

SCRUM VS XP

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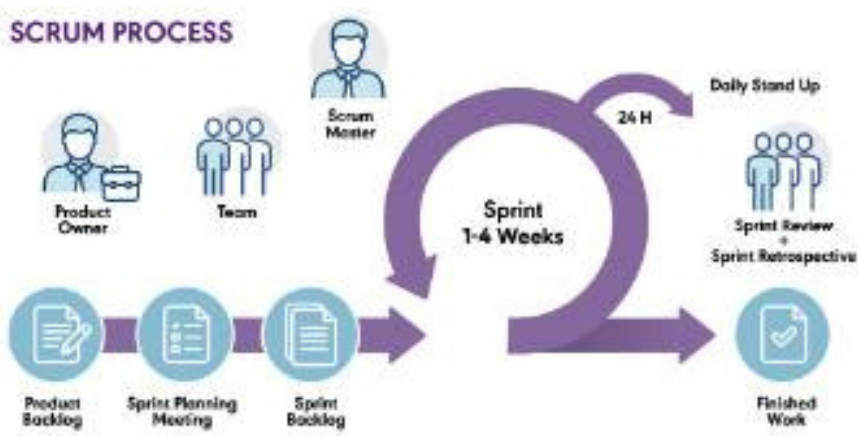
1 SCRUM

Agile method -- focusses on managing iterative development

Phases

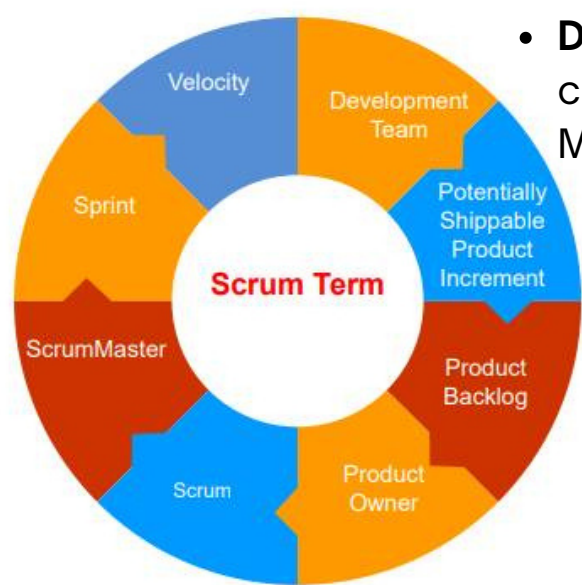
- 1 Initial**
 - Outline planning phase
 - establish objective
- 2 Series of sprint cycles**
 - cycle develops increment
- 3 Wrap up**
 - complete documentation

Process



- Each **iteration** consists of **2-4 weeks**
- Goal of each sprint -- build the most important features
- Focuses on delivering several iteration to provide stakeholder the highest business value
- Selection phase** involves all project team to select features
- Development stage** -- isolated from customer, communicate through 'Scrum Master'
- Scrum Master** -- protect development team from distraction, arranges daily meeting, tracks backlog, records decision
- End of **sprint**, work reviewed and presented to stakeholders

Terminology



2 EXTREME PROGRAMMING (XP)

Introduction

Agile software development methodology

Process & Release Cycle

- Follows an iterative and incremental process, with releases every few weeks or months.



EXTREME PROGRAMMING (XP)

Key Practices of XP

- User stories:** Used to prioritise work and ensure that the team is providing value to the customer with each iteration.
- Refactoring:** Process of making minor, incremental changes to a piece of code in order to improve its readability, maintainability, and performance.
- Test-first development:** Technique that involves writing tests before producing code to guarantee that the code works properly.
- Pair programming:** Practise of two developers working on the same code at the same computer. Pair programming helps team members increase code quality and information sharing.

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ADVANTAGES & DISADVANTAGES

ADVANTAGES	DISADVANTAGES
<ul style="list-style-type: none">Adaptability and flexibilityCreativity and innovationLower costsContinuous feedback improves customer satisfactionIncreases motivation and team satisfactionIncreased transparency often leads to higher quality work	<ul style="list-style-type: none">Need experienced team membersRequires lots of trainingDifficult to scaleHard to integrate with a classic project management approachRequire major transformation within an organization

ADVANTAGES	DISADVANTAGES
<ul style="list-style-type: none">Robust softwareFast developmentLow cost of changeError avoidanceLean productDesired ProductTeams' well-being	<ul style="list-style-type: none">Lots of effortCustomer must participateRelatively high costsLocation restrictionStress

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SCRUM VS XP

- Focuses on management; concerned with productivity
- No new changes allowed while sprint in progress
- Scrum master communicate with product owner during development
- Openness, focus, commitment

- Focuses on providing quality of software, engineering and feedback technique
- Flexibility; changes can be made by customer during sprint
- Product owner communicate with team developers
- Communication, simplicity, feedback