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TOPICS

GRÁND CIRCUS • Agile • SCRUM





















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WHAT IS AGILE?

Agile methodology is an *alternative* to traditional project management, typically used in software development.

It helps teams respond to *unpredictability* through incremental, iterative work, known as *sprints*.

AGILE

THE 12 PRINCIPLES OF AGILE SOFTWARE

- Our highest priority is to satisfy the customer through early and continuous delivery of valuable software.
- Welcome changing requirements, even late in development. Agile processes harness change for the customer's competitive advantage.
- Deliver working software frequently, from a couple of weeks to a couple of months, with a preference to the shorter timescale.

GRAND AGILE

THE 12 PRINCIPLES OF AGILE SOFTWARE

- The most efficient and effective method of conveying information to and within a development team is face-to-face conversation.
- Businesspeople and developers must work together daily throughout the project.

 Build projects around motivated individuals. Give them the environment and support they need, and trust them to get the job done.

AGILE

THE 12 PRINCIPLES OF AGILE SOFTWARE

- Working software is the primary measure of progress.
- Agile processes promote sustainable development. The sponsors, developers, and users should be able to maintain a constant pace indefinitely.
- Continuous attention to technical excellence and good design enhances agility.

AGILE

THE 12 PRINCIPLES OF AGILE SOFTWARE

- Simplicity—the art of maximizing the amount of work not done—is essential.
- The best architectures, requirements, and designs emerge from self-organizing teams.
- At regular intervals, the team reflects on how to become more effective, then tunes and adjusts its behavior accordingly.

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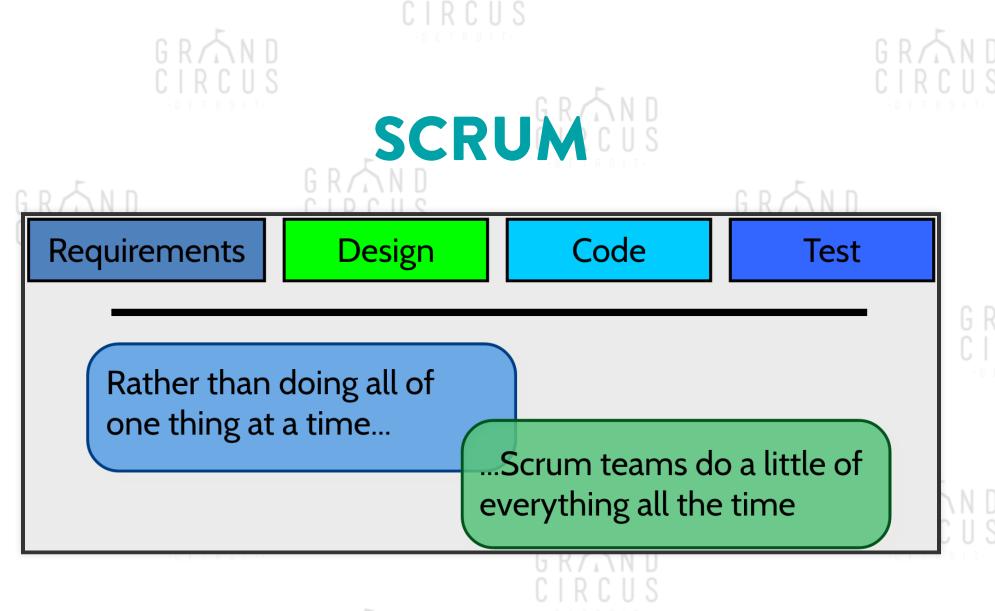
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WHAT IS SCRUM?

- Perhaps the most popular of the agile methodologies
- Uses iterative, incremental practices
- Increases productivity by focusing on building features that the customer really needs









SCRUM VS. WATERFALL

WATERFALL

Using a waterfall process (as opposed to an agile one) involves writing down everything that is necessary to a project to fullest extent possible and then building exactly that.

GRAND VS. SCRUM

A Scrum process is broken up into feedback loops so that problems can be identified and fixed along the way and a minimum amount of work and time is wasted.





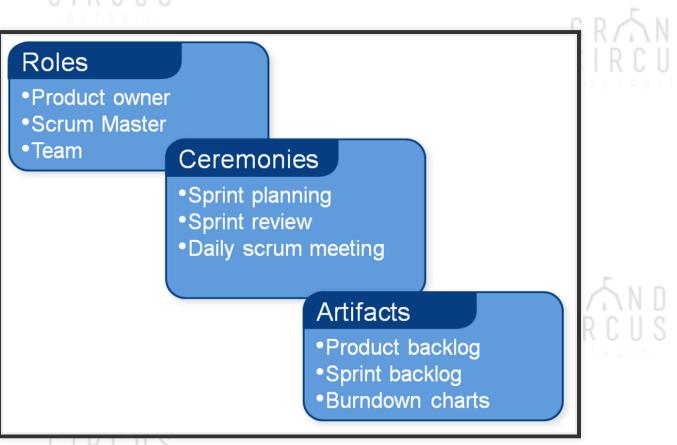


SCRUM FRAMEWORK



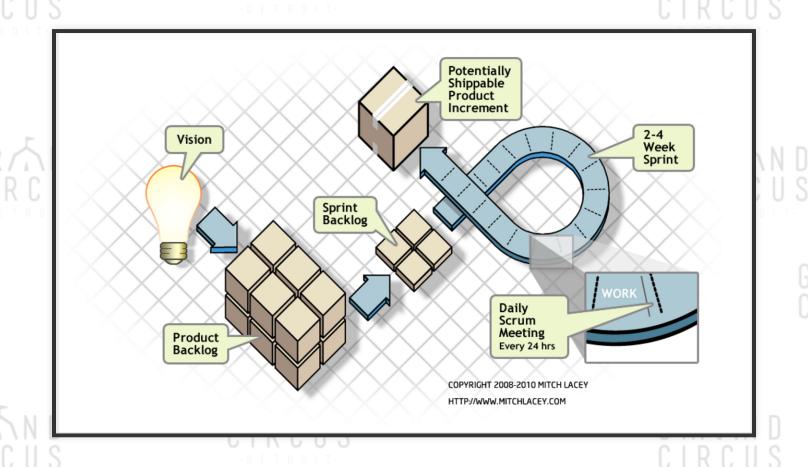






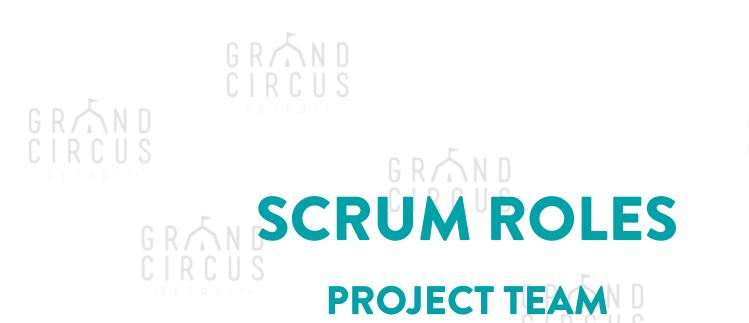
SCRUM PROCESS

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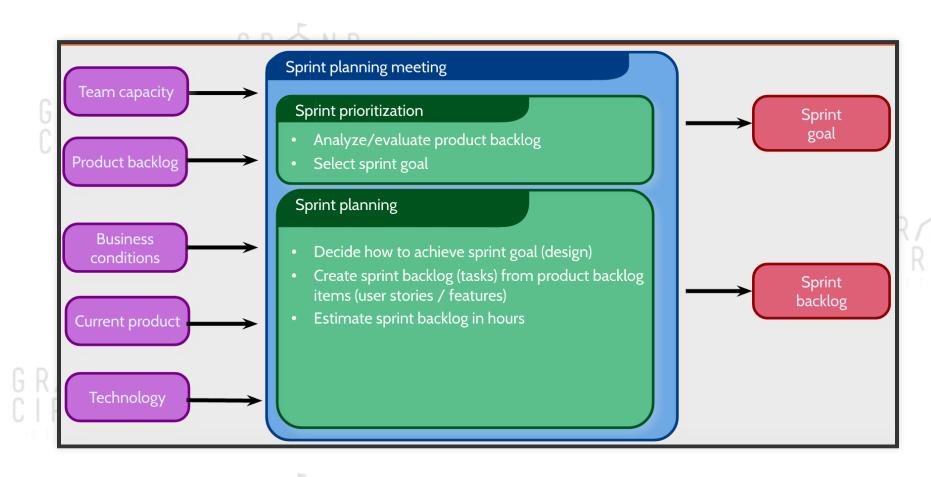
SCRUM ROLES PRODUCT OWNER

- Possibly a Product Manager or Project Sponsor
- Decides features, release date, prioritization, \$\$\$
 SCRUM MASTER
- Typically a Project Manager or Team Leader
- Responsible for enacting Scrum values and practices
- Remove impediments / politics, keeps everyone productive



- 5-10 members; Teams are self-organizing
- Cross-functional: QA, Programmers, UI
 Designers, etc.
- Membership should change only between sprints

SPRING PLANNING MEETING









DAILY SCRUM MEETING

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PARAMETERS

Daily, ~15 minutes, Stand-up

NOT FOR PROBLEM SOLVING

Only team members, Scrum Master, product owner, can talk Helps avoid other unnecessary meetings



DAILY SCRUM MEETING(CONT.)

THREE QUESTIONS ANSWERED BY EACH TEAM MEMBER:

- 1. What did you do yesterday?
- 2. What will you do today?
- 3. What obstacles are in your way?



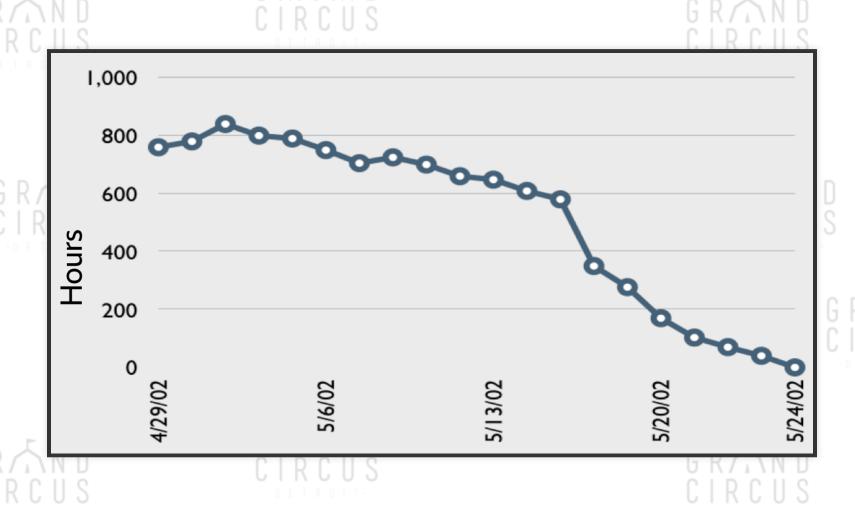


- A display of what work has been completed and what is left to complete
- One for each developer or work item
- Updated every day
- Make best guess about hours/points completed each day





SAMPLE BURNDOWN CHART







SPRINT REVIEW

- Team presents what it accomplished during the sprint
- Typically takes the form of a demo of new features or underlying architecture
- Informal CIRCUS
 - 2-hour prep time rule
 - No slides
- Whole team participates
- Invite the world

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WHAT YOU SHOULD KNOW

- Agile and SCRUM definitions.
- The 12 Agile principles.
- The difference between SCRUM and Waterfall.
- What are the SCRUM framework components.
- What is the SCRUM process.
- What are the SCRUM roles.

CIRCUS (CONT.)

- How to conduct a SCRUM daily meeting.
- What is the Sprint backlog.
 - How to conduct a Sprint planning meeting.
 - What is a Sprint burndown chart.
 - How to conduct a Sprint review meeting.