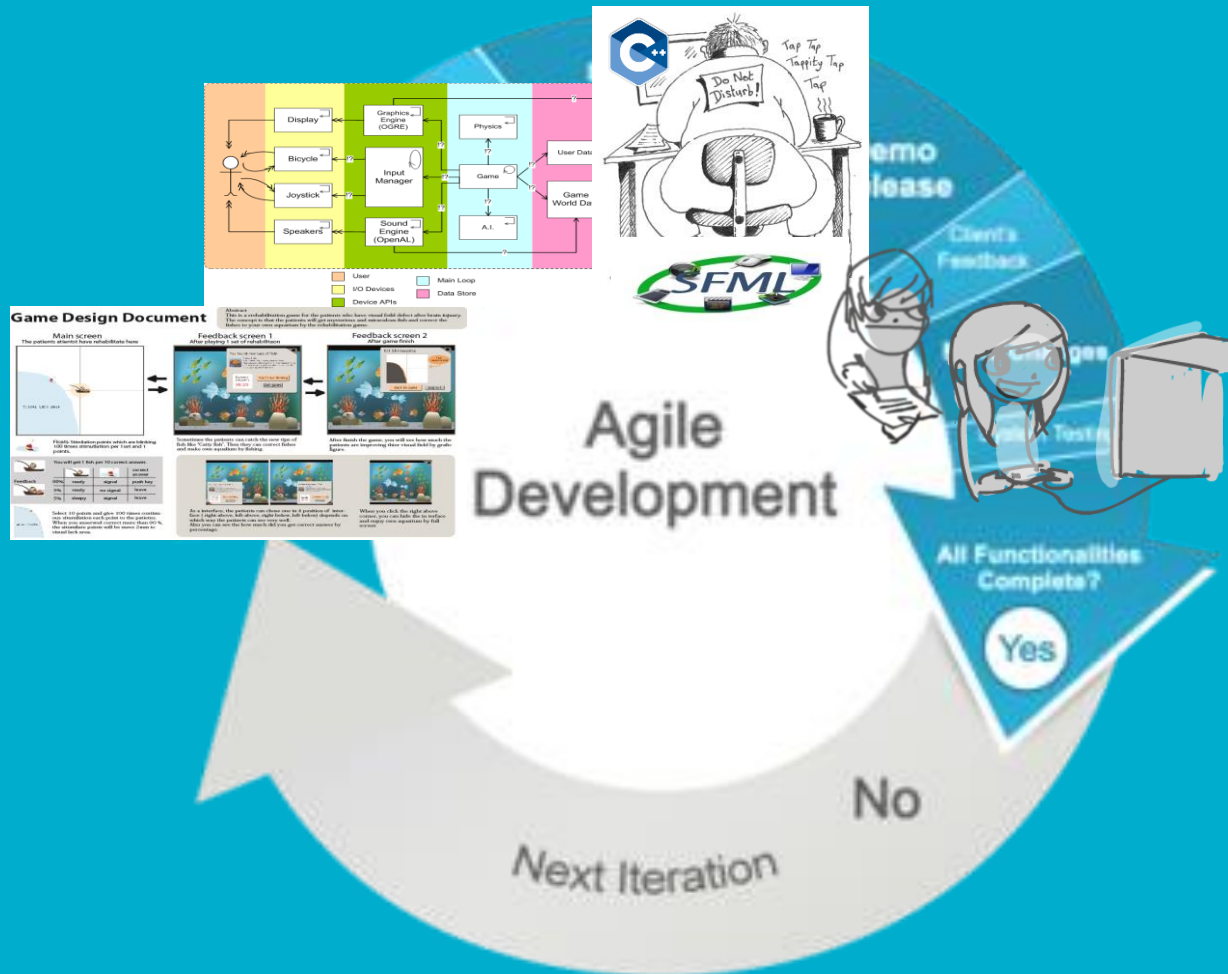


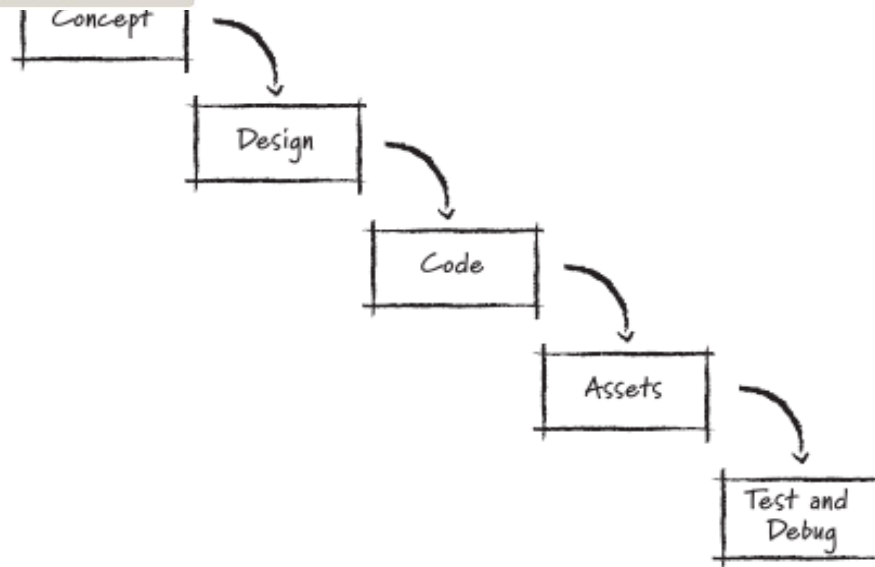
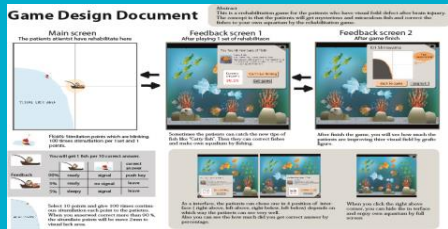
Agile Game Development & SCRUM

Faculteit Natuur & Techniek- Technische Informatica



Waterfall game development

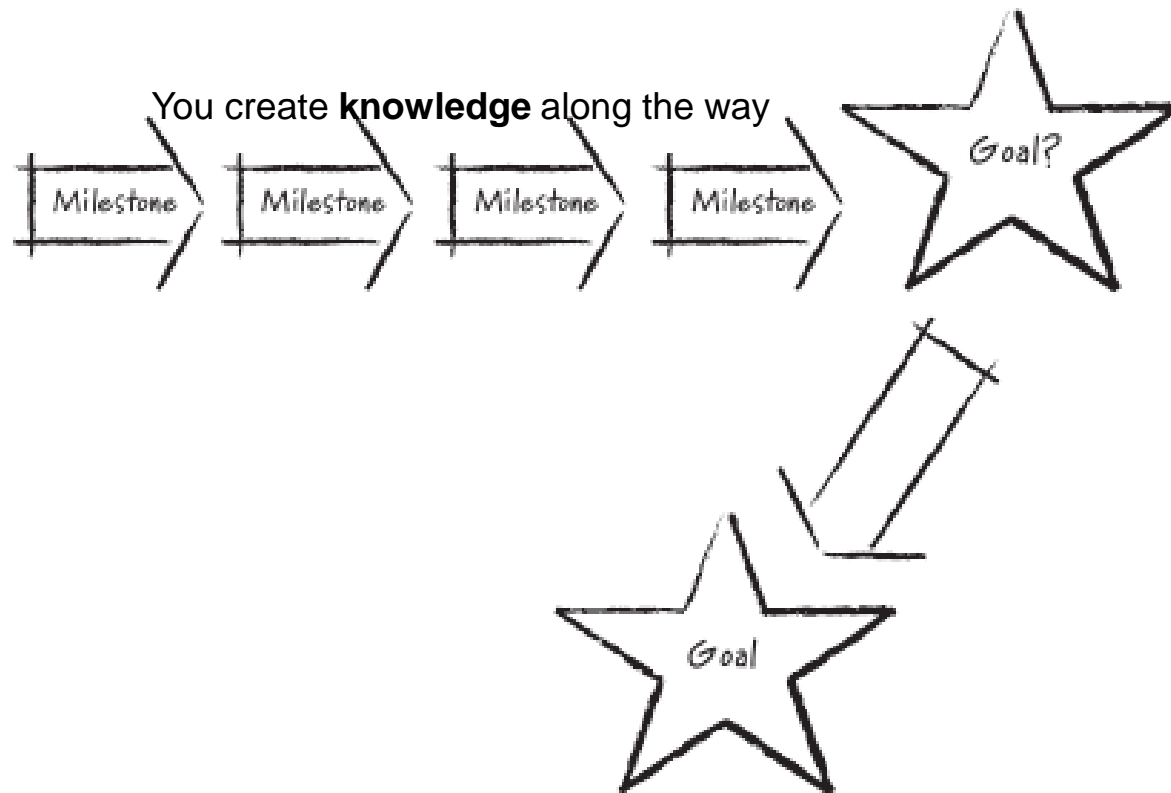
BDUF Big Design Up-Front



Source: Agile Game Development with Scrum
Clinton Keith

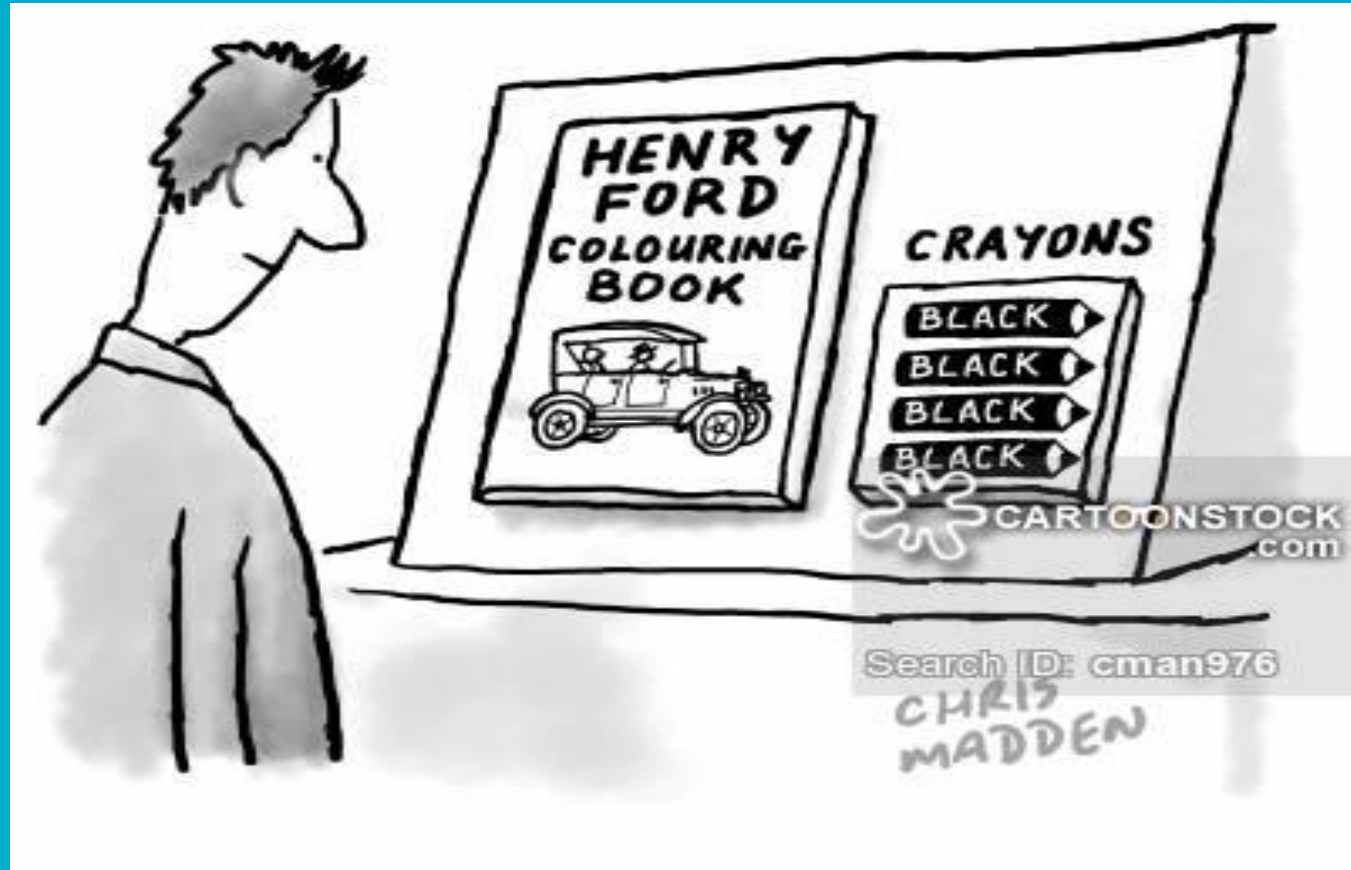


The Problem with Waterfall



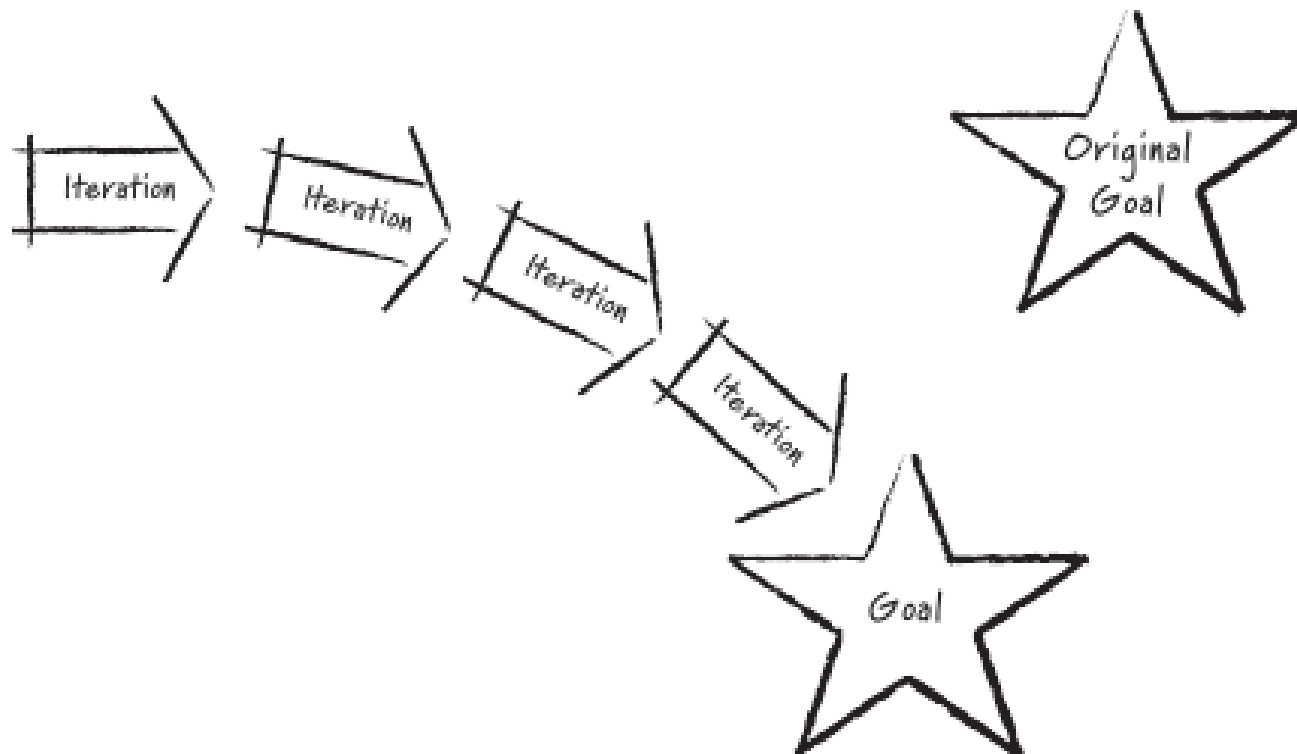
Source: Agile Game Development with Scrum
Clinton Keith

Less Innovation



“Any customer can have a car painted
any color that he wants so long as it is black”
Henry Ford

We need something to do this



Source: Agile Game Development with Scrum
Clinton Keith

The Agile Manifesto

- ***Individuals and interactions*** over processes and tools
- ***Working software*** over comprehensive documentation
- ***Customer collaboration*** over contract negotiation
- ***Responding to change*** over following a plan

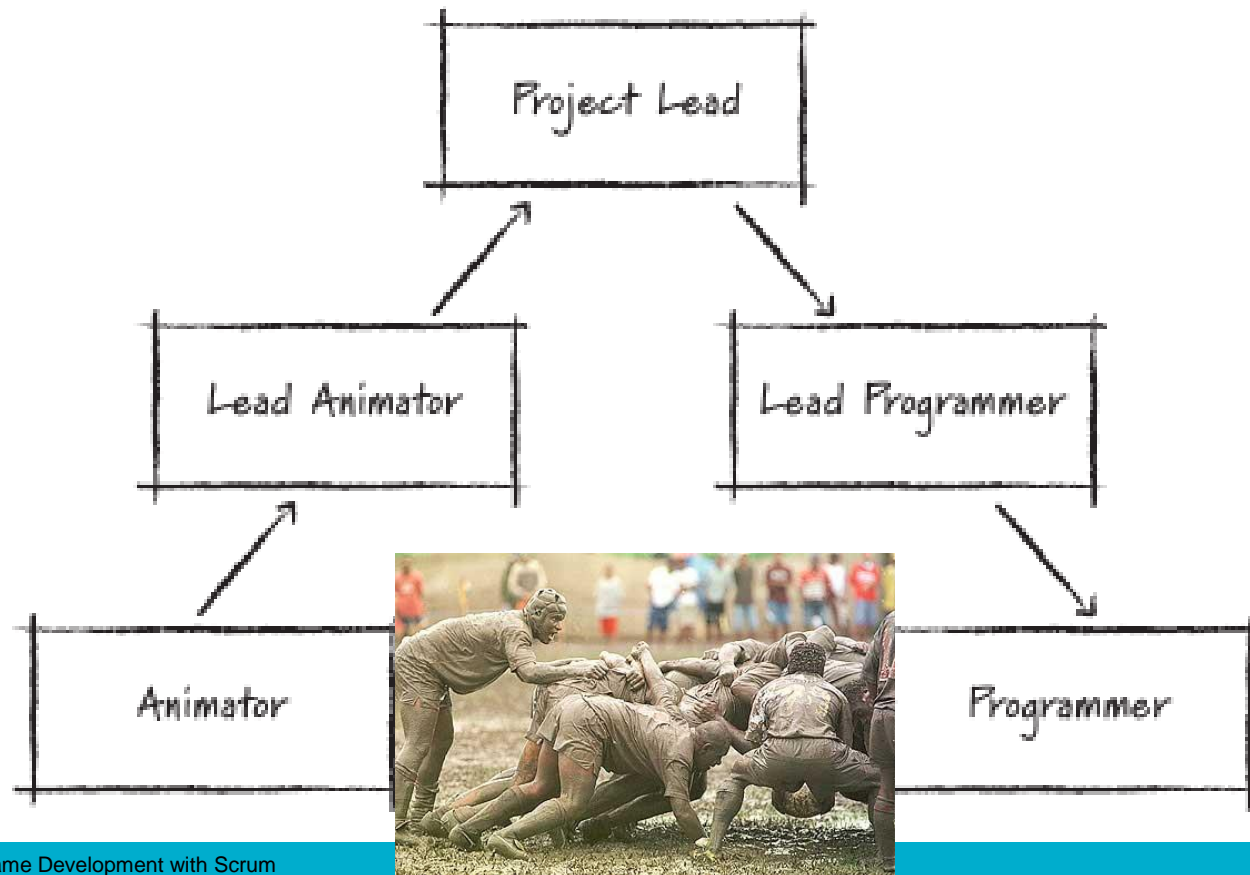
No more planning and documentation?



Customer collaboration

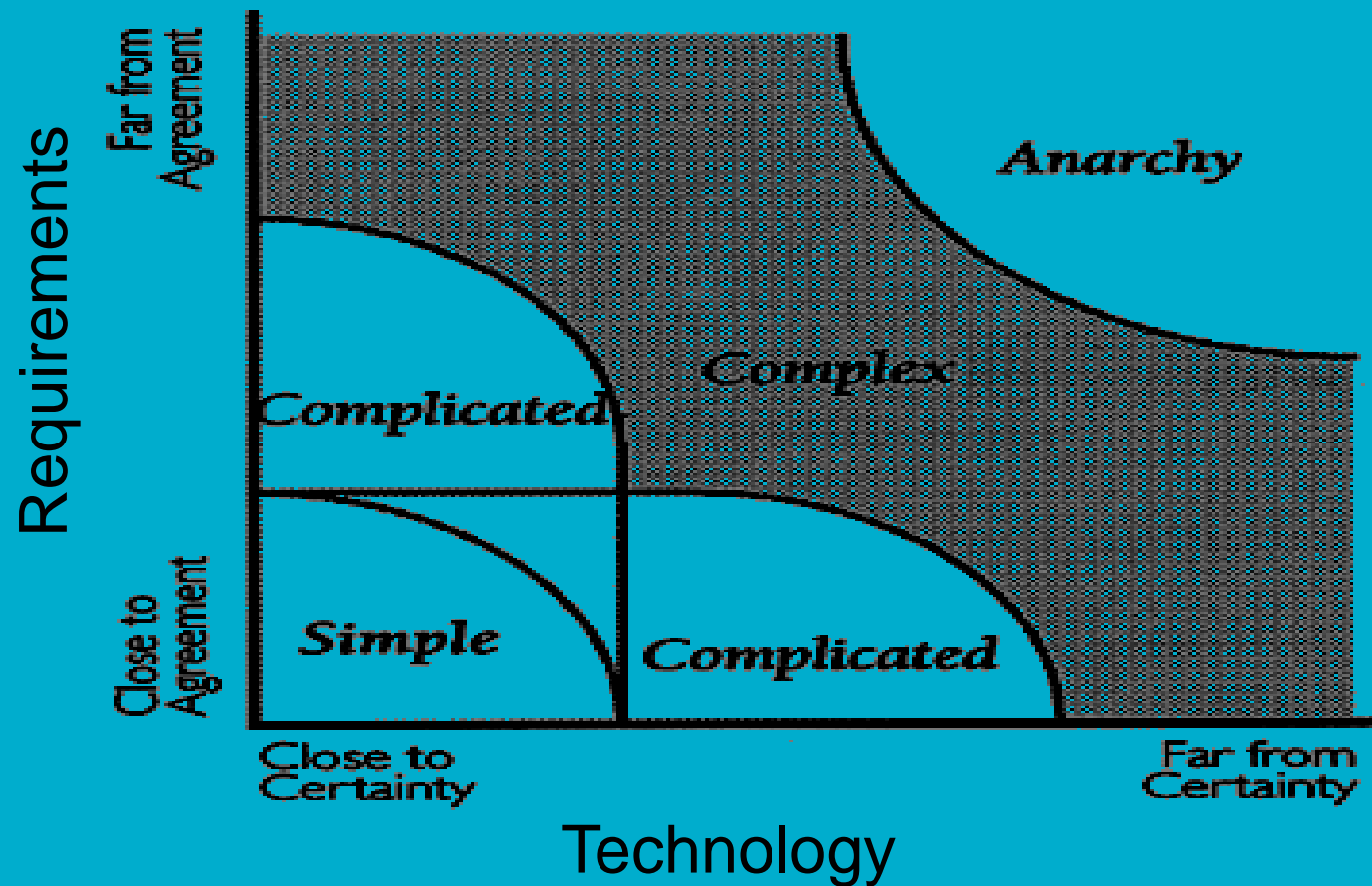


Individuals and interactions

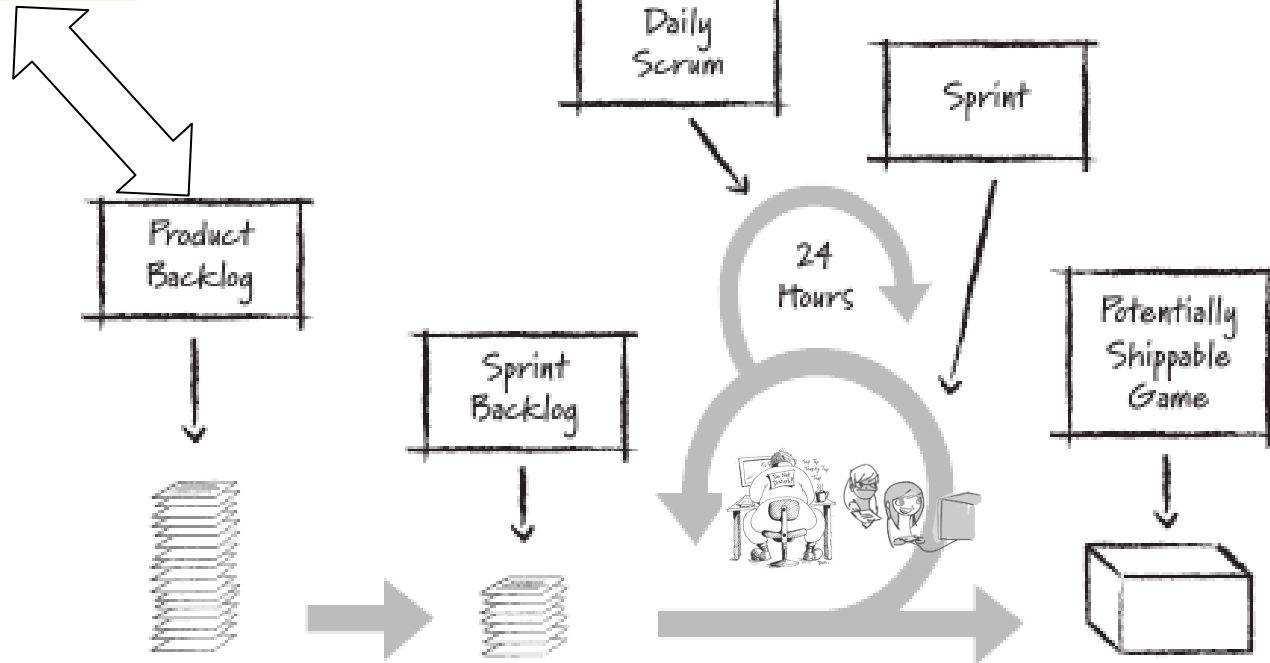
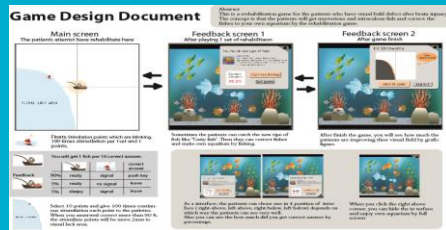


Source: Agile Game Development with Scrum
Clinton Keith

Waterfall or Agile?



SCRUM

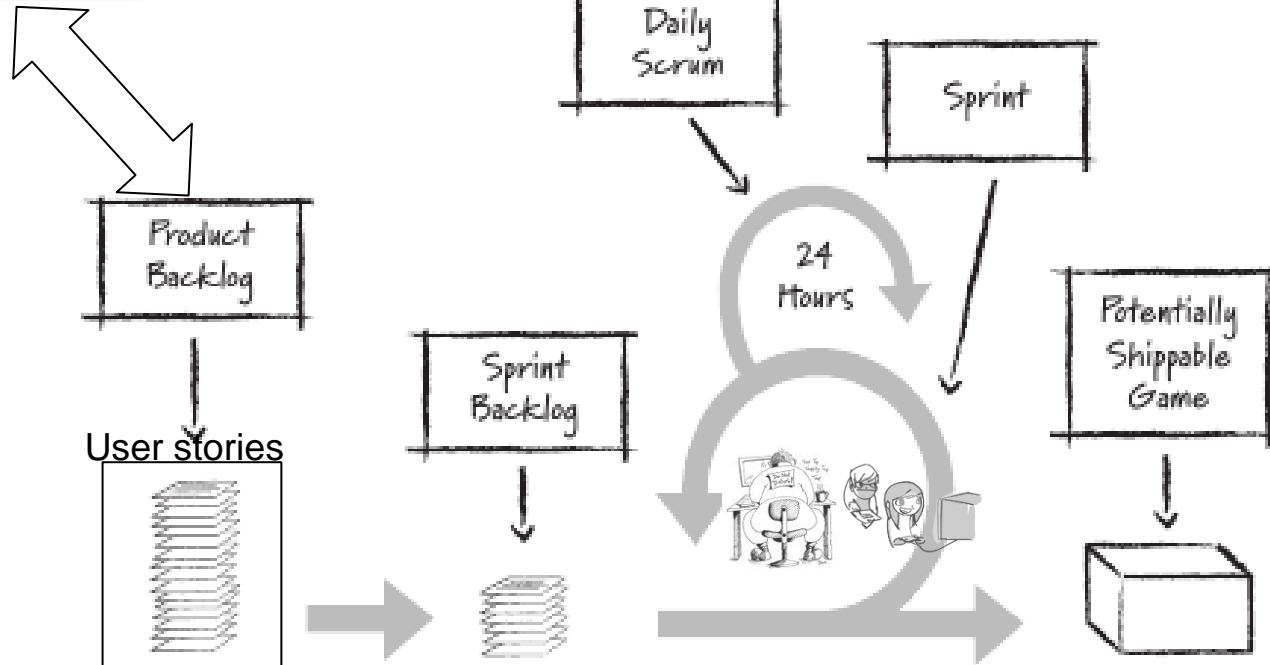
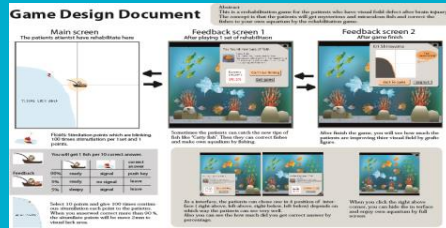


Source: Agile Game Development with Scrum
Clinton Keith

28 november 2016

Gerald Ovink

Product Backlog



Source: Agile Game Development with Scrum
Clinton Keith

User stories

As a <user role>, I want<goal> [so that <reason>]

User role: A customer of the game or a user of the pipeline who benefits from this story.

Goal: The goal of the story. This is a feature or function in the game, tool, or pipeline.

Reason: The benefit to the customer or user when this feature or function is used.

Examples of user stories

As a player, I want a player mute button so that I stop being distracted by some of the other players online.

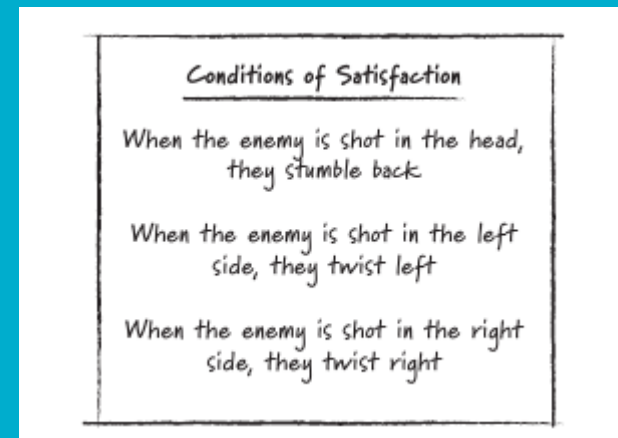
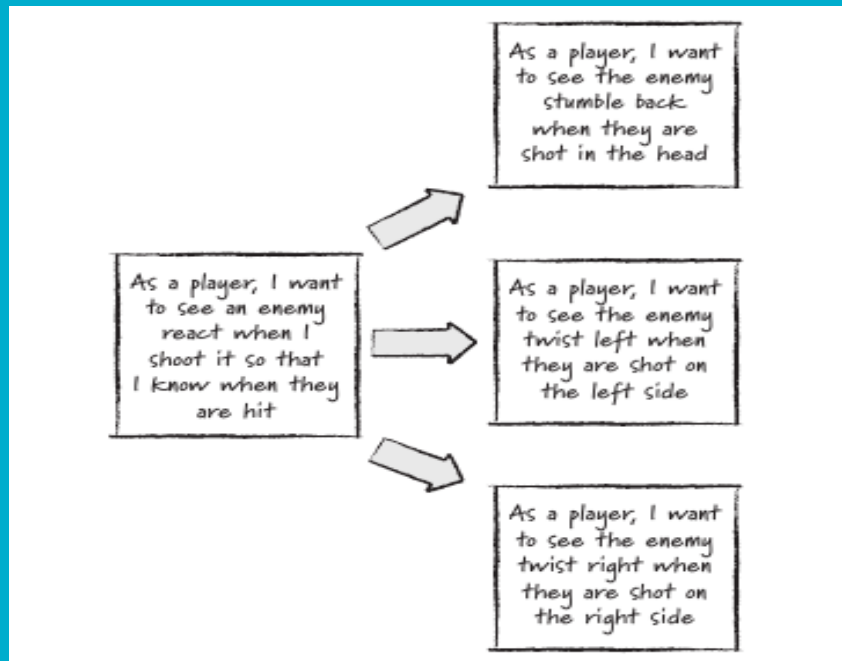
As an animator, I want to change animations directly in the game without restarting it so that I can iterate faster on animations.

As a player, I want to see my health level.

INVEST in user stories

- Independent
- Negotiable
- Valuable
- Estimatable
- Sized appropriately
- Testable

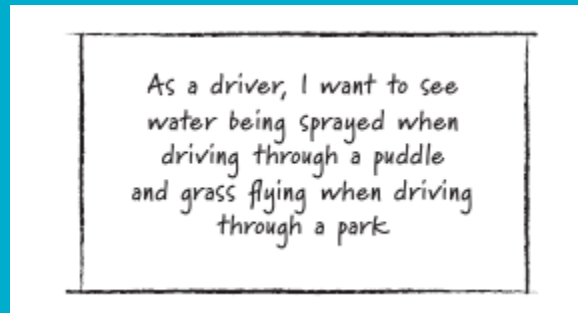
Testable



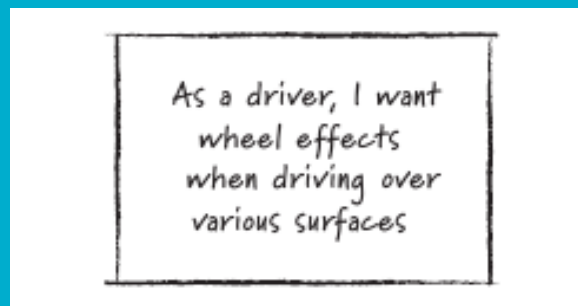
Source: Agile Game Development with Scrum
Clinton Keith

Negotiable

Too much detail



Better



Source: Agile Game Development with Scrum
Clinton Keith

Formulate user stories for your own High Concept

Prioritizing the Product Backlog

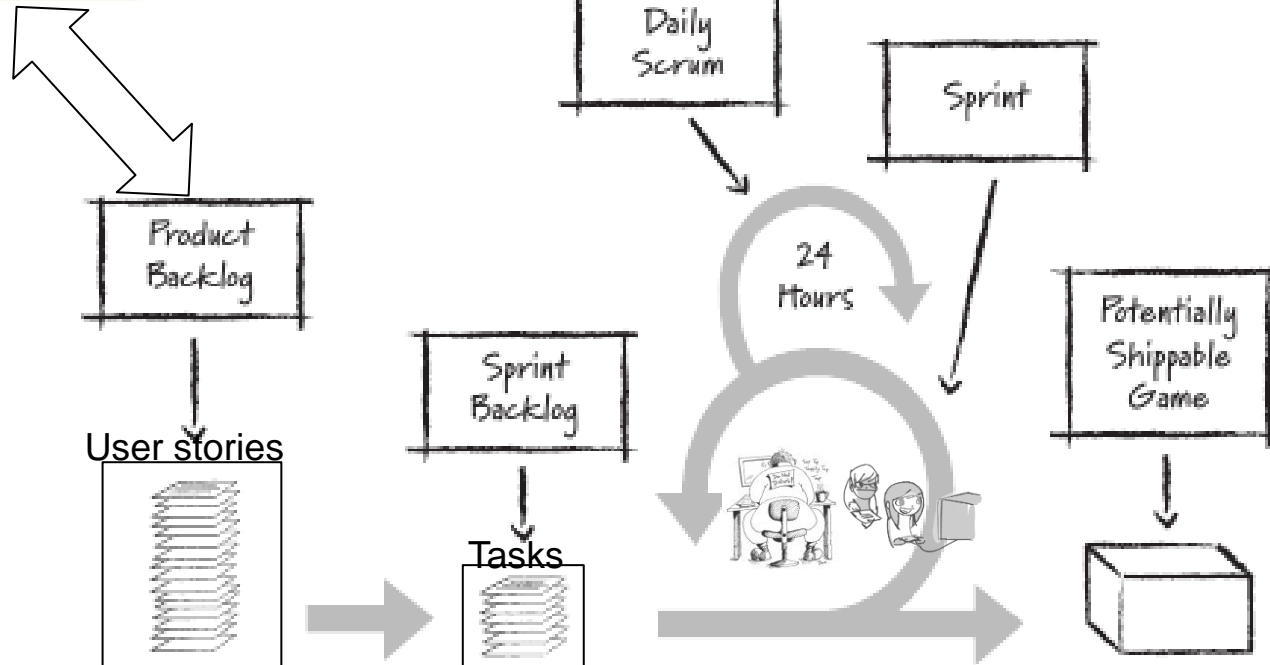
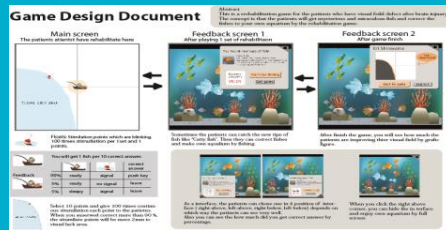
Guides for determining the priority:

- Value
- Cost
- Risk
- Knowledge

Estimating Story Size

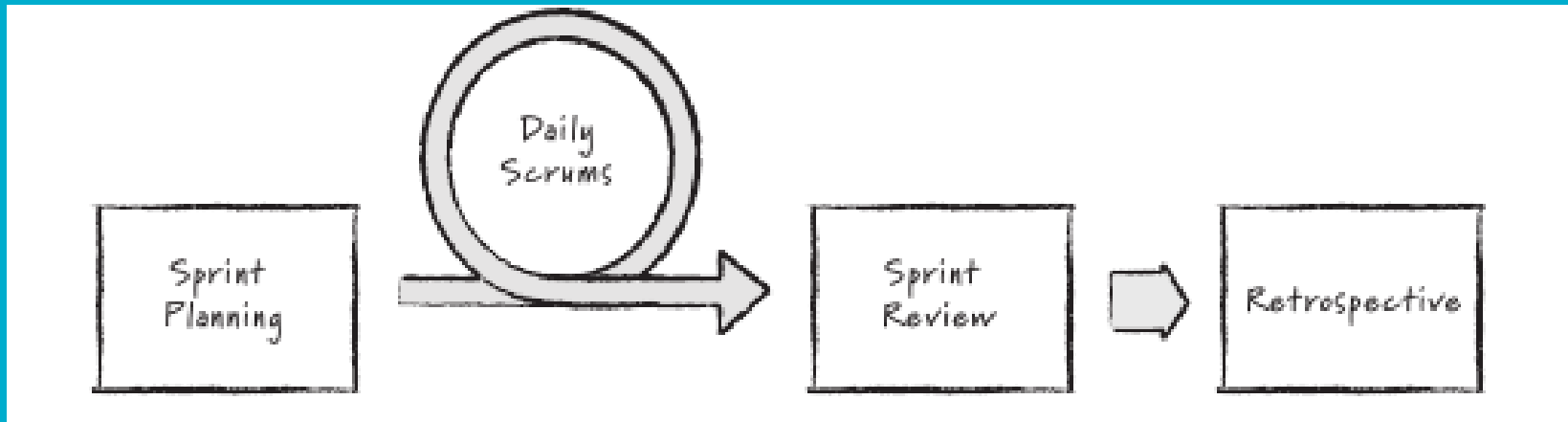
<p>SMART ESTIMATION POKER wiki.trinidadplatform.org</p> <p>1</p> <p>Piece of cake</p>	<p>SMART ESTIMATION POKER wiki.trinidadplatform.org</p> <p>2</p> <p>Moderate</p>	<p>SMART ESTIMATION POKER wiki.trinidadplatform.org</p> <p>3</p> <p>Average</p>	<p>SMART ESTIMATION POKER wiki.trinidadplatform.org</p> <p>4</p> <p>Hard</p>
<p>SMART ESTIMATION POKER wiki.trinidadplatform.org</p> <p>5</p> <p>Very difficult</p>	<p>SMART ESTIMATION POKER wiki.trinidadplatform.org</p> <p>8</p> <p>Extreme but known</p>	<p>SMART ESTIMATION POKER wiki.trinidadplatform.org</p> <p>10</p> <p>Extreme and unknown</p>	<p>SMART ESTIMATION POKER</p> <p>1 - Piece of cake. Apply when dealing with simple selection, or simple maintenance use cases.</p> <p>2 - Moderate. Apply this complexity for normal selection use cases.</p> <p>3 - Average. This complexity is good for normal maintenance, or normal search use cases. Average is also the default level.</p> <p>4 - Hard. Apply this complexity for reporting, or one-to-many use cases.</p> <p>5 - Very difficult. These are the really tedious use cases, and include graphs, extensive reporting, or interfacing to other systems and web services.</p> <p>8 - Extreme but known. This complexity is for instance used for complex interfacing with other systems, and for importing and exporting services.</p> <p>10 - Extreme and unknown. Used with distributed interfacing, and complex calculations.</p>

Sprint Backlog



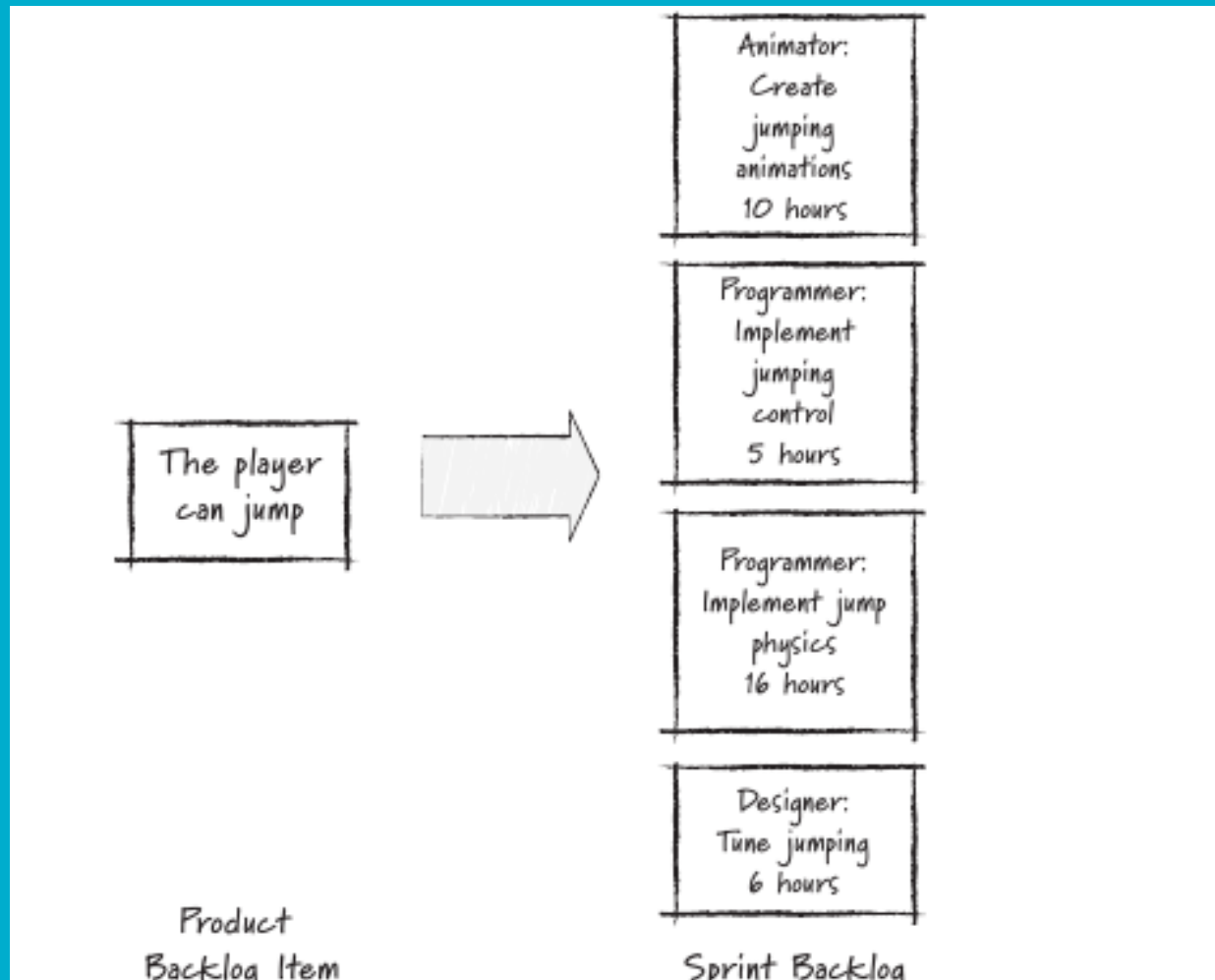
Source: Agile Game Development with Scrum
Clinton Keith

The flow of sprint meetings

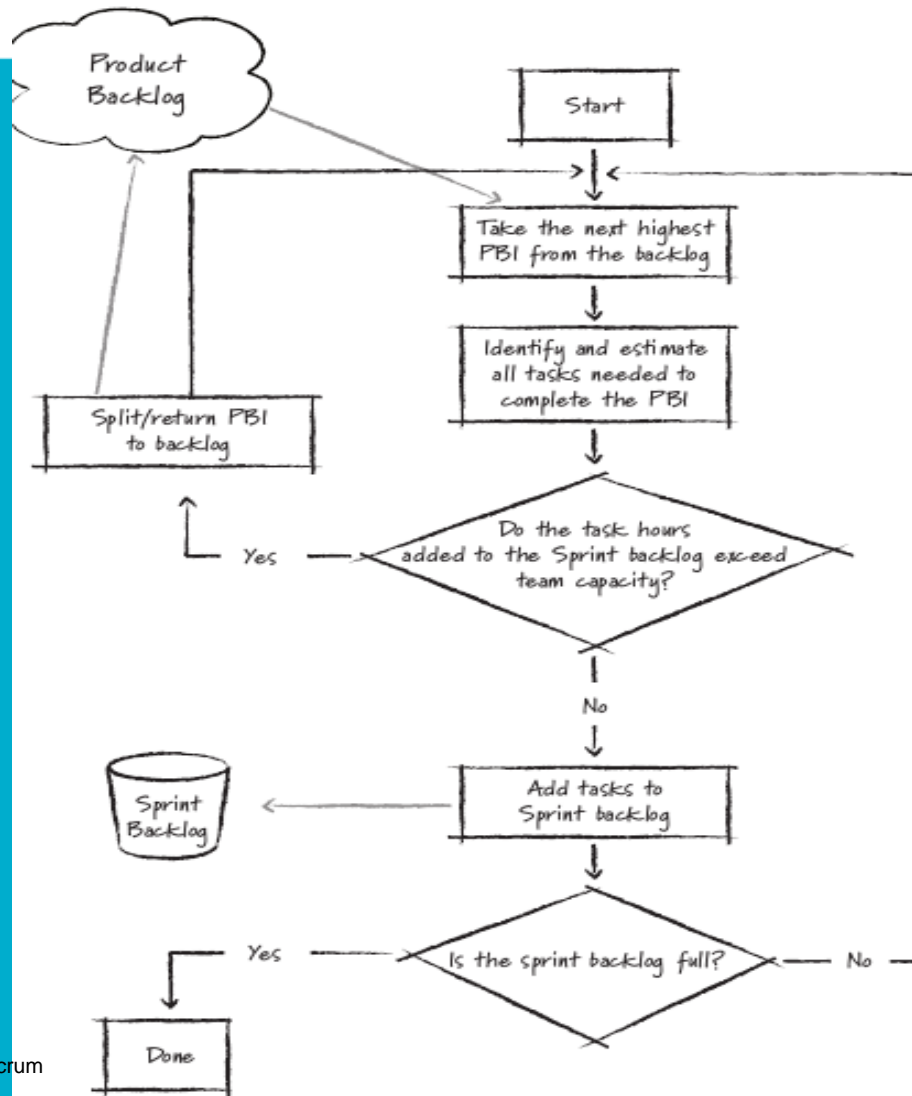


Source: Agile Game Development with Scrum
Clinton Keith

Tasks

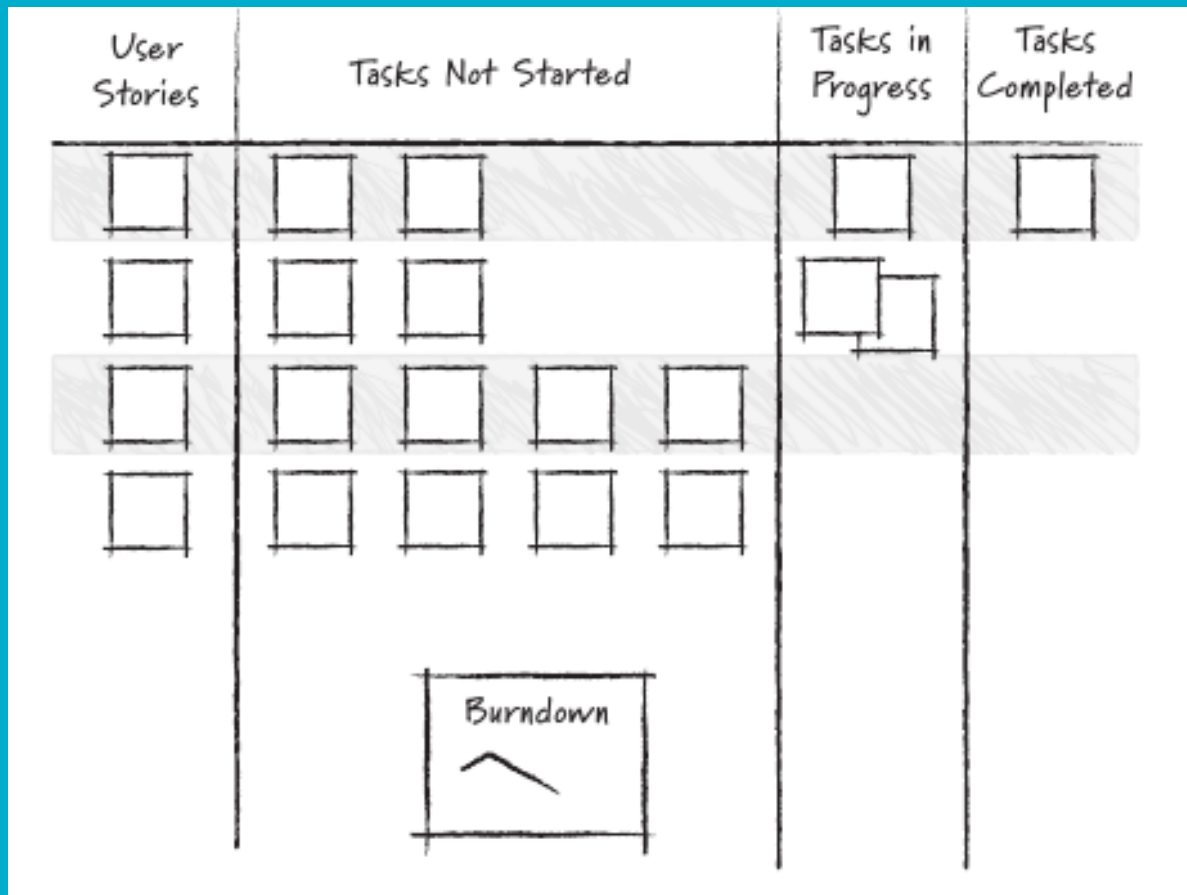


Creating a sprint backlog



Source: Agile Game Development with Scrum
Clinton Keith

Task board



Source: Agile Game Development with Scrum
Clinton Keith

Daily Scrum

- “What have I done since the previous daily scrum?”
- “What am I going to accomplish between now and the next daily scrum?”
- “What are the problems or impediments slowing me down?”

Sprint Review (team + stakeholders)



Sprint Retrospective (team)

- “What things should we stop doing?”
- “What should we start doing?”
- “What is working well that we should continue to do?”