

# Agenda

- Agile.
- Scrum Framework
- JIRA Demo
- Test Management Tool **Zephyr Demo**
- Web Fundamentals



**Commitment!**  
**Block at least**  
**4 hour Per Week.**



# Agile

Ability to Move easily and quickly.

**Agile is the ability to create and  
respond to change.**



# Agile

It is a way of dealing with, and ultimately succeeding in, an uncertain and turbulent environment.



# Agile software development

Agile software development is an **umbrella term** for a **set of frameworks and practices** based on the values and principles expressed in the Manifesto for Agile Software Development and the 12 Principles behind it.

<https://www.agilealliance.org/agile101/>



# Agile software development

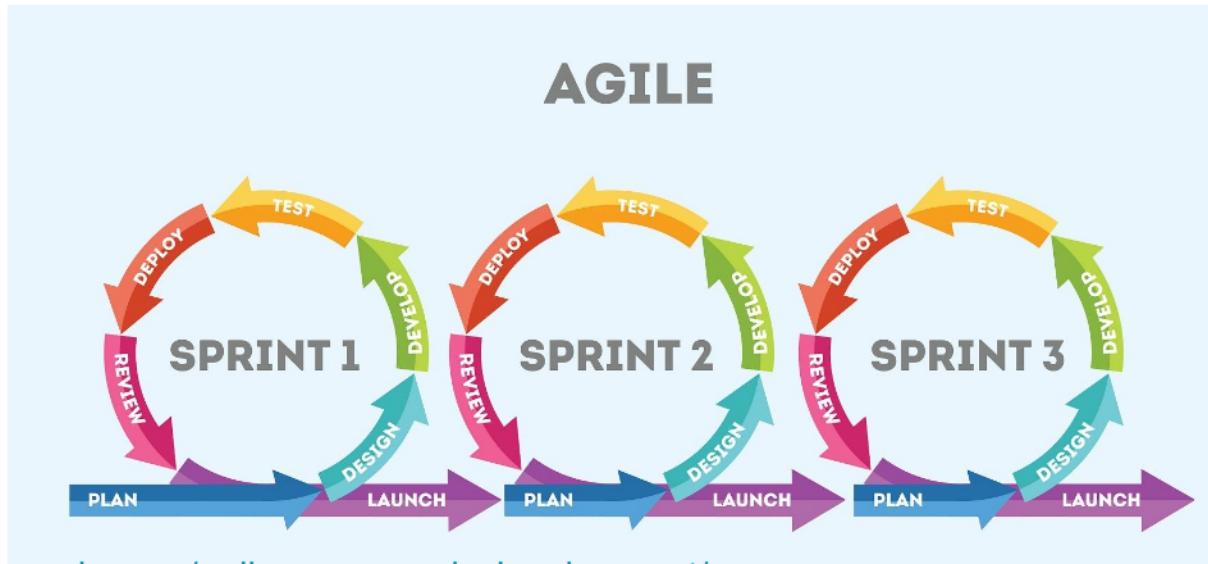
Agile software development is more than frameworks such as **Scrum**, Kanban, Extreme Programming, or Feature-Driven Development (FDD).

Agile software development is more than practices such as pair programming, **test-driven development**, stand-ups, planning sessions, and sprints.

<https://www.agilealliance.org/agile101/>

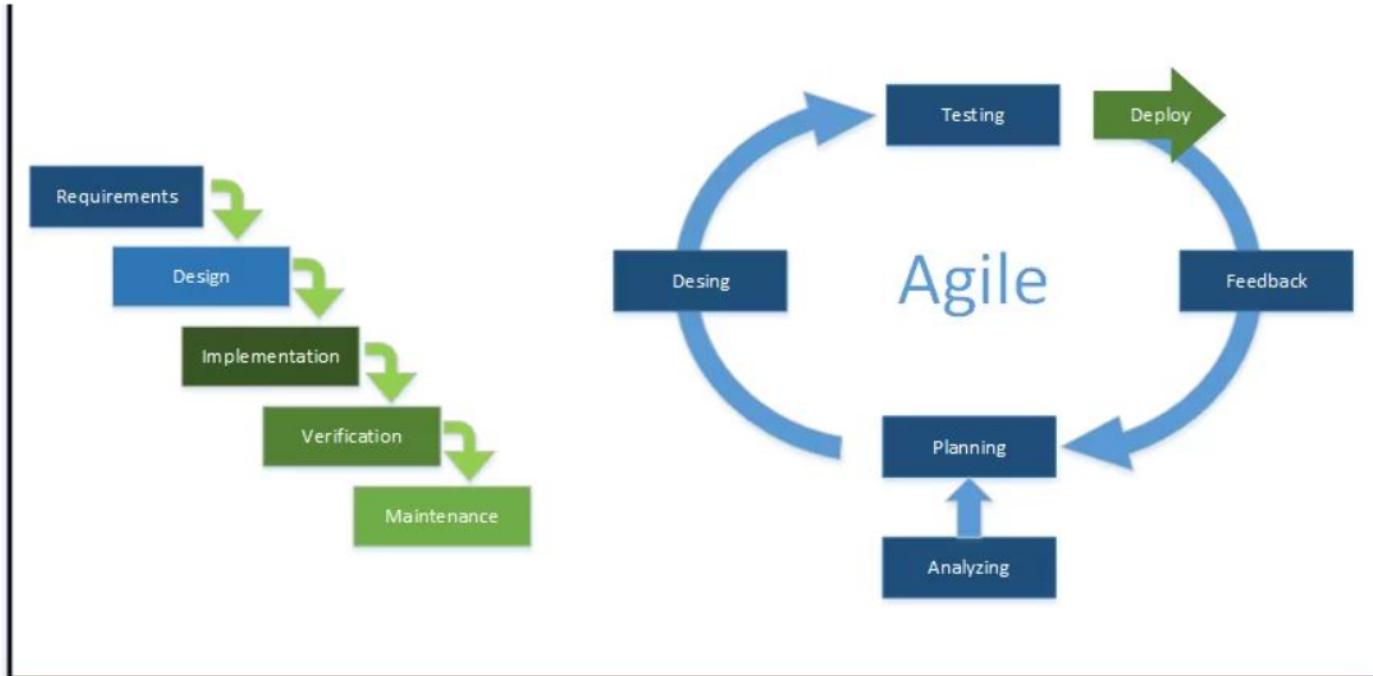
# Agile

Agile is an **iterative approach** to project management and **software development** that helps teams deliver value to their customers faster and with fewer headaches



<https://www.neonrain.com/agile-scrum-web-development/>

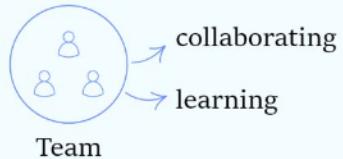
# Waterfall vs Agile



# Agile vs Waterfall

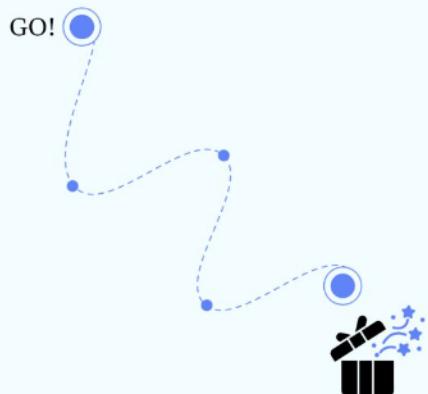
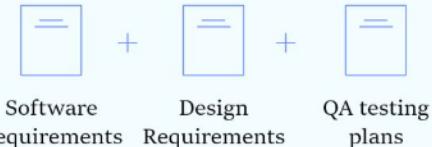
## Agile

Focus on working product (doing)



## Waterfall

Focus on documentation & detailed plans





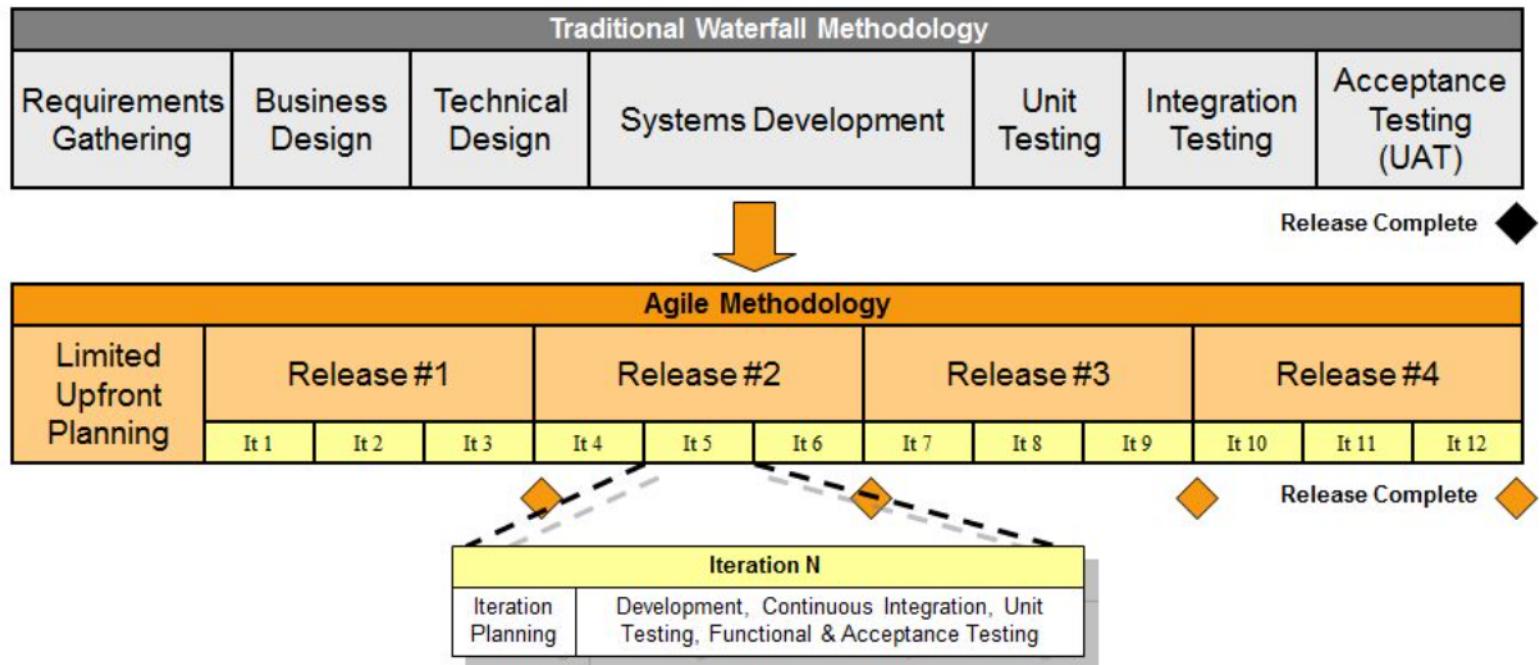
# Waterfall vs Agile

- Waterfall is a **Linear Sequential Life Cycle Model** whereas Agile is a **continuous iteration of development** and testing in the software development process.
- In Agile vs Waterfall difference, the Agile methodology is known for its **flexibility** whereas **Waterfall is a structured software development methodology**.
- Agile performs **testing concurrently with software development** whereas in Waterfall methodology testing comes after the “Build” phase.
- Agile allows **changes** in project development requirement whereas **Waterfall has no scope of changing the requirements** once the project development starts.



# Waterfall vs Agile

- You can't go back
- Freeze is Freeze



<https://www.agilealliance.org/agile101/>

# A COMPREHENSIVE COMPARISON BETWEEN THE AGILE, SCRUM, *and* WATERFALL METHODOLOGY



# 12 agile principles

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## in software development



Customer  
satisfactions



Changing  
requirements



Frequent  
delivery



Communicate  
regularly



Support  
team member



Face-to-face  
communication



Measure  
work progress



Development  
process



Good  
design



Measure  
progress



Continue  
seeking result



Reflect and  
adjust regularly



## Agile Manifesto

# Agile Values

We are uncovering **better ways of developing software by doing it and helping others do it**. Through this work we have come to value:



Individuals and interactions *over* processes and tools



Working software *over* comprehensive documentation



Customer collaboration *over* contract negotiation



Responding to change *over* Following a plan

# Agile Manifesto



# Agile Pros

- Gives **flexibility to developers.**
- Realistic approach to software development.
- **Encourage teamwork** and cross training.
- Functionality can be developed rapidly and demonstrated.
- **Resource requirements are minimum.**
- Suitable for fixed or changing requirements
- **Delivers early partial working solutions.**
- Good model for **environments that change steadily.**
- **Minimal rules**, documentation easily employed.
- Enables concurrent development and delivery within an overall planned context.
- Little or no planning required.
- Easy to manage.

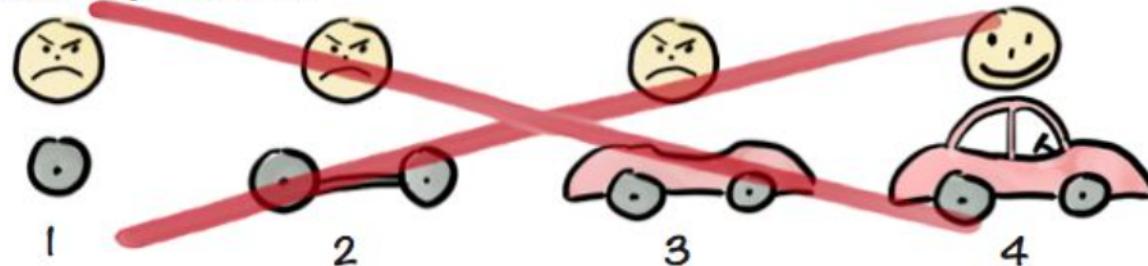


# Agile Cons

- More **risk of sustainability, maintainability and extensibility**.
- Not **suitable for handling complex dependencies**.
- **Depends heavily on customer interaction**, so if customer is not clear, team can be driven in the wrong direction.
- There is a very **high individual dependency**, since there is **minimum documentation** generated.
- **Transfer of technology** to new team members may be **quite challenging** due to lack of documentation.

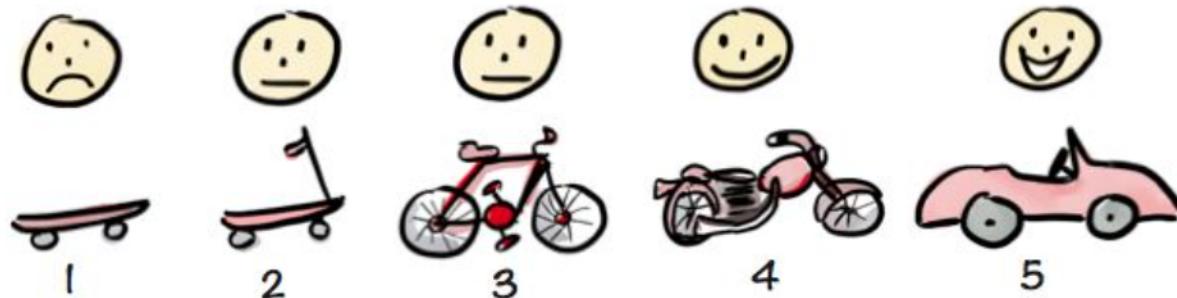
# MVP

Not like this....



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Like this!



# Waterfall vs Scrum vs Kanban





# Scrum Framework

Scrum is a framework for developing and sustaining complex products.



## Meet Jeff Sutherland

Jeff is the co-creator of Scrum and a leading expert on how the framework has evolved to meet the needs of today's business...

[Read Jeff's Bio](#)



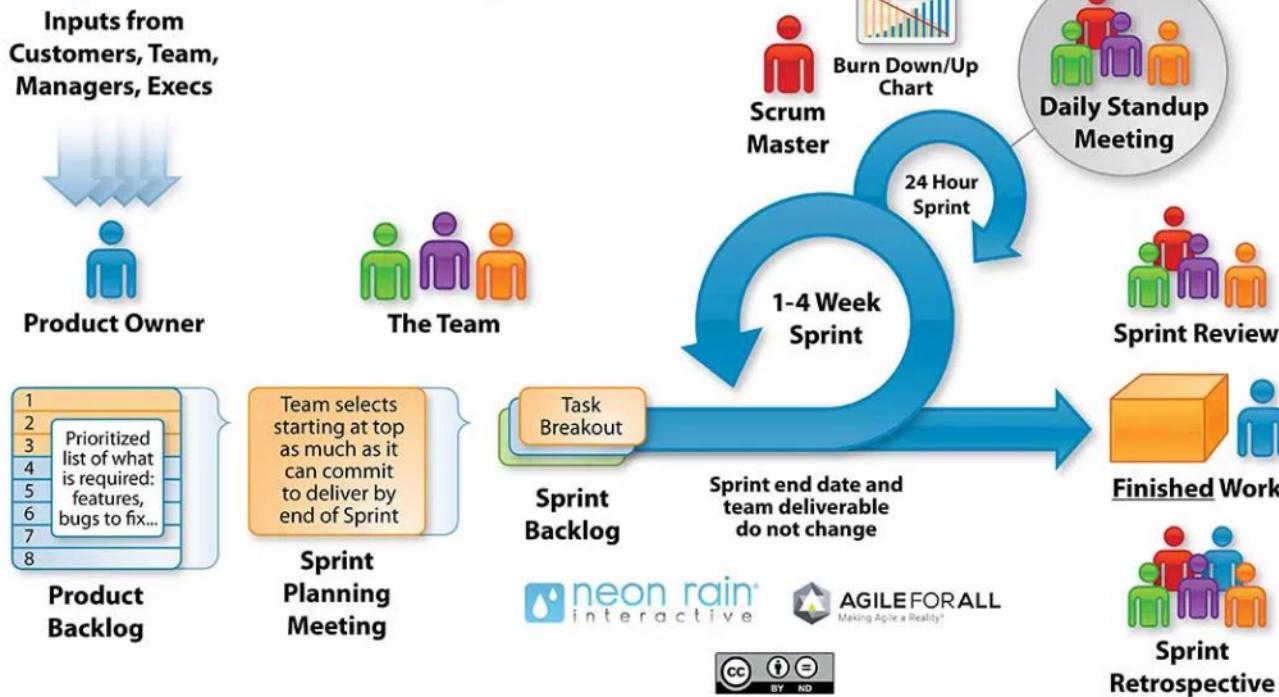
## Meet Ken Schwaber

Ken Schwaber co-developed the Scrum process with Jeff Sutherland in the early 1990s to help organizations...

[Read Ken's Bio](#)

# Scrum Framework

## The Agile Scrum Framework at a glance





# Scrum Framework

Scrum requires a Scrum Master to foster an environment where:

- A Product Owner orders the work for a complex problem into a Product Backlog.
- The Scrum Team turns a selection of the work into an Increment of value during a Sprint.
- The Scrum Team and its stakeholders inspect the results and adjust for the next Sprint.
- Repeat



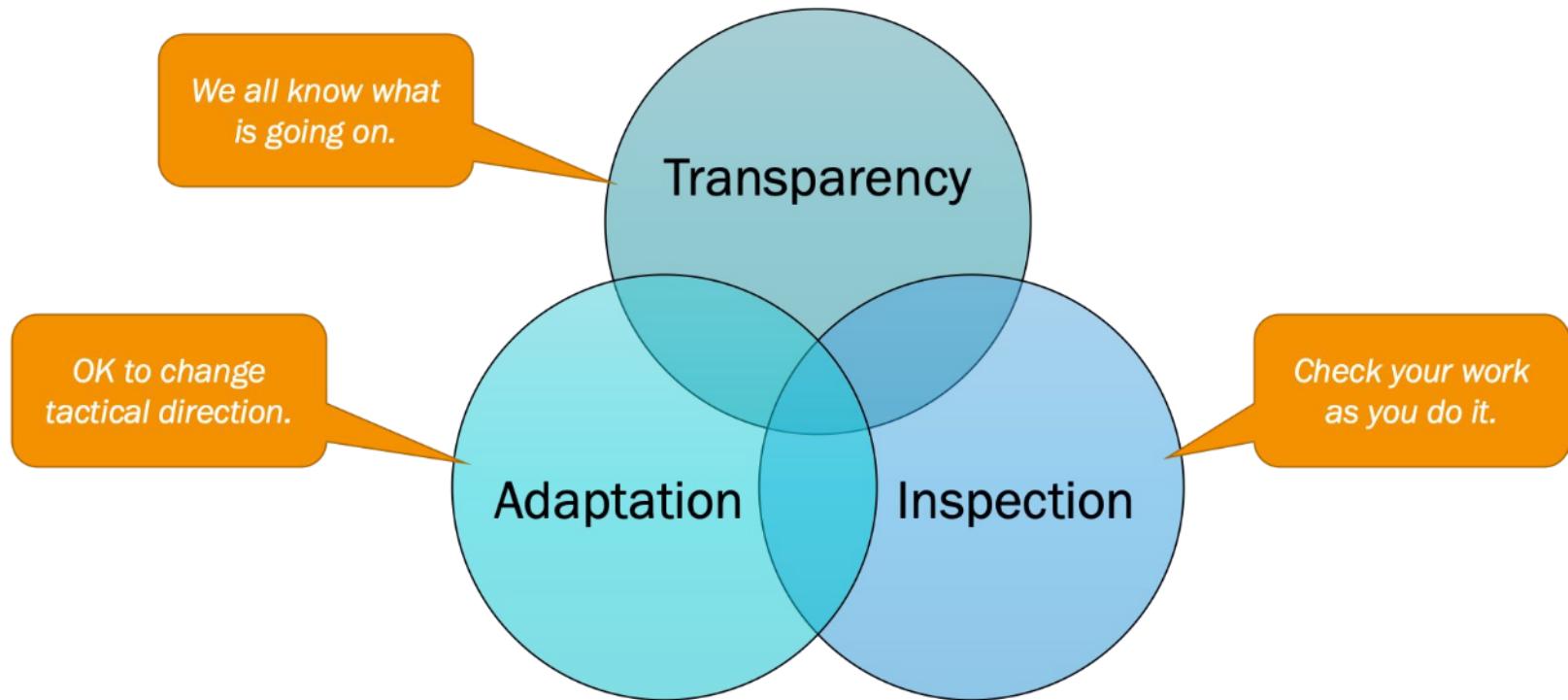
# Scrum Theory

Scrum is founded on empiricism and lean thinking.

Empiricism asserts that **knowledge comes from experience** and making decisions based on what is observed.

Lean thinking **reduces waste and focuses on the essentials**.

# Scrum Theory





# Scrum Values



**FOCUS**  
FOCUS ON THE WORK OF THE SPRINT.



## COURAGE

HAVE THE COURAGE TO DO THE RIGHT THING AND TO WORK ON TOUGH PROBLEMS.



## COMMITMENT

THE SCRUM TEAM COMMITS TO ACHIEVING ITS GOALS AND TO SUPPORTING EACH OTHER.



**OPENNESS**  
OPEN ABOUT THE WORK AND THE CHALLENGES.

## THE SCRUM VALUES



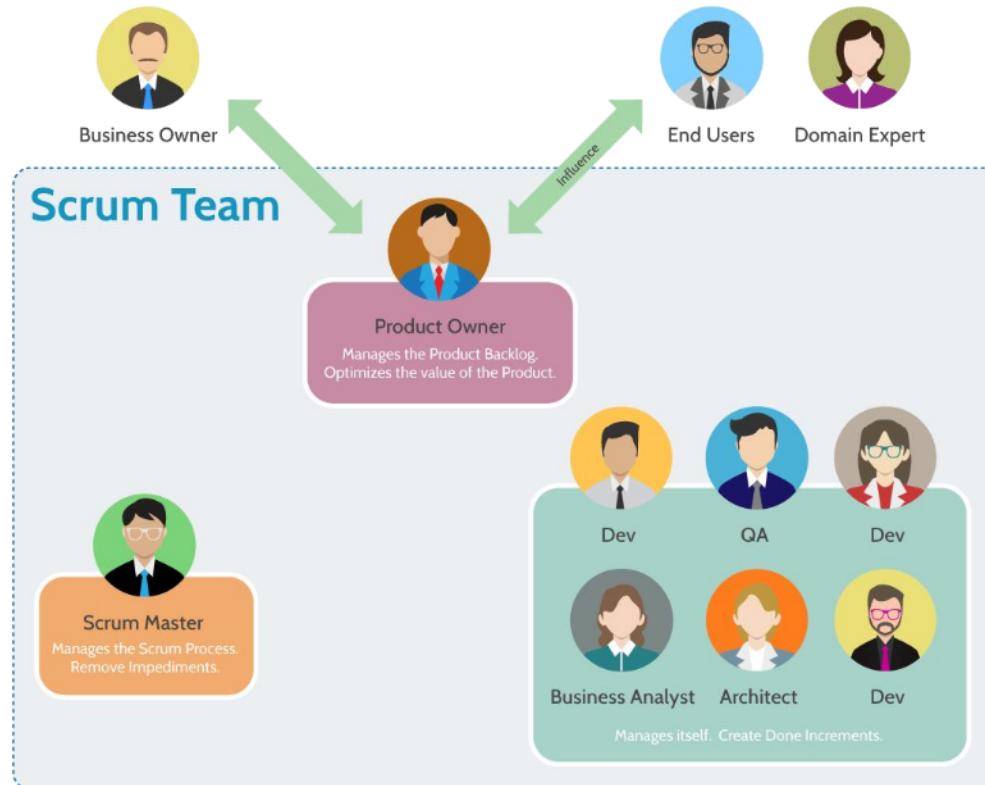
**Rebel Scrum**  
THIS IS THE TRAINING  
YOU'VE BEEN LOOKING FOR.  
[WWW.REBELSCRUM.SITE](http://WWW.REBELSCRUM.SITE)



## RESPECT

RESPECT EACH OTHER TO BE CAPABLE, INDEPENDENT PEOPLE.

# Scrum Team



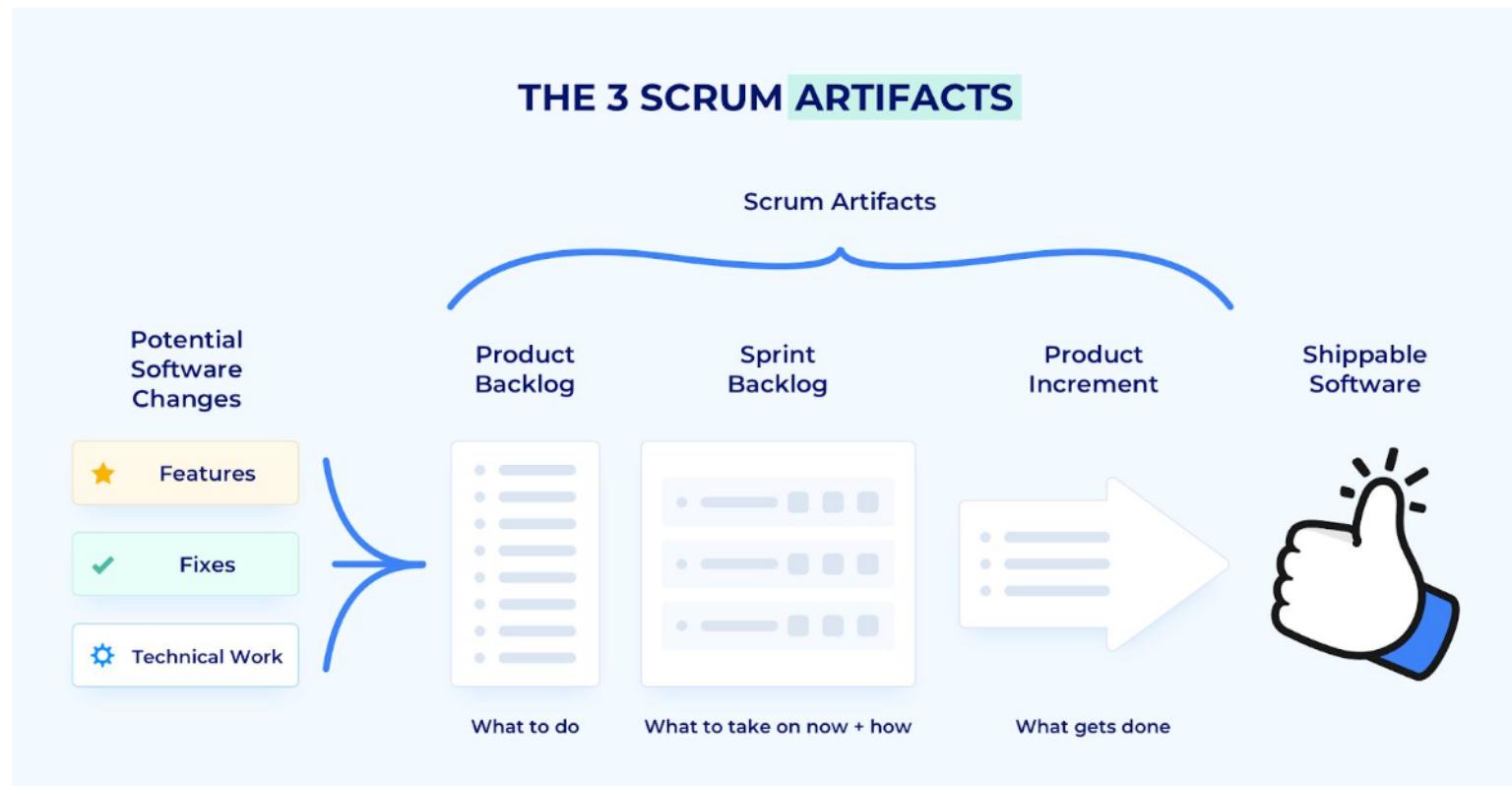


# Scrum Events

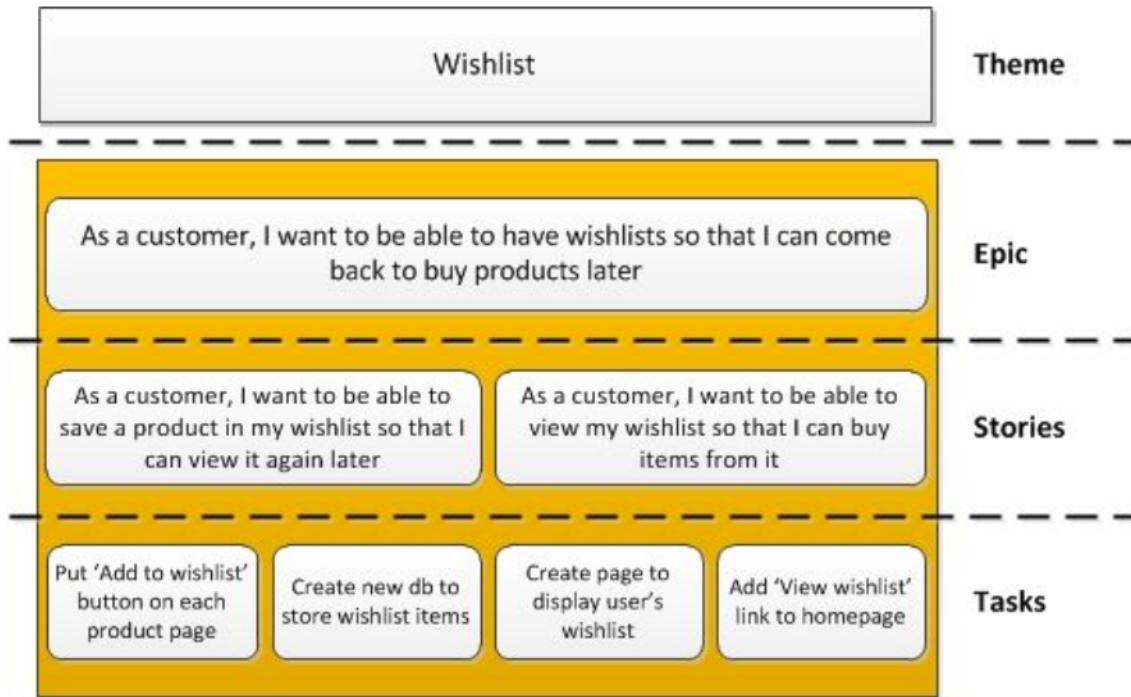
Event	Inspection	Adaptation
Sprint Planning	<ul style="list-style-type: none"><li>• Product Backlog</li><li>• (Commitments Retrospective)</li><li>• (Definition of Done)</li></ul>	<ul style="list-style-type: none"><li>• Sprint Goal</li><li>• Forecast</li><li>• Sprint Backlog</li></ul>
Daily Scrum	<ul style="list-style-type: none"><li>• Progress toward Sprint Goal</li></ul>	<ul style="list-style-type: none"><li>• Sprint Backlog</li><li>• Daily Plan</li></ul>
Sprint Review	<ul style="list-style-type: none"><li>• Product Increment</li><li>• Product Backlog (Release)</li><li>• Market-business conditions</li></ul>	<ul style="list-style-type: none"><li>• Product Backlog</li></ul>
Sprint Retrospective	<ul style="list-style-type: none"><li>• Team &amp; collaboration</li><li>• Technology &amp; engineering</li><li>• Definition of Done</li></ul>	<ul style="list-style-type: none"><li>• Actionable improvements</li></ul>

# Scrum Artifacts

## THE 3 SCRUM ARTIFACTS

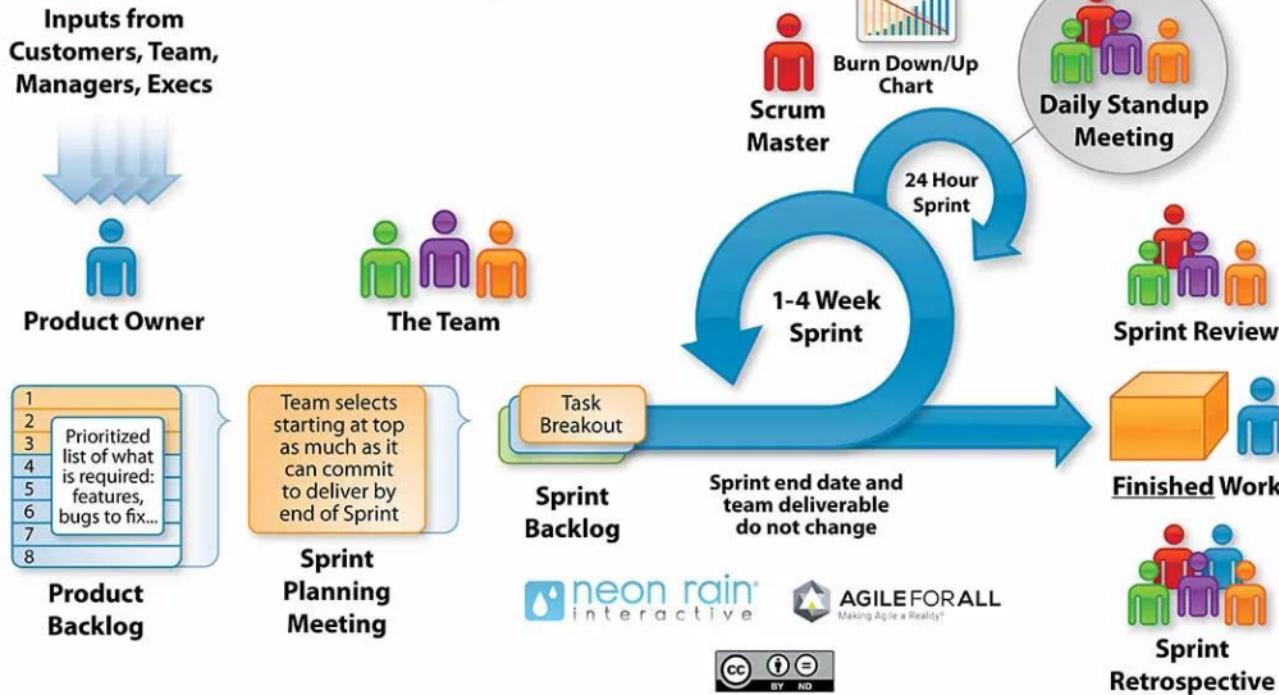


# Scrum Artifacts



# Scrum Framework

## The Agile Scrum Framework at a glance





# Read more

<https://scrumguides.org/scrum-guide.html>



# Professional Scrum Master™ I Certification

(PSM I) certification validates your knowledge of the Scrum framework, the Scrum Master accountabilities and how to apply Scrum.

## Certification Details

- \$150 USD per attempt
- Passing score: 85%
- Time limit: 60 minutes
- Number of Questions: 80
- Format: Multiple Choice, Multiple Answer, True/False
- Free [Credly](#) digital credential included
- Recommended courses: [Applying Professional Scrum](#) and/or [Professional Scrum Master](#)
- Practice Assessment: [Scrum Open](#)
- Passwords have no expiration date, but are valid for one attempt only
- Lifetime certification - no annual renewal fee required

<https://www.scrum.org/assessments/professional-scrum-master-i-certification>



# Scrum, JIRA Demo

1. JIRA cloud managed is FREE for 10 Users
2. Create a Scrum Board
3. Add Epic and Stories
4. Add Task and Perform the activities
5. Sprint Backlog, Retro and other documents.
6. Gantt Chart
7. Sprint Burn Down Report
8. Test Management - Zephyr

<https://www.scrum.org/assessments/professional-scrum-master-i-certification>