





























# Ideal days

- 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
  - The elapsed time is much longer (3<sup>1</sup>/<sub>2</sub> 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







































# Start by thinking about availability

# • Estimating available hours

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













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	Story A	5	1	Story A	5	
	Story B	3	1	Story B	3	
	Story C	5	1	Story C	5	
	Story F	3	a second second	Story F	3	
	Story D	5		Story D	5	
	Story E	5		Story E	5	
	Story G	3		Story G	3	
	Story I	3		Story I	3	
	Story H	5	Contraction of the second second	Story H	5	
	Story J	2		Story J	2	
	Story K	5		Story K	5	
	Story L	3		Scory L	3	
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## User stories 1. As a new player, I can play against a medium-strength computer opponent. 2. As an experienced player, I can play against a strong computer opponent. 3. As a player, I can save and restore a game. 4. As a player, I can use the program to play against another human on my computer. 5. As a player, I'd like to be able to choose between a wooden board and pieces and a metal board and pieces. 6. As a player, I'd like to ask for a hint. 7. As a player, I want to place a piece on the board using either my keyboard or my mouse. 8. As a player, I'd like to undo and redo moves. 9. As a new player, I want access to an online help system. 10. As a player, I want all pieces of the winning shape to blink or glow so that I can see the winning shape. 11. As a new player, I'd like to be warned after making a horrible move and be given the chance to take it back. Copyright Mountain Goat Software, LLC



