

# Software Development Methodologies:

## Scrum and Kanban

# Scrum Methodology

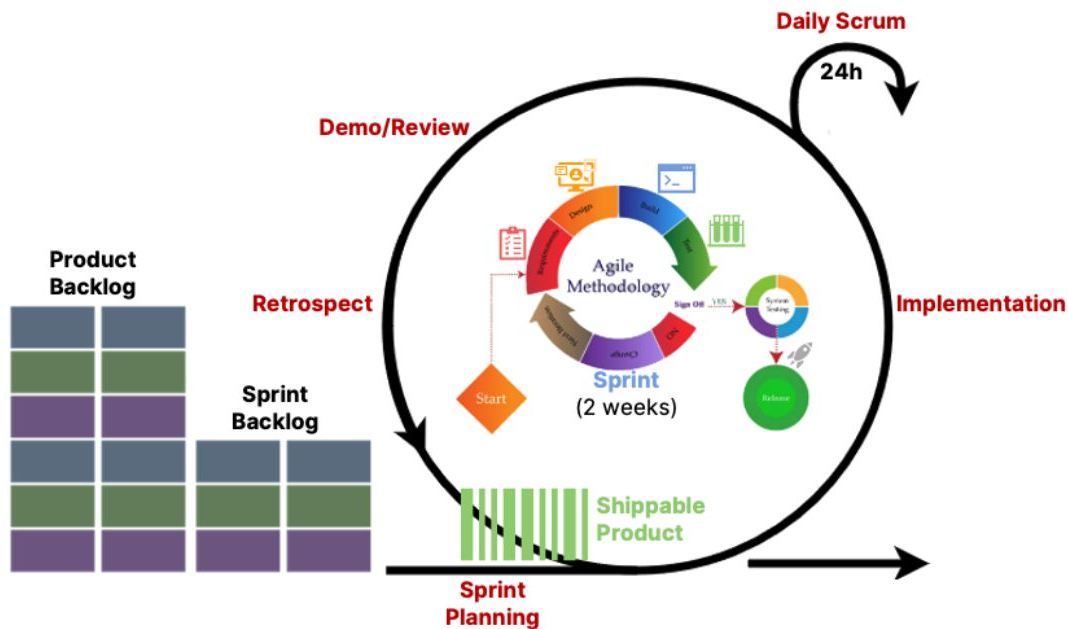
Agile framework with **Scrum rituals** (team meetings):

Sprint planning

Daily Scrums

Demo/Review

Retrospectives



# Scrum pros/cons

## Pros

Released product every 2 weeks (or at end of each Sprint)

Handles incomplete requirements

Improved product management

Higher product quality

# Scrum pros/cons

## Cons

Requires high client engagement

Not suited for inexperienced teams

Not suited for larger teams

# When to use Scrum

Best for quick MVP (Minimum Viable Product) development

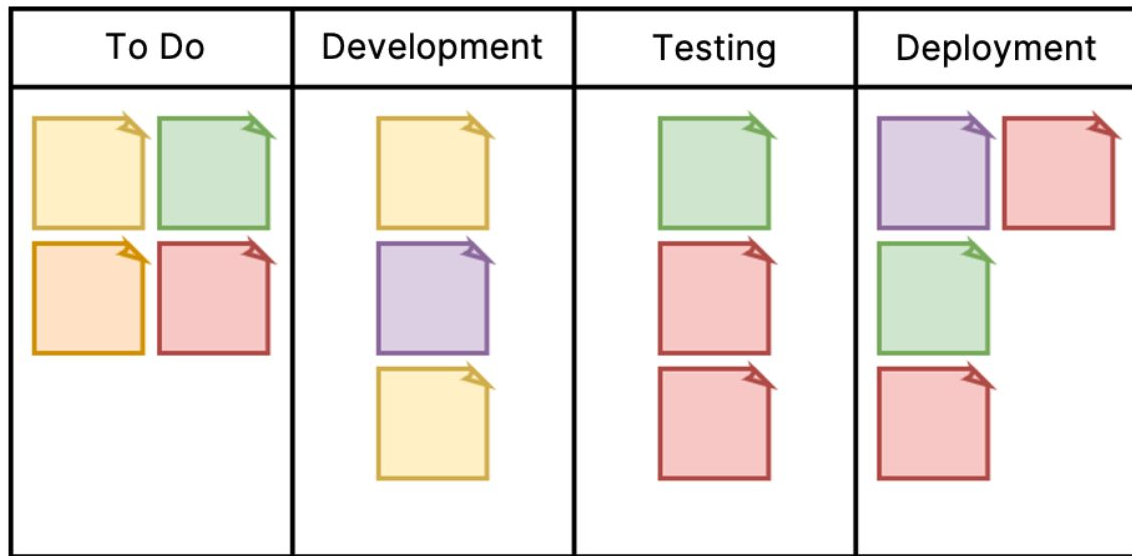
Best for regular improvements

# Kanban methodology

Another Agile framework, considered more flexible than Scrum

Also includes daily meetings, demos for clients, retrospectives

# Kanban board



Uses a “Kanban board” to quickly move tasks between stages  
(with software such as Trello, or physical sticky notes)

# Kanban board

Each sticky note represents a task, or a **user story**

**User story:** description of a feature from a user's point of view

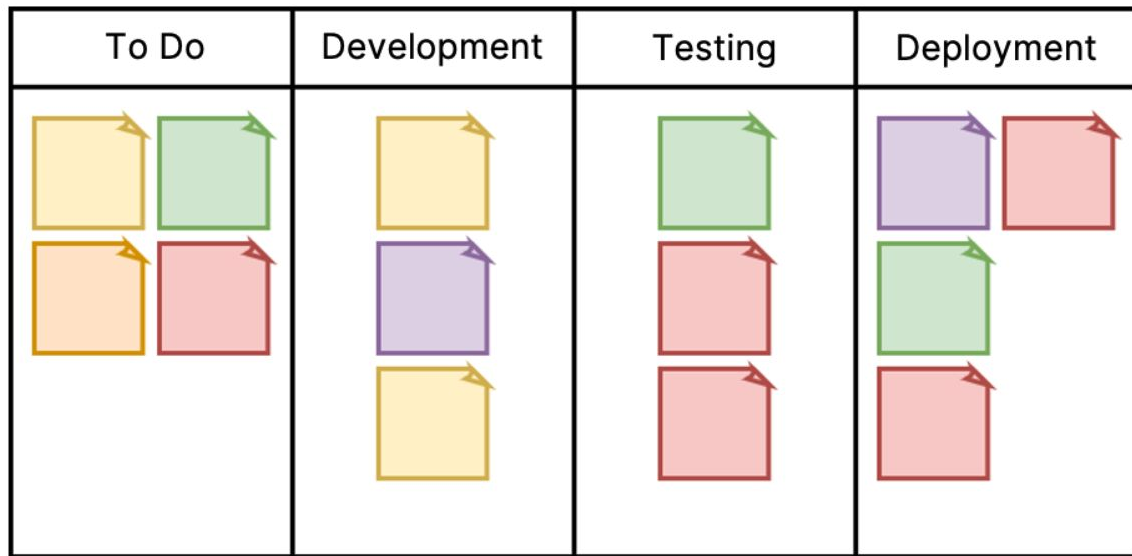
**Includes:** type of user, desired feature, motivation

## Example

"As a customer, I want to receive an email when I make a purchase, so that I can have my receipt and order details."

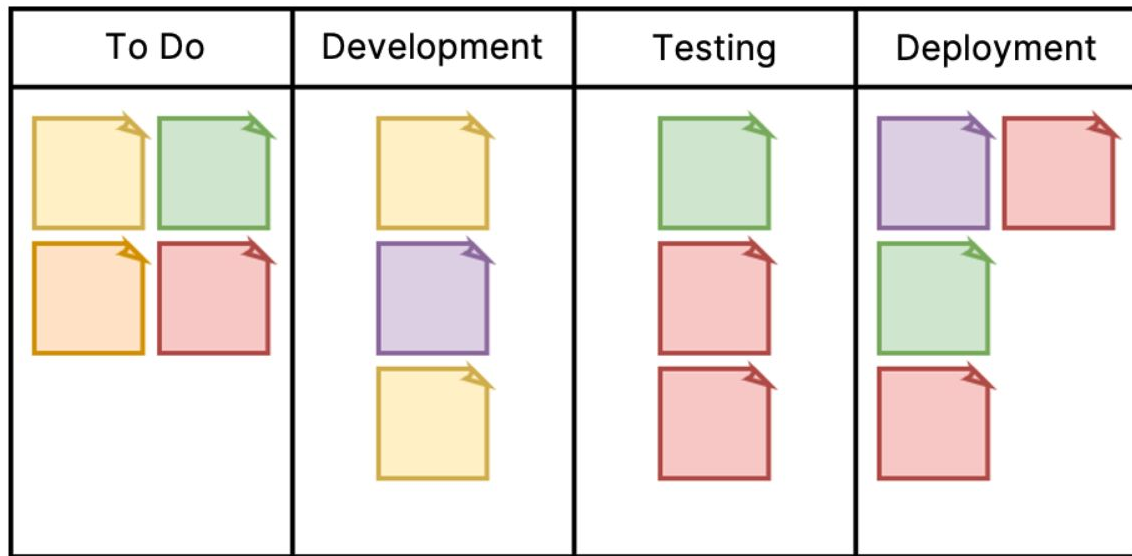


# Kanban board



Board divided into columns for different stages of work

# Kanban board



Board is limited in size, ensures quick iterations and releases

# Kanban pros/cons

## Pros

Simple task management approach

Very flexible

Used by small and large teams

Doesn't need re-planning

# Kanban pros/cons

## Cons

Easy to lose direction

Requires self-management skills

Lower developer productivity

Hard to control scope

# When to use the Kanban methodology

For project in a support phase

When there is a constant flow of change requests

Incomplete requirements with frequent changes