## Agile Estimating & Planning

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#### Agenda

- Estimating in story points
- Estimating in ideal time
- Techniques for estimating
- Iteration planning
- Release planning
- Estimating velocity



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#### 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 © Mountain Goat Software, LLC



#### 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
- Ideal days can force companies to confront time wasting activities



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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



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Product backlog item	Estimate
Read a high-level, 10-page overview of agile software development in <i>People</i> 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 estimating and planning 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 session for your boss.	









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Ε	stimate a	vailability		
	Person	Hours per Day	Hours per Iteration	
	Sergey	4-6	40-60	
	Yuri	5-7	50-70	
	Carina	2-3	20-30	
	То	tal	110-160	
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<b>Update</b>	this	relea	ase plan
6 × worst 3 =	6 × averag	e of last 8 = _	6 × most recent =
	Running Total	Estimate	Story
	5	5	As a user, I can
	10	5	As a user, I can
	23	13	As a user, I can
	31	8	As a user, I can
	51	20	As a user, I can
	59	8	As a user, I can
	64	5	As a user, I can
	72	8	As a user, I can
	77	5	As a user, I can
	85	8	As a user, I can
	90	5	As a user, I can
	93	3	As a user, I can









Date	What	Where
April 10–11 April 12	Certified ScrumMaster Agile Estimating and Planning	Santa Clara, CA
May 30-31	Certified Scrum Product Owner (with Ken Schwaber)	Boston, MA
une 11-12 une 13	Certified ScrumMaster Agile Estimating and Planning	Dallas
lul 31-Aug 1 August 2	Certified ScrumMaster Agile Estimating and Planning	Denver, CO
Sept   - 2 Sept  3	Certified ScrumMaster Agile Estimating and Planning	Orlando, FL
Other classes	in London, Stockholm, and Oslo if you're	up for a longer trip.

