

The Definition of User Experience (UX)

- Meet the exact needs of the customer
- without fuss or bother
- Next comes simplicity and elegance: produce products that are a joy to own, a joy to use.
- ... goes far beyond giving customers what they say they want
- ... go beyond checklist of features

The Definition of User Experience (UX)

"In order to achieve high-quality user experience in a company's offerings there must be a seamless merging of the services of multiple disciplines, including engineering, marketing, graphical and industrial design, and interface design."

Don Norman and Jakob Nielsen

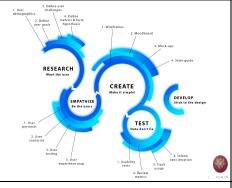
How dow we build is a smart object?

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The need for a prototyping process

- Need to interact with users.
- Tangible objects convey more than story boards & wireframes.
- Mock-ups are a first important step.
 - Need for fast & low-cost mock-ups
 - 3D printing
- How can we add some basic functionality ?
 - Need for interactive mock-ups
 - Developing hardware prototypes require electrical engineers ?
 - Open Source Hardware.

Product Development Lifecycle



Further Reading

1. Usability 101: Introduction to Usability

https://www.nngroup.com/articles/usability-101-introduction-to-usability/

- 2. Geoffrey Moore: Crossing the Chasm
- Make: Magazine https://makezine.com/
- Instructables https://www.instructables.com/
- 5. Hackster
 - https://www.hackster.io/
- Adafruit https://www.adafruit.com/
- Seeedstudio https://www.seeedstudio.com/
- 8. Sparkfun
 - https://www.sparkfun.com/
- Getting Started with the Arduino/Genuino 101 https://www.arduino.cc/en/Guide/Arduino101