

# Encyclopedia of Agile

An Indexed glossary of terms used in Agile Software Development

The intention of compiling this Encyclopedia of Agile was to create a document that can be used both as an offline reference, and as an online linked reference to some of the top thought leaders in the software industry.

The terms and definitions found in this encyclopedia are public domain. The wording of the definitions were taken from the following sources, with reference links to these sources for more in depth coverage of the terminology definitions and etymology.

While the content is not new, or original, I hope that you find the various indexes and references helpful in your search for understanding of all things Agile.





Agile Glossary













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by Pete Deemer @ ScrumAlliance; CSM, CSP, CST



### **Acceptance Testing**

Formal testing conducted to determine whether or not a system satisfies its acceptance criteria and to enable the customer to determine whether or not to accept the system.

Reference: Wikipedia
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### \* Adaptive

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\* Affinity Estimating



Affinity Estimating is a process to quickly estimate a large number of stories with high level SWAG estimates relative to other stories in the same project. To popular tactics are to estimate using either relative or absolute points.

Estimating with absolute units:

When estimating with absolute units the facilitator will quickly review several stories, asking the team for a flash vote on size (1,2,3,5,8,13,Epic). each new story is compared to the previously voted stories for equivalent size. Each vote is a flash vote, no more than 60 seconds discussion. As each story is estimated the story card is dropped onto the specified stack. By the end of the exercise all stories have been assigned and absolute story point size

Estimating relative units:

When estimating with relative units the delivery team works in parallel, each selecting a stack of stories and sorting them on a wall, floor or table in relative size, smallest to largest. As the team members work through their stacks they can reference stories placed by other team members, possibly moving those stories to a new location in the continuum. After all stories have been placed and the team has reviewed the relative sorting order of the entire backlog the continuum is translated to story points by marking equal gradations along the continuum (1,2,3,5,8,13,Epic). A this point the team can reference the established boundaries and move stories to one side or the other of a boundary line according to their best judgement. By the end of the process all stories will be assigned a relative story point size.

See Also: Estimation, Release Planning

References: <u>SolutionsIQ</u>
Return To <u>Glossary</u>

### \* Agile

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### **Agile Development Practices**

Procedures and techniques used to conduct <u>Agile software development</u>. Although there is no canonical set of <u>Agile</u> practices, most Agile practitioners adopt some subset of <u>Scrum</u> and <u>XP</u> practices.

Broadly speaking, any practice or technique that facilitates the values and principles set forth in the <u>Agile manifesto</u> can be considered an Agile practice.

The most popular agile methodologies include:

- Extreme Programming (XP)
- Scrum
- · Crystal,
- Dynamic Systems Development Method (DSDM)
- Lean Development
- <u>Feature Driven Development</u> (FDD).

All Agile methods share a common vision and core values of the Agile Manifesto.

Some other well-known agile software development methods include:

- Agile modeling
- Agile Unified Process (AUP)
- Essential Unified Process (EssUP)
- Open Unified Process (Open UP)
- Velocity Tracking

See Also: Agile Manifesto

References:

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### **Agile Estimation**

Agile estimation is a process of agreeing on a size measurement for the stories in a product backlog. Agile estimation is done by the team, usually using Planning Poker.

### **Agile Manifesto**

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.

Twelve principles underlie the Agile Manifesto, including:

- 1. Customer satisfaction by rapid delivery of useful software
- 2. Welcome changing requirements, even late in development
- 3. Working software is delivered frequently (weeks rather than months)
- 4. Working software is the principal measure of progress
- 5. Sustainable development, able to maintain a constant pace
- 6. Close, daily co-operation between business people and developers
- 7. Face-to-face conversation is the best form of communication (co-location)
- 8. Projects are built around motivated individuals, who should be trusted
- 9. Continuous attention to technical excellence and good design
- 10. Simplicity
- 11. Self-organizing teams
- 12. Regular adaptation to changing circumstances

Some of the manifesto's authors formed the <u>Agile Alliance</u>, a non-profit organization that promotes software development according to the manifesto's principles.

References: Wikipedia, AgileManifesto.org, 12 Agile Principles

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### **Agile Methods**

See Agile Development Practices

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### **Agile Methodology**

Agile Methodology is an umbrella term for several iterative and incremental software development methodologies.

See Agile Development Practices

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### **Agile Modeling**

Agile Modeling is a practice-based methodology for Modeling and documentation of software-based systems. It

is intended to be a collection of values, principles, and practices for Modeling software that can be applied on a software development project in a more flexible manner than traditional Modeling methods.

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### **Agile Planning Basics**

The four basics of Agile planning are: Product Backlog, Estimates, Priorities and Velocity.

- Estimates answer the question: "How long will it take or how many can we do by a given date?"
- Priorities answer the question: "Which capabilities are most important?
- The Product Backlog answers the question: "What capabilities are needs for financial success?"
- Velocity answers the question: "How much can the team complete in a Sprint?"

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### **Agile Project Management**

The style of project management used to support Agile software development. <u>Scrum</u> is the most widely used Agile project management practice. <u>XP</u> practices also include practices that support Agile project management. Essential feature of Agile project management include:

- Iterative development cycles
- Self-organizing teams
- Multi-level planning
- Dynamic scope
- Frequent collaboration with customer and/or business sponsors

Related links: Wikipedia
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### **Agile Software Development**

Agile software development is a group of software development methodologies based on iterative and incremental development, where requirements and solutions evolve through collaboration between self organizing team, cross functional teams.

The development of software using <u>Agile development practices</u> and <u>Agile project</u> management.

Features of Agile software development include a heavy emphasis on collaboration, responsiveness to change, and the reduction of waste throughout the development cycle.

Agile software development (ASD) focuses on keeping code simple, testing often, and delivering functional bits of the application as soon as they're ready.

References: Wikipedia
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### \* Agile Unified Process

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### \* Agilista

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### \* Agility

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### **Alignment**

Organizations with production dependencies across department boundaries run the risk of falling out of phase (or alignment). Alignment includes any actions or policies that exist so that a process or activity in one section of the organization is congruent with the organization's or business unit's governing mission. The lack of business/IT alignment is a chronic problem for many organizations and frequently the root cause of systemic software delivery failure. Agile development practices are designed to address many of the root causes of misalignment between IT and the business.

References: Wikipedia
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#### ALM

See: Application Lifecycle Management

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### \* Anchoring

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### **Application Lifecycle Management**

"Application Lifecycle Management (ALM) is a continuous process of managing the life of an application through governance, development and maintenance." (Wikipedia)

When <u>Agile software development</u> is introduced into an organization it generally requires substantial changes in the organization's ALM tools and policies, which are typically designed to support alternative methodologies such as Waterfall.

References: Wikipedia

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### **Backlog**

The generic term for a repository of requirements (<u>stories</u> / work items) that define a system and it's many parts. The outermost scope of work defined is the <u>Product Backlog</u>, which defines all requirements/<u>features/defects/stories</u> for a given product. A <u>Product Backlog</u> is subdivided into one or more <u>Release Backlogs</u>. During <u>Sprint planning</u> the delivery team estimates the top most <u>Backlog Items</u> in the current <u>Release Backlog</u> and assigns them to their <u>Sprint Backlog</u> where they are tracked and implemented for the current sprint.

See also: Product Backlog Item, Task, Iteration, Sprint, Sprint Backlog Product Owner, Planning Game

References: Wikipedia
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### **Backlog Item**

See: Product Backlog Item
References: Wikipedia
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### **Backlog Item Effort**

Some Scrum practitioners estimate the effort of product backlog items in ideal engineering days, but others prefer less concrete backlog effort estimation units. Alternative units might include story points, function points, or "t-shirt sizes" (1 for small, 2 for medium, etc). The advantage of more vague units is that they're explicit about the distinction that product backlog item effort estimates are estimates of effort, not duration. Also, estimates at this level are rough guesses that should never be confused with actual working hours (Note that sprint tasks are distinct from product backlog items and task effort remaining is always estimated in hours).

References: SolutionsIQ:Backlog Item Effort

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### **Backlog Grooming**

Backlog grooming is both an ongoing process and the name for a meeting:

The process of adding new user stories to the backlog, re-prioritizing existing stories as needed, creating estimates, and deconstructing larger stories into smaller stories or tasks.

A meeting or ceremony that occurs regularly within a team's iteration cycle. <u>Scrum Alliance</u> founder <u>Ken Schwaber</u> recommends that teams allocate 5% of their time to revisiting and tending to the backlog. Backlog grooming is the term favored by the Scrum Alliance,

although Scrum co-founder <u>Jeff McKenna</u> and Australian CST <u>Kane Mar</u> prefer to call this ceremony Story Time.

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### **Big Ball of Mud**

"A Big Ball of Mud is a haphazardly structured, sprawling, sloppy, duct-tape-and-baling-wire, spaghetti-code jungle. These systems show unmistakable signs of unregulated growth, and repeated, expedient repair. Information is shared promiscuously among distant elements of the system, often to the point where nearly all the important information becomes global or duplicated. The overall structure of the system may never have been well defined. If it was, it may have eroded beyond recognition. Programmers with a shred of architectural sensibility shun these quagmires. Only those who are unconcerned about architecture, and, perhaps, are comfortable with the inertia of the day-to-day chore of patching the holes in these failing dikes, are content to work on such systems."

Brian Foote and Joseph Yoder, Big Ball of Mud.

References: Wikipedia, Big Ball of Mud

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### **Big Visible Charts**

Big visible charts are exactly what you would think they would be: Big charts posted near the agile team that describe in different ways the team's progress. Big visible charts not only can be useful tools for the team but also make it easier for any <u>stakeholder</u> to learn how the team is progressing. Big visible charts are an important tool for implementing the essential agile values of transparency and communication.

References: XPProgramming.com

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### \* Blocked

See Also:

Return To Glossary

### **Bottleneck**

Any resource or process whose capacity is less than or equal to the demand placed on it, thus constraining the flow of work or information through the process.

See Also: <u>Kanban</u>
References: <u>Wikipedia</u>
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### **Branching**

"The duplication of objects under revision control (such as a source code file, or a directory tree) in such a way that the newly created objects initially have the same content as the original, but can evolve independently of the original."

References: Accurev.com

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### **Breaking the Build**

When a developer adds changes to the source code repository that result in the failure of a subsequent <u>build process</u>, the developer has "broken the build." Avoiding breaking the build is a commitment generally required by agile software developers and integral to the XP practice continuous integration.

The build is broken if the build process cannot successfully completed for any number of reasons including (but not limited to) failure to compile, compiling with unacceptable warnings, or the failure of any number of (usually) <u>automated software tests</u>. The more comprehensive the build process, the higher the threshold for breaking the build.

If a code submission does result in breaking the build, the developer should immediately remove the cause. If the build breaks but the immediate cause is not self-evident, a frequent practice of established agile development teams is to take immediate action to fix the build.

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### **Build Process**

"The amount of variability in implementation makes it difficult to come up with a tight definition of a Build Process, but we would say that a Build Process takes source code and other configuration data as input and produces artifacts (sometimes called derived objects) as output. The exact number and definition of steps depends greatly on the types of inputs (Java versus C/C++ versus Perl/ython/Ruby source code) and the type of desire output (CD image, downloadable zip file or self-extracting binary, etc). When the source code includes a compiled language then the Build Process would certainly include a compilation and perhaps a linking step." (Anthillpro)

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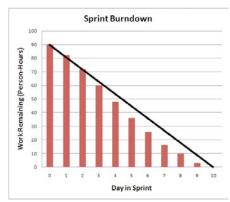
#### **Burn-Down Chart**

A Burn down chart is a chart showing how much work remaining in a sprint. Calculated in hours remaining and maintained by the Scrum Master daily.

A publicly displayed chart that depicts the total task hours remaining per day. It shows where the team stands regarding completing the tasks that comprise the <u>backlog</u> items that achieve the goals of the sprint. The X-axis represents days in the sprint, while the Y-axis is effort remaining (usually in ideal engineering hours). To motivate the team, the sprint burn-down chart should be displayed prominently. It also acts as an effective information radiator. A manual alternative to this is a physical task board. Ideally, the chart burns down to zero by the

end of the sprint. If the team members are reporting their remaining task hours realistically, the line should bump up and down.

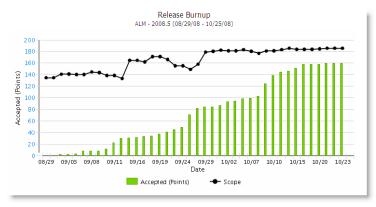




See Also: <u>Burn-Up Chart</u> References: <u>Wikipedia</u> Return To <u>Glossary</u>

### **Burn-Up Chart**

Representation of the amount of stories completed, with points plotted on an X and Y axis that map an upward trend of work completed until reaching 100%.



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### **Business Alignment**

See: Alignment

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### **Business Value**

Each user story in the Product Backlog should have a corresponding business value assigned. Typically assign (L,M,H) Low, Medium, High. Product Owner prioritizes Backlog items by highest value.

An informal term that includes all forms of value that determine the health and well-being of the firm in the long run. It expands the concept of value of the firm beyond economic value to

include other forms of value such as employee value, customer value, supplier value, channel partner value, alliance partner value, managerial value, and societal value. In the context of agile development, it is what management is willing to pay for and a way to identify the value of "work" or a story.

References: Wikipedia
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### Capacity

Capacity is the Number of Teammates (Productive Hours x Sprint Days).

Example:

Team size is 4,

Productive hours per person per day are 5,

Sprint length is 30 days.

Capacity = 4(5x30) = 600 hours.

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### \* CANI

Constant And Never-ending Improvement

See Also: Kaizen, Inspect & Adapt, Retrospective

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### \* Card-Conversation-Confirmation

XP Practices for generating a well groomed backlog, elaborating story contents and validating completed results.

"User stories have three critical aspects. We can call these Card, Conversation, and Confirmation."

Ron Jeffries, 2001

References: Card-Conversation-Confirmation

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#### Certified ScrumMaster

Someone who is acting in the role of <u>ScrumMaster</u> on a <u>Scrum team</u> and who has attended a two-day <u>Certified ScrumMaster</u> (<u>CSM</u>) class to obtain certification.

References: Wikipedia
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### Chicken

Scrum slang for someone who is interested in a project but has no responsibility for working on a task in the active iteration. They may observe team meetings but cannot vote or talk.

Chickens are the people that are not committed to the project and are not accountable for deliverables.







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References: Wikipedia

See also: Pig

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### **Code Smell**

"Any symptom in the source code of a computer program that indicates something may by wrong." (Wikipedia)

Common code smells are often used to diagnose the quality of legacy code. <u>Code smells</u> generally indicate that the code should be <u>refactored</u> or the overall design should be reexamined.

See Also: Refactoring
References: Wikipedia
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#### Colocation

Refers to development teams located and working in the same location. When possible colocation is desirable since it facilitates face-to-face collaboration, an important features of <u>Agile software development</u>. Contrast with <u>distributed development team</u>.

See Also: Colocation, Agile software Development, Distributed Development Team

References: Wikipedia
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### **Continuous Integration**

"Continuous Integration is a software development practice where members of a team integrate their work frequently, usually each person integrates at least daily - leading to

multiple integrations per day. Each integration is verified by an automated build (including test) to detect integration errors as quickly as possible. Many teams find that this approach leads to significantly reduced integration problems and allows a team to develop cohesive software more rapidly." (MartinFowler.com)

References: Wikipedia
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### **Cross-Functional Team**

Team comprised of members with all functional skills and specialties necessary to complete a project from start to finish.

References: Wikipedia
Return To Glossary

### \* Crystal

1990s

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#### Customer

The recipient of the output (product, service, information) of a process. Customers may be internal or external to the organization. The customer may be one person, a department, or a large group. Internal customers (outside of Information Technology) are sometimes called the "Business."

References: Wikipedia
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### **Daily Scrum**

See: Standup Meeting
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### **Daily Standup**

See: <u>Standup Meeting</u>
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#### **Defect**

A defect is a failure or bug of the product to behave in the expected fashion. Defects are stored in a bug-tracking system, which may or may not be physically the same system used to store

the <u>Product Backlog</u>. If not, then someone (usually the <u>Product Owner</u>) must enter each Defect into the <u>Product Backlog</u>, for sequencing and scheduling.

See Also: Story, User Story, Technical Story, Spike, Tracer Bullet

Return To Glossary

#### **Definition of Done**

The criteria for accepting work as completed. Specifying these criteria is the responsibility of the entire team, including the business. Generally, there are three levels of "Done" (also known as Done-Done-Done):

Done: Developed, runs on developer's box

Done: Verified by running unit tests, code review, etc.

Done: Validated as being of deliverable quality with functional tests, reviews, etc.

However, the exact criteria for what constitutes "Done" varies to meet the specific needs of different organizations and initiatives. An important agile principle is to deliver (potentially) <u>releasable software</u> after every <u>iteration</u>. The definition of done is a key component of Agile project governance used to help teams comply with this principle.

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### **Delivery Team**

In agile software development, the delivery team refers to the cross-functional group of people that have made a collective commitment to work together to produce the work product and improve their performance over time. In addition to software development and test roles, the team may include any skill set necessary to deliver the work product.

The delivery team usually includes people skilled to understand customer requirements and conduct software design, coding and testing. Additional skills (e.g. UI design, usability, etc.) may also be included, especially when they are integral to the software release.

The delivery team is encouraged to be <u>self-organizing</u> and to take collective responsibility for all work commitments and outcomes. Delivery teams respond to requirements (often presented as <u>user stories</u>) by collectively defining their tasks, task assignments, and level of effort estimates.

The ideal size for a delivery team adheres to the magic number seven plus or minus two rule.

See Also: Scrum Team, Product Owner, ScrumMaster

References: Wikipedia
Return To Glossary

### \* Dependency Injection Principle

See Also: <u>SOLID OOD Principles</u>: Single Responsibility Principle

Open Closed Principle,

Liskov Substitution Principle,

Interface Segregation Principle,

**Dependency Injection Principle** 

Return To Glossary

### **Design Pattern**

"A design pattern is a general reusable solution to a commonly occurring problem in software design." (Wikipedia)

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### **Distributed Development Team**

Refers to development teams that work on the same project but are located across multiple geographic locations or work sites. Distributed development teams are becoming the norm for today's software projects. When <u>co-location</u> is not an option, distributed teams are faced with the challenge of keeping software projects on track and keeping remote developers engaged collaboratively. Agile development is more difficult for distributed teams and generally require that special practices are adopted that mitigate the inherent risks of distributed development.

See Also: <u>Colocation</u>
References: <u>Wikipedia</u>
Return To Glossary

### **Distributed Scrum**

See <u>Distributed Development Team</u>

Return To Glossary

#### **Domain Model**

Information model describing the application domain that creates a shared language between business and IT

References: Wikipedia
Return To Glossary

#### **DSDM**

See <u>Dynamic Systems Development Method</u>

Return To Glossary

### \* Dynamic Systems Development Method



#### \* Earned Value Chart

Return To Glossary

### **Emergence**

Emergence is an attribute of <u>complex systems</u>. When applied to software development, it is the principle that the best designs and the best ways of working come about over time through doing the work, rather than being defined in advance as part of an over-arching specification or detailed project plan.

See Also: <u>Self-Organization</u>
References: <u>Wikipedia</u>
Return To <u>Glossary</u>

### **Empiricism**

Empiricism is the principle that knowledge is acquired through our experience, which we obtain through our senses. Empiricism is the cornerstone of all scientific inquiry and the approach used by Agile teams to identify <u>emergent</u> requirements and incrementally develop software.

See Also: Inspect and Adapt
References: Wikipedia
Return To Glossary

### **Epic**

A very large <u>user story</u> that is eventually broken down into smaller stories. Epics are often used as placeholders for new ideas that have not been thought out fully or whose full elaboration has been deferred until actually needed. Epic stories help agile development teams effectively manage and <u>groom</u> their product <u>backlog</u>.

See Also: Story, Backlog, Backlog Grooming

References: SolutionsIQ: Epic

Return To Glossary

#### **EssUP**

See Essential Unified Process

Return To Glossary

### \* Essential Unified Process:

### **Estimation**

The process of agreeing on a size measurement for the <u>stories</u> or <u>tasks</u> in a product <u>backlog</u>. On agile projects, estimation is done by the team responsible for delivering the work, usually using a planning game.

Estimates on stories are made in abstract story points.

Estimates on tasks are made in hours.

See Also: Story, Backlog, Planning Game, Tasks, Story Points

References: Wikipedia
Return To Glossary

### \* Estimate to Complete Chart

Return To Glossary

### **Extreme Programming**

1996

A software development methodology adhering to a very iterative and incremental approach, Extreme Programming is intended to improve software quality and responsiveness to changing customer requirements. As a type of <u>agile software development</u>, it advocates frequent releases in short development cycles (<u>time-boxing</u>), which is intended to improve productivity and introduce checkpoints where new customer requirements can be adopted.

XP consists of a number of integrated practices for developers and management - the original twelve practices of XP include:

- Small Releases
- 2. On-site Customer
- 3. Sustainable Pace
- 4. Simple Design
- 5. Continuous Integration
- 6. Unit Testing
- 7. Coding Conventions
- 8. Refactoring Mercilessly
- 9. Test-Driven Development
- 10. System Metaphor
- 11. Collective Code Ownership
- 12. Pair Programming

Most successful Agile practitioners adopt some subset of XP practices, often in conjunction with Scrum.

See Also: Unit Testing, Refactoring, Extreme Programming (XP), Time-box

References: Wikipedia
Return To Glossary



### **Fail-Fast**

"A property of a system or module with respect to its response to failures. A fail-fast system is designed to immediately report at its interface any failure or condition that is likely to lead to failure." (Wikipedia)

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#### **Feature**

A coherent business function or attribute of a software product or system. Features are large and chunky and usually comprise many detailed (unit) requirements. A single feature typically is implemented through many <u>stories</u>. Features may be functional or non-functional; they provide the basis for organizing <u>stories</u>.

See also: Minimum Marketable Features, User Story

References: Wikipedia
Return To Glossary

### **FDD**

See Feature Driven Development

Return To Glossary

### \* Feature Driven Development

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### Fibonacci Sequence

A sequence of numbers in which the next number is derived by adding together the previous two (e.g. 1, 2, 3, 5, 8, 13, 21, 34...). The sequence is used to size stories in Agile estimation techniques such as Planning Poker.

References: Fibonacci Sequence

Return To Glossary

#### **Flow**

Continuous delivery of value to customers (vs. big-batch, big-release, big-bang).

See also: Planning Poker, Fibonacci Sequence

References: Wikipedia
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### \* Forked Development

### Fog Of War

"The **fog of war** is a term used to describe the uncertainty in situation awareness experienced by participants in military operations. The term seeks to capture the uncertainty regarding own capability, adversary capability, and adversary <u>intent</u> during an engagement, operation, or campaign."

Wikipedia

In Agile the fog of war refers to the increasing uncertainty of estimates.

As stories increase in size the level of confidence in the estimates decreases.

As stories are scheduled farther away for implementation the level of confidence in those estimates decreases significantly. For this reason it is not reasonable to depend on estimates for stories expected to be implemented more than a month out. As those stories come into view on the near term schedule new estimates can be made with greater confidence.

Generally the best estimates are given during sprint planning sessions where the story is expected to be implemented that sprint.

References: Wikipedia
Return To Glossary

### \* Functional Test

See Also:

Return To Glossary





\* Ha

See Also: Shu-Ha-Ri, Shu, Ri

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### **Impediment**

In <u>Scrum</u>: Anything that prevents a team member from performing work as efficiently as possible is an impediment. Each team member has an opportunity to announce impediments during the <u>daily standup meeting</u>. The <u>ScrumMaster</u> is charged with ensuring impediments are

removed. ScrumMasters often arrange sidebar meetings, <u>Parking Lot</u>, when impediments cannot be resolved on the spot in the daily Scrum meeting.

See also: Scrum, Daily Standup, ScrumMaster, Parking Lot

References: Wikipedia
Return To Glossary

#### **INVEST**

Criteria for well written user stories. Every user story should satisfy the following INVEST principles:

- Independent
- Negotiable
- Valuable
- Estimable
- Small
- Testable.

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### \* Integration Test

See Also:

Return To Glossary

### **Inspect and Adapt**

"Inspect and Adapt" is a slogan used by the Scrum community to capture the idea of discovering over the course of a project emergent software requirements and ways to improve the overall performance of the team. It neatly captures the both the concept of empirical knowledge acquisition and feedback-loop-driven learning.

See Also: CANI, Kaizen, Retrospective, Empiricism

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### \* Interface Segregation Principle

See Also: SOLID OOD Principles:

Single Responsibility Principle,

Open Closed Principle,

Liskov Substitution Principle,

Interface Segregation Principle

**Dependency Injection Principle** 

### \* Iron Triangle

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### **IT Alignment**

See: Alignment

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### **Iteration**

A period (from 1 week to 2 months in duration) during which the Agile development team produces an increment of completed software. All system lifecycle phases (requirements, design, code, and test) must be completed during the iteration and then (empirically) demonstrated for the iteration to be accepted as successfully completed. At the beginning of the iteration, the business or the product owner identifies the next (highest priority) chunk of work for the team to complete. The development team then estimates the level of effort and commits to completing a segment of work during the iteration. During the iteration, the team is not expected to change objectives or respond to change requests. However, at the front end of the next iteration the business or product owner is free to identify any new segment of work as the current highest priority.

See also: Sprint, Definition of Done, Velocity, Task Board, Kanban

References: Wikipedia
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#### Kanban

Kanban is a tool derived from lean manufacturing and is associated with the branch of agile practices loosely referred to as <u>Lean software development</u>. Like a <u>task board</u>, Kanban visually represents the state of <u>work in process</u>. Unlike a task board, the Kanban constrains how much work in process is permitted to occur at the same time. The purpose of limiting work in process is to reduce bottlenecks and increase throughput by optimizing that segment of the <u>value</u> <u>stream</u> that is the subject of the Kanban. Task boards simply illustrate work in process without necessarily deliberately how much of work in process may occur at any given time, although the same effect may be achieved through the organic self-organization of the team.

A principle difference between Kanban and Scrum is that Scrum limits work in process through <u>time-boxing</u> (i.e. the <u>sprint</u>) and Kanban limits work in process by limiting how much work may occur at one time (e.g. N tasks or N stories).

References: Wikipedia

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### \* Kata

See Also:

Return To Glossary

### \* Kaizen

See Also: CANI, Inspect & Adapt, Retrospective

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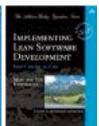


### **Lean Software Development**

An adaption of Lean manufacturing principles and practices to the software development domain. Lean software development (also known as Lean-Agile) is focused on reducing (lean) waste and optimizing the software production <u>value stream</u>. In large part, the principles and practices of lean software development are congruent with other well-known Agile practices such as <u>Scrum</u> and <u>extreme programming</u>. However, in some cases they use different means to obtain the same end. For example, Scrum and <u>Kanban</u> (a lean technique) both reduce work in process (a lean waste) but use different techniques to accomplish this objective.







Authors Mary and Tom Poppendieck bring Lean Manufacturing Principles to Software Development.

References: Wikipedia
Return To Glossary

### \* Levels of Planning, 5

In Scrum there are 5 levels of planning identified as:

- 1. Vision
- 2. Roadmap
- 3. Release
- 4. Sprint
- 5. Daily

### \* Liskov Substitution Principle

See Also: <u>SOLID OOD Principles</u>: <u>SingleResponsibilityPrinciple</u>, <u>OpenClosedPrinciple</u>, <u>InterfaceSegregationPrinciple</u>, <u>DependencyInjectionPrinciple</u>

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### \* Load Test

See Also:

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#### **Minimum Marketable Features**

The smallest set of functionality that must be realized in order for the customer to perceive value. A "MMF" is characterized by the three attributes: minimum, marketable, and feature. A feature is something that is perceived, of itself, as value by the user. "Marketable" means that it provides significant value to the customer; value may include revenue generation, cost savings, competitive differentiation, brand-name projection, or enhanced customer loyalty. A release is a collection of MMFs that can be delivered together within the time frame.

References: Wikipedia
Return To Glossary





### **OpenUP**

See Open Unified Process

Return To Glossary

### \* Open Unified Process

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### \* Open Closed Principle

See Also: <u>SOLID OOD Principles</u>: <u>SingleResponsibilityPrinciple</u>, <u>LiskovSubstitutionPrinciple</u>, InterfaceSegregationPrinciple, DependencyInjectionPrinciple

### \* Osmotic Communication

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### **Pair Programming**

"An <u>Agile software development</u> technique in which two programmers work together at one workstation. One types in code while the other reviews each line of code as it is typed in. The person typing is called the driver. and the person reviewing the code is called the observer or navigator. The two programmers switch roles frequently." (Wikipedia)

Pair programming is one of the original 12 <u>extreme programming</u> practices. As counter-intuitive as it may seem to the uninitiated, pair programming is more productive than two individuals working independently on separate tasks.

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### **Parallel Development**

Parallel development occurs whenever a software development project requires separate development efforts on related code bases. For example, when a software product is shipped to customers, a product development team may begin working on a new major feature release of the product, while a product maintenance team may work on defect corrections and customer patch releases of the shipped product. Both teams begin work from the same code base, but the code necessarily diverges. Frequently the code bases used in parallel development efforts must be merged at some future date, for example, to ensure that the defect corrections provided by the product maintenance team are integrated into the major release that the product development team is working on.

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### \* Pareto Principle

References: BetterExplained, Wikipedia

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### \* Parking Lot

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#### **Pattern**

See: <u>Design Pattern</u>
Return To Glossary

### \* Performance Test

See Also: Profiling, <u>Acceptance Test</u>, <u>Functional Test</u>, <u>SystemTest</u>, <u>Integration Test</u>, <u>Unit Test</u>, <u>Stress Test</u>, <u>Load</u>

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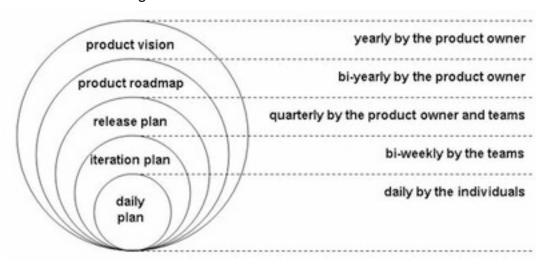
### Pig

Scrum slang. Someone who is responsible for doing a task on an active <u>iteration</u>. It comes from the joke, "A chicken and a pig talk about breakfast. The chicken says, 'Let's have bacon and eggs.' The pig replies, 'That's fine for you. You are just making a contribution, but I have to be fully committed." Pigs are actively involved in the project.

See also: <u>Chicken</u>
References: <u>Wikipedia</u>
Return To <u>Glossary</u>

### **Planning**

5 Levels of Planning



plans are useless but planning is indispensable. Dwight Eisenhower

See Also: Product Vision, Product Roadmap, Release Plan, Sprint Plan, Daily Standup

References: AgileJournal, RallyDev

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### **Planning Game**

"The main planning process within extreme programming is called the Planning Game. The game is a meeting that occurs once per iteration, typically once a week. The planning process is divided into two parts." (Wikipedia)

In XP, the planning game includes iteration (or sprint) planning and release planning. In scrum, sprint and release planning are two of the five levels of planning used in Agile projects.

See also: Sprint Planning Meeting, Release Planning

References: Wikipedia

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### **Planning Poker**

"Planning Poker is a consensus-based technique for estimating, mostly used to estimate effort or relative size of tasks in software development." (Wikipedia)

Planning poker is a game used to apply estimates to stories. It uses a voting approach designed to avoid influence bias (anchoring).

#### How it Works:

- 1. Each estimator selects a set of cards.
- Facilitator reads item to be estimated, and moderates a brief discussion to clarify details.
- 3. Facilitator calls for estimates. Each estimator places estimate face down, hiding the value.
- 4. Facilitator calls for vote, and all estimators turn over cards at the same time.
- 5. If all cards agree, their value is recorded as the estimate.
- Otherwise, facilitator asks high and low estimators to explain their reasoning, and moderates a brief discussion to clarify issues.
- 7. Repeat 3-6 until estimates converge

References: Wikipedia
Return To Glossary

### \* Pragmatic Programming

See Also: Agile Development Methods

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### \* Predictive

See Also: Adaptive, Reactive

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### \* Prioritization

See Also: Product Backlog

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### \* Process Framework

### **Product**

Broadly speaking, product refers to a collection of tangible and intangible features that are integrated and packaged into software releases that offer value to a customer or to a market. The term "product" is often used in Agile software development to denote the software that is the subject of the <u>iteration</u> or <u>release</u>. As such, "product" is generally used interchangeably with other names for software release including "software release", "system", or "business application."

References: Wikipedia
Return To Glossary

### **Product Backlog**

The product backlog (or "backlog") is the requirements for a system, expressed as a prioritized list of product backlog Items. These included both functional and non-functional customer requirements, as well as technical team-generated requirements. While there are multiple inputs to the product backlog, it is the sole responsibility of the product owner to prioritize the product backlog.

During a <u>Sprint planning meeting</u>, backlog items are moved from the product backlog into a sprint, based on the product owner's priorities.

See: <u>Backlog</u>
Return To <u>Glossary</u>

### \* Product Backlog Item

A unit of work, usually a story or a task, listed on the project backlog.

See Also: Product Backlog, Backlog, Backlog Item, Story, Task

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#### **Product Owner**

Product Owner is one of the key roles in <u>Scrum</u>. The product owner is the primary business representative who represents the business <u>stakeholders' "voice of the customer"</u> and the "voice of the business" to the sprint team. The responsibilities of the Product Owner include:

- Establishing, nurturing, and communicating the product vision
- Creating and leading a team of developers to best provide value to the customer
- · Monitoring the project against its ROI goals and an investment vision
- Making decisions about when to create an official release

The product owner is a role rather than a position. Consequently, several people likely participate in the product owner role for larger projects.

References: Wikipedia
Return To Glossary

### \* Product Roadmap

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#### **Product Vision**

The product vision is one of the five levels of planning.

A product vision is a brief statement of the desired future state that would be achieved through the project initiative. The product vision may be expressed in any number of ways including financial performance, customer satisfaction, market share, functional capability, etc. The product vision is typically the responsibility of executive sponsorship and is articulated to the Agile development team by the business and by the product owner, if the team is using Scrum.

References: Wikipedia: Elevator Pitch

See also: <u>Product</u>
Return To <u>Glossary</u>

### \* Productivity

Return To Glossary

### \* Profiling

See Also: Performance Test

Return To Glossary





#### \* Reactive

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### Refactoring

Changing existing software code in order to improve the overall design. Refactoring normally doesn't change the observable behavior of the software; it improves its internal structure. For example, if a programmer wants to add new functionality to a program, she may decide to refactor the program first to simplify the addition of new functionality in order to reduce technical debt.

Refactoring is one of the original twelve <u>extreme programming</u> practices and is considered critical for incrementally maintaining technical quality on Agile development projects.

See Also: Code Smell, Extreme Programming, Technical Debt, Design Pattern

References: Wikipedia

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### Release (Software)

The movement of a software product or system from development into production. One principle of Agile development is to focus on releasing software into productive use as soon as a minimum marketable feature set can be delivered, and then proceeding with frequent incremental releases. This is in contrast to alternative project approaches where most requirements are delivered in one "big bang" release.

It is desirable in Agile development to produce releasable software after every iteration (or sprint), even if the code is not actually put into production for use by end-users.

See Also: Minimum Marketable Features

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### **Release Backlog**

**TBD** 

See Also:

Return To Glossary

### **Release Management**

**TBD** 

See Also:

Return To Glossary

### **Release Plan**

The release plan is a schedule for releasing software into productive use. Typical release plans include the key features to be delivered, along with corresponding release dates. Release plans may also expose key milestones or dependencies that parallel project activities. In agile development, release plans can be mapped back to the <u>iterations</u> (<u>sprints</u>) that implement the released features.

See Also: Release, Release Planning

References: Wikipedia
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### **Release Planning**

Release planning refers to planning activities used to estimate when software will be released into product use. Activities include projecting the level of effort in terms of the number of <u>iterations</u> that will be necessary to deliver the desired features. This is typically done by extrapolating the development team's performance on the basis of its velocity.

A release planning meeting that brings together all parties that have a stake in the outcome and have some kind of delivery responsibility to achieve the release is often necessary to produce a viable release plan. This is especially the case when several development and non-development production efforts are running in parallel with possible dependencies.

Release planning is one of the five levels of planning.

See Also: Release Plan, Release, Sprint, Velocity

References: Wikipedia
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## **Research Story**

TBD

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#### Resources

**TBD** 

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### Retrospective

A time-boxed meeting held at the end of an <u>iteration</u>, or at the end of a <u>release</u>, in which the team examines its processes to determine what succeeded and what could be improved. The retrospective is key to an Agile team's ability to "<u>inspect and adapt</u>" in the pursuit of "continuous improvement." The Agile retrospective differs from other methodologies' "Lessons Learned" exercises, in that the goal is not to generate a comprehensive list of what went wrong. A positive outcome for a retrospective is to identify one or two high-priority action items the team wants to work on in the next iteration or release. The emphasis is on actionable items, not comprehensive analysis. Retrospectives may take many forms, but there is usually a facilitator, who may or may not be a member of the team, and the process is typically broken down into three phases: data gathering, data analysis, and action items.

See Also: Sprint, Release, Inspect & Adapt, Effective Retrospectives, CANI, Kaizen, Inspect & Adapt

References: Wikipedia
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\* Ri

See Also: Shu-Ha-Ri, Shu, Ha

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\* ROI

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#### \* Ron Dori

See Also:

# S

#### \* Schedule

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## \* Scope

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### **Scrum**

A lightweight process framework originally developed in 1995 by Ken Schwaber and Jeff Sutherland.

Scrum is a framework for the iterative development of complex products, particularly software. Scrum is the most widely recognized Agile framework, and is compatible with other Agile practices like <a href="Extreme Programming">Extreme Programming</a>. Scrum is comprised of a series of short iterations - called <a href="Sprints">Sprints</a> - each of which ends with the delivery of an increment of working software. The framework is comprised of:

- Three roles of the Scrum Team
  - 1. Product Owner
  - 2. ScrumMaster
  - 3. Delivery Team
- Five Time-boxes:
  - 1. Sprint
  - 2. Sprint Planning Meeting
  - 3. Daily Standup Meeting
  - 4. Sprint Review
  - 5. Retrospective
- · Three artifacts:
  - 1. Burn-down charts
  - 2. Product backlog
  - 3. Sprint backlog

Sometimes the term Scrum is used interchangeably with the term <u>Agile</u>, but this is incorrect. Agile is not a framework, but a broader <u>set of values and principles</u>, while Scrum is a specific framework that fits comfortably under the Agile umbrella.

See Also:

References: <u>ScrumAlliance</u>, <u>Scrum.org</u>, <u>ScrumGuide</u>

#### **ScrumBut**

ScrumButs are reasons why teams can't take full advantage of Scrum to solve their problems and realize the full benefits of product development using Scrum. Every Scrum role, rule, and timebox is designed to provide the desired benefits and address predictable recurring problems. ScrumButs mean that Scrum has exposed a dysfunction that is contributing to the problem, but is too hard to fix. A ScrumBut retains the problem while modifying Scrum to make it invisible so that the dysfunction is no longer a thorn in the side of the team.

A ScrumBut has a particular syntax: (ScrumBut)(Reason)(Workaround)

ScrumBut Examples:

"(We use Scrum, but) (having a Daily Scrum every day is too much overead,) (so we only have one per week.)"

"(We use Scrum, but) (Retrospectives are a waste of time,) (so we don't do them.)"

"(We use Scrum, but) (we can't build a piece of functionality in a month,) (so our Sprints are 6 weeks long.)"

"(We use Scrum, but) (sometimes our managers give us special tasks,) (so we don't always have time to meet our definition of done.)"

Sometimes organizations make short term changes to Scrum to give them time to correct deficiencies. For example, "done" may not initially include regression and performance testing because it will take several months to develop automated testing. For these months, transparency is compromised, but restored as quickly as possible.

See Also: Scrum, ScrummerFall, ScrumPlus

References:

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#### ScrummerFall

Waterfall management style using iterations and scrum elements. Waterfall/SDLC have distinct stages (Analysis, Design, Develop, Test, Deploy, Maintenance). Scrum combines all stages in a single sprint (iteration).

ScrummerFall happens when a group attempts to bridge these two concepts: Design/Requirement docs are generated in detail ahead of time. Development is completed each sprint then passed to another team for testing outside of that sprint.

a.k.a: Mini-Waterfall

See Also: Scrum, ScrumBut, ScrumPlus

References:

### **ScrumPlus**

Enhancing the Scrum kernel with additional Agile practices that improve transparency, engineering focus, quality management, release management...

See Also: Scrum, ScrumBut, ScrummerFall,

References:

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### **Scrum Team**

The scrum team consists of three roles;

#### 1. ScrumMaster

Maintains the processes (typically in lieu of a project manager)

#### 2. Product Owner

Represents the stakeholders and the business

#### 3. Delivery Team

A <u>cross-functional</u> group who do the actual analysis, design, implementation, testing, etc.

References: Wikipedia:Project Manager

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#### **ScrumMaster**

The ScrumMaster is responsible for maintaining the Scrum process and the overall health of the team. The ScrumMaster assures that the team is fully functional and productive. The ScrumMaster performs this role by administering the <a href="Scrum">Scrum</a> time-boxes, facilitating the organic <a href="self-organization">self-organization</a> of the team, and removing any obstacles that may be impeding the team's progress.

What the ScrumMaster is not:

The ScrumMaster is not the task master, since the team is responsible for assigning its own tasks.

The ScrumMaster is not the supervisor of the team, since the supervisor/subordinate relationship may impede the organic self-organization of the team.

A good ScrumMaster proactively anticipates problems, opportunities for improvement, and conducts pre-planning so the team can focus on delivering its sprint commitments. The ScrumMaster also keeps the team honest regarding its commitments and helps the team identify opportunities to improve collaboration.

In Scrum, when the Scrum roles are properly fulfilled there is no need for a traditional project manager to supervise the team. Nevertheless, many organizations choose to retain project managers, after they adopt Scrum, to perform functions that extend beyond the scope of the Scrum team functions.

References: Wikipedia

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#### **Scrum Snowman**

The scrum process of frequent and early feedback cycles is often referred to as the "snowman model" as the cyclic graph resembles a snowman.



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References: MountainGoatSoftware

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## **Self-Organization**

Self-organization is a property of <u>complex adaptive systems</u>, whereby the organization of the system emerges over time as a response to its environment. In Agile development, particularly in Scrum, self-organization is a property of the agile development team, which organizes itself over time, rather than being ordered by an external force such as a project or development manager. Self-organization also reflects the management philosophy whereby operational decisions are delegated as much as possible to those who have the most detailed knowledge of the consequences and practicalities associated with those decisions.

See Also: Emergence, Inspect and Adapt

References: Wikipedia: Self-Organization, Wikipedia: Complex Adaptive Systems

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## \* Shu

See Also: Shu-Ha-Ri, Ha, Ri

Return To Glossary

#### \* Shu-Ha-Ri

See Also: <u>Shu, Ha, Ri</u> Return To <u>Gloss</u>ary

### \* Sidebar

See Also: Parking Lot

## \* Single Responsibility Principle

See Also: SOLID OOD Principles:

Single Responsibility Principle

Open Closed Principle,

Liskov Substitution Principle,

Interface Segregation Principle,

**Dependency Injection Principle** 

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# \* Software Quality Metrics

Dynamic Source Analysis

Code Coverage

Line Coverage

**Branch Coverage** 

Method Coverage

Class Coverage

Package Coverage

Static Source Analysis

Coding Standards

Style, Formatting

StyleCop

Architectural Rules Compliance

Findbugs, PMD, Checkstyle, FxCop

LCOM4

Complexity

**CCN** 

**NCSS** 

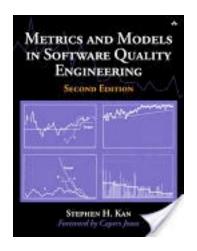
Coupling

Afferent Coupling

**Efferent Coupling** 

Spider Graph

**Duplication: CPD** 



See Also: Wikipedia, Sonar-Metrics

Return To Glossary

## \* SOLID OOD Principles

See Also: Single Responsibility Principle

Open Closed Principle,

Liskov Substitution Principle,

Interface Segregation Principle,

**Dependency Injection Principle** 

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## **Spike**

A story or task aimed at answering a question or gathering information, rather than implementing product features, user stories, or requirements. Sometimes a user story is generated that cannot be estimated until the development team does some actual work to resolve a technical question or a design problem. The solution is to create a "spike," which is a story whose purpose is to provide the answer or solution. Like any other story or task, the spike is then given an estimate and included in the <u>sprint backlog</u>.

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## **Sprint**

The <u>Scrum</u> term for an <u>iteration</u>. The sprint starts with a <u>sprint planning meeting</u>. At the end of the sprint there is a <u>sprint review</u> meeting, followed by a <u>sprint retrospective</u> meeting.

References: Wikipedia
Return To Glossary

# **Sprint Backlog**

A list of features, user stories or tasks that are pulled from the product backlog for consideration for completion during the upcoming sprint. Product backlog features and user stories are broken down into tasks to form the sprint backlog during the sprint planning meeting.

See Also: <u>Backlog</u>, <u>Sprint</u> References: <u>Wikipedia</u> Return To <u>Glossary</u>

# **Sprint Burn-Down Chart**

See Burn-Down Chart

# **Sprint Planning Meeting**

Each <u>sprint</u> begins with a two-part sprint planning meeting, the activity that prioritizes and identifies stories and concrete tasks for the next sprint. For a one-month or four-week sprint,

this two-part meeting should last eight hours; for a two-week sprint, it lasts about four hours. As a general rule of thumb, the number of weeks in a sprint multiplied by two hours equals the total length of the spring planning meeting.

- Part one of the sprint planning meeting is a review of the <u>product backlog</u>. This is when the <u>product owner</u> describes what needs to be built for the next <u>sprint</u>. During this part of the meeting, it is not uncommon for the team to discuss the sprint objectives with the product owner, and ask clarifying questions and remove ambiguity.
- During part two of the sprint planning meeting, the team decides how the work will be built.
  The team will begin decomposing the product backlog items into work tasks and estimating
  these in hours. The product owner must be available during this meeting but does not have to
  be in the room. The output of the second planning meeting is the Sprint Backlog.

References: Wikipedia, Card-Conversation-Confirmation

Return To Glossary

### **Sprint Review**

A meeting held at the end of each <u>sprint</u> in which the <u>delivery team</u> shows what they accomplished during the sprint; typically this takes the form of a demo of the new features. The sprint review meeting is intentionally kept very informal. With limited time allocated for Sprint review prep. A sprint review meeting should not become a distraction or significant detour for the team; rather, it should be a natural result of the sprint.

References: Wikipedia
Return To Glossary

#### Stakeholder

Anyone external to the team with a vested interest in the outcome of the team's work.

See Also: <u>Chicken</u>
References: <u>Wikipedia</u>
Return To <u>Glossary</u>

# **Standup Meeting**

The Daily Standup Meeting is a minimalist status meeting, <u>time-boxed</u> to fifteen minutes. Its purpose is to ensure that questions are answered quickly, that issues are identified and addressed quickly, and to provide <u>Team members</u> with a common understanding of how the <u>Sprint</u> is progressing. The <u>ScrumMaster</u> facilitates this meeting.

Three questions asked:

- · What have you done since last daily scrum?
- What will you do before the next daily scrum?
- What obstacles are impeding your work?

These items are often referred to as Y-T-I (Yesterday, Today, Impediments)

The <u>ScrumMaster</u> ensures that participants call sidebar meetings for any discussions that go too far outside these constraints.

The Scrum literature recommends that this meeting take place first thing in the morning, as soon as all team members arrive.

a.k.a: Daily Scrum, Daily Standup

References: Wikipedia
Return To Glossary

## **Story**

Scrum requirements written in short narrative form. There are 5 types of requirement stories:

- 1. User Story
- 2. Technical Story
- 3. Defect
- 4. Spike
- 5. Tracer Bullet

See User Story

References: Wikipedia, Card-Conversation-Confirmation

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# **Story Points**

Story points are an abstract measure of effort to implement a story. Story points can be evaluated in either Absolute or Relative units.

Absolute units are directly related to time with 1 story point equal to 8 person hours of work. Because absolute units are directly related to time they can be compared across teams.

Relative units are based on a known pivot story and are rated as either larger or smaller than the pivot by some factor. The size of the pivot is specific to the team, therefore estimates of stories across teams are not equal, nor are velocity measurements.

See also: <u>Estimation</u>
Return To <u>Glossary</u>

#### \* Stress Test

See Also: <u>Load Test</u> Return To Glossary

# \* Swarming

# Т

#### **Task**

Tasks are descriptions of the actual work that an individual or pair does in order to complete a <u>story</u>. They are manageable, doable, and trackable units of work. Typically, there are several tasks per story. Tasks have the following attributes, and all tasks must be verified complete - not just "done":

- A description of the work to be performed, in either technical or business terms
- An estimate of how much time the work will take (hours, days)
- · An owner, who may or may not be pre-assigned
- · An exit criteria and verification method (test or inspection)
- · An indication of who will be responsible for the verification

See Also: Story, Sprint Planning, Task Breakdown

References: Wikipedia
Return To Glossary

#### **Task Board**

A chart that presents, at minimum, "to do", "in progress", and "done" columns for organizing a team's work. Some teams include their <u>backlog</u> as a column on the task board, while others limit it to work to be performed during the current <u>iteration</u>. Ideally, the task board is a physical thing, consisting of note cards or sticky notes affixed to a wall, although distributed teams may use an online task board application. The task board may illustrate <u>tasks</u> or other forms of work such as <u>user stories</u>. In <u>Scrum</u>, the task board is often used to illustrate the tasks for the current sprint, populated with tasks for the current sprint, while other Agile teams may populate it with <u>user stories</u>.

See Also: Sprint Backlog, Sprint Planning, Task, Kanban, Big Visible Charts

References: Wikipedia
Return To Glossary

#### \* Task Breakdown

Return To Glossary

#### **Team**

In Agile Software Development, the team refers to the cross-functional group of people that have made a collective commitment to work together to produce the work product and improve their performance over time. In addition to software development and test roles, the team may include any skill set necessary to deliver the work product.

In Scrum the Team can refer to one of two groups of people

- 1. <u>Scrum Team</u>: members identified by each of 3 Scrum roles.
- 2. Delivery Team: A cross-functional subset of the Scrum Team.

See Also: Scrum Team, Delivery Team, Self-Organization

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#### **Technical Debt**

A term coined by <u>Ward Cunningham</u> to describe the obligation that a software organization incurs when it chooses a design or construction approach that's expedient in the short term but that increases complexity and is more costly in the long term. Whether or not to incur technical debt is a tradeoff decision that ideally is made in a deliberate manner at the point that work occurs.

See Also: Refactoring
References: Wikipedia
Return To Glossary

## \* Technical Story

See Also: Story
Return To Glossary

#### **Test Automation**

"The use of software to control the execution of tests, the comparison of actual outcomes to predicted outcomes, the setting up of test preconditions, and other test control and test reporting function." (Wikipedia)

In agile development, test automation is frequently used to automate unit tests, integration tests, and functional tests. Since the definition of done for most agile projects requires that code be thoroughly tested by the end of the iteration, test automation is critical if not necessary to obtain acceptable velocity. In addition, for most practical purposes, test automation is necessary to effectively apply continuous integration and remain true to the commitment to not "break the build."

See Also: <u>Unit Testing</u>
References: <u>Wikipedia</u>
Return To <u>Glossary</u>

# **Test-Driven Development**

"Test-Driven Development is a software development process that relies on the repetition of a very short development cycle: first the developer writes a failing automated test case that defines a desired improvement or new function, then produces code to pass that test and finally refactors the new code to acceptable standards." (Wikipedia)

Ken Beck is credited for having invented TDD, one of the original 12 XP practices.

See Also: <u>Unit Testing</u>
References: <u>Wikipedia</u>
Return To <u>Glossary</u>

### **Time-box**

A time-box is a time period of fixed length allocated to achieve some objective. In agile development, iterations and sprints are examples of time-boxes that limit work in process and stage incremental progress. Time-boxes are often used to avoid over-investing in tasks such as estimating development tasks.

References: Wikipedia
Return To Glossary

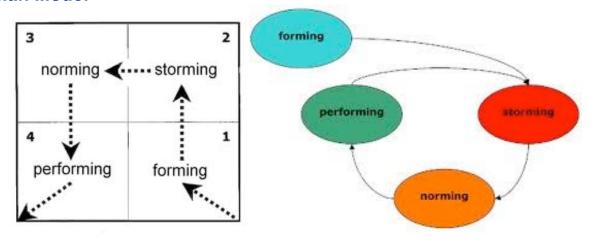
#### \* Tracer Bullet

Return To Glossary

# \* Transparency

Return To Glossary

### \* Tuckman Model



References: Wikipedia, TeamTechnology, TuckmansTeamDevelopmentModel.pdf

Return To Glossary



## **Unit Testing**

"A unit is the smallest testable part of a software system. In procedural programming, a unit may be an individual function or procedure." (Wikipedia)

Comprehensive unit test coverage is an important part of software integrity and should be automated to support the incremental delivery requirements of agile software development teams. In most cases, unit testing is the responsibility of the developer.

See Also: <u>Test-Driven Development</u>, <u>Test Automation</u>

References: Wikipedia
Return To Glossary

## **User Story**

A requirement, feature and/or unit of business value that can be estimated and tested. Stories describe work that must be done to create and deliver a feature for a product. Stories are the basic unit of communication, planning, and negotiation between the Scrum Team, Business Owners, and the Product Owner. Stories consist of the following elements:

- A description, usually in business terms
- A size, for rough estimation purposes,
  - generally expressed in story points (such as 1, 2, 3, 5)
- · An acceptance test, giving a short description of how the story will be validated

See Also: Story, Technical Story, Defect, Spike, Tracer Bullet, INVEST

References: Wikipedia
Return To Glossary



# **Velocity**

Velocity measures how much work a team can complete in an <u>iteration</u>. Velocity is often measured in <u>stories</u> or story points. Velocity may also measure tasks in hours or an equivalent unit. Velocity is used to measure how long it will take a particular team to deliver future outcomes by extrapolating on the basis of its prior performance. This works in Agile development, when work is <u>comprehensively completed</u> after each <u>iteration</u>.

References: Wikipedia
Return To Glossary

# \* Velocity Tracking

Return To Glossary

#### **Vision**

See Product Vision

## **Voice of the Customer (VOC)**

"Voice of the Customer (VOC) is a term used in business and Information Technology (through ITIL) to describe the in-depth process of capturing a customer's expectations, preferences, and aversions. Specifically, the Voice of the Customer is a market research technique that produces a detailed set of customer wants and needs, organized into a hierarchical structure, and then prioritized in terms of relative importance and satisfaction with current alternatives." (Wikipedia)

References: Wikipedia
Return To Glossary



#### Wiki

An editable intranet site where details of stories and tracking information may be recorded during development.

References: Wikipedia
Return To Glossary

#### \* WIP

See Work inProgress.
Return To Glossary

#### \* Work Breakdown Structure

Return To Glossary

# Work in Progress (WIP)

Any work that has not been completed but that has already incurred a capital cost to the organization. Any software that has been developed but not deployed to production can be considered a work in progress.

References: Wikipedia
Return To Glossary



#### XP

See: Extreme Programming



# \* YAGNI

You Aint Gonna Need It (yet)

Return To Glossary

# \* YAGRI

You Aint Gonna Release It (yet)



# **Reference Articles and Papers**

The following are links and abstracts relating to various articles and blogs found on the web. This collection of articles were chosen for their value and importance to Agile Software Development.

## **Agile Architectures**

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### **Agile Architecture**

by Chris Sterling @ SolutionsIQ, CST by Mickey Phoenix @ SolutionsIQ, CSM

As companies begin to embrace Agile methods, questions about architecture begin to emerge. In this presentation, learn about the approaches two experts took to better align businesses with architecture goals.

#### **Distributed Scrum**

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### Successful Distributed Agile Team Working Patterns

by Monica Yap @ SolutionsIQ, CSM

Explore some common successful distributed team working patterns that have been used on distributed Agile development projects in this white paper and related presentation.

#### **Case Study: Implementing Distributed Extreme Programming**

by Monica Yap @ SolutionsIQ, CSM

This white paper details the challenges a team at WDSGlobal faced in a distributed development environment, lessons learned, and how issues such as global continuous integration, cultural differences, and conflicting priorities were resolved across regions.

#### **Daily Scrums in a Distributed World**

by Kevin Thompson @ cPrime.com, CSM, CSP, PMP, PhD

#### Meta-Scrum

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#### **Establishing and Maintaining Top to Bottom Transparency Using Meta-Scrum**

by Brent Barton @ SolutionsIQ, CST

Learn how a properly executed Meta-Scrum helps drive transparency vertically into the organization in this Agile Journal article.

## **Agile Adoption**

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#### **Introduction to Scrum**

by Kevin Thompson @ cPrime.com, CSM, CSP, PMP, PhD

The benefits and practices of Scrum

#### **Scrum as Project Management**

by Kevin Thompson @ cPrime.com, CSM, CSP, PMP, PhD

Comparing and Contrasting Scrum to Traditional Project Management

#### The Agile Story: Scrum Meets PMP

by Crystal Lee @ cPrime, PMP, CSM

Do you know what a Scrum is? Wondering if you should try Scrum on your next project?

#### When to Use Scrum

by Kevin Thompson @ cPrime.com, CSM, CSP, PMP, PhD

Scrum is a lightweight agile process framework used primarily for managing software development.

#### **Agile Top-Down: Striking a Balance**

by Bryan Stallings @ SolutionsIQ, CST

Agile is being evangelized in executive boardrooms and introduced top-down with increasing frequency. Learn about the appropriate role of senior leadership in an effective Agile transformation in this Agile Journal article.

### **Agile ROI Part I: The Business Case for Agility**

by John Rudd @ SolutionsIQ

This Agile Journal article describes some of the financial benefits of adopting Agile and how to quantify the potential value of these innovative practices for your organization. Learn how Agile methods can help financial professionals squeeze money out of work-in-process, drive risk out of projects, and improve project and portfolio return.

### Agile ROI Part II: The Business Case for Agility

by David Wylie @ SolutionsIQ

This presentation explores how to quantify the potential value of Agile practices for your organization and how to demonstrate this value for key decision makers.

#### **Scrum in the Enterprise**

by Kevin Thompson @ cPrime.com, CSM, CSP, PMP, PhD

"Scrum in the Enterprise" is a white paper written by Kevin Thompson, one of cPrime's Agile Implementation Specialists. The paper talks about the common issues that companies face while making the transition to Agile Development, while explaining how

to prepare for and overcome them. Kevin writes about topics from how to use Scrum in a hybrid environment to how to collaborate in Scrum teams. This white paper will interest and benefit anyone who is involved with Agile projects or just interested in the methodology.

#### **How Uncertainty Works**

by Kevin Thompson @ cPrime.com, CSM, CSP, PMP, PhD

Why it exists, how it behaves, how it accumulates, how to reduce it, and how to cope with it.

#### The Price of Uncertainty

by Kevin Thompson @ cPrime.com, CSM, CSP, PMP, PhD

A Mathematical Analysis of Classic and Agile Processes

Proponents of agile development processes, such as Scrum, frequently claim that agile projects are more likely to be successful than traditional plan-driven projects. Unfortunately, attempts to validate this claim based on statistical evidence are difficult. The difficulty arises partly because the two approaches have different concepts of success, and partly because definitions of success are not uniform even within each approach. This paper addresses the question by performing a simple mathematical analysis of plan-driven and agile projects.

### **How Agile should your Project be?**

by Kevin Thompson @ cPrime.com, CSM, CSP, PMP, PhD

Advocates of agile development claim that agile software projects succeed more often than classic plan-driven projects. Unfortunately, attempts to validate this claim statistically are problematic, because "success" is not defined consistently across studies. This paper addresses the question through a mathematical analysis of these projects. We model agile and plan-driven software projects with identical requirements, and show how they are affected by the same set of unanticipated problems. We find that that the agile project provides clear benefits for return-on-investment and risk reduction, compared to the plan-driven project, when uncertainty is high. When uncertainty is low, plan-driven projects are more cost-effective. Finally, we provide criteria for choosing effective process types.

#### Integrating Waterfall and Agile Development

by Shayan Alam @ cPrime.com, PMP

Use these tips to help integrate both methodologies into your development organization.

#### **Rational Unified Process Best Practices**

by Crystal Lee @ cPrime.com, PMP,

Provide background on each best practice, in the context of current RUP adoption.

#### **Effective Retrospectives**

by Kendrick Burson @ cPrime.com, CSM, CSPO

A better understanding of Team Retrospectives with plenty of examples of different patterns for facilitating.

#### **Transitioning From Time-Based to Relative Estimation**

by Ilan Goldstein @ ScrumAlliance.org, CSM, CSPO, CSP

Congratulations! You've finally convinced the team that relative story point estimation is a great way to move forward and you're now ready to jump into your first planning poker session. So where do you start? What's a 1-point story? What's a 3-point story? What's a 13-point story? Your team is looking to you and this process is almost as new to you as it is to them.

Most of the issues with gathering requirements in agile software development and agile testing derive from issues with User Stories. Somehow expressing requirements in such a simple form causes a lot of trouble to agile teams. Of course art of writing good User Stories is the most difficult for new teams starting with a new agile project or these, which freshly transformed development methods to agile software development methodologies. Mistakes made at that point lead to wrong Test Cases, wrong understanding of requirements, and the worst of all wrong implementation which can be direct cause of rejecting the deliverables of the iteration. Lets take a look at the five most common mistakes people make writing User Stories.

#### 5 Common Mistakes We Make Writing User Stories

by Krystian Kaczor @ ScrumAlliance; CSM, CSP

Most of the issues with gathering requirements in agile software development and agile testing derive from issues with User Stories. Somehow expressing requirements in such a simple form causes a lot of trouble to agile teams. Of course art of writing good User Stories is the most difficult for new teams starting with a new agile project or these, which freshly transformed development methods to agile software development methodologies. Mistakes made at that point lead to wrong Test Cases, wrong understanding of requirements, and the worst of all wrong implementation which can be direct cause of rejecting the deliverables of the iteration. Lets take a look at the five most common mistakes people make writing User Stories.

# Agile Project Dashboards

Bringing value to stakeholders and top management

by Leopoldo Simini @ ScrumAlliance; CSM, CSP

"Scrum is all about delighting customers and delivering value to stakeholders." I have read this kind of statement since my first day working with Scrum in 2007. Even more, I've had the privilege of taking part on Scrum teams th...

### **Daily Stand-up, Beyond Mechanics: A Measure of Self-Organization**

by Bachan Anand CSM, CSPO, CSP

### **Affinity Estimation for Release Planning**

by Monica Yap @ SolutionsIQ

#### Managing Risk in Scrum, Part 1

by Valerie Morris @ SolutionsIQ

#### **Product Owner Anti-Patterns**

by Monica Yap @ SolutionsIQ

Part 1: The Absent Product Owner

Part 2: The Churning Backlog

Part 3: No Single Product Owner

Part 4: Copy the Old One

#### **Card-Conversation-Confirmation**

by Ron Jeffries, 2001

XP Practices for generating a well groomed backlog, elaborating story contents and validating completed results.

"User stories have three critical aspects. We can call these Card, Conversation, and Confirmation."

Ron Jeffries, 2001

#### **Recognizeing Bottlenecks in Scrum**

by Dhaval Panchal @ SolutionsIQ, CST

Part 1

Part 2

#### If At First You Don't Succeed, Fail, Fail Again

by Michael Tardiff @ SolutionsIQ, CSM, CSPO

#### What is the Definition of Done (DoD) in Agile?

by Dhaval Panchal @ SolutionsIQ, CST

DoD is a collection of valuable deliverables required to produce software.

DoD is the primary reporting mechanism for team members.

DoD is informed by reality.

DoD is not static

DoD is an audit-able checklist.

### **How Should We Deal With the Mess That Scrum Exposes?**

by Monica Yap @ SolutionsIQ, CSM, CSPO

Part 1 of 5) How Should We Deal With the Mess That Scrum Exposes?

Part 2 of 5) Scrum Exposes the Mess With No Quality Built In

Part 3 of 5) Scrum Exposes the Mess of Unstable Code Base

Part 4 of 5) Scrum Exposes the Mess of Excess Specialists

Part 5 of 5) The Mess That Scrum Exposes: Putting It All Together

#### The Afternoon ScrumMaster: Keeping Agile Teams on Track

by Dhaval Panchal @ SolutionsIQ

#### **The Short Short Story**

by Paul Dupuy @ ScrumAlliance; CSM

The short story: How long does it have to be? Scrum teams often use user stories for backlog items. Unfortunately, one of the most important aspects of a story—its extremely short length—has been subtly transformed over time, an...

#### Is Sustainable Pace Nice to Have? Think Again!

by Manoj Vadakkan CSM, CSP

Most of the time, "selling" Agile is easy these days. Everyone agrees that iterative and incremental development is a better alternative; more user interaction is better; so on and so forth. At some point, I will talk about the import...

## **Agile User Interface Design and Information Architecture From the Trenches**

by Robin Dymond @ ScrumAlliance; CSM, CSP, CST

I was a Technology Director in a large web design company 6 years ago, and they failed to adopt Scrum. There were numerous management dysfunctions; however the Creative managers were the most resistant. Primarily, it was a case of not wanting real...

## Why Agile Does Matter in an Embedded Development Environment

by Bent Myllerup @ ScrumAlliance; CSM, CSPO, CSP, CSC

The software industry has achieved great results by introducing agile methods like Scrum. Agile methods create outcomes that benefit customers as well as management and employees of the business. The results have been proven in the form of increas...

#### The Illusion of Precision

by Jim Schiel @ ScrumAlliance; CSM, CSP, CST

For me, one of the most intriguing, yet not explicitly stated, fundamentals of AgileDevelopment is the practice of analyzing and designing just enough of what we are planning to build that we can then move forward to build it. You can find specifi...

### **Specialization and Generalization in Teams**

by Bas Vodde @ ScrumAlliance; CSM, CSPO, CSP, CST

Specialization in Scrum has been a hot topic for many years and pops up at every Scrum course I run. It is an important issue that's particularly relevant for a new team in their first Sprint. Scrum defines specialization as a cross-functio...

### The Importance of Self-Organisation

by Geoff Watts @ ScrumAlliance; CSM, CSP, CSC, CST

"An empowered organization is one in which individuals have the knowledge, skill, desire, and opportunity to personally succeed in a way that leads to collective organizational success." -- Stephen R. Covey, Principle-centered Leadership

## Manager 2.0: The Role of the Manager in Scrum

by Pete Deemer @ ScrumAlliance; CSM, CSP, CST

Bibliography