0.1 Scrum

SCRUM FRAMEWORK

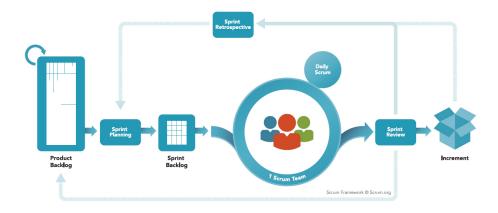




Figure 1: Scrum Overview

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
 - 1. The customer comes up with a list of desired features, that are aggregated as user stories (similarly to Scrum).
 - 2. The developers sort them using story points, so as to know which are easier/harder to implement.
 - 3. Using this information and project velocity (total story points done per iteration), the customer prioritizes which features 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