

Essential Scrum

A short introduction to Scrum
and its underlying Agile
principles



Presented by Tobias Mayer, 11/7/2008

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To Begin...

- **Scrum is not a Methodology.**
- **Scrum is a Framework for surfacing organizational dysfunction.**
- **Scrum doesn't provide answers.
It helps you ask better questions.**
- **Scrum doesn't actually do anything.
People do things.**

PART ONE

Scrum

The Foundation

What is Agile?

- **Agile is a set of values**
 - Individuals/Interactions
 - Working software
 - Customer collaboration
 - Responding to change
- **and twelve principles**
 - <http://agilemanifesto.org/principles.html>

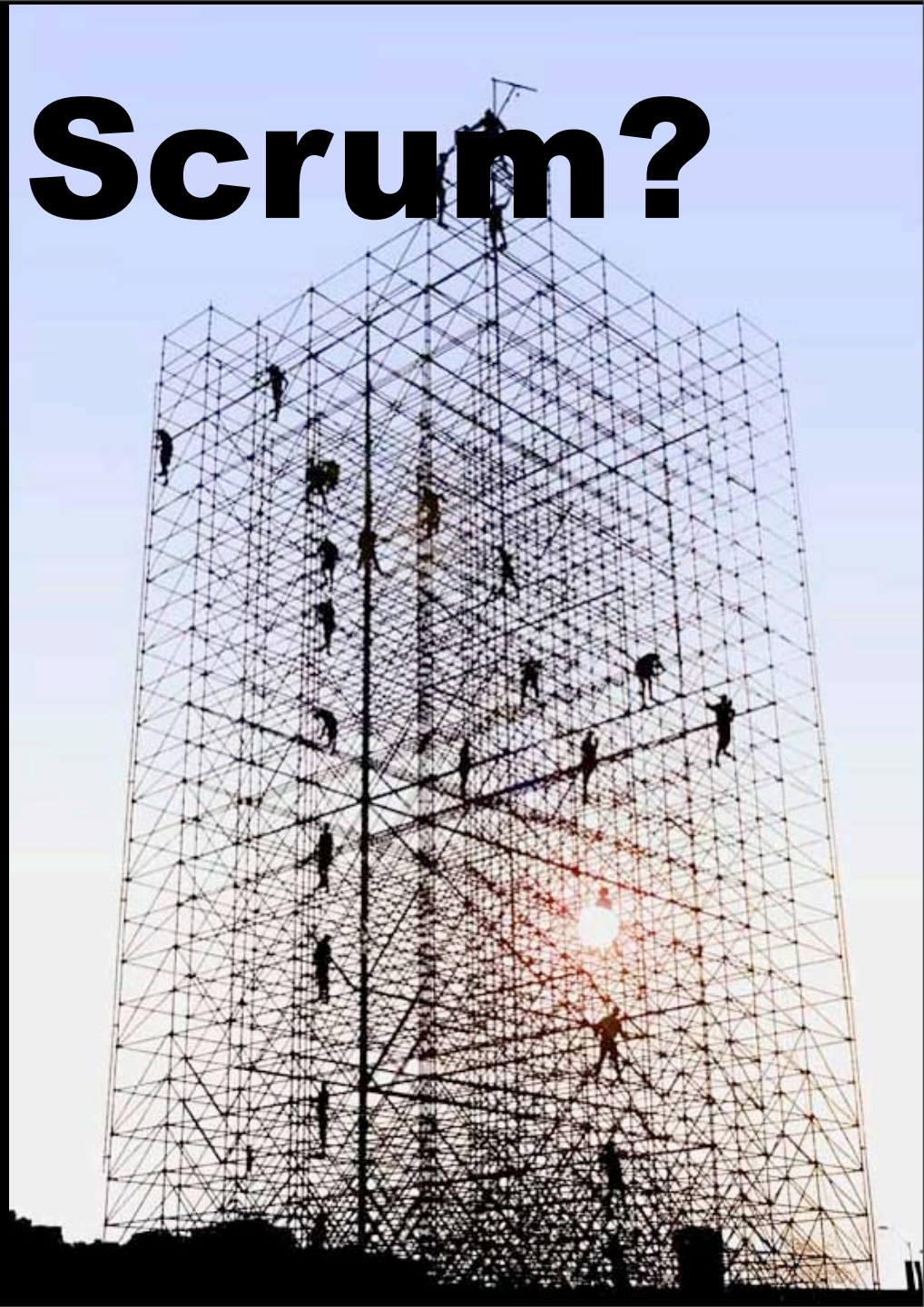
What is Scrum?

Scrum is an Agile framework that allows you to create your own lightweight process for developing new products.

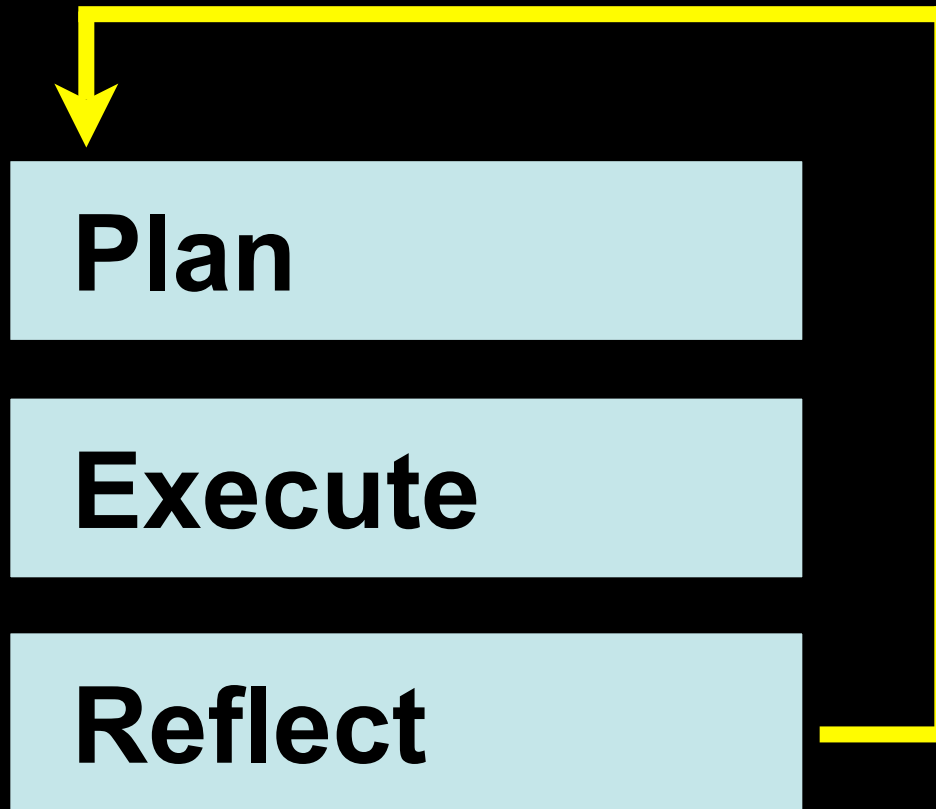
Scrum is simple.
It can be understood and implemented in a few days.
It takes a lifetime to master.

*“Scrum is not a methodology
– it is a pathway”*

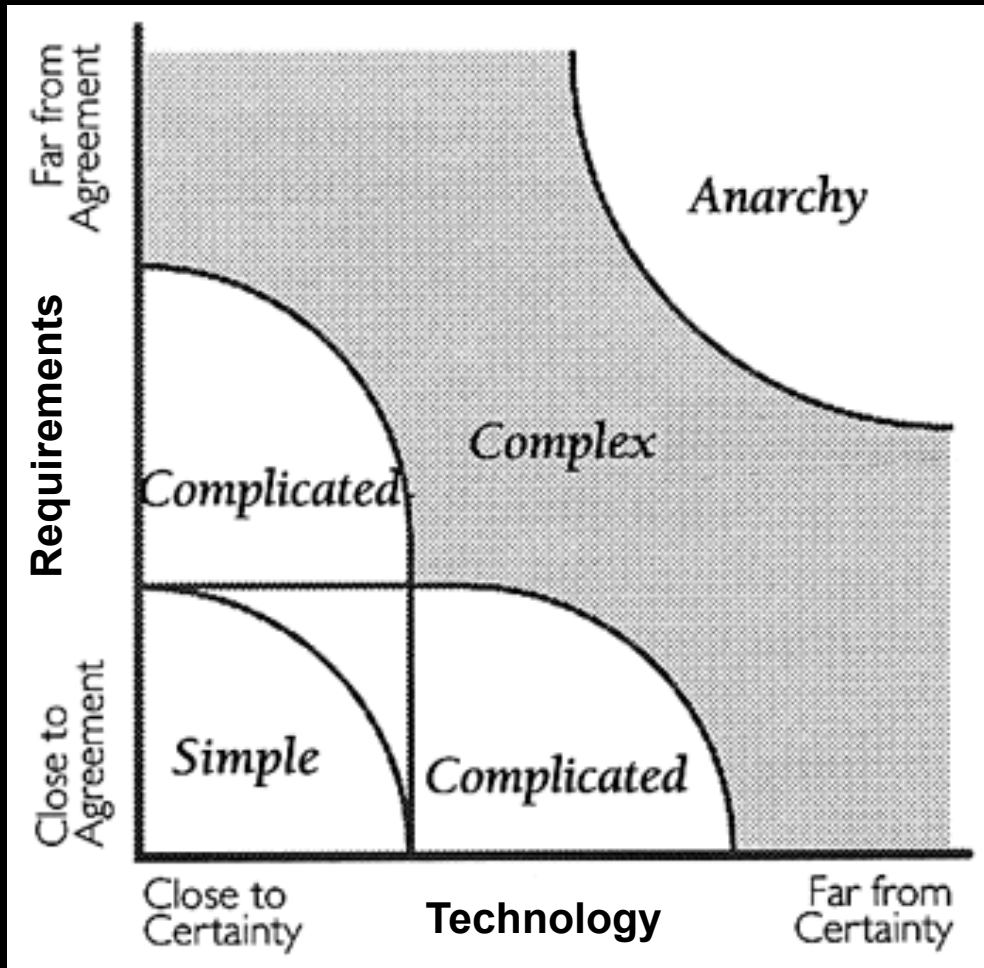
– Ken Schwaber (Boulder, Co, Nov. 2005)



The Rhythm of Scrum



When is Scrum Appropriate?



- Scrum works best when the problems to be solved lie in the Complex Space.
- New Product Development Work and Knowledge Work both tend to exist in the Complex Space.
- Research lies in the Anarchy space
- Maintenance lies in the Simple Space

ref: The Stacey Diagram, by Ralph Stacey

A black silhouette of a person in a dynamic, falling or diving pose, set against a dark gray background. The person's arms are outstretched upwards, and their legs are bent, suggesting a loss of balance or a fall. The overall mood is one of struggle or failure.

**Scrum will help
you fail in 30
days or less**

The Scrum Foundation

- Empiricism
- Self-organization
- Collaboration
- Prioritization
- Time Boxing





Empiricism

**Detailed up-front planning
and defined processes are
replaced by just-in-time
inspect and adapt cycles**



Self-organization

Small teams manage their own workload and organize themselves around clear goals and constraints

Collaboration



Scrum leaders, product visionaries and customers collaborate with developers – they do not manage or direct them

Prioritization



**Work on the
most important
thing – do not
waste time
focusing on
work that does
not add
immediate value**

Timeboxing



**Timeboxing creates the rhythm
that drives development**

With a solid foundation...

**your process, your design and your
product will emerge in the way most
appropriate to your context**



Emergence



The beauty of letting go, and trusting

PART TWO

Scrum

People

Product Owner



Thought Leader & Visionary

Drives the Product Vision
Maintains the Product Backlog
Prioritizes the Requirements
Accepts the Working Software

Scrum Master

Trouble Shooter & Servant Leader

- Manages the Process
- Supports the Team
- Removes Organizational Impediments
- Socializes Scrum to Management

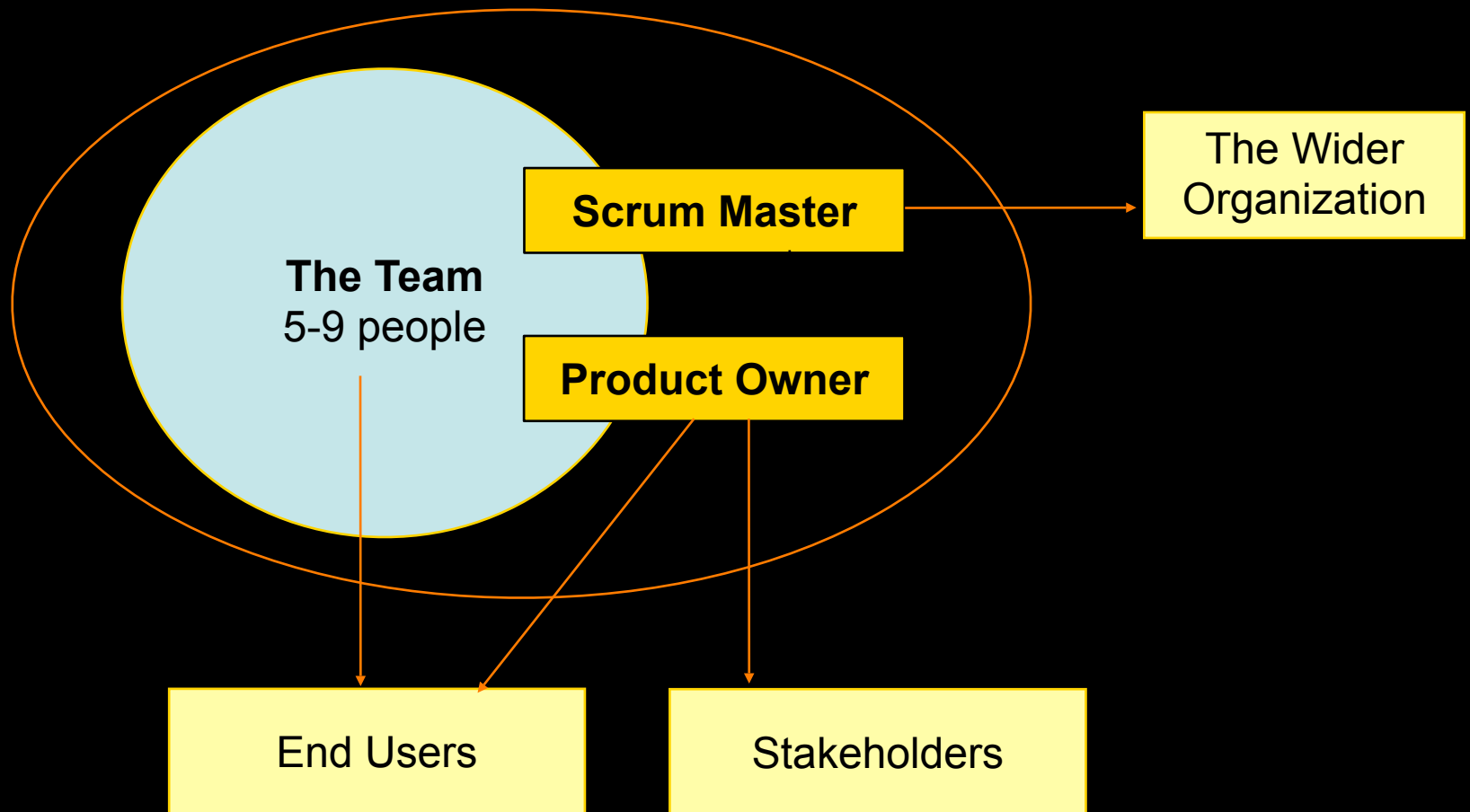


The Team



**5-8 Members
Cross-Functional
Self-Managing
Autonomous
Accountable for
Meeting Commitments**

Scrum Relationships



PART THREE

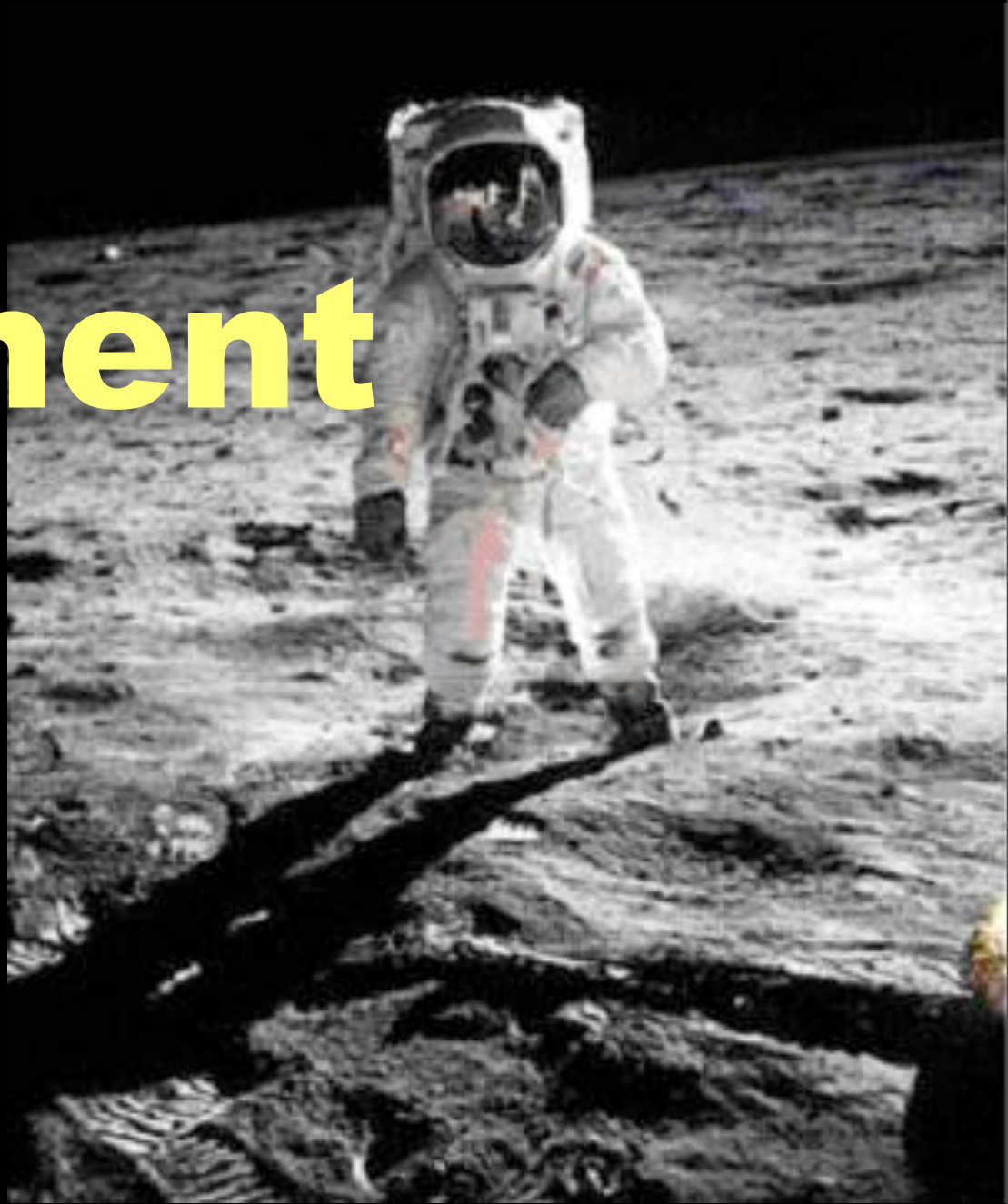
Scrum

Planning

Vision Statement

**A short statement
of intent**

A goal to aspire to



Vision Statement Example

ScrumSpace: For members of the international Scrum community, who need to connect with like-minded thinkers, ScrumSpace is a website that provides for the ultimate sharing of knowledge about Scrum. Unlike blogs, on-line groups, wikis and YouTube, ScrumSpace offers the simplicity of a single location that allows for the sharing of ideas via any online collaborative medium.

Features:

Scrum Profile | Scrum Buddies | Blogging | Video Sharing
Book Recommendations | Research/White Papers | Job Board

ScrumSpace vision statement written by Stacia Broderick, CST

Product Backlog

A living list of requirements

The Product Backlog represents the **WHAT** of the system

Prioritization is essential!



Planning



Occurs at the start of each sprint. Team and PO negotiate the commitment, then the team members begin the design process and generate tasks

Design versus Delivery



- Deliver the highest value early on
- But don't neglect the bigger picture
- Allow design and architecture to emerge

Sushi Delivery means more frequent, smaller, but functional deliveries are made until the system is complete.

Growing tree is a good metaphor for building the right thing. From sapling to full oak tree, the plant must deliver business value from the start to feed itself (photosynthesis, etc.).

PART FOUR

Scrum

Execution

Sprint Backlog



**A list of tasks
representing the HOW
of the system**

**The Sprint Backlog is
owned and managed
by the Team**

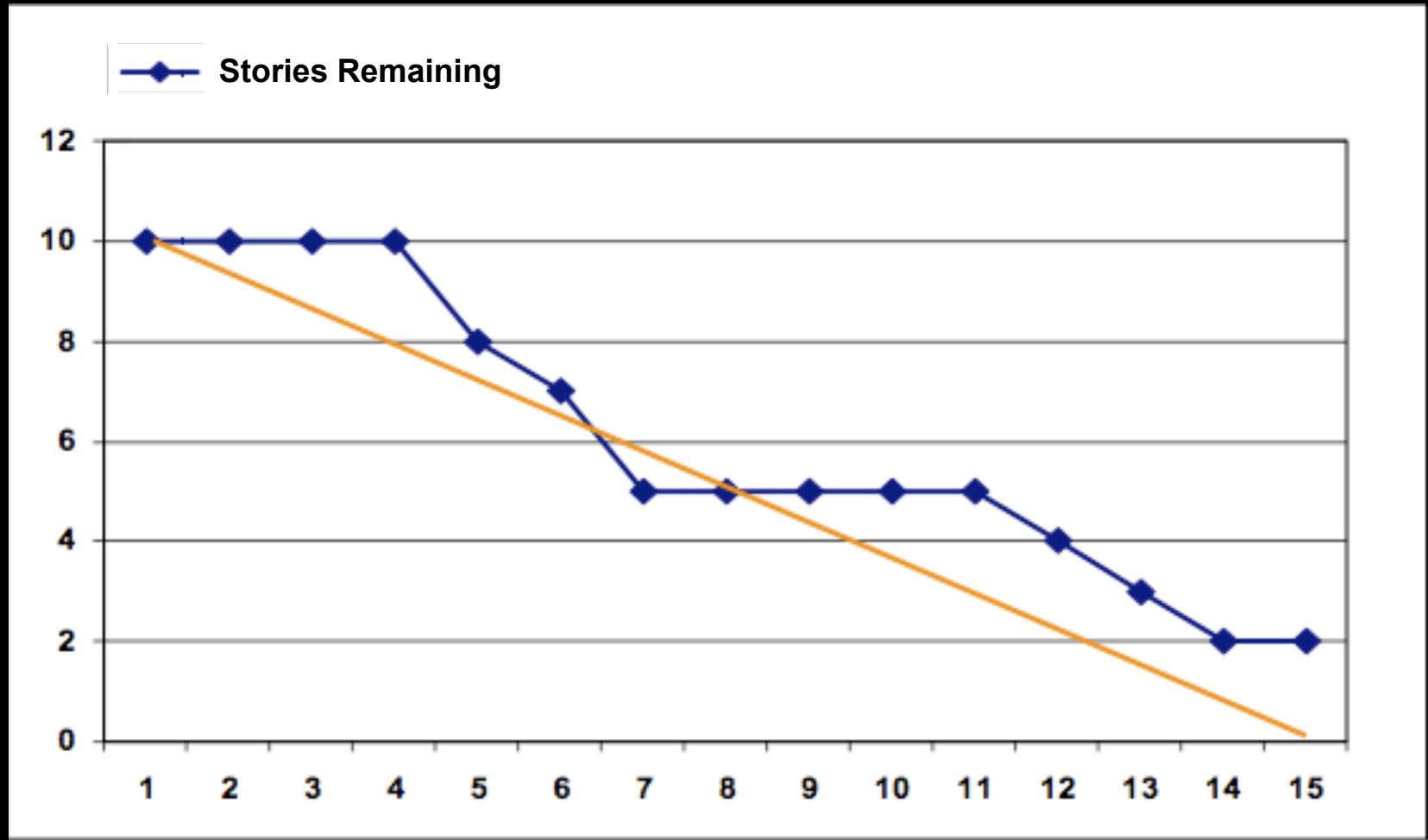
Daily Scrum

A background image showing a team of four people in a meeting room. They are standing in front of a whiteboard that has several sticky notes and a star sticker on it. The room has a drop ceiling with fluorescent lights. The image is dimly lit, with the text overlaid in bright colors.

15 Minutes | 3 Questions

- What did you do since the last Daily Scrum?
1. What will you do by the next Daily Scrum?
 2. What is getting in your way?

Story Burndown



Team Task Board

| Story | Tasks To Do | | | | WIP | Done |
|------------------------------|----------------------|--------------------|-------------------|-------------|----------------------------------|----------------------|
| As a system admin I... 21 | Code the... | Test the... | Code the... | Test the... | Code the... <i>KC</i> | As a user I... 13 |
| | Code the... | Write user docs... | | | Code the... <i>Mo</i> | |
| | | | | | Test the... <i>Ramin</i> | |
| As a user I... 8 | Design the UI for... | Test the... | Code the... | Test the... | Create wireframe <i>Dolly</i> | |
| As a user I... 3 | Code the... | Test the... | Re-run regression | | | |

Example Task Board

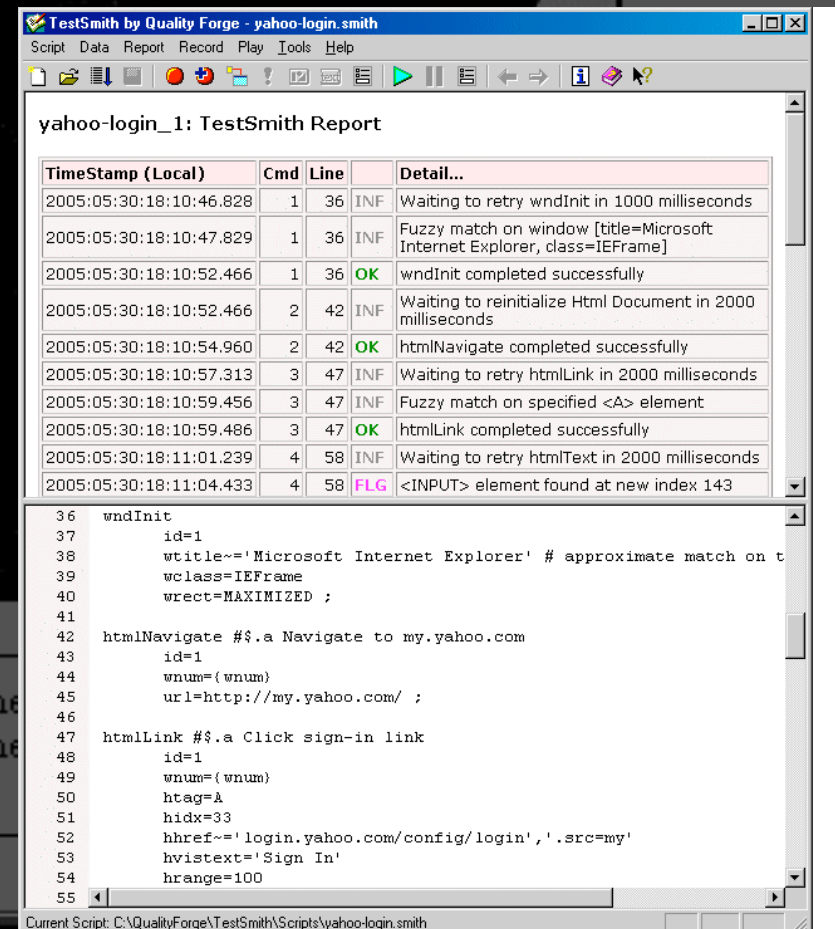
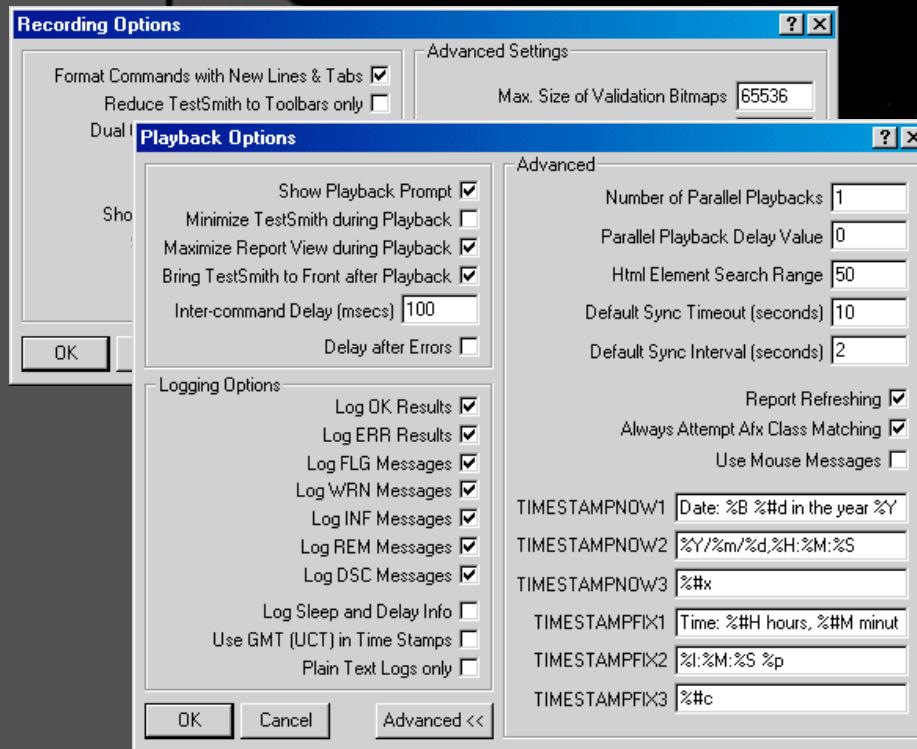


“Done”

- **Example checklist for working software**
 - Unit tests pass
 - Customer Acceptance tests pass
 - User docs written
 - UI design approved by PO
 - Integrated into existing system
 - Regression test/s pass
 - Deployed on staging server
 - ...



Working Software



Current Script: C:\QualityForge\TestSmith\Scripts\login-test.smith

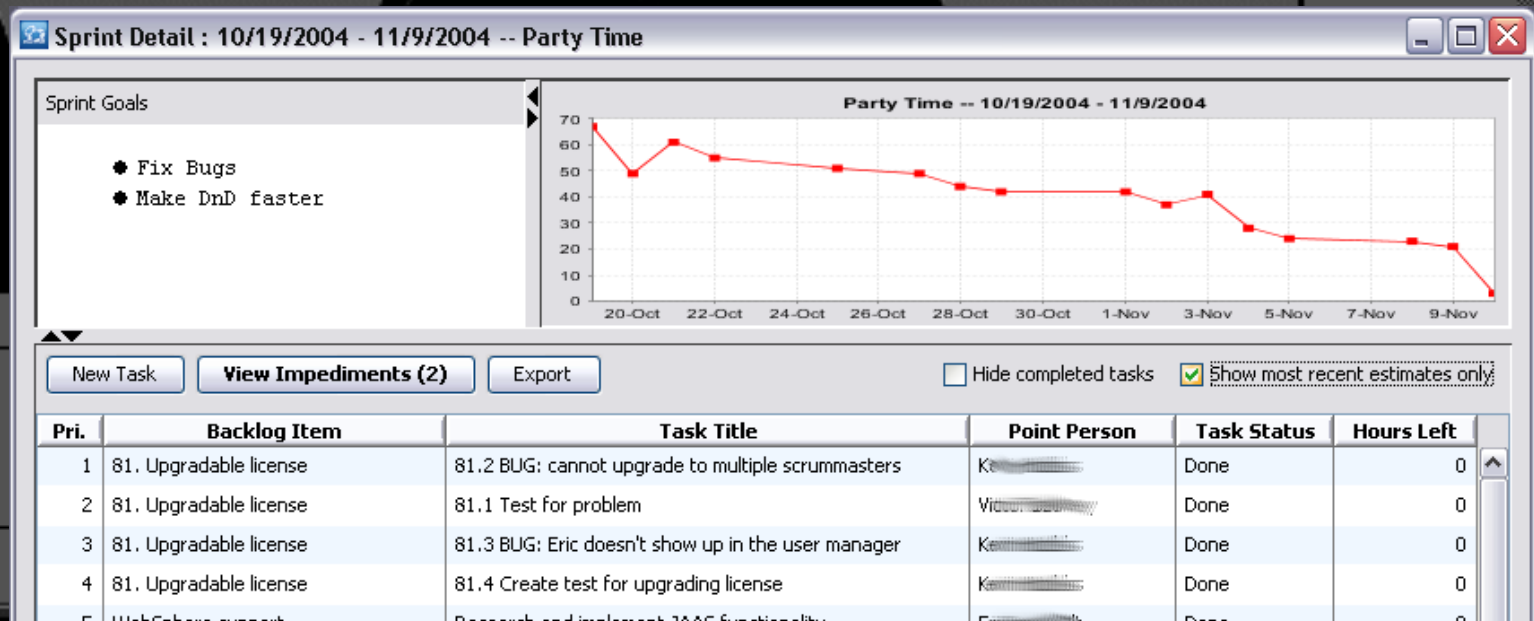
PART FIVE

Scrum

Reflection

Review

Occurs at the end of each sprint.
Inspect and Adapt the product.
The team meets with the Product Owner and the Stakeholders to demonstrate the *working software* from the sprint.



Current Script: C:\QualityForge\TestSmith\Scripts\login-test.smith



Bugs

- There are two types of bug recognized in a Scrum process:
 - Bugs found on a story in the current iteration
 - Write a task for that bug and put it in “To Do”.
These are fixed as they are found. Remember a Story is not “Done” until all tasks are complete.
 - Bugs found outside an iteration, e.g. at the Review Meeting
 - These simply become new stories, are put into the backlog and prioritized by the PO

Retrospective

Occurs at the end of each sprint.

Inspect and Adapt the process.

The team meets with the Scrum Master to look at what went well and what can be improved.

Retrospectives must conclude with individual commitments to action.



Impediment List

**A list of organizational
and team impediments
– *with suggested
solutions***

**This list is maintained
by the Scrum Master**



Scrum Values

Scrum

Courage


Trustfulness

Transparency



Where to Now?

- Read “Scrum: it’s place in the world”
 - <http://agilethinking.net/blog>
- Watch “The Road from Project Manager to Agile Coach” by Lyssa Adkins (lyssaadkins) available on YouTube:
 - <http://youtube.com/watch?v=TvYqhYEaqMs>
 - <http://youtube.com/watch?v=L9tSjppqeBa4>
- Read “A Scrum Master’s Checklist”
 - http://danube.com/blog/michaeljames/a_scrummasters_checklist
- Join the Scrum Development Group
 - <http://groups.yahoo.com/group/scrumdevelopment>



Thank you!

<http://agilethinking.net/blog> | tobias@agilethinking.net

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Super CSM: <http://www.danko.org.il/SuperCSM.jpg>
Scrum Team: http://staff.southworks.net/photos/blog_gallery/images/709/original.aspx
Man on the Moon: http://www.iglou.com/drake/Images/man_on_moon.jpg
Paper Mountain: <http://www.document-management-software.com/images/paper-mtn.jpg>
Piles of Paper: <http://www.treehugger.com/paper-piles.jpg>
Stepping Stones: <http://adventurecenter.files.wordpress.com/2008/03/stepping-stones1.jpg>
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Book Tower: http://www.nationalmuseum.se/upload/Konstbiblioteket/boktrave_web_72p.jpg
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