



Agenda

- Agile Manifesto & Principles
- Scrum & Scrum Roles
- Scrum Ceremonies
- User Story & Acceptance Criteria
- DoD & DoR
- Estimation Techniques
- Metrics: Burn Down & Burn Up Chart, Velocity

Let's get started

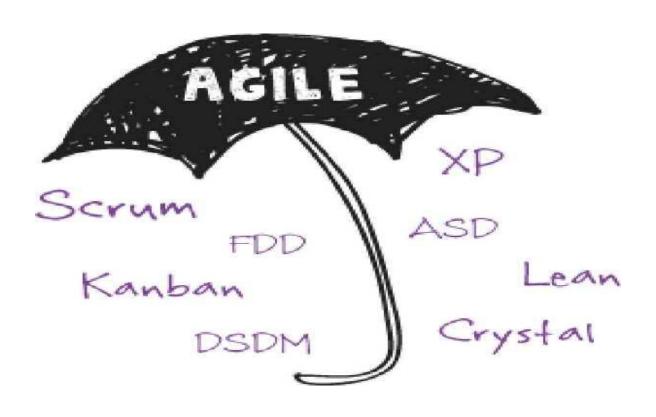


01 / Agile Introduction

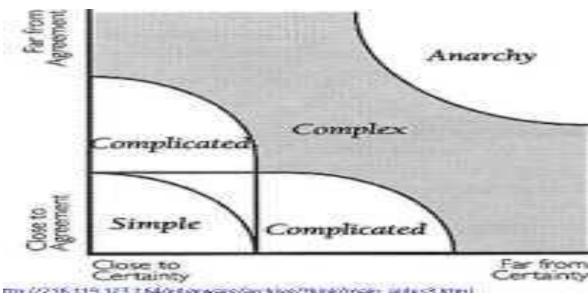
01 / Agile Introduction

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What and Why Agile?



Agile is a mindset- a set of values and principles.



 Agile Frameworks like Scrum are better suited to deal with Complex problems where there is lot of ambiguity and would need inspect, adapt cycles to shape the product. Scrum can be used in Simple, Complicated problems as well. However, Scrum may not be effective while dealing with anarchy systems

Agile Manifesto



Individuals, Interactions **OVER** Processes and Tools

Working software **OVER** comprehensive documentation

Customer collaboration **OVER** contract negotiation

Change to respond **OVER** following a plan

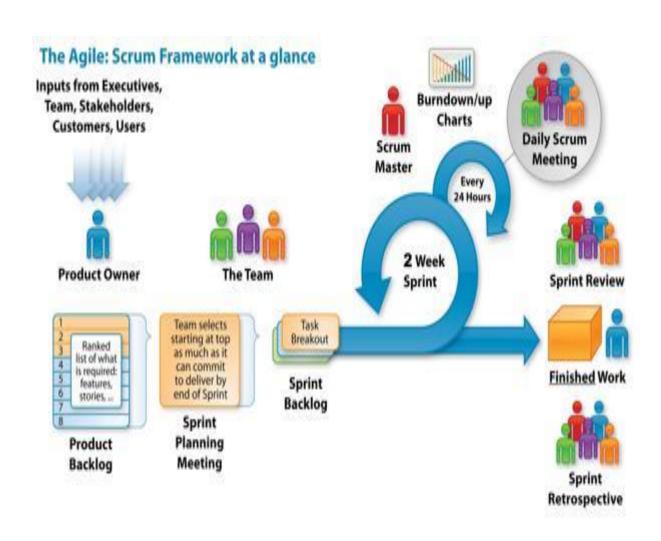
Agile Principles



- 1. Our highest priority is to **satisfy the customer** through early and continuous delivery of valuable software.
- 2. Welcome changing requirements, even late in development. Agile processes harness change for the customer's competitive advantage
- 3. **Deliver working software frequently**, from a couple of weeks to a couple of months, with a preference to the shorter timescale.
- 4. Businesspeople and developers must **work together daily** throughout the project.
- 5. Build projects around motivated individuals. Give them the environment and support they need and trust them to get the job done.
- 6. The most efficient and effective method of conveying information to and within a development team is **face-to-face conversation**.
- **7. Working software** is the primary measure of progress.
- **8. Agile processes promote sustainable development**. The sponsors, developers, and users should be able to maintain a constant pace indefinitely.
- 9. Continuous attention to technical excellence and good design enhances agility.
- **10. Simplicity**—the art of maximizing the amount of work not done—is essential.
- 11. The best architectures, requirements, and designs emerge from **self- organizing teams**.
- 12. At regular intervals, the team reflects on **how to become more effective**, then tunes and adjusts its behavior accordingly.

Scrum Framework

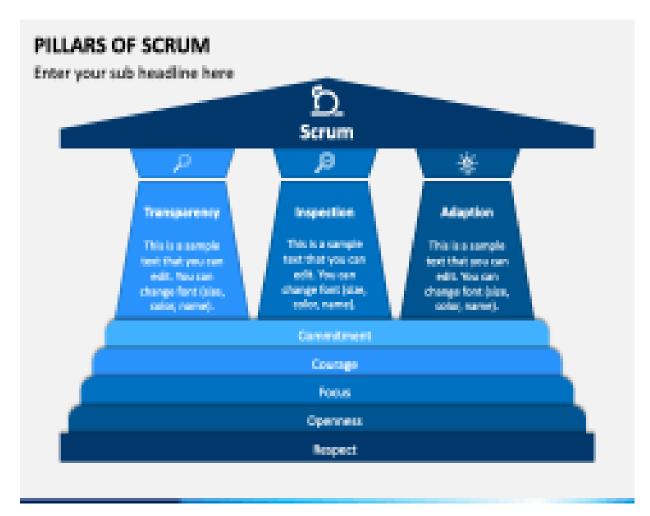
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Scrum is a development framework based on empirical process control wherein self organizing and cross functional teams deliver potentially shippable product increment every thirty days or less. Scrum employs iterative and incremental approach to optimize value delivery and to manage risks.

Pillars of Scrum





Scrum is founded on empiricism and the three pillars of empiricism are **transparency**, **inspection**, **adaptation**. The values that make a scrum team successful are **Focus**, **Openness**, **Respect**, **Courage**, **and Commitment**.

Scrum Roles, Ceremonies & Artifacts



• Scrum roles:

- ➤ Product Owner
- ➤ Scrum Master
- ➤ Development Team

Scrum Ceremonies:

- ➤ Product Backlog Refinement
- ➤ Sprint planning
- ➤ Sprint Retrospective
- ➤ Daily Scrum
- ➤ Sprint review

Artifacts:

- Product Backlog
- Sprint Backlog
- Product Increment

Scrum Role: Product Owner

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Responsibilities

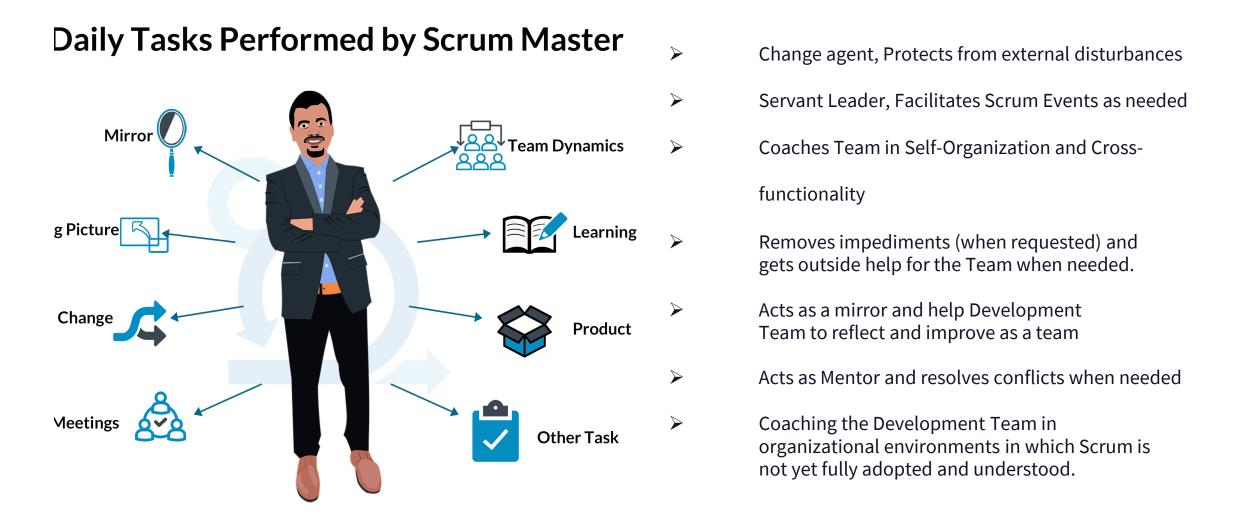


- > is one person, not a committee or group of people
- ➤ Have product vision
- > Owns Budget and Responsible for the success of the Product.
- Part of Scrum Team closely works with the Development Team and ScrumMaster throughout the Sprint.
- Owns Product Backlog and directs Product development through Product Backlog prioritization.
- Strives to maximize the value delivered by the Development Team each Sprint.
- Ensures Product Backlog is visible, transparent and clear to all and shows what Scrum Team will work on next.

Scrum Role: Scrum Master

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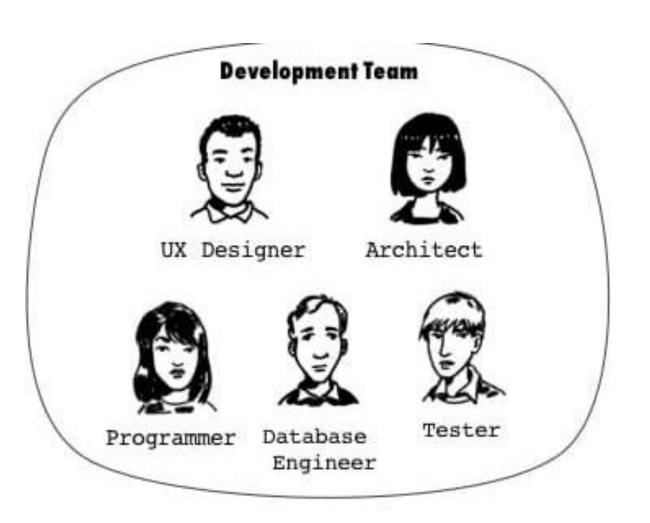
Responsibilities



Scrum Role: Development Team

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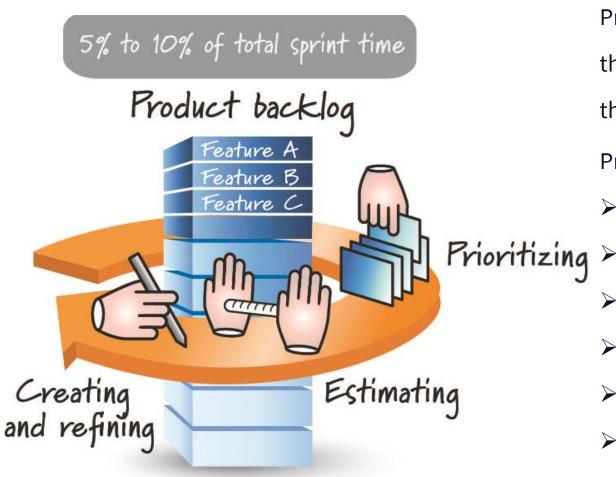
Responsibilities



- All professionals with the skills required to create the working product are part of Development Team.
- Primary responsibility of the Development Team is to deliver a potentially shippable product increment at the end of each Sprint.
- Self-Organizing -> empowered to manage, organize their own work to create potentially shippable product.
 Development team alone determine "how" to build to accomplish the Sprint Goal.
 - Cross-functional -> Have all the skills necessary as a team to create a product increment.

Scrum Ceremony: Product Backlog Refinement





Product Backlog Refinement is an ongoing process in which the Product Owner and Development Team collaborate on the details of the Product Backlog items

Product Backlog Refinement may include

- Adding or removing items to the Product Backlog
- Ordering/Re-ordering items in the Product Backlog
- Estimating Product Backlog Items (PBI)
- Reviewing, Revisiting PBIs.
- Splitting PBIs into smaller PBIs
- Merging PBIs into larger PBIs

Product Backlog Refinement Process

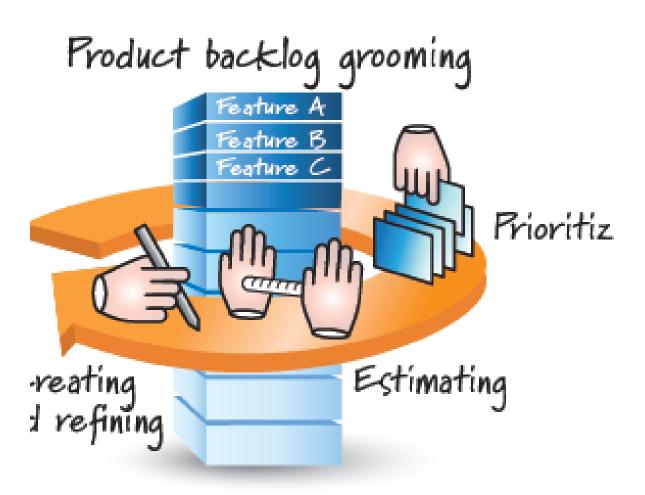
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PRODUCT BACKLOG REFINEMENT PROCESS



Backlog Grooming

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User Story & Acceptance Criteria

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User Story

As a <role>
I want <goal>
so that <benefit>

Acceptance criteria:

(Conditions of Satisfaction)

••

...

As an Account Manager

I want a sales report of my account to be sent to my inbox daily

So that I can monitor the sales progress of my customer portfolio

Acceptance criteria:

- 1. The report is sent daily to my inbox
- 2. The report contains the following sales details: ...
- 3. The report is in csv format.

ID: <> Title: <> Description: As a <user> I want to <take some action> So that <I could accomplish my goal> Acceptance Criteria: Given <Actor is somewhere> When <Actor does something> Then <An event happens that marks the end-user interaction> Given <> When <> When <> Then <> Then <>

Scenario	The type of behavior that will be addressed					
Given	The situation at the outset of the scenario					
When	An action undertaken by the user					
Then	The outcome of the user action					
And	Any continuation of the previous statements					

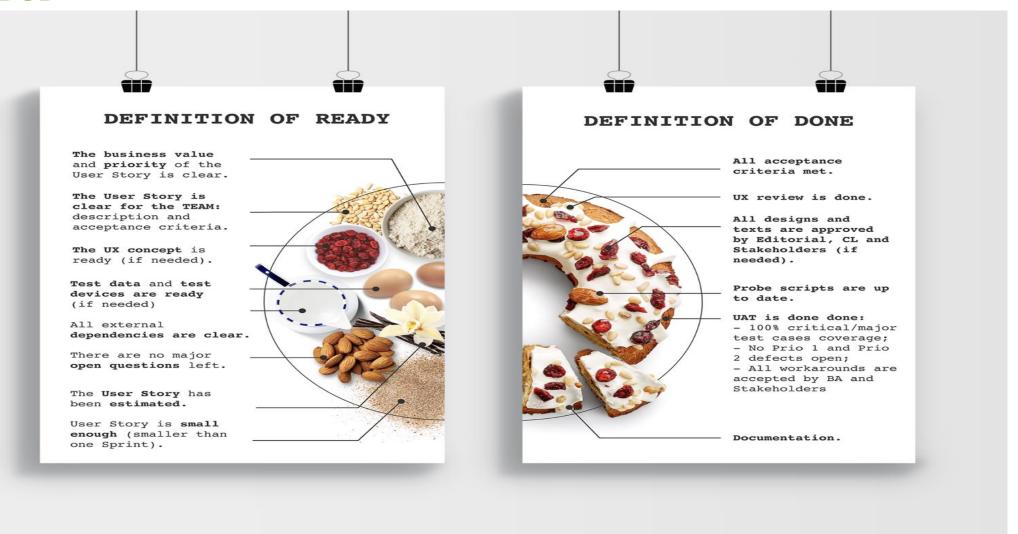
For example:

Scenario	A coach needs to generate reports on her athletes so she can evaluate their improvements over time
Given	An athlete's current assessment is X , and
When	Past assessment findings were Y,
Then	Compare the two assessment findings and determine the performance increase/decrease
And	Generate a detailed report on the athlete's
	progress

Definition of Ready & Definition of Done

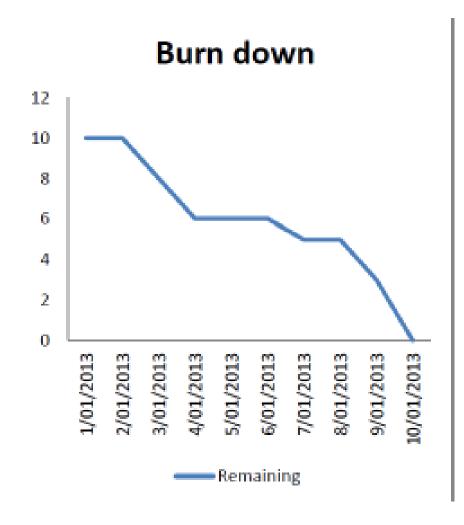
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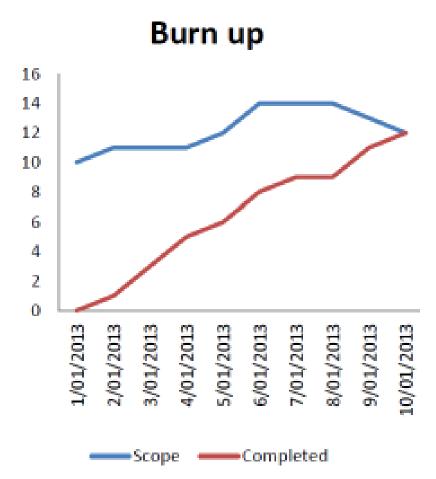
DoR & DoD



Metrics: Burn Down Chart & Burn Up Chart

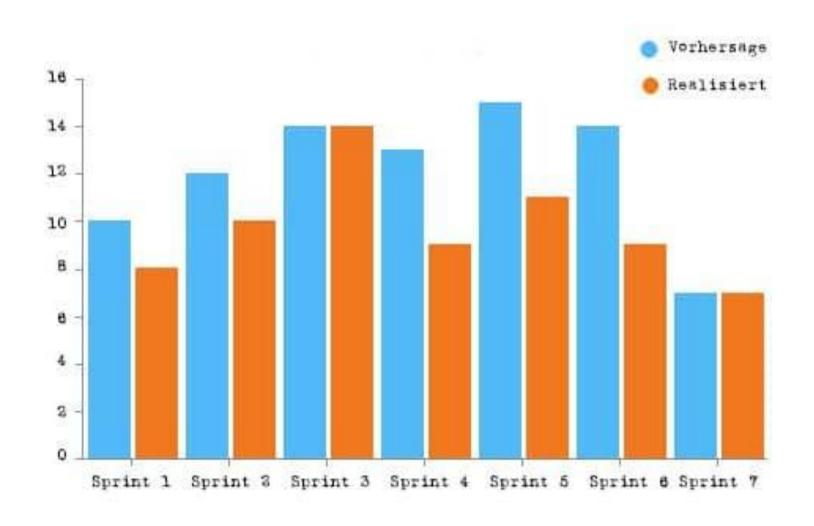






Metrics: Velocity looks like

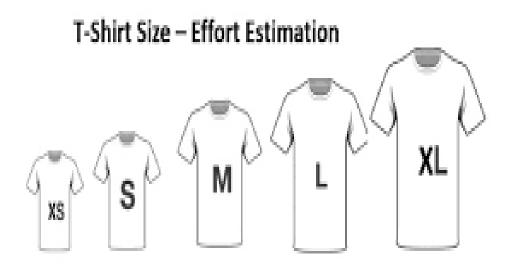
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Estimation

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T-shirt Size & Story Point Estimation



T-Shirt Size	XS	S	М	L	XL
Estimate	1	2	3	5	8

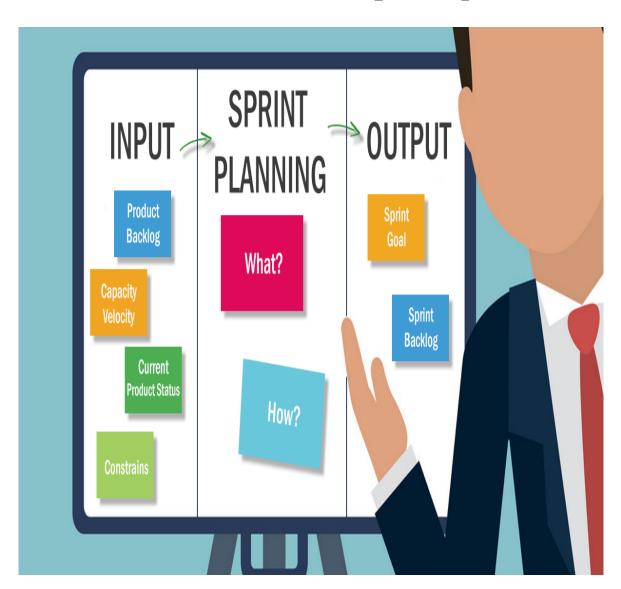
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Story Points	1	2	3	5	Should be split into smaller items	13 Must be split into smaller items
How much work effort	Less than 2 hours	Half a day	Up to two days	Few days	Around a week	More than
Dependencies	None	Almost none	Some	Few	More than few	Unknown
How much is known about the task	Everything	Almost everything	Something	Almost nothing	Nothing	Nothing

To get story points - pick the column which represents your task the best. If it fits more than one column, pick higher one.

Scrum Ceremony: Sprint Planning

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Who: Scrum team(SM, PO & Dev Team)

When: At the beginning of the Sprint

Time-Box: Maximum of 2 hours for a 2 weeks Sprint

Input: Product Backlog, latest product increment, Definition of Done, Team Capacity, Team past performance

Outcome: Sprint Backlog, Sprint Goal, Shared understanding of work that would be undertaken during the Sprint

Scrum Ceremony: Daily Scrum



Daily Scrum Meeting













Full team presence

Focus on 3 questions

3 Main Questions:

- 1. What did I do yesterday?
- 2. What will I do today?
- 3. What's in my way?

Scrum Ceremony: Sprint Review



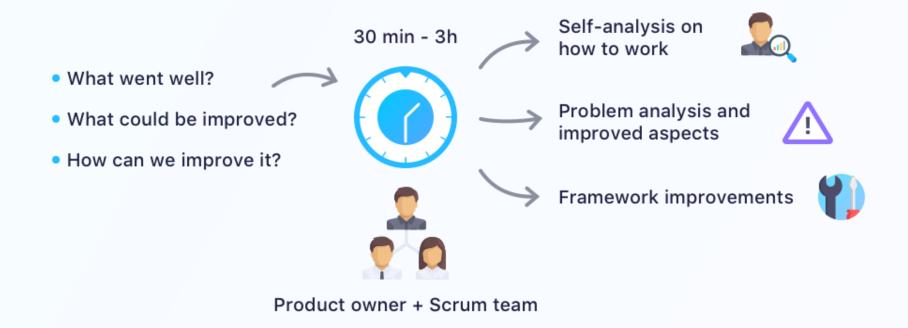


Scrum Ceremony: Sprint Retro



Sprint Retrospective

Meeting after Sprint Review to review processes



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Thank you

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