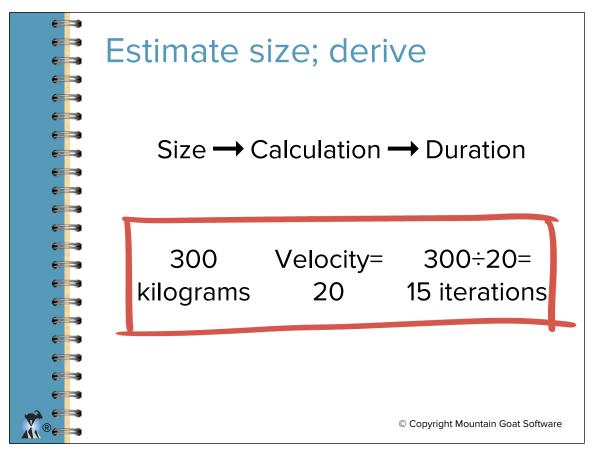




### How long to...

- Drive to Seattle
- Read a...ahem... good book





# Two Units For ESTIMATING



Ideal Time 2

Story Points



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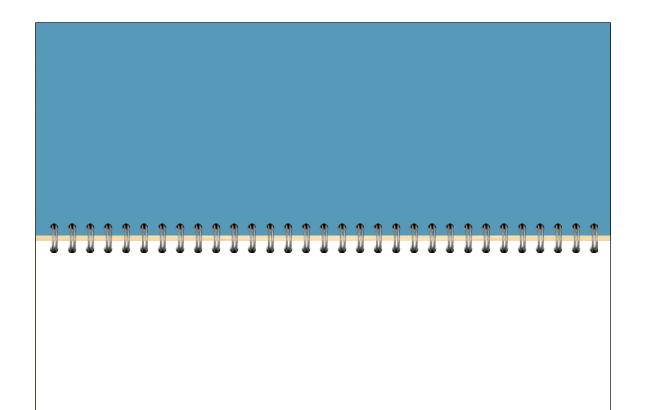
23



### Ideal time

- How long a thing will take if:
  - it's all you work on
  - no one interrupts you







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# Story points

- How long a user story will take to develop (effort)
- Influenced by
  - ComplexityRisk
  - Uncertainty
- Etc.





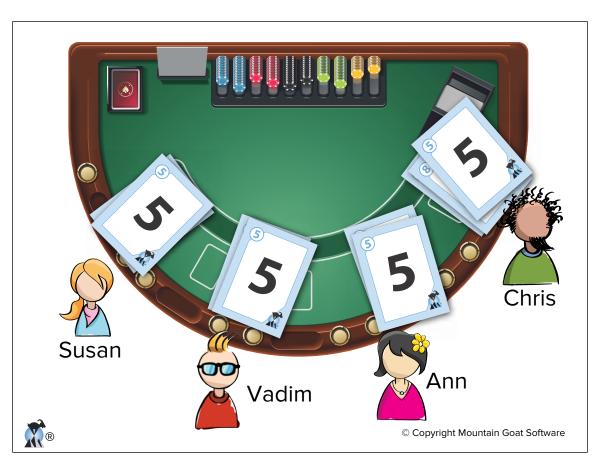




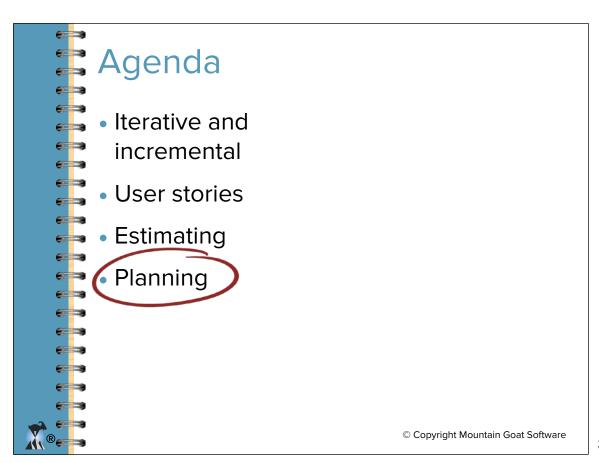
### Planning Poker®

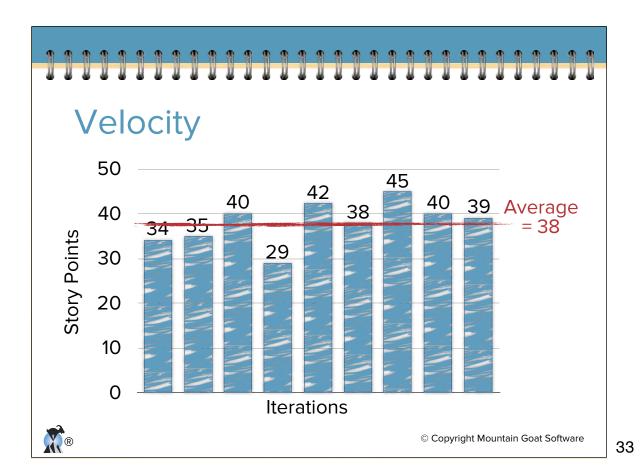
- Each estimator has cards with valid estimates
- A product backlog item is discussed
- Each estimator selects an estimate
- Cards are turned over
- Discuss differences (especially outliers)
- Repeat until consensus

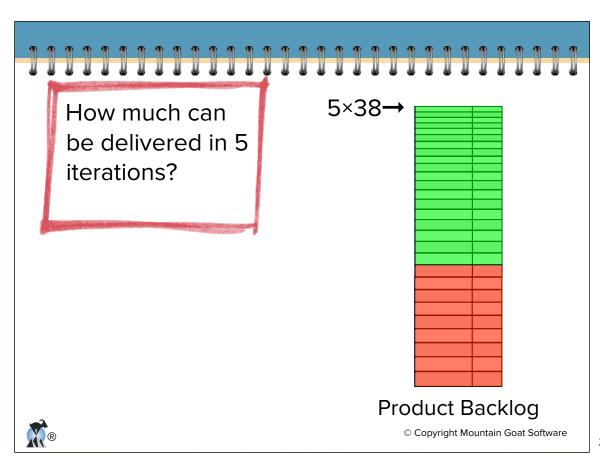
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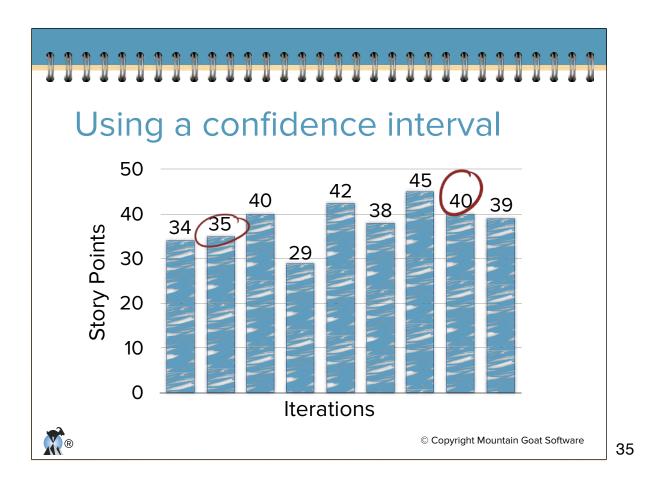




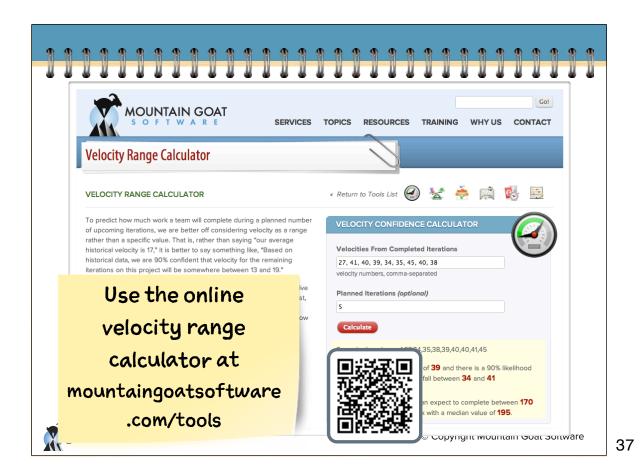


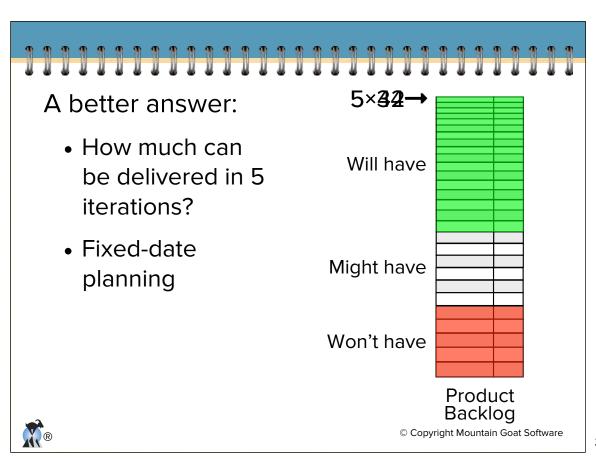






#### Calculating a confidence interval Iterations to # of throw out historical from each iterations each end 0 - 70 8-10 1 11-12 2 13-15 3 16-17 4 18-20 5 21-22 6 23-25 7 26+ 8 © Copyright Mountain Goat Software





# Fixed-scope projects

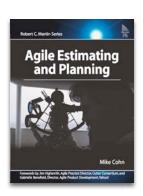
- Sum the product backlog
- Estimate velocity as a range
- Divide the size of the product backlog by the velocity range



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### Mike Cohn

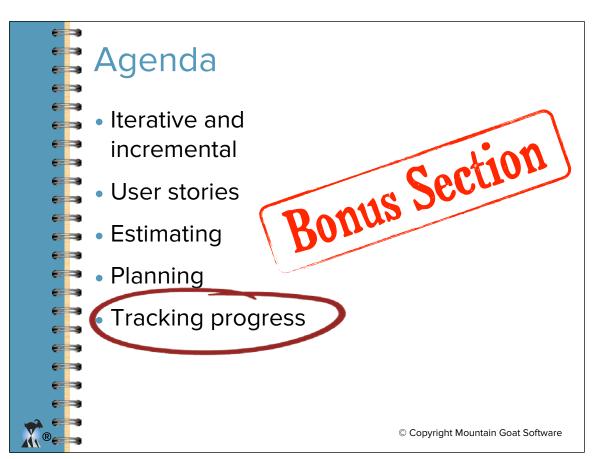
mike@mountaingoatsoftware.com www.mountaingoatsoftware.com fb.com/mountaingoatsoftware linkedin.com/in/mikewcohn twitter: mikewcohn (888) 61–AGILE

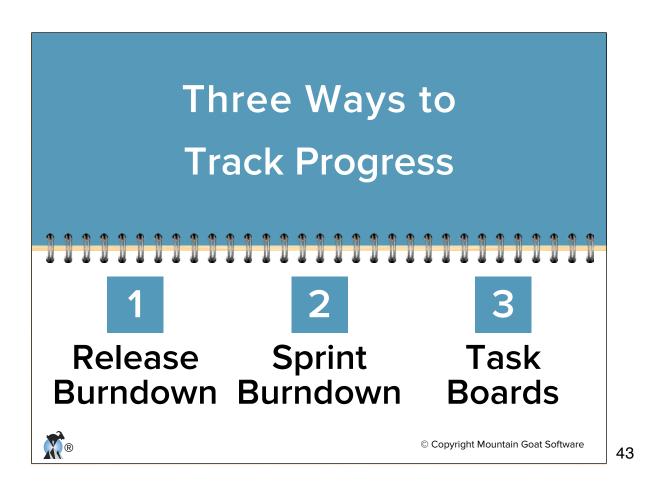


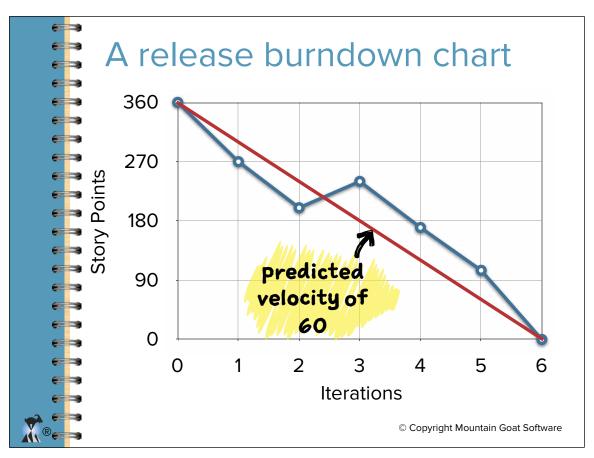


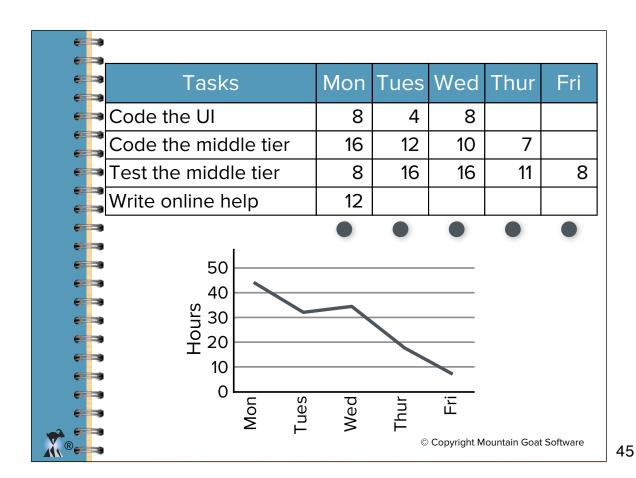


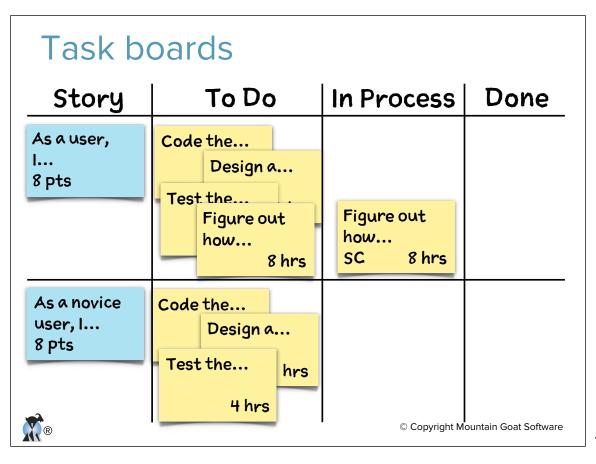














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