

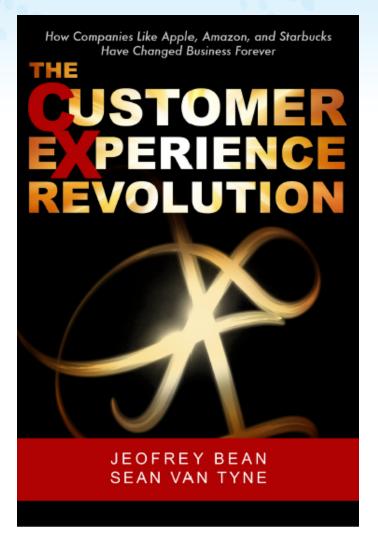
# User Experience Design in Agile Development

Sean Van Tyne

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#### What is User Experience?



"User experience encompasses all aspects of the end-user's interaction with the **company**, its **services**, and its **products**..."

 Nielsen Norman Group www.nngroup.com/about/userexperience.html

"The user experience for *applications* encompasses the **visual appearance**, **interactive behavior**, and **assistive capabilities** of software..."

– Apple

http://developer.apple.com/ue/

What does User Experience do?



# User Research - Uncover insights about users and their tasks

**UI Design -** defining the behavior of products and systems that a user can interacts

Usability Testing - ensures it is easy for people to achieve their goals





#### Heuristic Review - competitor or current solution

**Contextual Inquiry - field observations** 

Workflow and Task Analysis - user flows

**Personas -** user profiles





# "Low-fidelity" prototypes (wireframes) – define the information architecture

### "Medium-fidelity" prototypes (color, icons, graphics, etc.) – define the visual designs

# "High-fidelity" prototypes (HTML prototypes) – define the interactive design





## Internal Evaluations - stakeholders, subject matter experts, and/or end-user proxies

#### **Remote Evaluations** – with external users

Lab Evaluations – formal evaluation

Site Visit Evaluations – with "Design Partners"

#### Five Trends in Most Successful Organizations

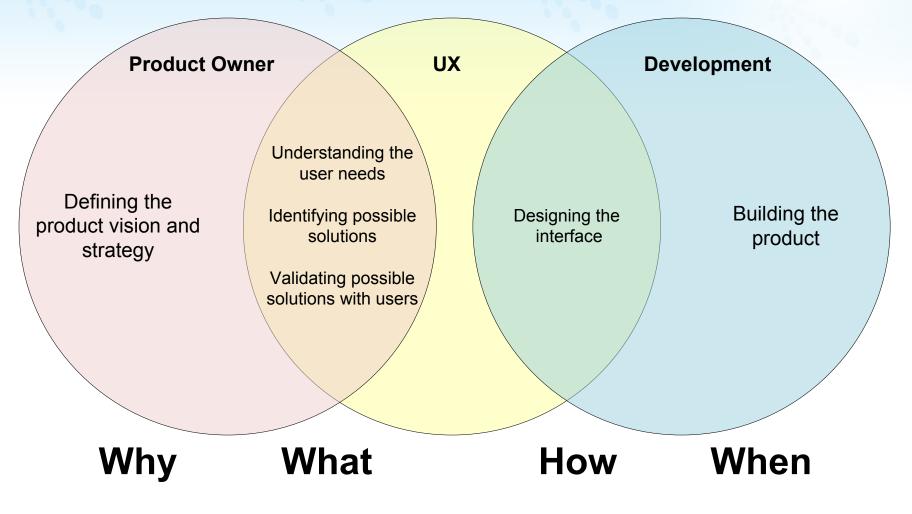


- 1. UX people are bridges: embedded with the team but also involved in high level/early planning
- 2. UX work is early, flexible: done up-front to storyboard level
- 3. Low-fi prototype is the ongoing spec: owned by UX, agreed by stakeholders
- 4. UX work happens in a parallel track: pair complex back-end sprints with UX intensive work
- 5. Guerilla style UX validation: fast, discount methods run frequently and regularly on early code

Source: Nielsen Norman Group. Agile Usability: Best Practices for User Experience on Agile Development Projects

#### Agile Roles

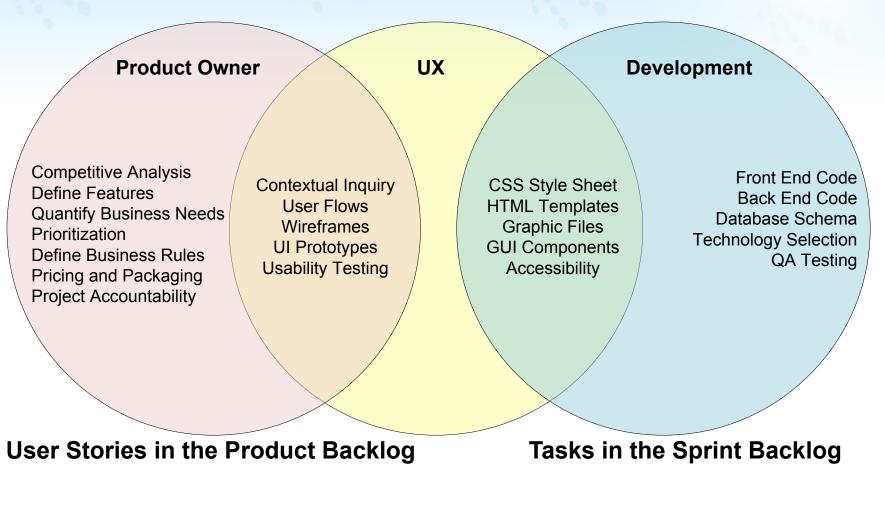




Source: Johnson, Jeremy. Agile UX Retreat

#### Agile Deliverables

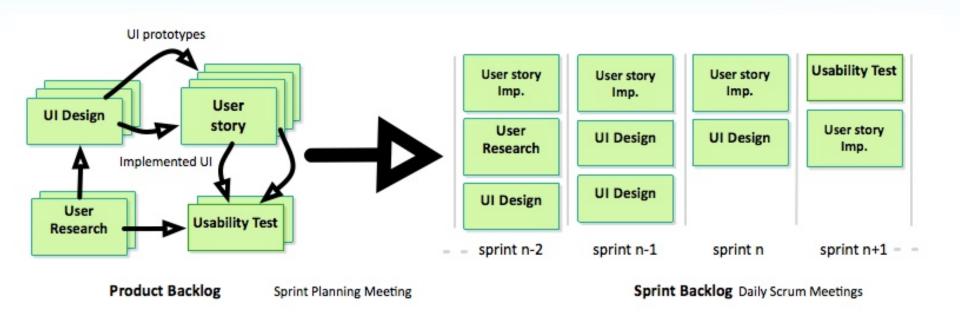




Source: Johnson, Jeremy. Agile UX Retreat

#### UX Design in the Product and Sprint Backlog

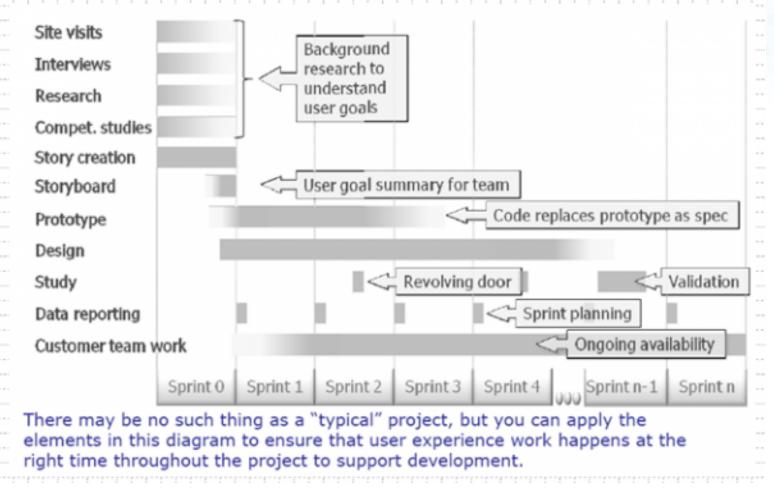




Source: Low, Boon. Enhancing User Interactions in Digital Libraries Notes on UX2.0.

#### **UX Agile Project Schedule**

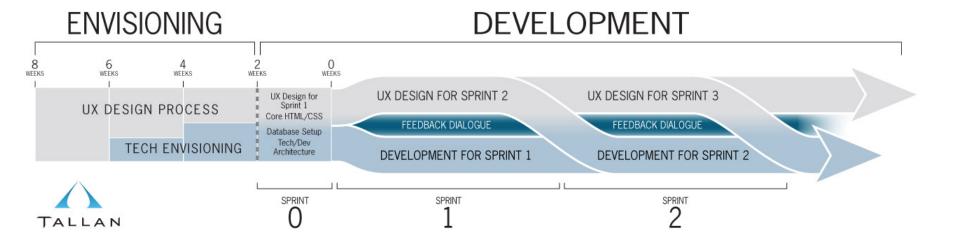




Source: Nielsen Norman Group. Agile Usability: Best Practices for User Experience on Agile Development Projects

#### UX Design and Dev Process Envisioning and Development





Source: Donahue, Matt. Agile User Experience Design.

### Style Guide Library



- Define a set of re-usable components once
- Create a centralized library for designers and developers
- Provide living documents that evolve
- Focus on the core experience while relegating the repeated patterns to style guides





- Illustrating the experience by showing rather than telling
- Facilitate better estimation at sprint planning meetings
- Have something to compare the working code to when it was ready for user acceptance testing

## Usability



- Test every other week (in a 2-week sprint situation) on the same day at the same time.
- Show the participants whatever is ready (this includes paper sketches all the way to working code).
- Schedule the session midway in the sprint leaving enough time to react to the findings.

#### Two Design Reviews per Sprint



- The initial review is held midway through the sprint and serves to align the execution team with their product owners and project sponsors on the general direction of the proposed experience.
- The second review, scheduled two days before the end of the sprint, is meant as a final review.
- In between the first and second designs, ad hoc reviews could be held if the designer felt there was a need for more fine-grain alignment.

#### **Participatory Design Sessions**



- Sketch ideas
- **Present** ideas to the team
- Critique presentation based solution
- This process is repeated three times each round increasing the fidelity of each sketch
- The sessions create a sense of ownership and alignment from the crossfunctional team
- The UX team get dozens of raw ideas to work through, evolve and incorporate into a final design



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