

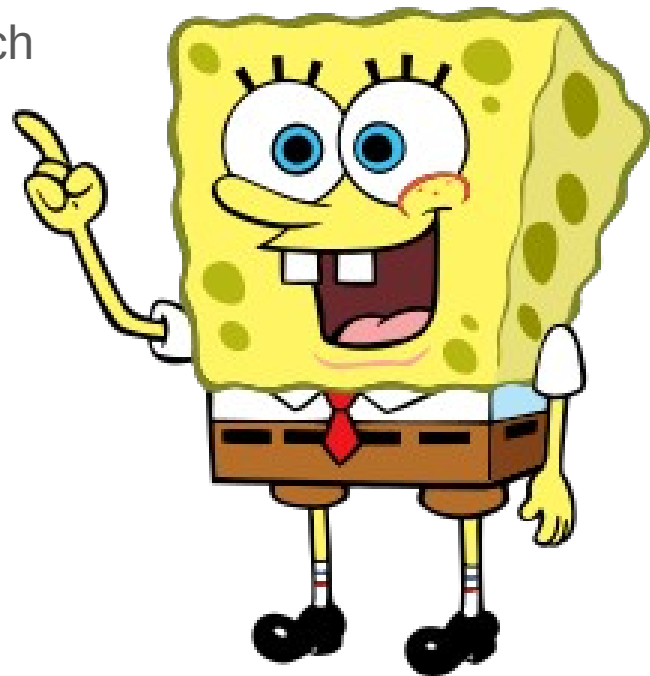


Scrum vs. XP

A quick introduction and comparison

Scrum Overview

- Scrum is an AGILE software development approach
 - iterative & incremental development
 - working software
 - release planning
 - iteration planning
 - daily meetings
 - retrospectives
- Scrum is a set of management principles ...
 - practices
 - processes
 - ... to complete a project - ANY project



Scrum Roles

- Product Owner
 - Understands the customer's needs & the business value
 - Creates & prioritizes the product backlog (Req. \Rightarrow User Stories)
 - Responsible for Return on investment (ROI)
 - Release plan
 - Responsible for the final product



Scrum Roles

- The Team
 - Self organized
 - Cross functional
 - Every team member is jointly responsible for the team's success:
 - SW-Quality
 - Technical implementation of the User Story
 - Delivery of functional Software (Testing/verification/validation)



source: <http://manifesto.co.uk>

Scrum Roles

- Scrum Master
 - Responsible for the Process
 - Facilitates the agile process of the company and the team
 - Keeps track of team process
 - Removes impediments
 - Scrum Master is NOT part of the team
 - NOT the BOSS





Scrum Artifacts

- **Product Backlog**

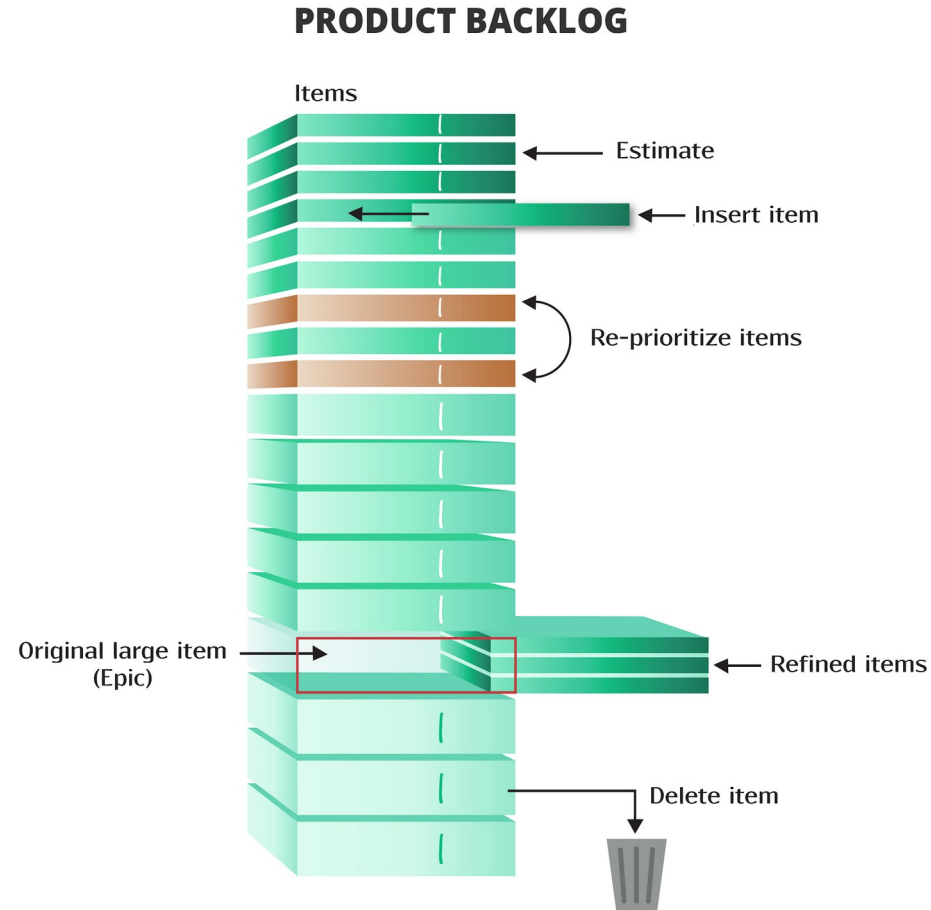
- Everything wanted for the entire product
- Requirements are broken into chunks and written as User stories (As a user I want ...)
- Constantly changing and in revision
- Prioritized

- **Sprint Backlog**

- All committed stories the team works on in the iteration
- Broken into tasks (Scrum board)
- prioritized and estimated

- **Burndown Chart**

- Shows the remaining work



Sprint

- The actual iteration lasting 1-4 weeks (usually 2-3 weeks)
- At the beginning the planning meetings take place
- The development takes place
- The daily Scrum takes place
- The sprint review takes place
- The Retrospective takes place
- IMPORTANT that there is NO overtime (to keep a consistent the pace)

Scrum Meetings

- Sprint planning meeting
 - PO selected stories are discussed
 - Team selects stories they believe can commit in sprint
 - Roughly estimate
- Often Sprint Planning is split
 - Sprint Planning 1 (mainly PO-Dev meeting)
 - Discussion of Stories
 - Sprint Planning 2 (more a Dev-meeting)
 - Break stories into tasks
 - Provide detailed/revised estimates
 - Set the scope and final commit to stories

Scrum Meetings

- Daily Standup Meeting
 - Who:
 - whole team attends (mandatory)
 - anyone MAY attend (e.g., PO)
 - Timeboxed (15 min)
 - Purpose:
 - Share progress with the whole team
 - Everyone answers three Questions
 - What have I done
 - What were the problems/Where do I need help
 - What will I concentrate on today
 - Lead by Scrum Master
 - Update burndown chart

Scrum Meetings

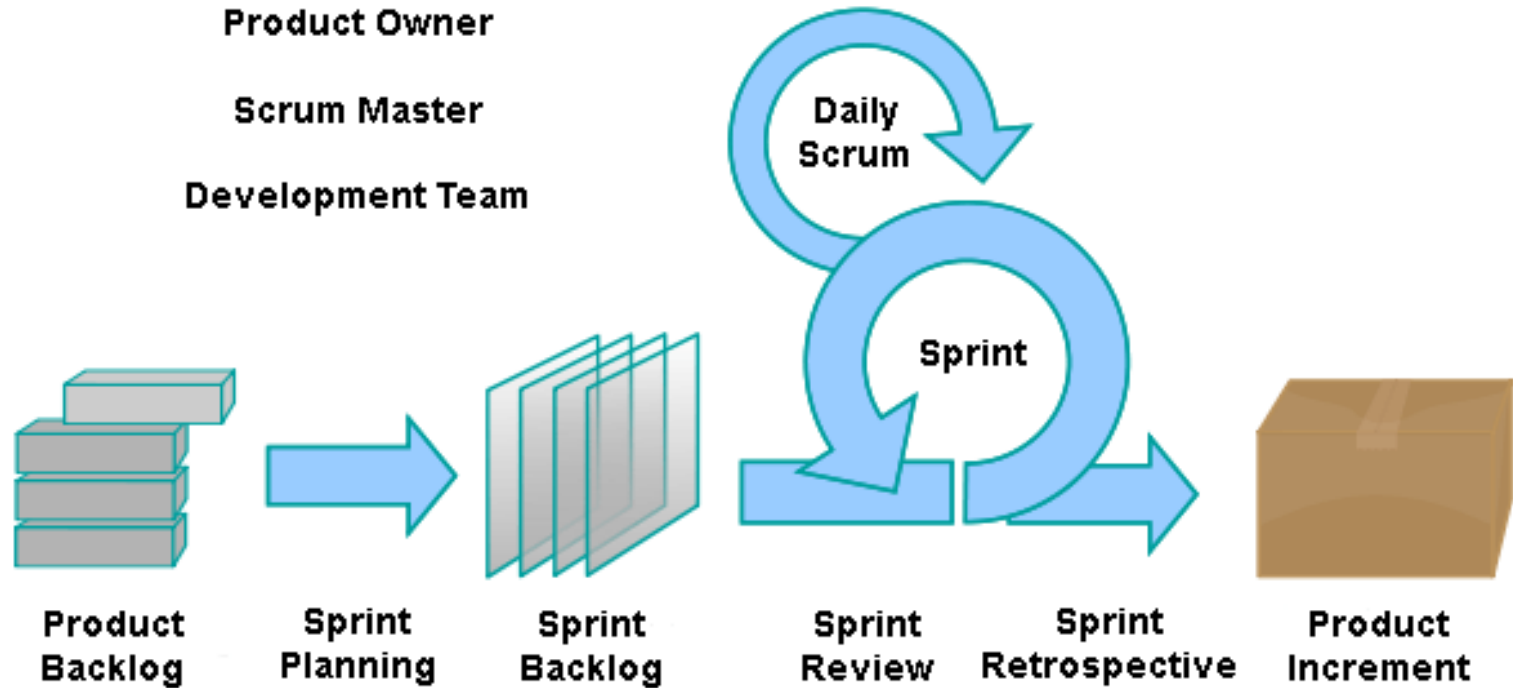
- The Sprint Review

- PO uses the sprint's potentially shippable product increment (without guidance) => provides feedback
- Developers may also demo work
- Team owns up to deficiencies with the product helping to build trust with the Product Owner

- The Team Retrospective

- Internal reviews
 - what went well
 - what must be improved
- Use retrospection techniques to find potential for improvement.
- Prioritize Focus areas for improvement
- Pick a driver for improvements

The Scrum cycle (says it all)

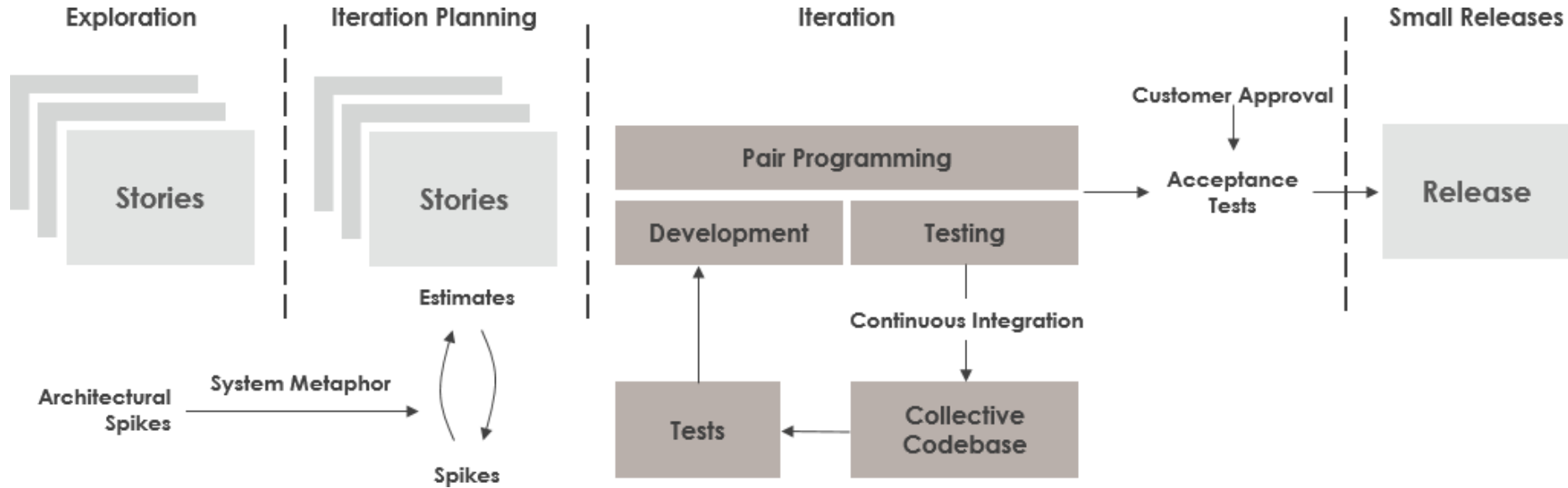


XP Overview

“XP is a lightweight methodology for small to medium sized teams developing Software in the face of vague or rapidly changing requirements”

Kent BECK

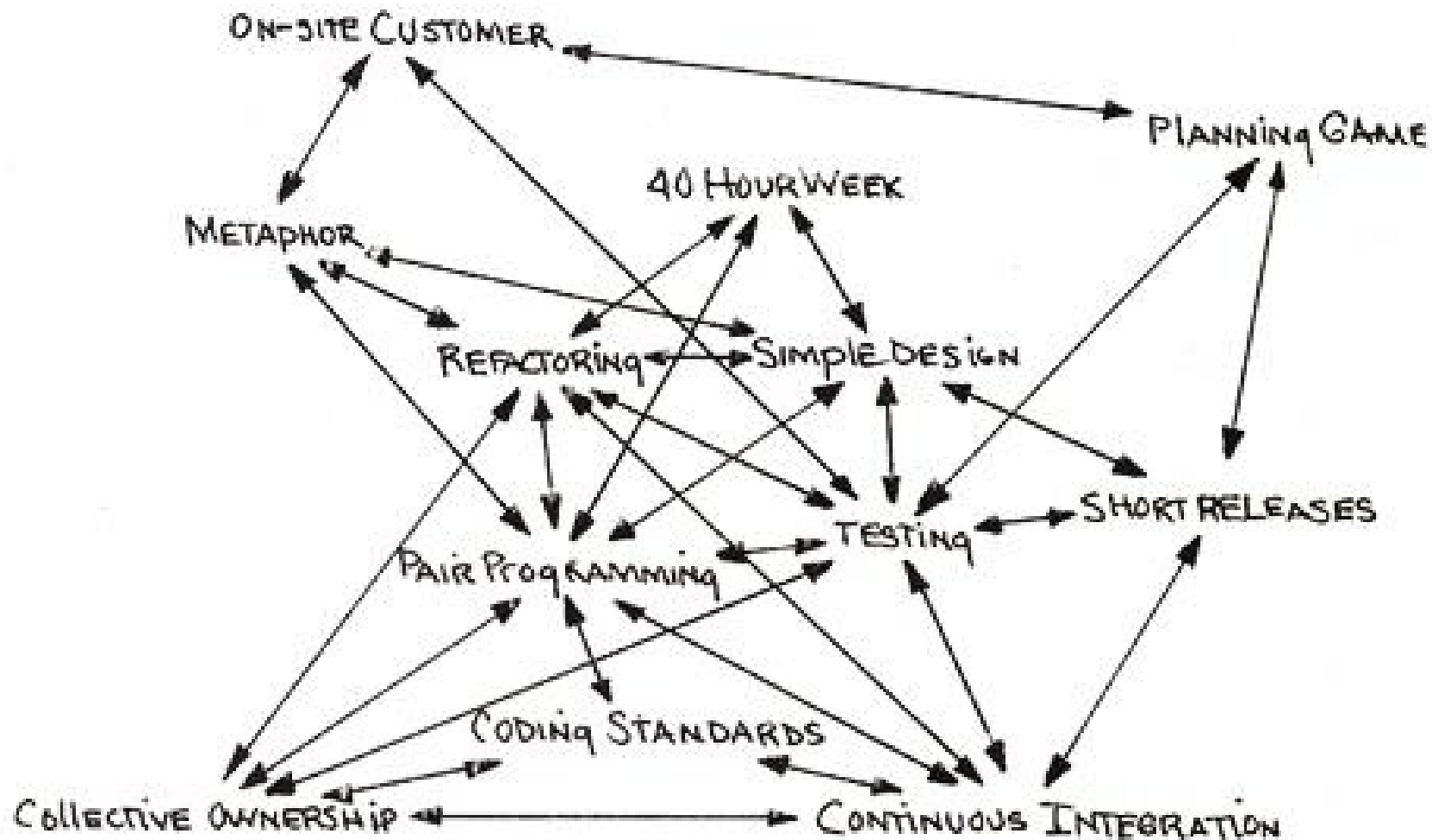
The XP cycle (says it all)



Working Software - How?

- **XP practices**

- *Whole Team*
- Planning Game
- Small Releases
- **Customer Tests**
- **Coding Standards**
- Sustainable Pace
- Metaphor
- **Continuous Integration**
- **Collective Code Ownership**
- **TDD**
- **Refactoring**
- **Simple Design**
- **Pair Programming**



Differences between Scrum and XP - 1

- Iteration
 - Scrum Sprints: 1-4 (usually 2-3 weeks)
 - XP iterations: 1-2 weeks
- Change
 - Scrum teams usually do NOT allow changes during the sprint (has changed ;-)
 - XP: Embrace change
When not in progress it is OK to swap features of equivalent size
- Prioritization
 - XP teams work in strict priority order
 - Scrum teams - not necessarily they have freedoms (although rarely do)
- Scrum doesn't prescribe ANY engineering practices
 - XP does

Conclusion

Best of all Worst of None

Master Ken

- Use scrum as a framework
- Implement the XP practices
 - Don't enforce them, coach them



source: <https://blackbeltmag.com/wp-content/uploads/black-belt-photo-master-ken-150.jpg>

References & Sources

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