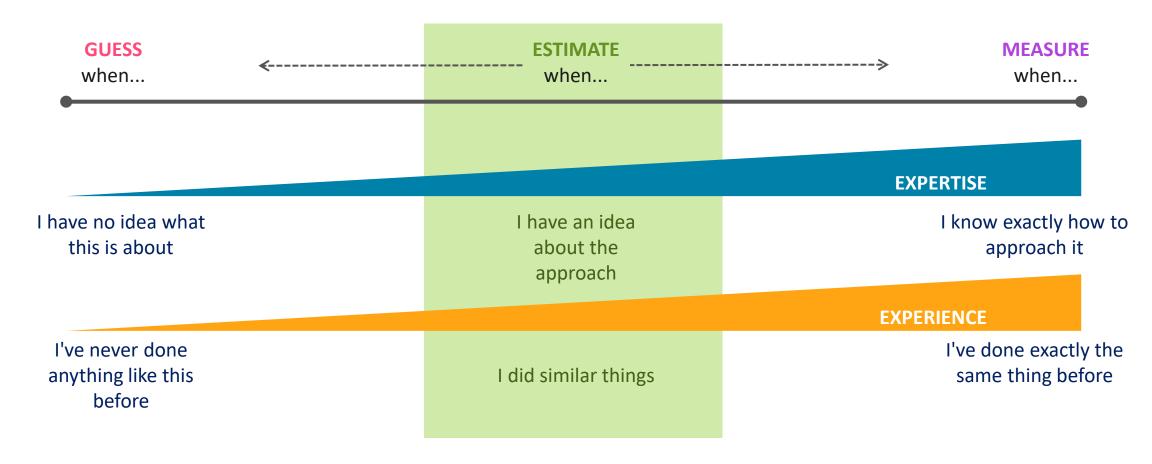




Estimations in Agile

What is estimation?

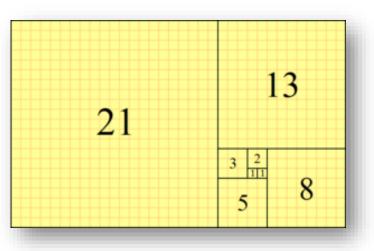


Cambridge Dictionary: a guess or calculation about the cost, size, value, etc. of something

Story points

- How long a user story will take (effort) in relative.
- Influenced by complexity, uncertainty, risk, volume of work etc

Relative sizing and story points



- Estimation technique that ranks stories by their size relative to each other and estimates based on those rankings.
- Story points are typically expressed using the Fibonacci sequence of numbers
 - Using this technique the estimation would be quick because one story it not evaluated from the scratch, it is evaluated by its position relative to other stories
 - It is useful when planning for the next iteration to decide which stories can be completed in that iteration

• Guidelines:

- The team should own the definition of story points
- Story points definition should be all-inclusive
- Point sizes should be relative
- When disaggregating, totals don't need to match
- Estimate should include complexity, effort and risk

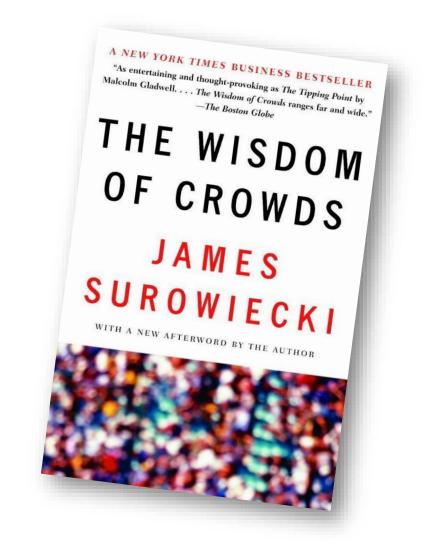
Poker planning



- Planning poker is a consensus-based estimation technique, mostly used to estimate effort or relative size of user stories.
 After each player has selected a card, all cards are exposed at once and consensus is reached in steps.
- Advantages:
 - Minimizing the "bandwagon effect" (grouping around most popular opinion)
 - Preventing HIPPO decision making (Highest-Paid Person Opinion)
 - Minimizing the "groupthink" effect (excessive concern for group harmony)

Wisdom of Crowds

- Diversity of opinion
- Independence
- Decentralization
- Aggregation
- Trust



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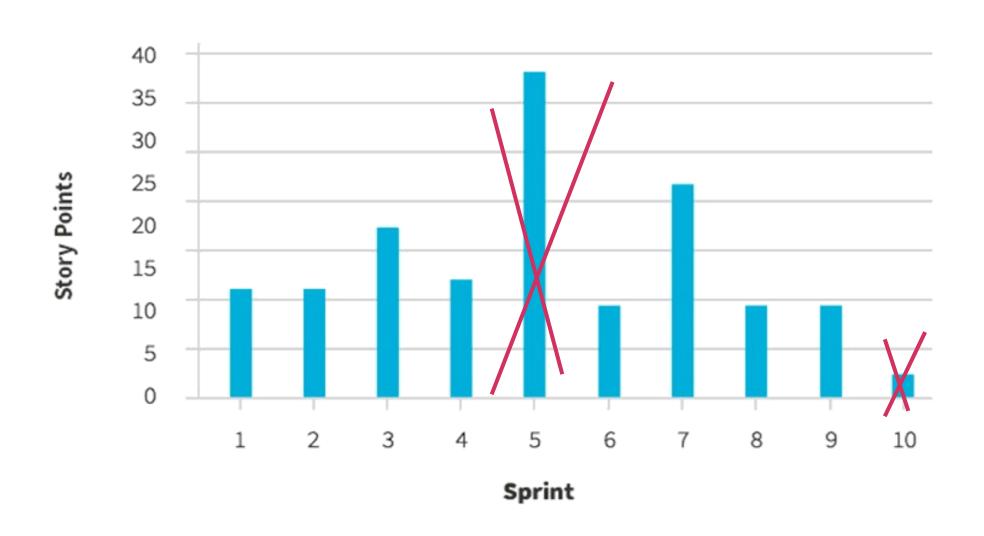




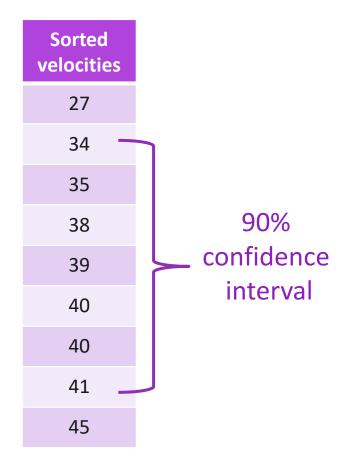
Velocity

 The sum of the effort estimates associated with user stories that were completed during that iteration

Velocity

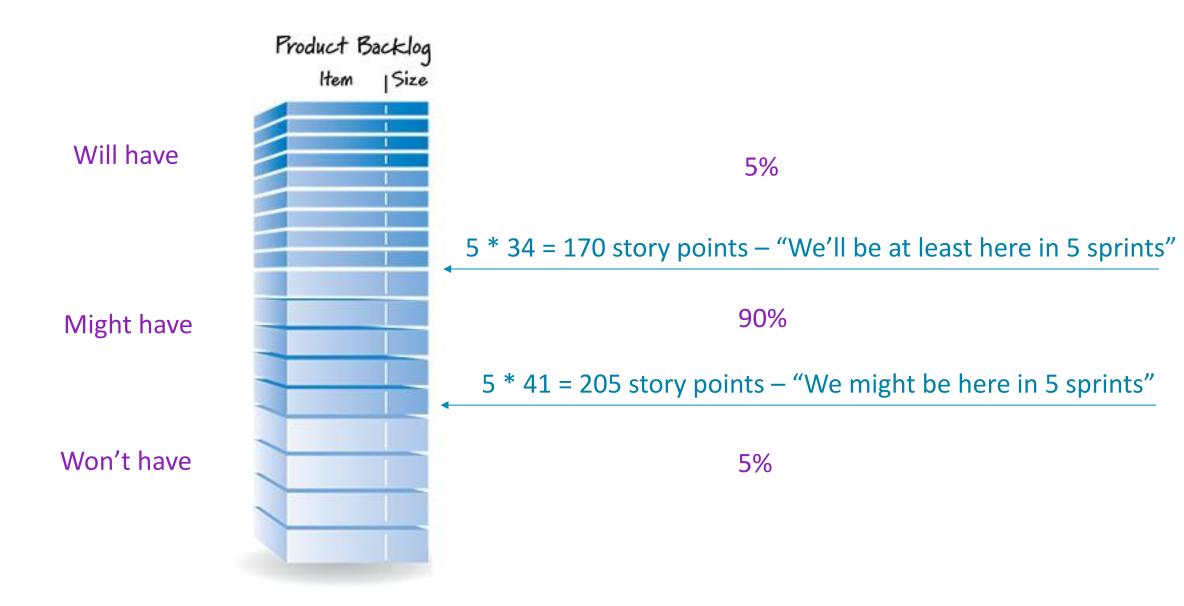


Velocity

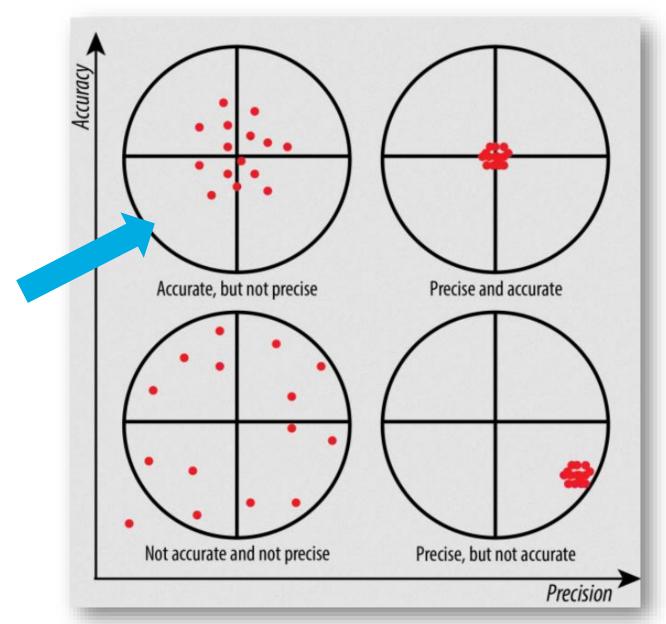


No of historical iterations	Iterations to throw out from each end
0-7	0
8-10	1
11-12	2
13-15	3
16-17	4
18-20	5
21-22	6
23-25	7
26+	8

Extrapolate the velocity range



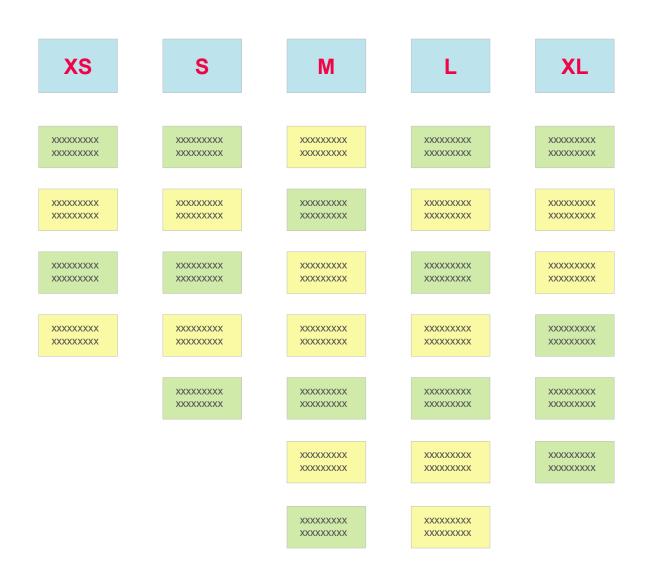
Accuracy vs Precision



"It is better to be roughly right than precisely wrong"

J.M. Keynes

White Elephant Sizing



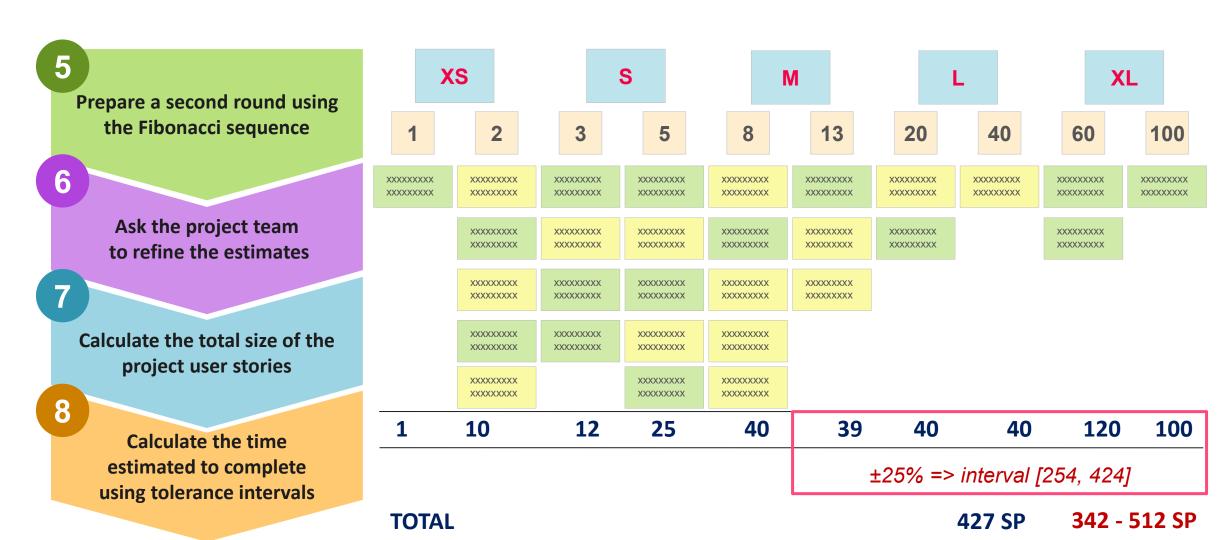
Prepare a set of user stories

Organize a workspace with t-shirt sizes as columns

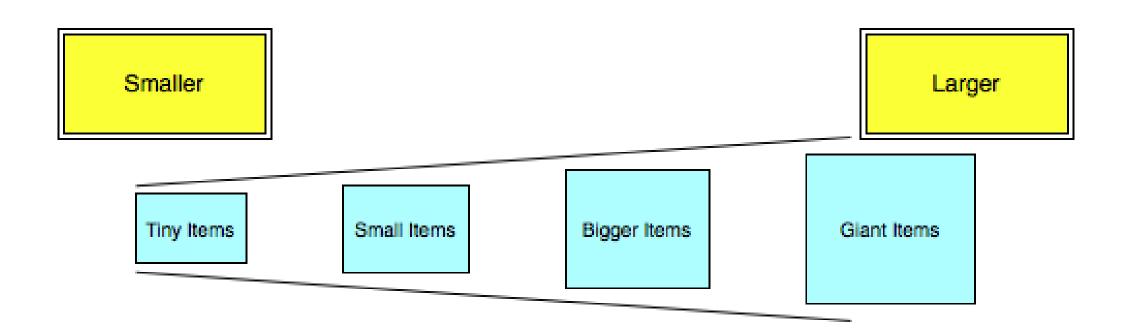
Ask the project team to estimate each user story through placing it on a column

Answer the questions asked by the team, but don't go into too much detail

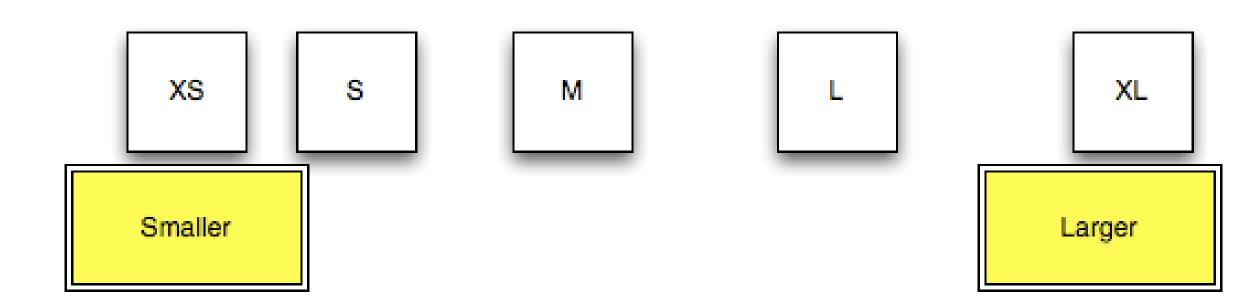
White Elephant Sizing



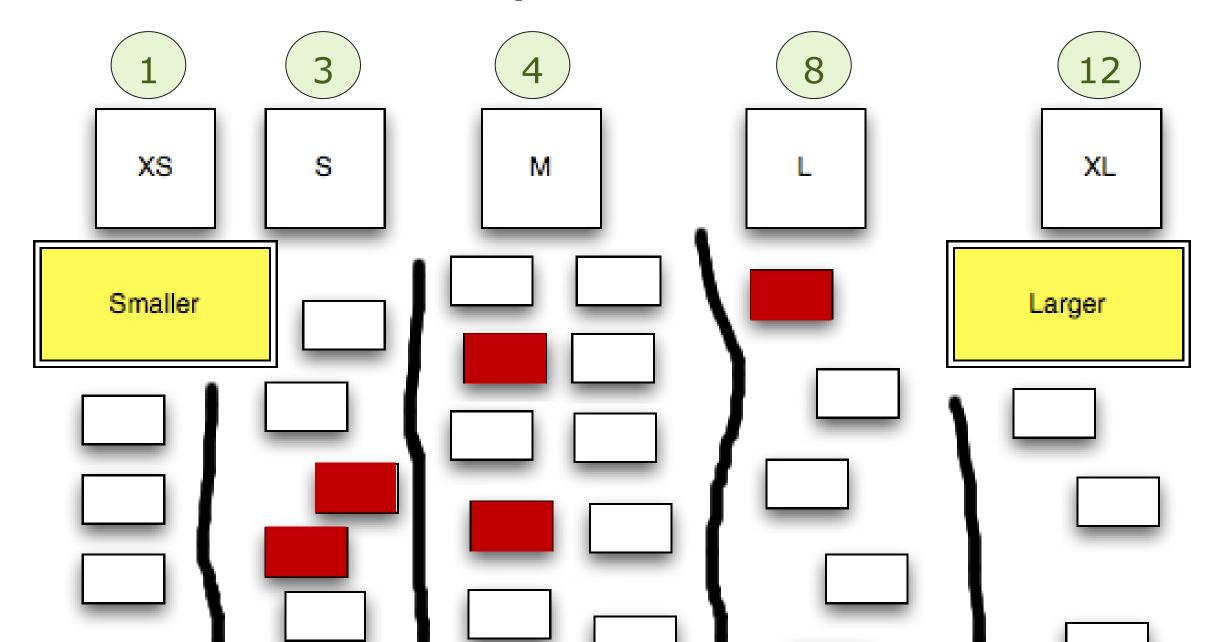
Affinity estimation



Affinity estimation



Affinity estimation



Velocity prediction

18

Velocity prediction

Commitment

34

User story 1

User story 2

. . .

User story n

User story n+1 User story t

Stretch stories