VR/AR Conceptual Hackathon Amplify the Social Experience

Amplify the social experience for visitors to the Goethe-Museum!

Create means for awareness and social interaction between the visitors of the physical museum and the online visitors.

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Goethe-Nationalmuseum mit Goethes Wohnhaus Frauenplan 1 99423 Weimar

Goethe-Nationalmuseum mit Goethes Wohnhaus

Goethes Wohnhaus Lebensfluten – Tatensturm

Goethe- und Schiller-Archiv

Herzogin Anna Amalia Bibliothek

Museen

Schlösser und Gärten

Einrichtungen

Goethe-Nationalmuseum

Das Goethe-Nationalmuseum ist das bedeutendste Museum zur Präsentation und Erforschung der Lebensleistung Goethes. Es umfasst das historische Wohnhaus am Frauenplan mit Garten, in dem ein Teil von Goethes kunst- und naturwissenschaftlichen Sammlungen sowie seine Privatbibliothek zu sehen sind. Zwei Museumsanbauten aus dem 20. Jahrhundert dienen zur Präsentation weiterer Sammlungsbestände in einem als Schaudepot eingerichteten Studiensaal sowie einem naturwissenschaftlichen Kabinett.

Die Ausstellung »Lebensfluten - Tatensturm « erschließt Goethes Leben und Wirken für die Besucher. Darüber hinaus befindet sich im Goethe-Nationalmuseum derzeit die Benutzerabteilung der Direktion Museen und insbesondere der Graphischen Sammlungen der Klassik Stiftung Weimar.

Einen Überblick über Goethes Sammlungen und Goethes Nachlass bietet der Menüpunkt Sammlungen. Der literarische Nachlass Goethes wird im Goethe- und Schiller-Archiv aufbewahrt.



Klicken Sie auf das Bild für Großansicht und Diashow.

Besucherinformationen



Task: Amplify the social experience for visitors to the Goethe-Museum!

- Create means for awareness and social interaction between the visitors of the physical museum and the online visitors.
- This includes, concepts for:
 - a web based visitor experience that links to VR and the physical place
 - A VR museum experience
 - An extension of the traditional museum visit to the physical place
- Create an overall concept (horizontal prototype) and highlight one specific solution detail (vertical prototype):
 - Develop ideas and make visual mock-ups
 - Describe a system architecture and outline the technical solution
 - Presentation (6 minutes)
 - One page flyer

Breaking boundaries

- Temporal boundaries
 - People visiting at different time
 - Short time frame (e.g. across time zones)
 - Longer time frames (e.g. generations)
- Spatial boundaries
 - With in the physical space
 - Between remote access to the web or to VR and the physical space



Albrecht Schmidt, Marc Langheinrich, Kristian Kersting, "Perception beyond the Here and Now," Computer, vol. 44, no. 2, pp. 86-88, Feb. 2011, doi:10.1109/MC.2011.54

Things to consider: User journeys

- Museum visit as part of a bigger experience (e.g. holiday, school year)
- Phases and transitions between phases
 - Before the visit (typically remote)
 - Preparation physical visit
 - Information gathering
 - Sharing of intent, bragging
 - Actual visit (typically on side)
 - Exploration
 - Implicit and explicit capture
 - After the visit
 - Reflection
 - Sharing of experience, bragging
 - Return visit?

Things to consider: Technologies

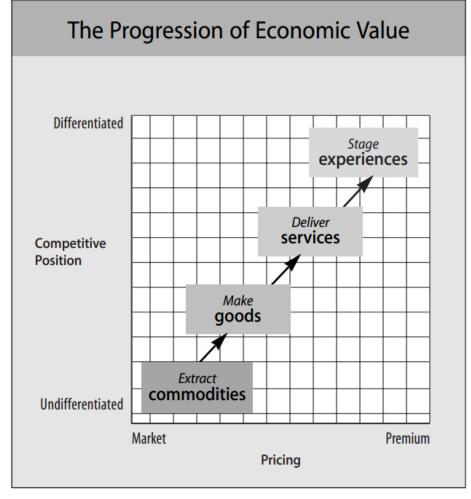
- Provide experiences for alternatives
- In the Museum
 - users with no additional personal tech (e.g. projected AR, background sounds, labels)
 - personal mobile devices
 - rented devices (e.g. AR or audio guides)

Remote

- Remote but local (e.g. in town but not in the museum)
- Remote a never there phyiscal
- mobile phone
- web browser
- VR devices

Inspirations / Random input

Experience as Value that is Staged

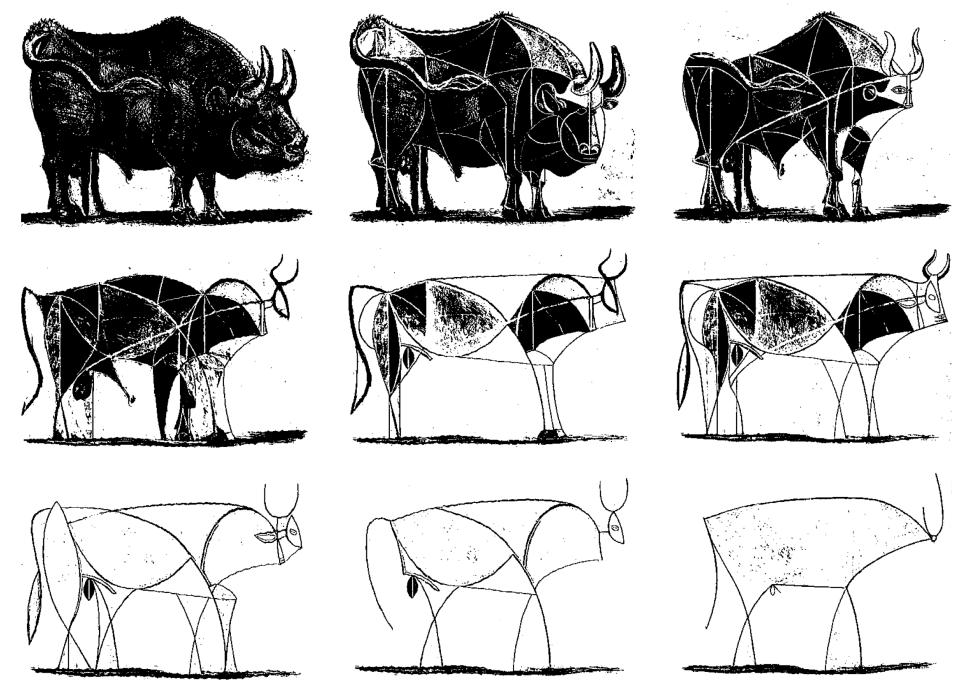


 Customers value the experience

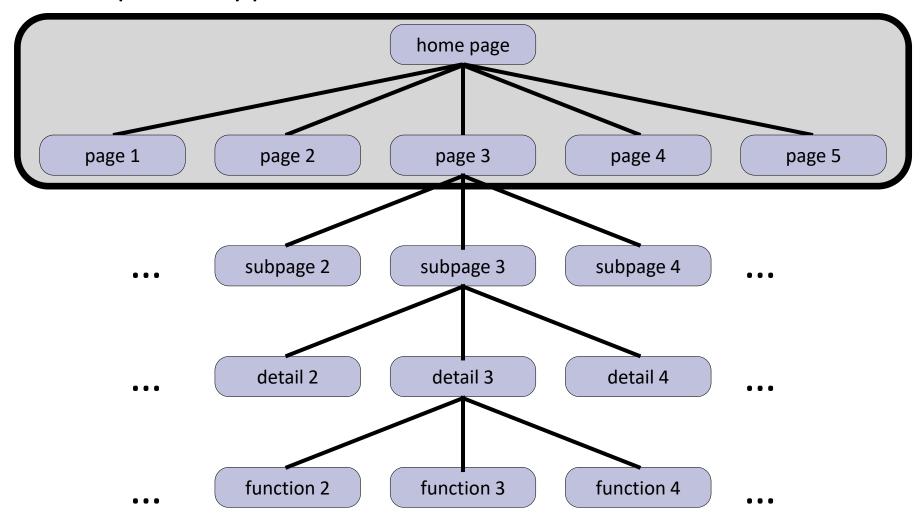
 From function to emotion

 BUT no experience without functional technology

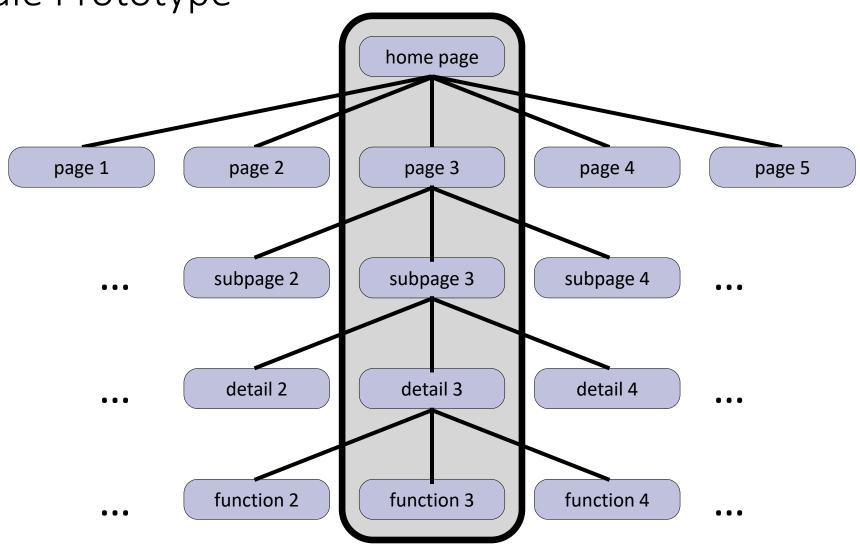
Aus: Pine and Gilmore. 1998.



Horizontal prototype



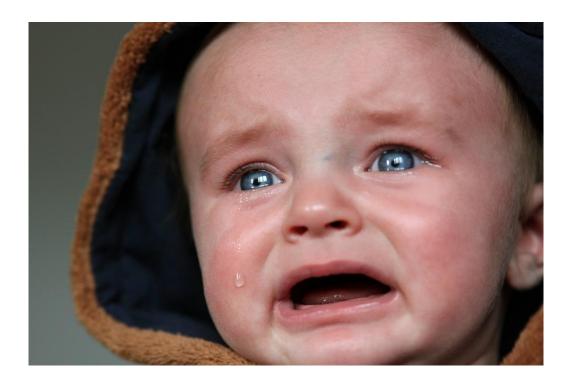
verticale Prototype





Very basic understanding

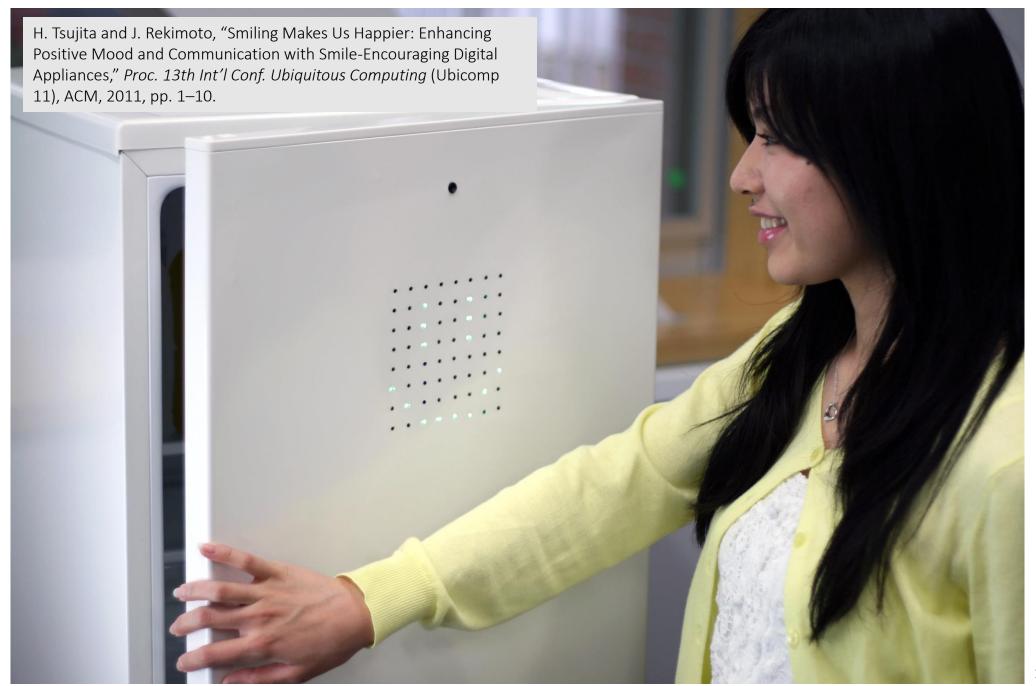
We are sad because we cry...
We cry because we are sad...





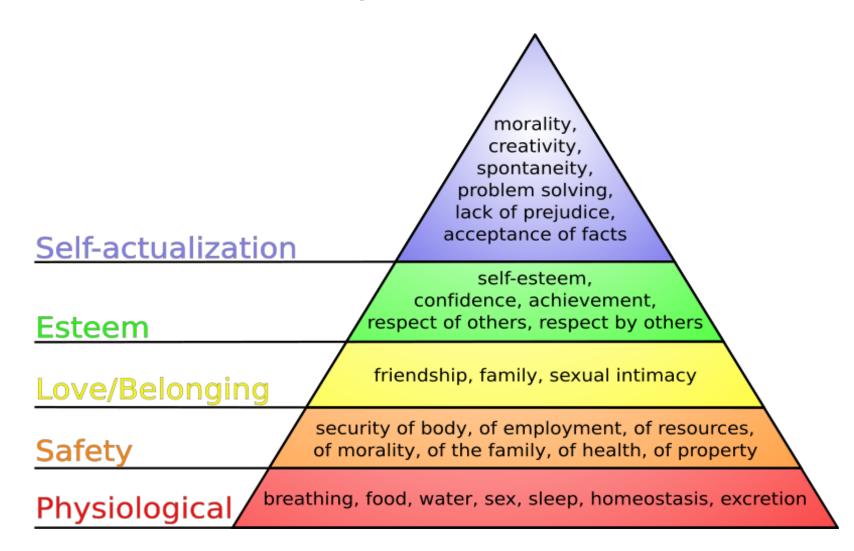
Emotion Various theories

- James-Lange: emotion is our interpretation of a physiological response to a stimuli "we are sad because we cry..."
- Cannon: emotion is a psychological response to a stimuli
- Schachter-Singer: emotion is the result of our evaluation of our physiological responses, in the light of the whole situation we are in
- Emotion clearly involves both cognitive and physical responses to stimuli





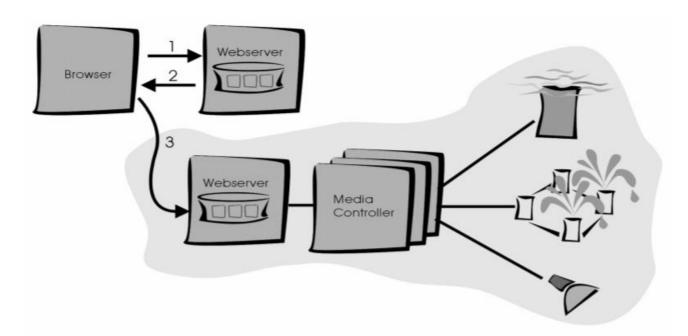
Design hints: "Long lasting constants" Maslow's Hierarchy of Human Needs











Hans Gellersen, Albrecht Schmidt (2001). Look who's visiting: supporting visitor awareness in the web.

https://doi.org/10.1 006/ijhc.2001.0514

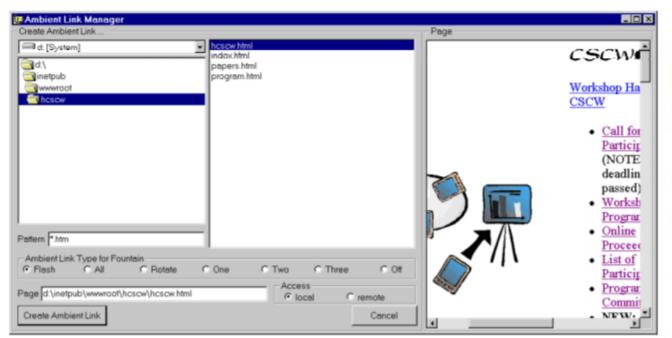




Figure 4: Ambient Link Manager

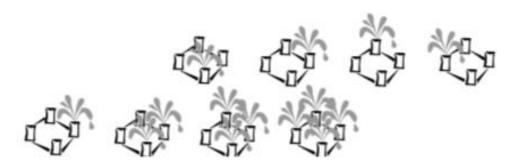


Figure 3: Patterns and Table Fountain

Schmidt A, Gellersen HW, Beigl M. Matching information and ambient media. InInternational Workshop on Cooperative Buildings 1999 Oct 1 (pp. 140-149). Springer Berlin Heidelberg.

Time plan

- Form groups (now) 4 to 6 persons per group
- Lunch in groups
- All meet at the Goethe-Museum at 14:30
- Back at the lab at 17:00
 - 1 minute presentation by each group "the big idea"
- Works... lab will be open (till the last one with a access card leaves)
- Presentations by 9 am
 - 10 Minutes per group



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UNDERSTANDING AND RESEARCHING THROUGH MAKING: A PLEA FOR FUNCTIONAL

PROTOTYPES





Albrecht Schmidt

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Over the past 20 years, our community has embraced low-fidelity prototypes. We see many researchers using paper prototyping, mock-ups, and sketches to explore their ideas. It is easy to do and there are many good reasons for low-fidelity prototyping [1]; however, in exploring new routes in human-computer interaction, this is only the first step. In my experience, low-fidelity prototypes are helpful in killing bad ideas early in the design process but are insufficient in validating ideas and concepts—in particular, new interaction technologies beyond the classical (touch)screen. Many researchers, though, stop at the easy-to-do low-fidelity prototype and do not move to the next level: functional prototypes. Different forms of prototyping can help narrow the search space for a solution in different phases in the process (Figure 1). It is important to understand that the type of prototype we use strongly affects what type of user interaction is created and what type of feedback is received, as already shown in [2].



↑ Insights

→ Making functional prototypes is a source of inspiration, understanding, and reflection.

➤ The HCI community could:



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