

# Agile Estimating

## User Story

“As a buyer, I want to have my shipping information confirmed so I get a chance to correct any errors”

**Estimate = 8 Points**



# Agenda

- 2 levels of estimating precision
- What influences the size of a story?
- Planning releases
- Planning iterations
- Exercises

# 2 Levels of Estimating Precision

## Story Points and Velocity for Planning Releases

PRIORITIZED RELEASE BACKLOG	Size in Story Points
User Story A	8
User Story B	5
User Story C	2
User Story D	20
User Story E	40

## Task Hours and Capacity for Planning Iterations

ITERATION BACKLOG	Size in Task Hours
User Story A, Task 1	6
User Story A, Task 2	4
User Story A, Task 3	6
User Story A, Task 4	2

# Agile Uses “Points” to Estimate Story Size

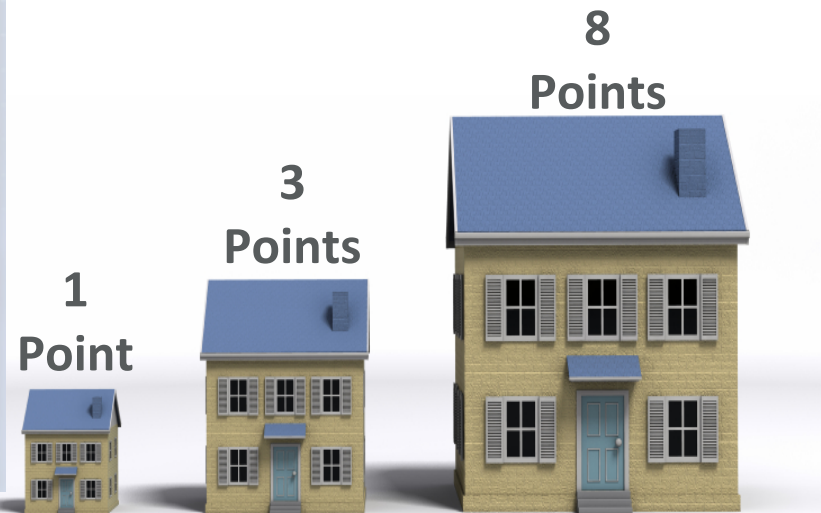
**Traditional Size  
Estimates Are Absolute**

<LINES.OF.CODE>

<FUNCTION.POINTS>

<DAYS.HOURS>

**Agile Size Estimates  
Are Relative**



# Why is a *Relative* Size Measure Better?

- Humans are good at comparing size, not very good at estimating absolute
  - Can you tell the difference between a 1 and a 2?
  - How about between a 33 and a 34?
- Relative Size estimates don't change
- Estimating is faster
- Easier to reach accurate consensus on size
- Basic math still works  $3 + 3 = 6$





# ESTIMATE BY **ANALOGY**

“This story is like that story, so it’s estimate is what that story’s estimate was.”

# What influences the size of a story?

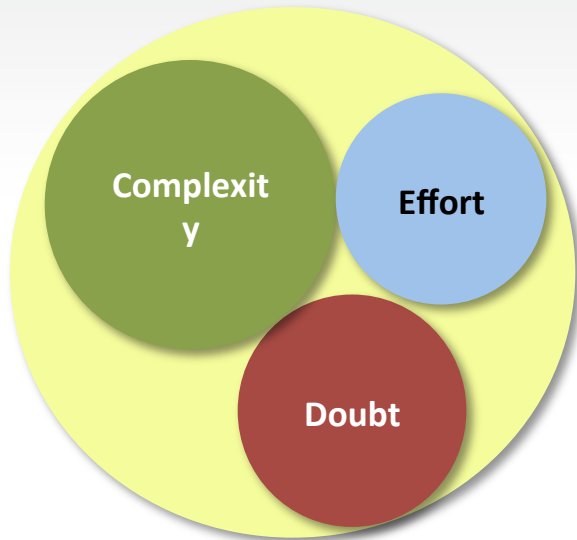


Effort

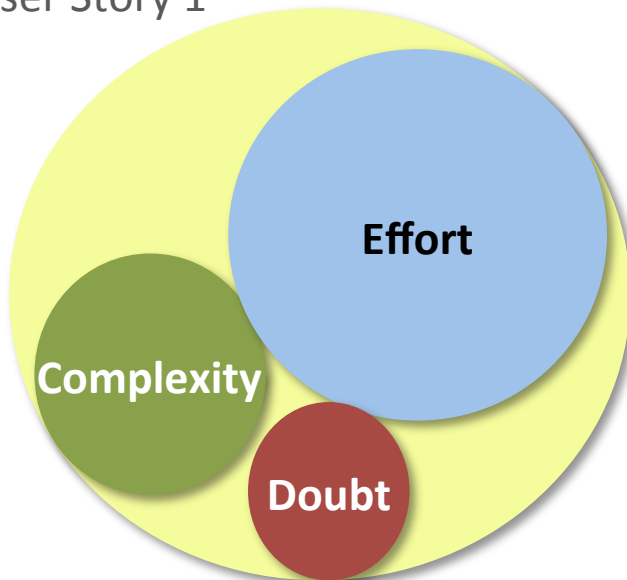
Complexity

Doubt

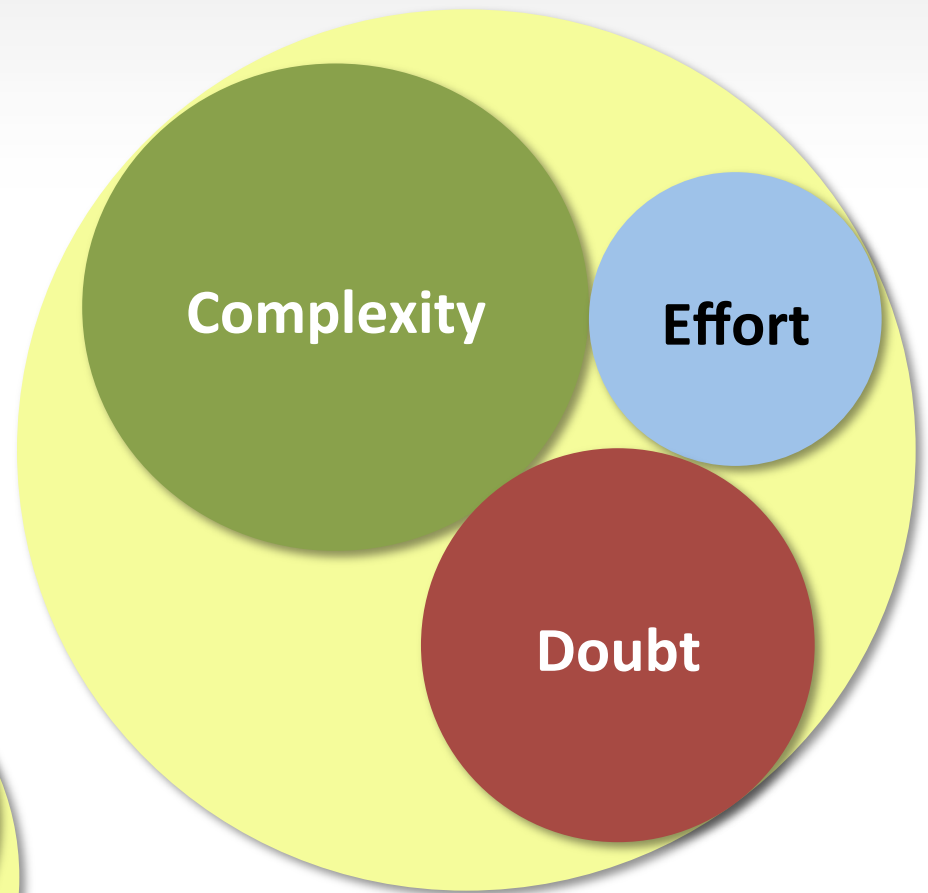




User Story 1

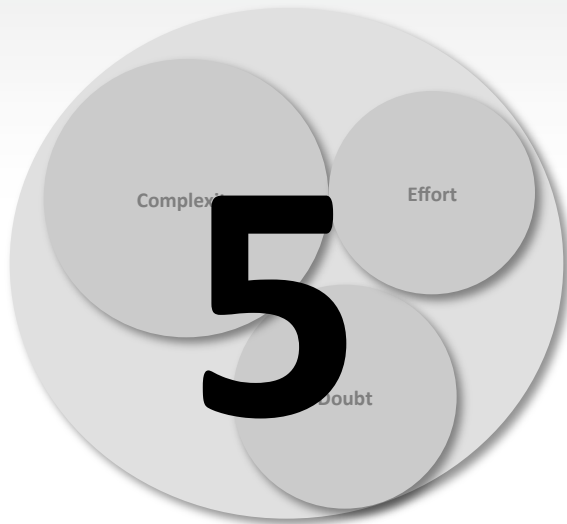


User Story 2



User Story 3

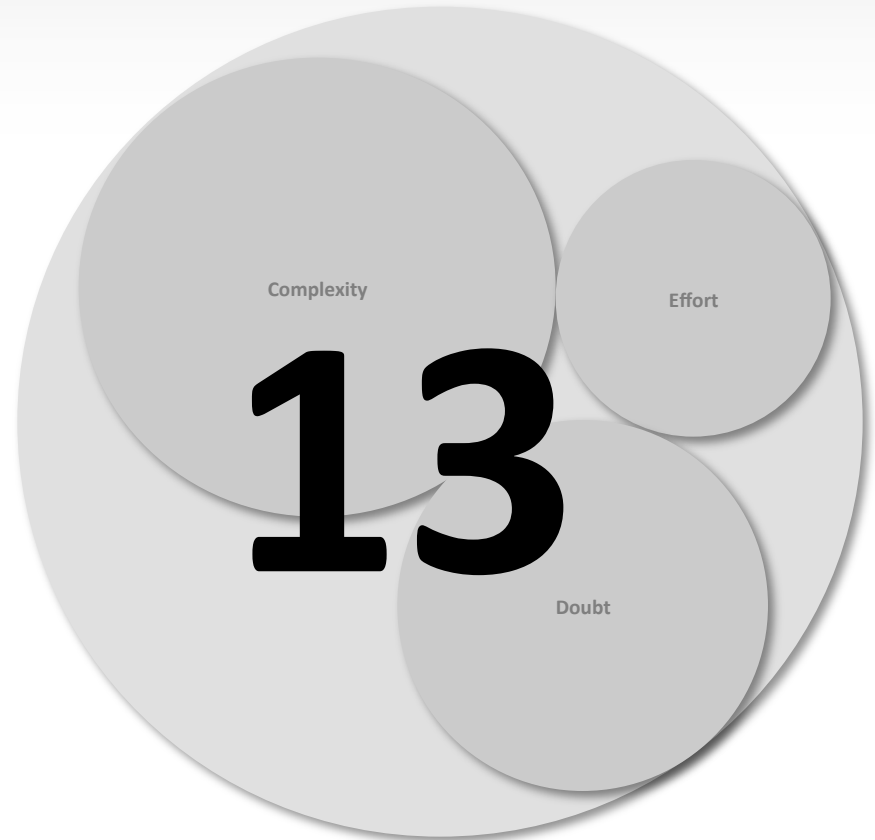




User Story 1



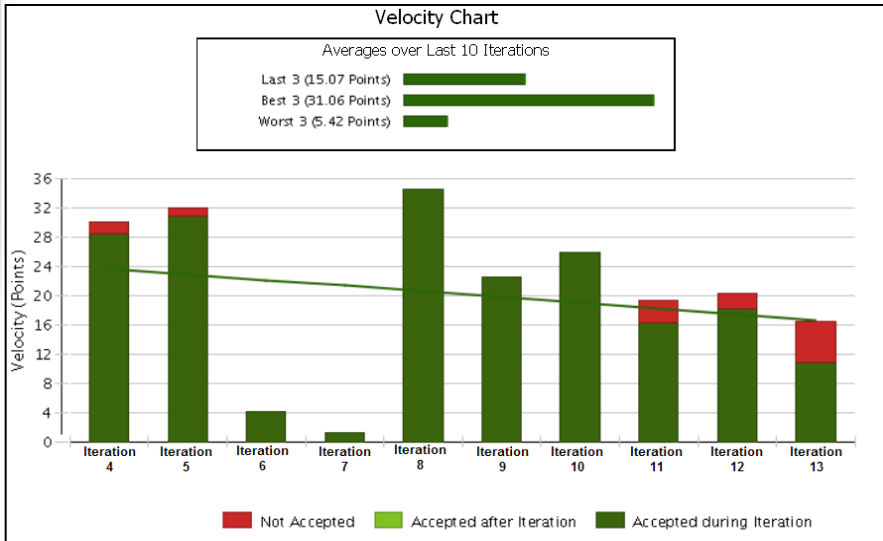
User Story 2



User Story 3

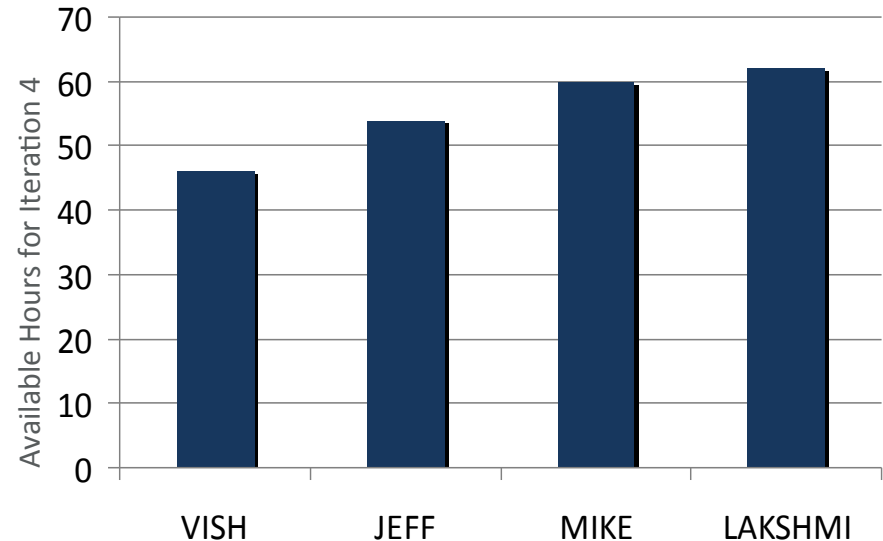
# Velocity vs. Capacity

Velocity is the long-term measure of the amount of story points completed per iteration



Velocity is used to estimate what we can finish by the **release** date

Capacity is the amount of ideal hours available to work on a story's tasks



Capacity is used to estimate what we can finish by the **iteration** deadline

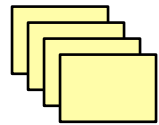
# What does this look like in release planning?

## Story Points and Velocity for Planning Releases

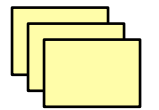
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# Fixed Date Release Planning

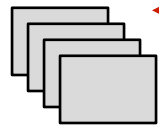
Highest Priority  
Stories On Top



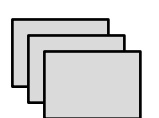
← At our Slowest Velocity, We' ll Finish Here



Might Have



← At our Fastest Velocity, We' ll Finish Here



Won' t Have

Note: the business knows the most important stories will be delivered to aid planning release activities

# Or, Fixed Scope Release Planning

Total Story Points Desired	120
Fastest Velocity	24
Slowest Velocity	20

120 points ÷

24 points/iteration =



120 points ÷

20 points/iteration =



**Time & Cost Estimate** →

# What does this look like in iteration planning?

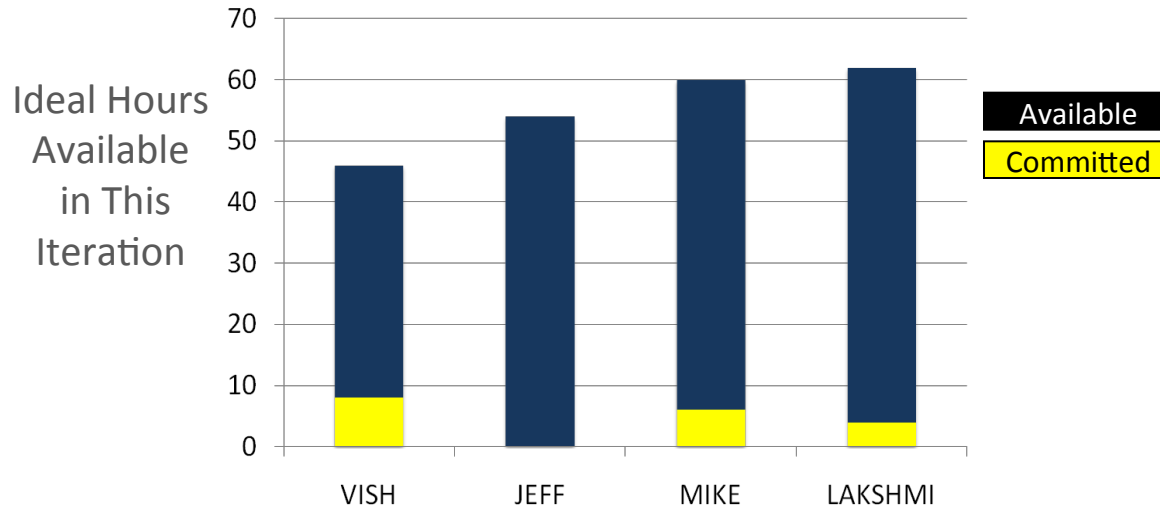
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# Story One...

Task	Estimate	Owner
Code the UI	6	Mike
Code the middle tier	8	Vish
Create and automate tests	4	Lakshmi

“CAN WE COMMIT TO THIS?”

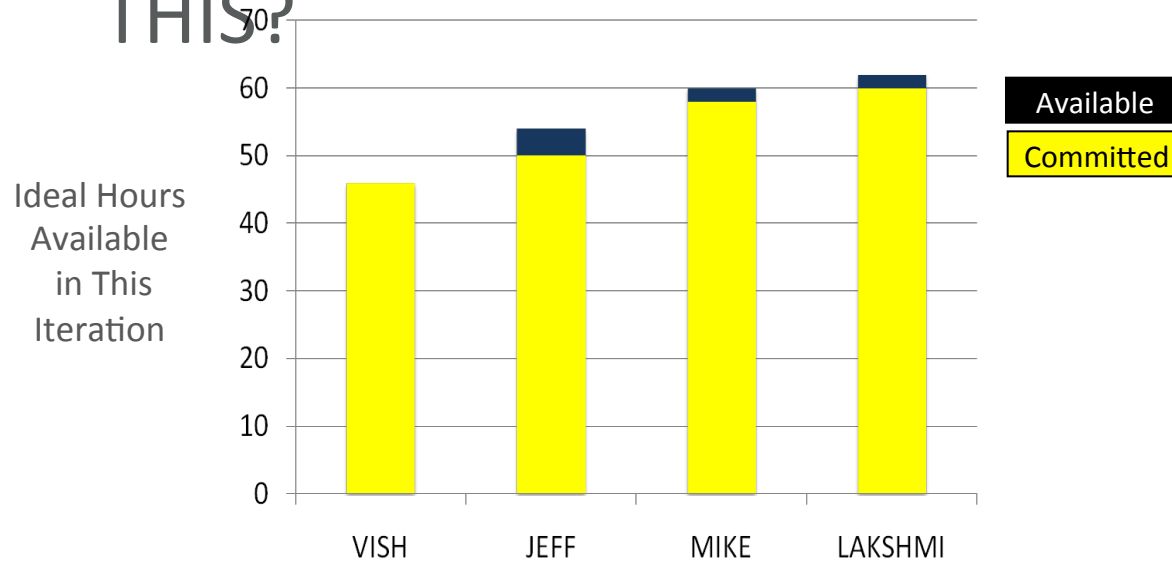




# Story Nine...

Task	Estimate	Owner
Code the UI	8	Jeff
Code the middle tier	6	Mike
Create and automate tests	3	Lakshmi

“CAN WE COMMIT TO THIS?”



# Next Steps

- Learn to estimate Duration, Size and Velocity for Good Release & Iteration Planning – Email email [info@rallydev.com](mailto:info@rallydev.com) for the Agile Estimating Exercises Guide
- Check out these other Agile Planning topics:
  - Release Planning
  - Iteration Planning