

## The Agile Movement

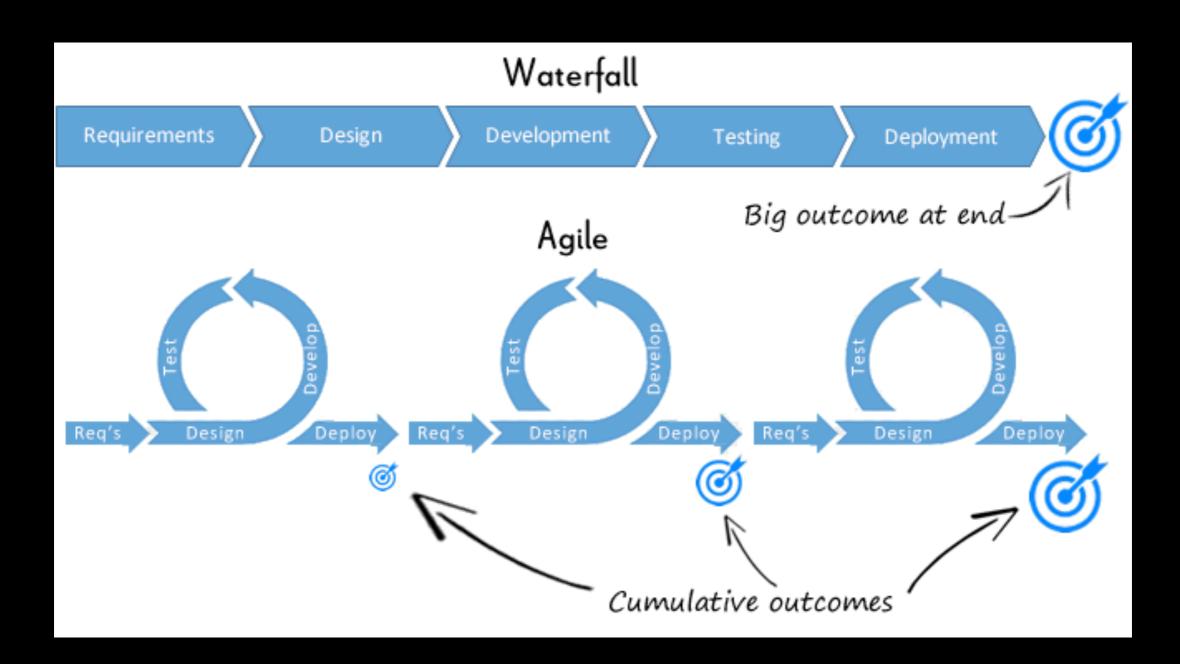


## AGILE

- Working software is primary measure of success
- Welcome changing reqts, even late in development
- Deliver working software frequently
- Regular reflections on how to become more effective



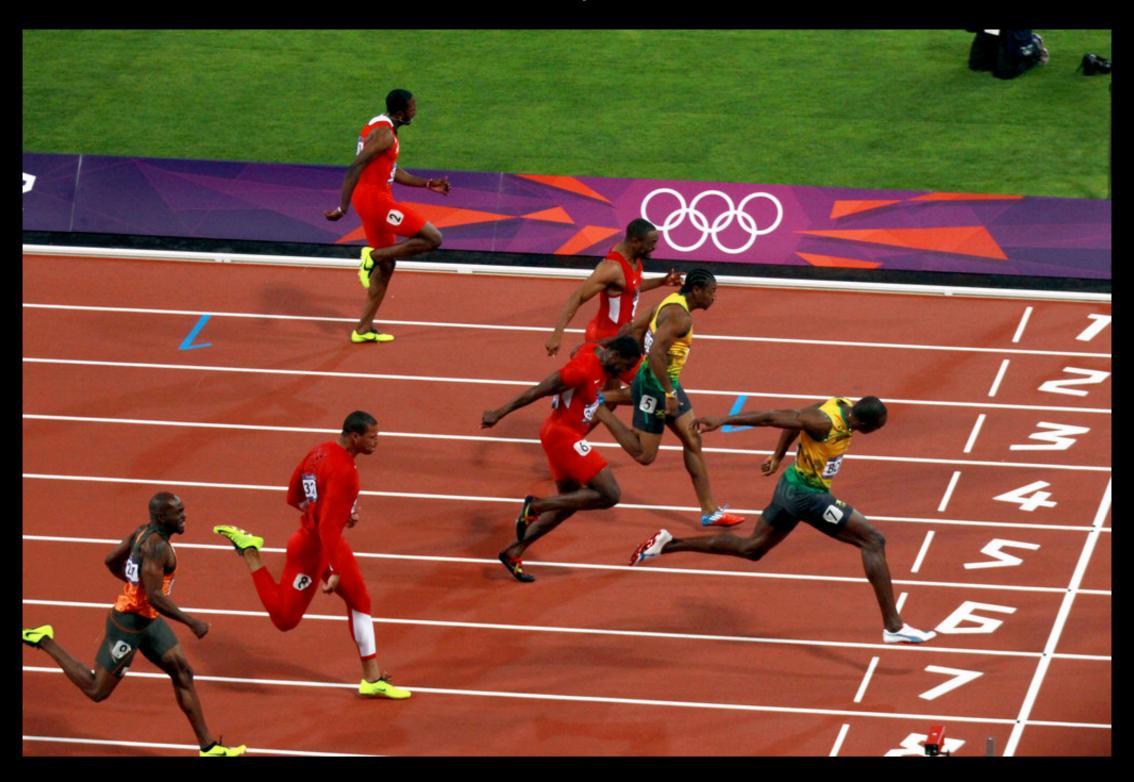
Agile vs Waterfall



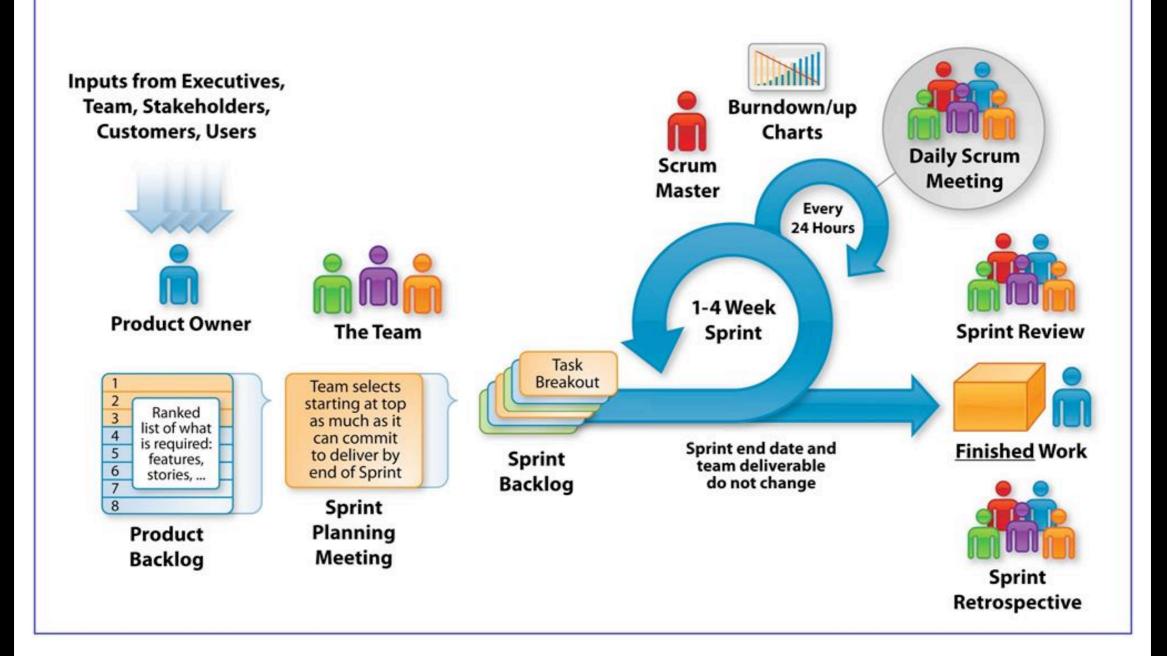


# Scrum

## The Sprint



## The Agile - Scrum Framework



# Roles

Scrum Master

Development Team

Product Owner

Chickens

#### SCRUM MASTER

## FULL-TIME JOB

#### **Program Manager 2**

Microsoft - \*\*\*\* 3,345 reviews - Redmond, WA 98052

Certified Scrum Master. Certified Scrum Product Owner. Microsoft is an equal opportunity employer. Familiarity with VSTS, ITIL, Agile and DevOps....

13 days ago - save job - more...

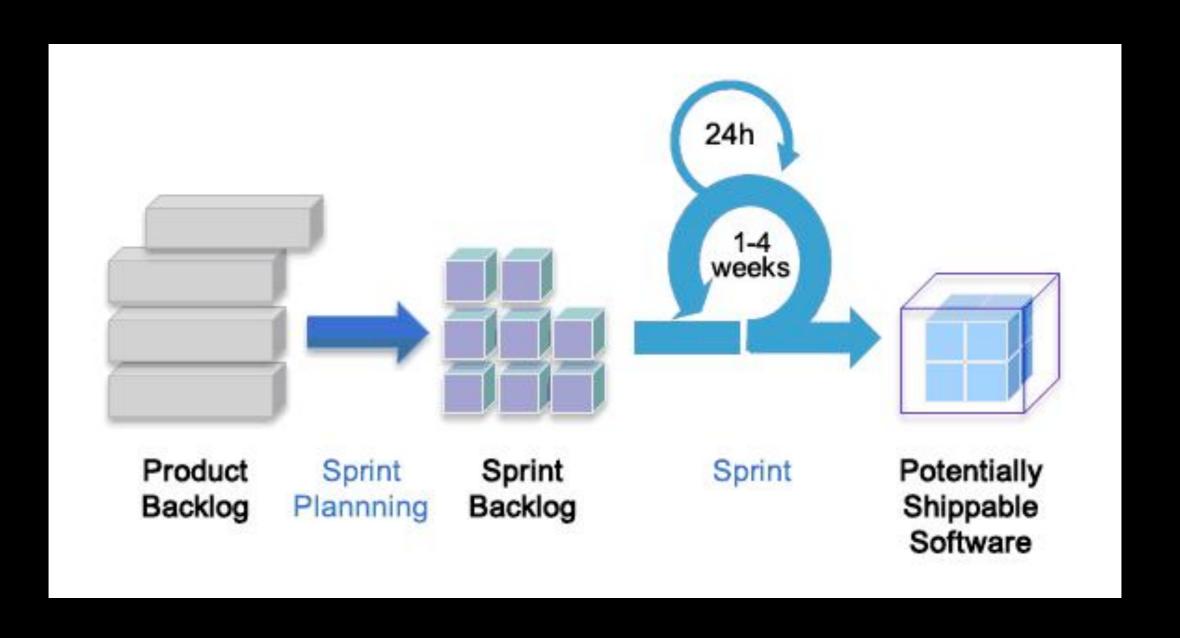
#### Senior Program Manager

Microsoft - ★★★★☆ 3,345 reviews - Redmond, WA 98052

Certified Scrum Master and preferably also Certified Product Owner. Microsoft is an equal opportunity employer....

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# Artifacts



# Product Backlog List (PBL)

A prioritized list of User Stories

# User Stories

As a (USER)
I want to (DO THIS)
so that I can (ACHIEVE THAT)

## **User Story Card example**

User Story Card example as it is used by Agile / XP teams

- · User Story statement in the front
- Acceptance criteria in the back

Front ->

As a user, I want to be able to cancel my reservation at anytime so that I do not lose all the money if an incident occurs.



- The product owner's conditions of satisfaction can be added to a story
- These are essentially tests

- Verify that a premium member can cancel the same day without a fee.
- □ Verify that a non-premium member is charged 10% for a same-day cancellation.
- U Verify that an email confirmation is sent.
- Verify that the hotel is notified of any cancellation.

## **User Stories Key Points**

- User Stories are relatively small: a few days' effort for one or a pair of Team members.
- User Stories are focused on the what (the needs of the user), not the how (the technology / development).
- User Stories are the starting point for an ongoing collaboration between the Product Owner and Development Team.
- User stories are best framed in language that users and stakeholders are familiar with.
- Not everything in the Product Backlog needs to be a User Story.

# Is it Ready?

#### **Good User Stories are INVEST**

Agile teams usually capture requirements in the format "As a <role> I want <solution> so that <value>". The whole team - business and development people together - improve stories by making them:

#### **T** ndependent

Independent stories can be freely re-ordered in the product backlog. Sometimes you can't get rid of an order dependancy but it should be an exception.

## egotiable / Negotiated A user story is the reminder to have a conversation. In that conversation the team negotiates the concrete solution, the "I want" part. The story may be enhanced or rewritten.

## Taluable / Vertical Each story adds something useful for the end user / customer - the "so that" part. This leads to vertical increments: E.g. a working slice of front end, scripts & DB, instead of a finished DB without front end.

#### **T** stimable

You need a rough effort estimate to guestimate ROI and order the backlog. If you can't estimate, you need to a) break the story into pieces or b) better understand what value it's meant to add or c) explore unknown tech in a time-boxed research spike.

#### **mall**

Small stories are easier to estimate and test and hide fewer misunderstandings. "Small" can be 1 day in a web shop or 3 person-weeks for a medical product. At the very least, the team must be able to finish a story ("done done") in 1 iteration.

## It must be possible to write a test (at least in theory) for each story. Otherwise, how will you confirm that the story is done? Sometimes test cases are given as acceptance criteria.

If you can't think of a test, the story is probably to fuzzy.

# Sprint Backlog List (SBL)

The Sprint's To-Do list

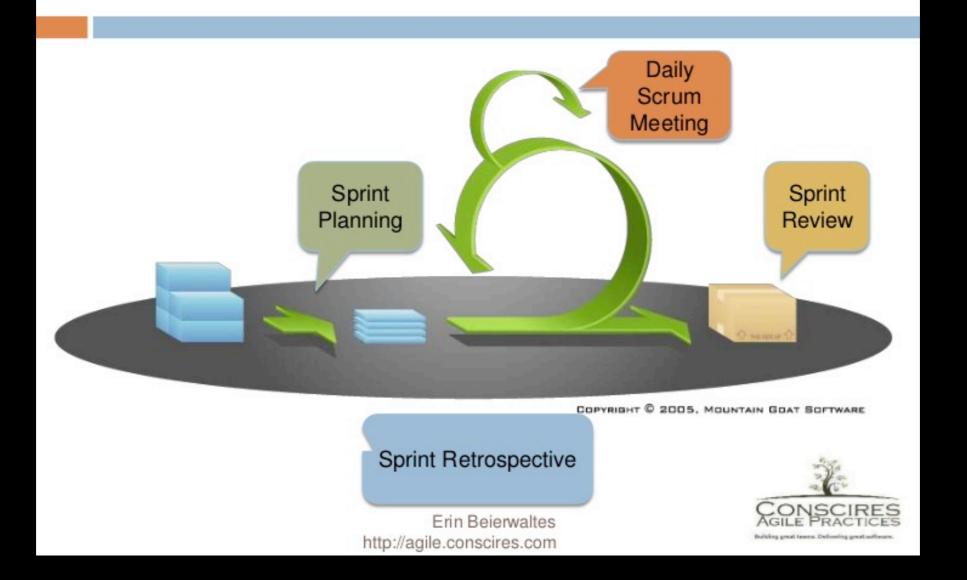


# The Increment



# Rituals

## Rituals



# Sprint Planning

Team Support % Days in Sprint	15%	-		
Team Member	Time Off Hours for Sprint	Meeting Hours/Day	Support Hours/Day	User Stories Capacity Hours for Sprint
Joe Smith	8	1	1.2	50
Jenna Martin	0	1	1.2	58
Pierre Trudeau	16	1	1.2	42
	Total Capacity	for User Sto	ries (Hours)	150

# The Daily Scrum(Standup)



### Daily Standup

- Each day during the sprint, the daily standup happens.
- The meeting starts precisely on time.
- All are welcome, but normally only the core roles speak
- The meeting is <u>timeboxed</u> to 15 minutes
- During the meeting, each team member answers three questions:
  - What have you done since yesterday?
  - What are you planning to do today?
  - Any impediments/stumbling blocks?
- It is the role of the ScrumMaster to facilitate resolution of these impediments, although the resolution should occur outside the Daily Scrum itself to keep it under 15 minutes.

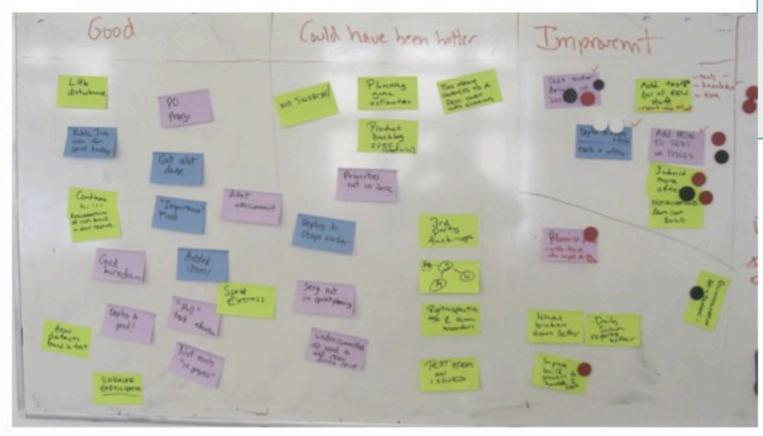


# Sprint Review



# Sprint Retrospective

### **Sprint Retrospective**



#### 3 roles

- · Product owner
- Scrum master
- Team

#### 3 artifacts

- Product backlog
- Sprint backlog
- · Sprint burndown

#### 3 activities

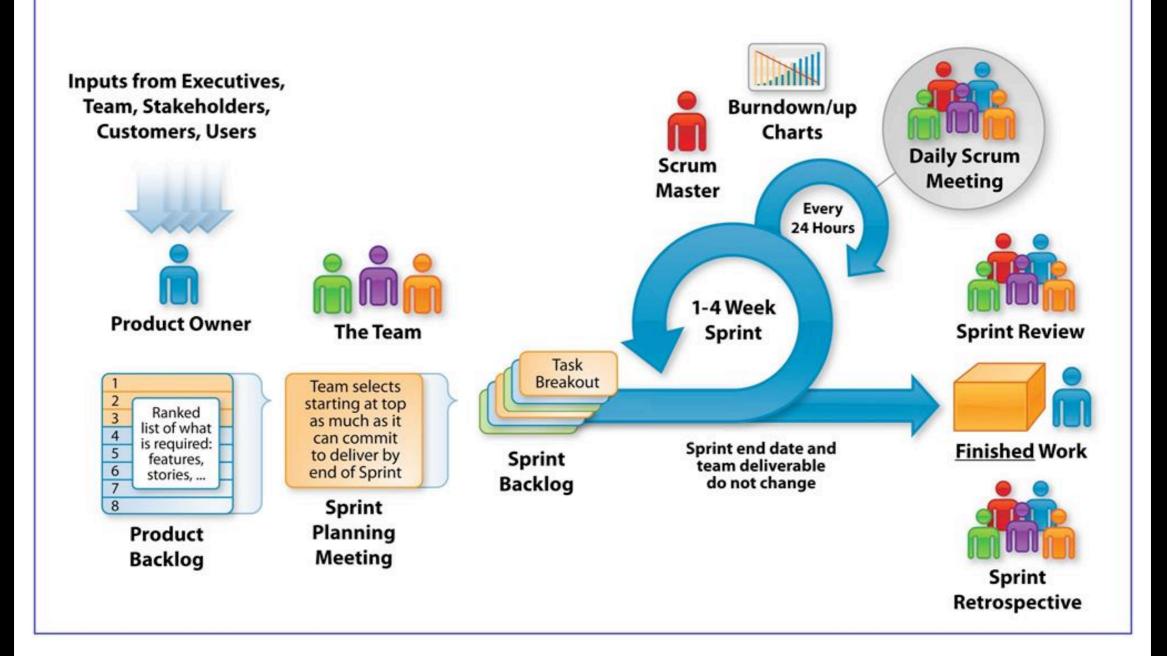
- Sprint planning
   Daily scrum
   Sprint review
  - Demo
  - Retrospective

Source: Henrik Kniberg



Monday	Tuesday	- Wednesday	Thursday	Friday
		1 Sprint Planning (up to 4 hours)	2 Daily Scrum	3 Daily Scrum
4 Daily Scrum	5 Daily Scrum	6 Daily Scrum Grooming	7 Daily Scrum	8 Daily Scrum
9 Daily Scrum All Code in QA	10 Daily Scrum Review Retrospective	1 Sprint Planning	2 Daily Scrum	3 Daily Scrum
4 Daily Scrum	5 Daily Scrum	6 Daily Scrum Grooming	7 Daily Scrum	8 Daily Scrum
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## The Agile - Scrum Framework



# You Can Scrum

**Build PBL** 

Write User Stories

Sprint Planning

Daily Scrum

Review/Retrospective

