

0.1 Scrum

SCRUM FRAMEWORK

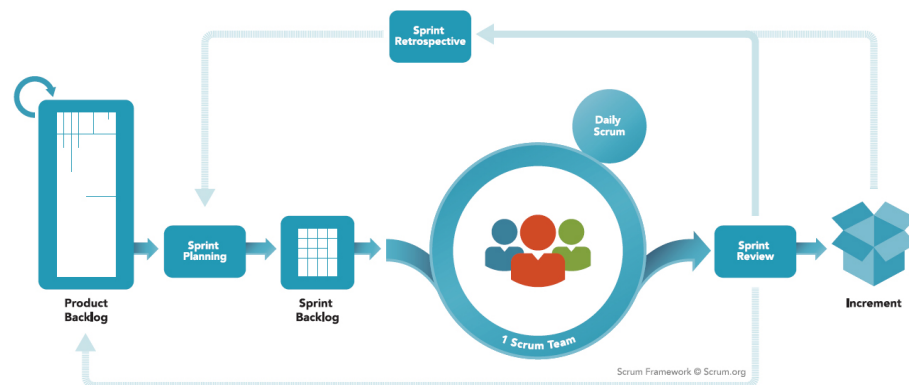


Figure 1: Scrum Overview

0.1.1 Events

- **Sprint planning meeting**
Review the features for the next Sprint
- **Daily scrum**
Daily stand-up meeting for coordination and commitment among peers
- **Sprint review**
The team presents what it accomplished during the sprint
- **Sprint retrospective**
Team discusses what they'd like to start/stop/continue doing

0.1.2 Artifacts

- **Product backlog**
A list of all desired work on the project
- **Sprint backlog**
Shows list of tasks and estimates of work remaining (h)
- **Sprint burndown chart**
Shows, during a sprint, the total work remaining per day

0.1.3 Roles

- Product Owner
 - Define the features of the product and priorities
 - Decide on release date and content
 - Accept or reject work results
- Scrum Master
 - Enact Scrum values and Practices
 - Remove impediments and external interferences
 - Ensure that the team is fully functional and productive
- Development Team
 - Does the work
 - Self-organizing
 - Typically 5-9 people, ideally full time and multifunctional

0.1.4 Agile Estimation

User story - Describes something of value to the user or the System Example:
As a student, **I want to** indicate preferences for colleagues to share the same scholar timetable, **so that** I can be more productive in group works.

Story points - Relative measure for expressing the “size” of a user story, Influenced by difficulty, risk, complexity, etc. Typically exponential.

Team velocity - The number of story points implemented per Sprint

0.2 eXtreme Programming (XP)

Developed by Kent Beck.

0.2.1 Core Values

- Communication
- Simplicity
- Feedback
- Courage

0.2.2 Practices

- The Planning Game
Developers estimate ‘size’ of each story (effort to implement)
- Small Releases
- System Metaphor
- Simple Design
- Test-driven Development
- Refactoring
- Pair Programming
- Collectice Code Ownership
- Continuous Integration
- Sustainable Pace
- On-Site Customer
- Coding Standards