

Agile Software Development

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Agenda

Agile software
development

Benefits of
scrum

Velocity forecast

Predictability

Story points vs
Earned values

How to set
priorities

DoD, DoR,
working
agreement

Automating
project status
and public
visibility

Agile software development



Over 2 decades of maturity / body of knowledge



Success requires discipline

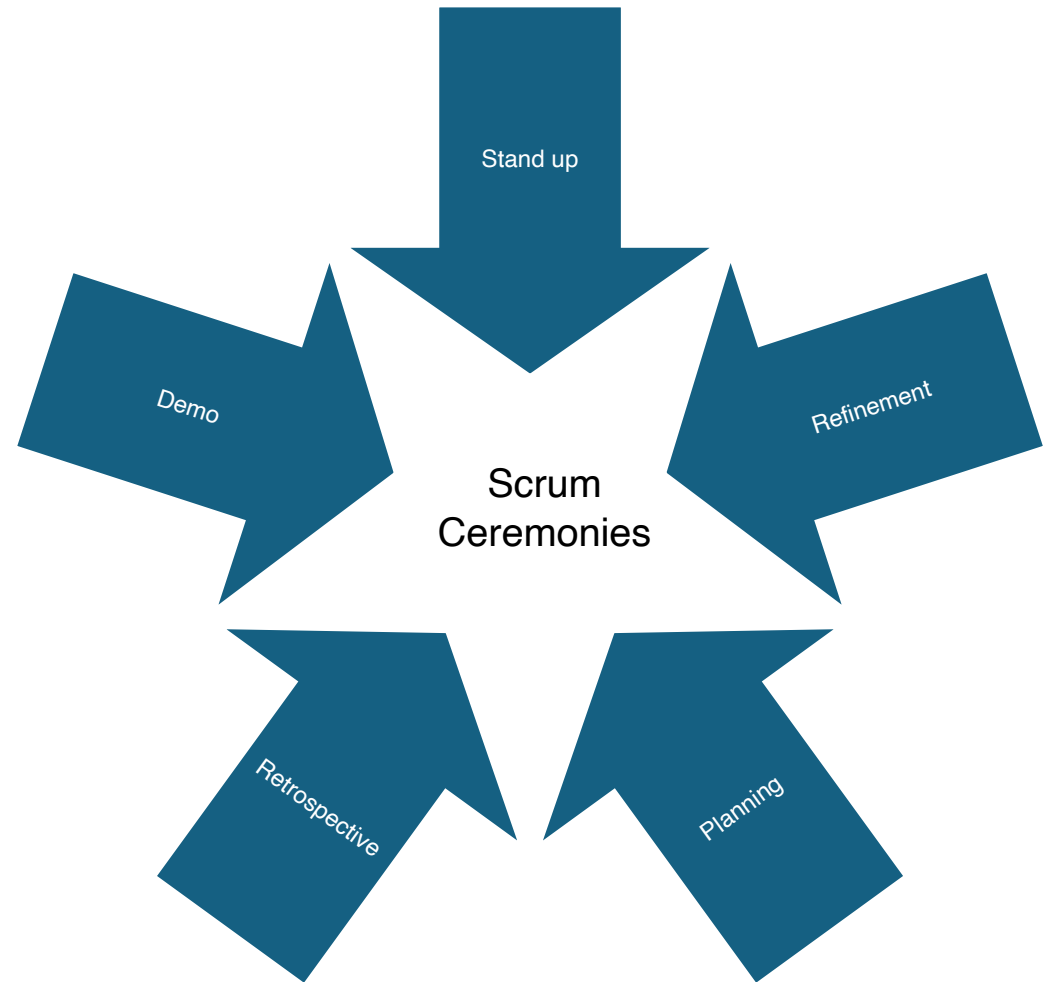


Team must establish a working agreement



Visibility matters

Process



Story points vs Earned values

Story Points

- Resource consumption
 - How much of our upcoming sprint needs to be reserved for this ticket?
 - Time + Uncertainties (risks, dependencies, unknowns, lack of requirements, etc)

Earned Values

- PM / Business stakeholders / Clients must provide the value
- *"How much would I pay you to do this work?"* (earned value points)
- Incentivizing completion

Priorities: Story Points x Earned Values

- **Stories with high EV x low story points = Easy Win!**
- **High story points x low EV = might be a poor use of resources**

What is a Spike?



QUESTIONS TO
ANSWER IN A TIME
BOXED PERIOD



SPIKE SHOULD BE
TIME BOXED TO
HOURS OR DAYS



IF THE OWNER RUNS
OUT OF TIME, REPORT
BACK TO THE TEAM



ALLOTMENT IN THE
SPIKE RAN OUT? IF
MORE INVESTIGATION
IS NEEDED, CREATE A
FOLLOW UP SPIKE
TICKET AND REFINES
THEM



SPIKE MUST HAVE
SPECIFIED
QUESTIONS



ACCEPTANCE
CRITERIA MUST
INCLUDE WHAT KIND
OF ARTIFACT IS A
NECESSARY (VIDEO,
DEMO, CONFLUENCE
PAGE, SAMPLE CODE,
ETC)

Velocity forecast



Velocity is a historical average of how many points we complete per sprint



Garbage In, Garbage Out

Discipline matters

After story is refined, brought into the sprint, the estimate can't be changed

Stories must meet acceptance criteria before being closed



Review in retrospective

"This story carried over 3 sprints. What can we learn from this?"

Contracts



Speak Up

Feel empowered to speak up to amend the contract during the refinement



Action Item

Story is immediately actionable

- Acceptance criteria well defined
- Dependencies are clarified
- Sufficient requirements



Sprint Commitment

We as a team sign up for the committed amount of work to complete each sprint



Completion

Ticket meets Acceptance Criteria (DoD)



Delivery

How much of our commitment did we complete?

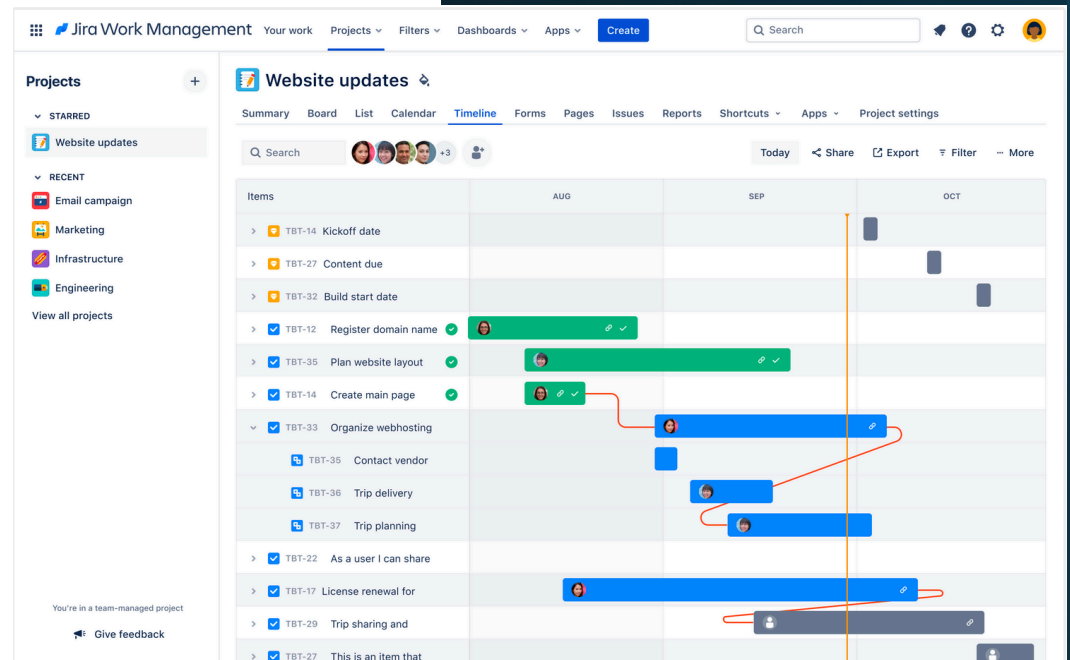
Example of DoR & DoD

- DoR
 - Requirements
 - Earned Value (priority)
 - Acceptance Criteria
 - Essential Steps
 - Dependencies
 - Data
 - External
 - Architectural
 - Knowledge
 - Environment
 - Scope
 - ...

- DoD
 - Story
 - Code
 - PR
 - Subsequent PR
 - Documentation
 - Knowledge sharing
 - Container Update
 - Production run
 - Spike
 - Answer all questions listed in the ticket
 - If follow up needed, create stories
 - Bug
 - ...

Automation

- Jira Timeline
- Automating project status and public visibility
 - Saves Dev time
 - Good bye status check questions
 - One stop for everything
 - No need to duplicate contents through Miro, Lucid, Excel spreadsheets or Meetings





Q&A