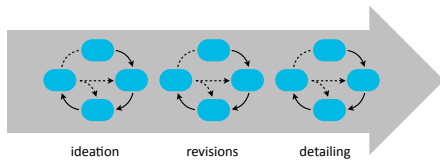
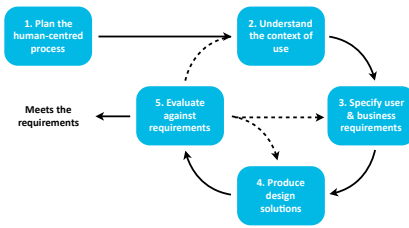


Computer Prototypes

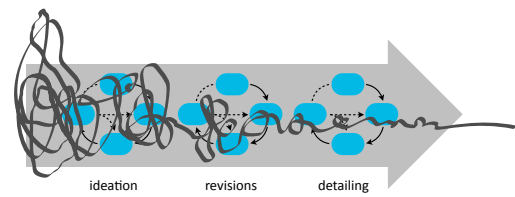
Mattias Arvola

Human-Centered Design (ISO 9241-210)



Uncertainty / Patterns / Insights

Clarity / Focus



Computer Prototype and Usability Test

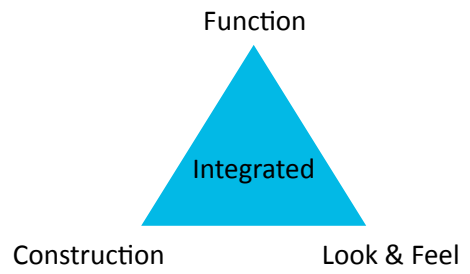
1. Revise
2. Detail
3. Build
4. Recruit
5. Test and measure
6. Presentation
7. Write (and read)

Today

- Types of prototypes
- Fidelity
- Computer prototypes
- Tools for building computer prototypes

Evolutionary or throw-away prototypes

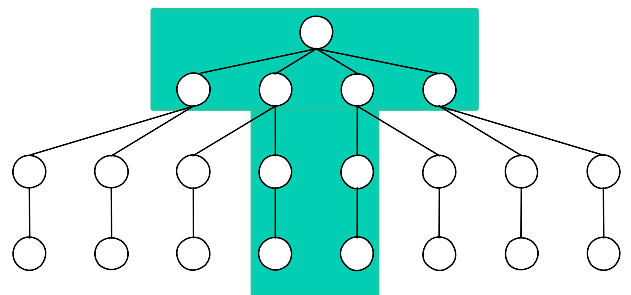
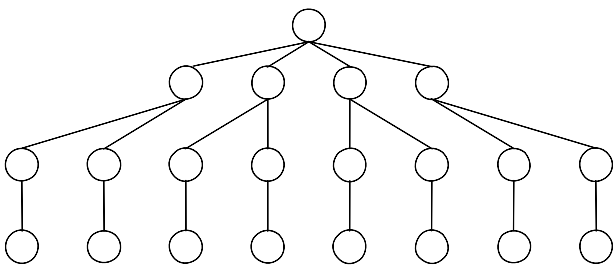
What Prototypes Prototype



LoFi and HiFi Prototypes

Fidelity

- Interaction
- Data
- Width
- Depth
- Visual



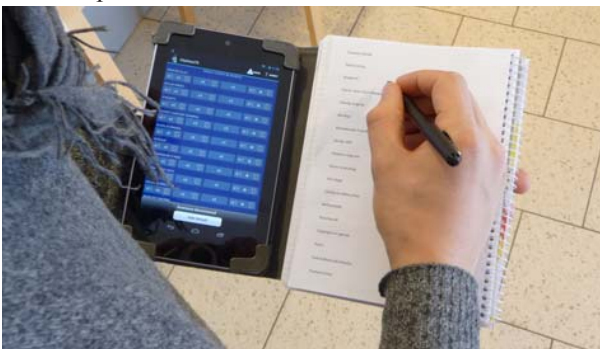
How much should we implement?

- Build it if you can
- Fake it if you cannot
- If nobody can build it, then your design is wrong

Why computer prototypes

Overkamp, T., & Holmlid, S. (2015). Marionette prototyping for evaluating conceptual UbiComp applications in their context. In Participatory Innovation Conference 2015, The Hague, The Netherlands. 15

Wizard of Oz



Interactive Computer Prototypes

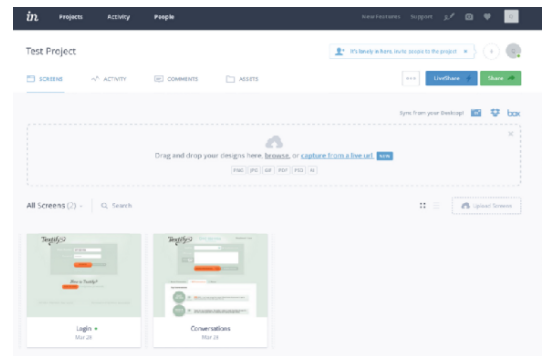
Iterative or Evolutionary

Prototyping Tools

- Hot spot-based
- States-based
- Code tools

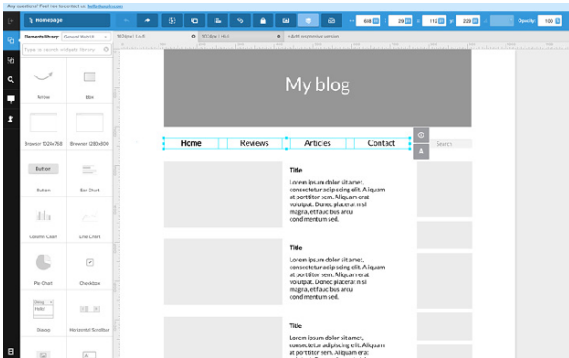


InVision



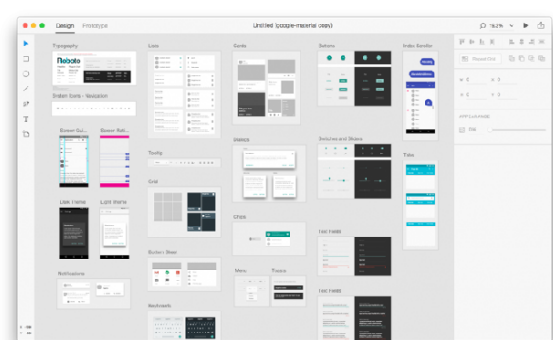
• <https://www.youtube.com/watch?v=zNoBmjg-NnQ>

UXPin



• <https://www.youtube.com/watch?v=NM30LmppB5U>

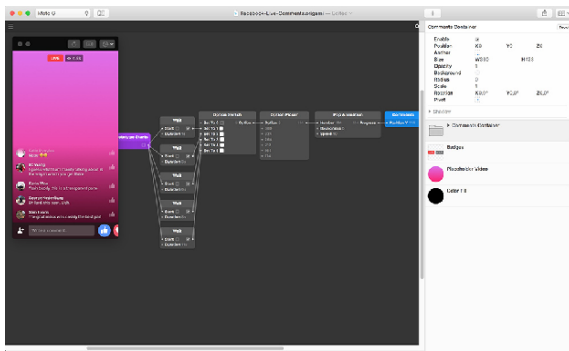
Adobe XD



• <https://www.youtube.com/watch?v=p66jDvPKnAA>

Origami

25



- <https://origami.design/tutorials/>

Prototyping Tools with Pros and Cons

26

- For example:
 - <http://www.cooper.com/prototyping-tools>

27

Non-interactive Prototypes

Video Prototypes

29

Screen Cast Video Prototype

30

Further reading:

- <http://www.inuse.se/blogg/tre-proptypverktyg-du-inte-far-missa/>
- <http://www.cooper.com/prototyping-tools>
- https://medium.com/@msds_branding/5-fantastic-ux-prototyping-tools-part-1-3a4d05f8801f
- <http://ms-ds.com/our-thinking/insights/5-best-ux-prototyping-tools-part-two>
- <https://uxmag.com/articles/comparing-popular-layer-based-and-code-based-prototyping-tools>
- <https://uxmag.com/articles/comparing-four-popular-page-based-interactive-prototyping-tools>

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