Agile software development

Group of software development methods in which requirements and solutions evolve through collaboration between self-organizing, cross-functional teams.
Promotes:
- Adaptive planning
- Evolutionary development
- Early delivery
- Continuous improvement
- Rapid and flexible response to change

Agile software development frameworks

Adaptive software development (ASD)

Agile modeling

Agile Unified Process (AUP)

Crystal Clear Methods

Disciplined agile delivery

Dynamic systems development method (DSDM)

Extreme programming (XP)

Feature-driven development (FDD)

Lean software development

Kanban (development)

Scrum

Scrum ban

Manifesto for Agile Software Development

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
- That is, while there is value in the items on the right, we value the items on the left more.[2]
Kent Beck, James Grenning, Robert C. Martin, Mike Beedle, Jim Highsmith, Steve Mellor, Arie van Bennekum, Andrew Hunt, Ken Schwaber, Alistair Cockburn, Ron Jeffries, Jeff Sutherland, Ward Cunningham, Jon Kern, Dave Thomas, Martin Fowler, Brian Marick
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Agile Principles

Customer satisfaction by rapid delivery of useful software

Welcome changing requirements, even late in development

Working software is delivered frequently (weeks rather than months)

Close, daily cooperation between business people and developers

Projects are built around motivated individuals, who should be trusted

Face-to-face conversation is the best form of communication (co-location)

Working software is the principal measure of progress

Sustainable development, able to maintain a constant pace

Continuous attention to technical excellence and good design

Simplicity—the art of maximizing the amount of work not done—is essential

Self-organizing teams

Regular adaptation to changing circumstance

The Agile Manifesto is based on 12 principles

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