



Ideal time

- How long something would take if
 - it's all you worked on
 - you had no interruptions
 - and everything you need is available
- The ideal time of a football game is 60 minutes
 - Four 15-minute quarters
- The elapsed time is much longer (3+ hours)



Ideal time vs. elapsed time

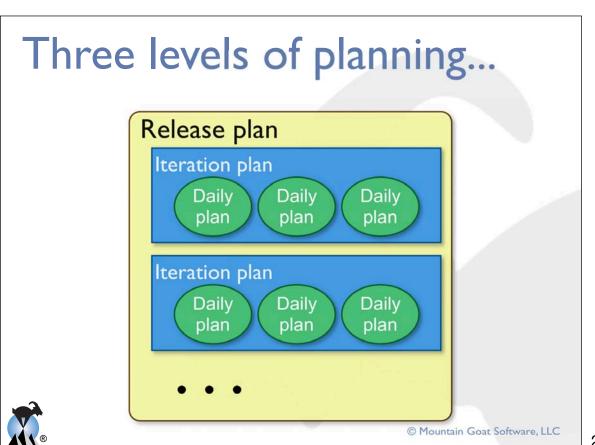
- It's easier to estimate in ideal time
- It's too hard to estimate directly in elapsed time
 - Need to consider all the factors that affect elapsed time at the same time you're estimating



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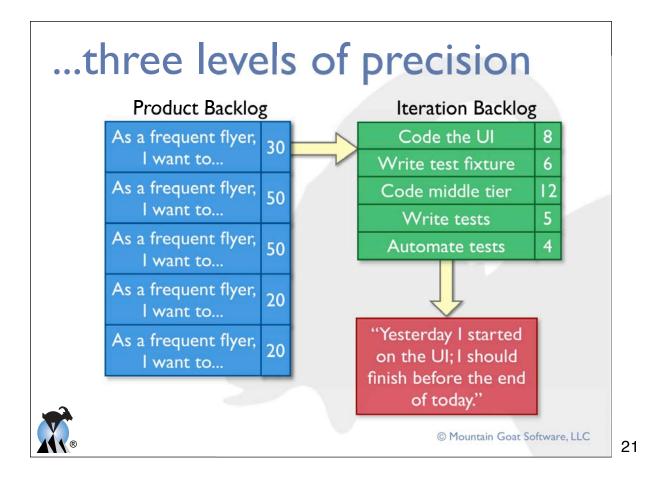
Comparing the approaches

- Story points help drive cross-functional behavior
- Story point estimates do not decay
- Story points are a pure measure of size
- Estimating in story points is typically faster
- My ideal days cannot be added to your ideal days
- Ideal days are easier to explain outside the team
- Ideal days are easier to estimate at first



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What I usually do

- I prefer story points
- ...but they make some teams uncomfortable, so I'll
 - Start with ideal time
 - Gives the team a nice foundation for the initial stories
 - Helps team get started
 - Define "I story point = I ideal day"
 - Then
 - Gradually convert team to thinking in unit-less story points
 - "This story is like that story."
 - Stop talking about how long it will take

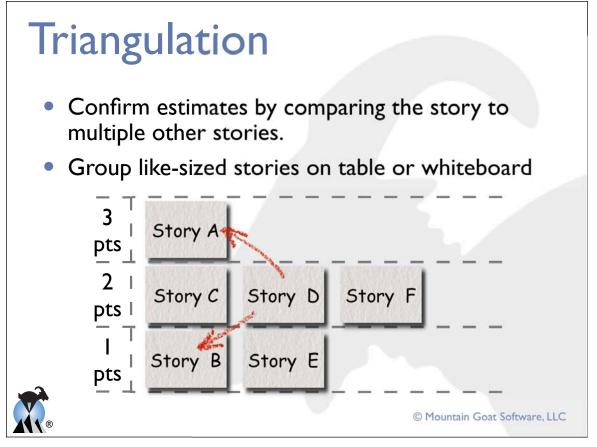




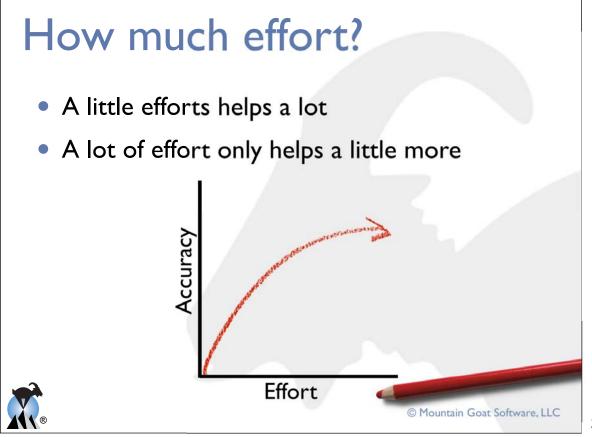
Estimate by analogy

- Comparing a user story to others
 - "This story is like that story, so its estimate is what that story's estimate was."
- Don't use a single gold standard
- Triangulate instead
 - Compare the story being estimated to multiple other stories

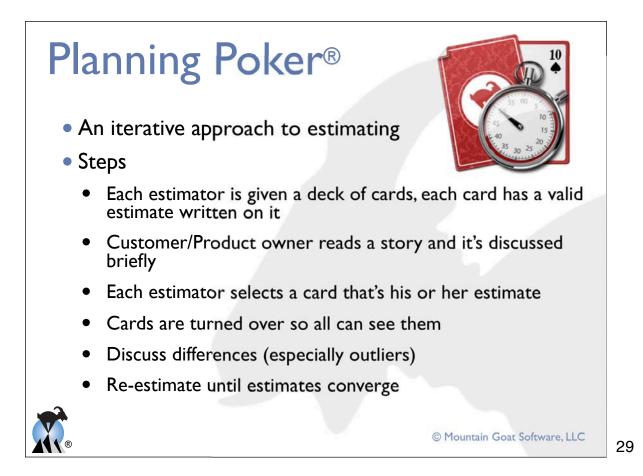


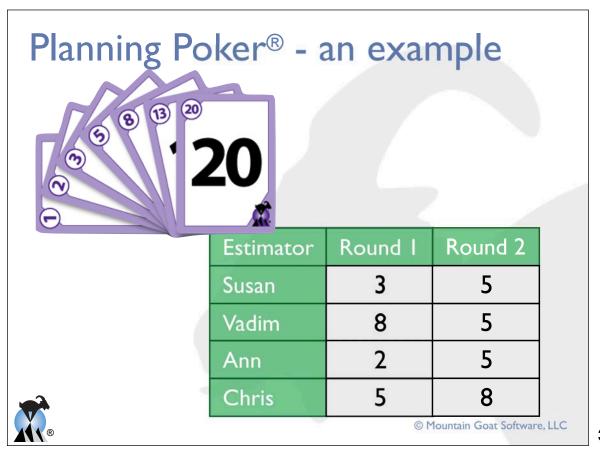


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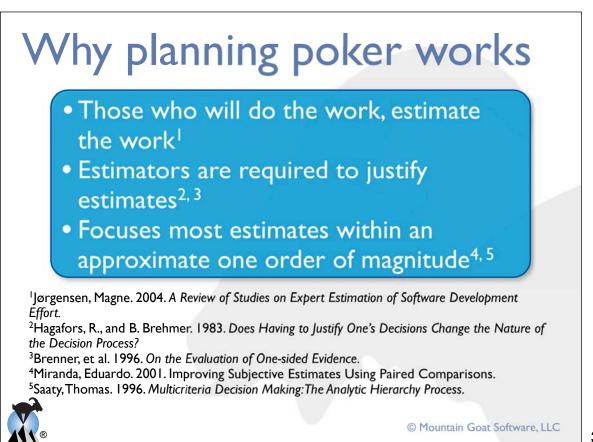


Use the right units Can you distinguish a 1-point story from a 2? How about a 17 from an 18? Use a set of numbers that make sense; I like: 1,2,3,5,8,13,20,40,100 Stay mostly in a 1-10 range Nature agrees: Musical tones and volume are distinguishable on a logarithmic scale





stimate these	Res and a second
Product backlog item	Estimate
Read a high-level, 10-page overview of agile software development in <i>Peopl</i> e magazine.	
Read a densely written 5-page research paper about agile software development in an academic journal.	
Write the product backlog for a simple eCommerce site that sells only clocks.	
Recruit, interview, and hire a new member for your team.	
Create a 60-minute presentation about agile software development for your coworkers.	
Wash and wax your boss' Porsche.	
Read a 150-page book on agile software development.	
Write an 8-page summary of this conference for your boss.	
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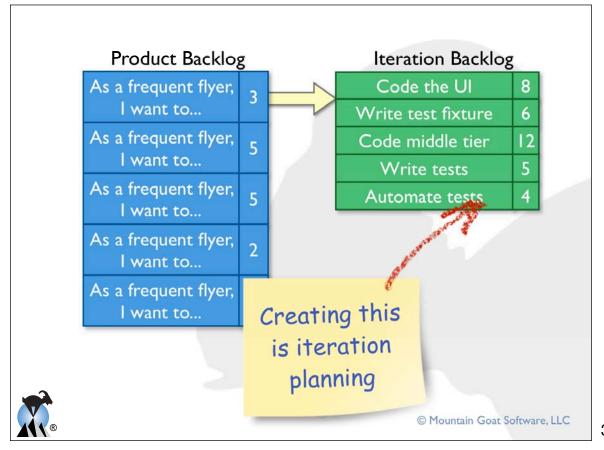


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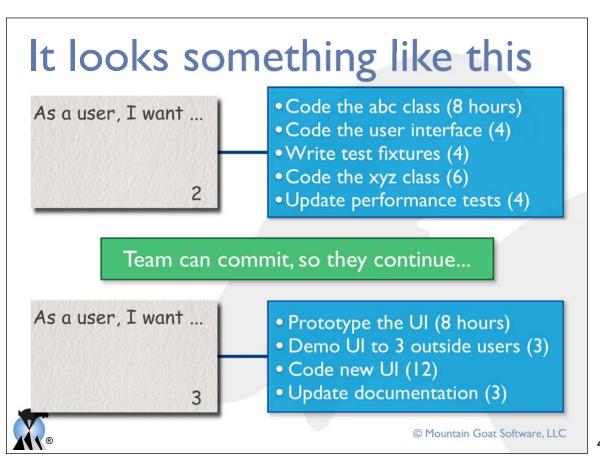


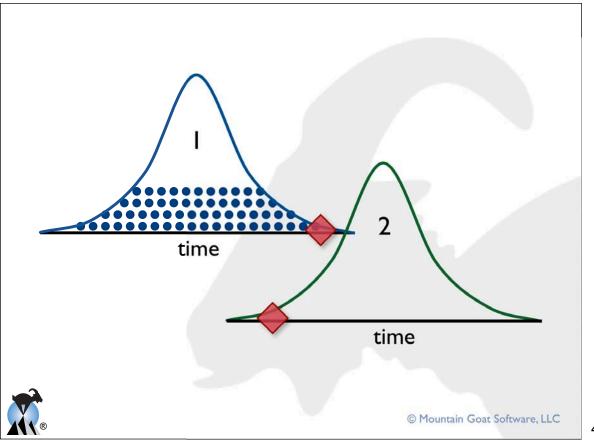
Commitment-driven iteration planning

- Discuss the highest priority item on the product backlog
- Decompose it into tasks
- Estimate each task
 - Whole team estimates each task
- Ask ourselves, "Can we commit to this?"
 - If yes, see if we can add another backlog item
 - If not, remove this item but see if we can add another smaller one



Ε	stimate a	vailability		
	Person	Hours per Day	Hours per Iteration	
	Sergey	4-6	40-60	
6	Yuri	5-7	50-70	
	Carina	2-3	20-30	
	Total		110-160	
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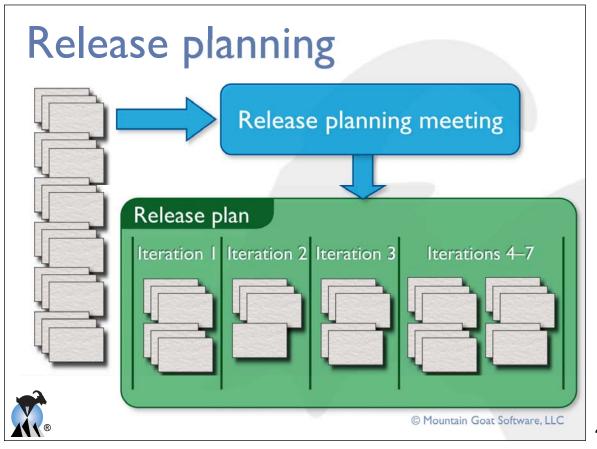


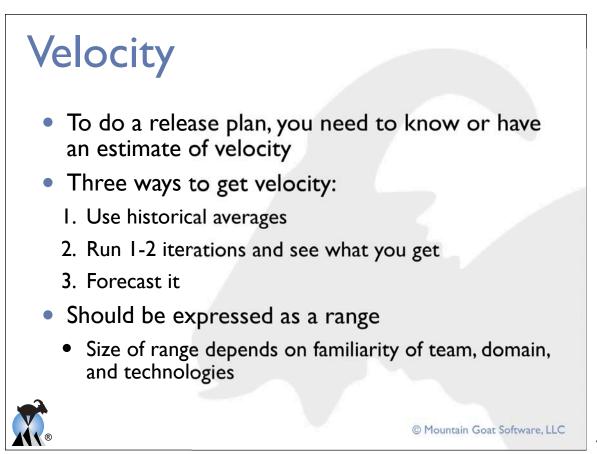
A caution

- The purpose of the iteration planning meeting is to arrive at a commitment to an iteration goal or set of product backlog items.
- The purpose of the meeting is not to come up with a list of tasks and hours.
- The tasks and estimates are a tool for determining what we can commit to.









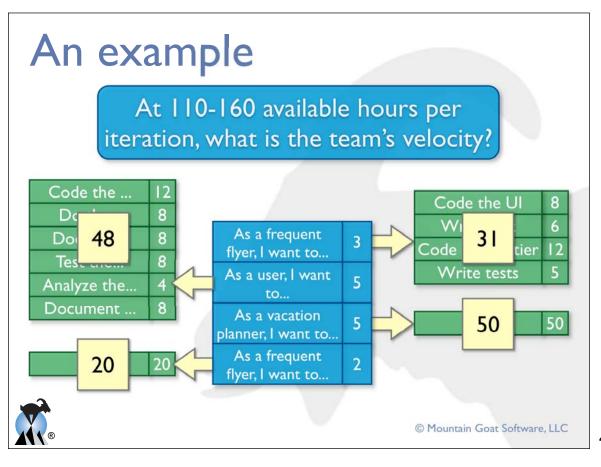
Forecasting velocity Just like commitment-driven iteration planning

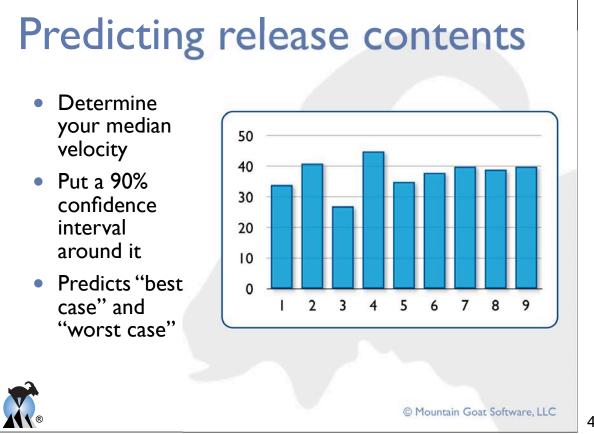
- Estimate available hours for the iteration
- Repeat until full:
 - Pick a story, break into tasks, estimate each task

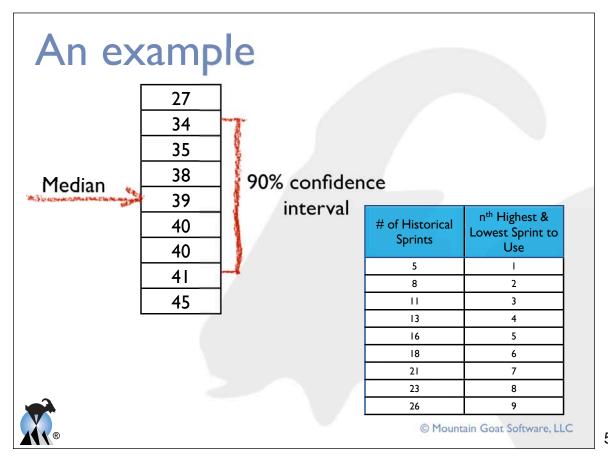


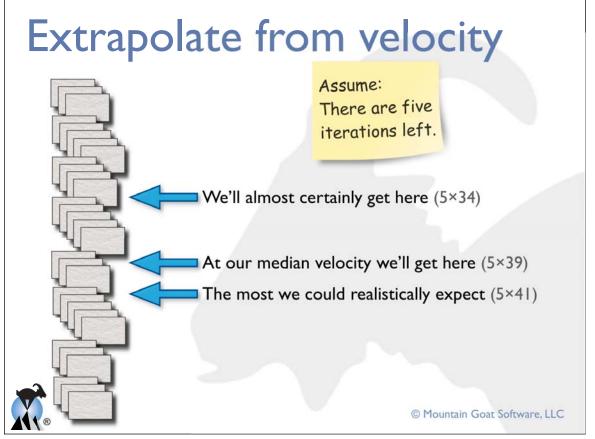
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Upcoming public classes

Date	What	Where
Feb 1–2 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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