Design Thinking and Advanced Prototyping

ELEC-C9821 – Users and Technology



Salu Ylirisku 18.1.2023

Today's agenda

09:15 - 10 Lecture

- 1. Interpreting (and Ideating)
- 2. Checking the Teams (final tweaks)

10:15 - 12 Workshop

- 3. Teamwork: Interview exercise
- 4. Discussion: Documenting the user studies



Learning goals

- Learn why ideation is not enough
- Learn how to generate user study results for design through different types of interpretation



Why ideation is not enough



The Aim

To have a Great Idea!



Generating the Idea

A typical 'method' in design process is called 'brainstorming' But it sucks alone



Principles of Brainstorming

Safe Space

All ideas are good

Build on each other's ideas

Quantity over Quality

Defer judgment etc..



Recently a lot of criticism

Does not necessarily result in <u>relevant</u> ideas

What is this relevance, and how can we achieve it?



Interpretation



Interpretation vs. analysis

Interpretation is subjective, i.e. relative to the agent

- You are interested in what your observations mean to you & to your project
- It is about empathy, reflection, relevance

Analysis is objective

• It is about hard facts, amounts, statistics, validity



Three types of interpretation

Direct Interpretation

Bottom-up Clustering

Using Templates



Direct Interpretation



Direct interpretation

You observe something, and take it as it is.

For example, you observe that a user says "It must be small". You take their suggestion as is.



Bottom-up Clustering



Bottom-up Clustering



Using Templates (Schemes, Models)



Interpretation Templates

Interpretation templates are tools to help to structure your observations according to what has worked previously in different kinds of design projects.

Different kinds of design projects:

- Professional information systems design
- Personal digital instrument design



Professional Information Systems Design



Professional information systems design

- Roles
- Tasks
- Information entities
- Information flows
- Management structures



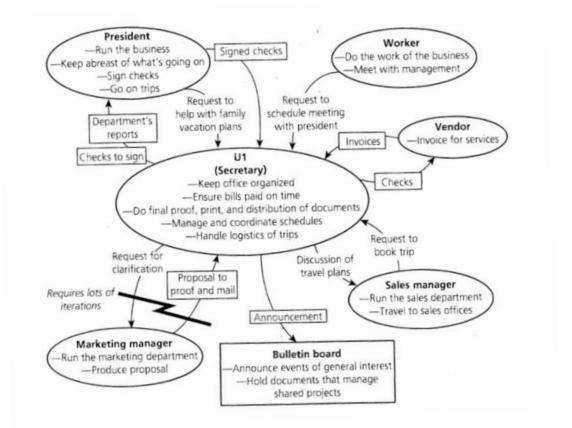
Flow model

Roles

Tasks

Information flows

Management



Aalto University School of Electrical Engineering

Beyer, H., & Holtzblatt, K. (1998). *Contextual Design: A Customer-Centered Approach to Systems Designs*. Morgan Kaufmann.

Sequence Model

Intent: Plug in



Tasks + 'issues'

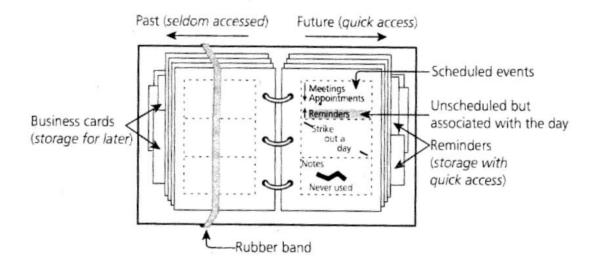
Aalto University School of Electrical Engineering

Beyer, H., & Holtzblatt, K. (1998). Contextual Design: A Customer-Centered Approach to Systems Designs. Morgan Kaufmann.

Artefact Model

Information entities





Aalto University School of Electrical Engineering

Beyer, H., & Holtzblatt, K. (1998). *Contextual Design: A Customer-Centered Approach to Systems Designs*. Morgan Kaufmann.

Personal Digital Instruments Design



Personal Digital Instruments

- Personas
- Goals, Values, Attitudes
- Style and Choices
- Activities, Rhythms
- Social Settings

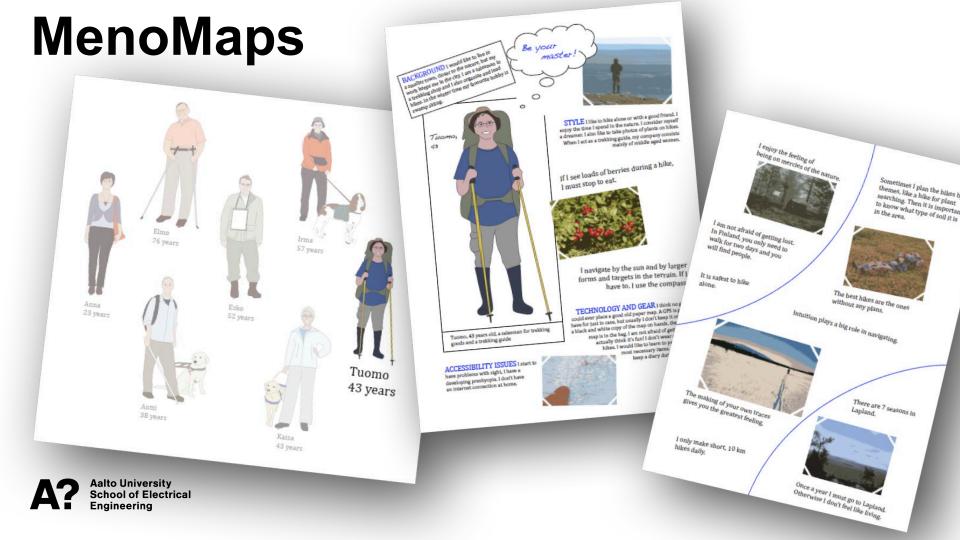


Personas

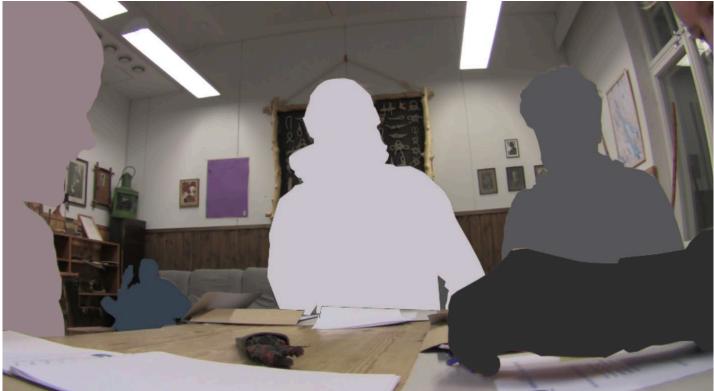
- Artificial-but-concrete representations of users
- Many users can be combined into one Persona
 - Based on relevant similarities
- A Persona represents a user segment



Name	Age		Background
Style			
Attitude towards tech			
			Especially looking for
Outdoors style			
With whom goes out		Daily rhythm	Weekly rhythm Annual rhythm
Some nasty details		An interesting site	uation for this project

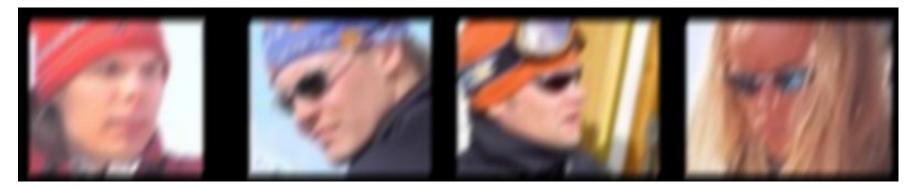


Anonymizing





Freeride – Values & Attitudes



Photographer

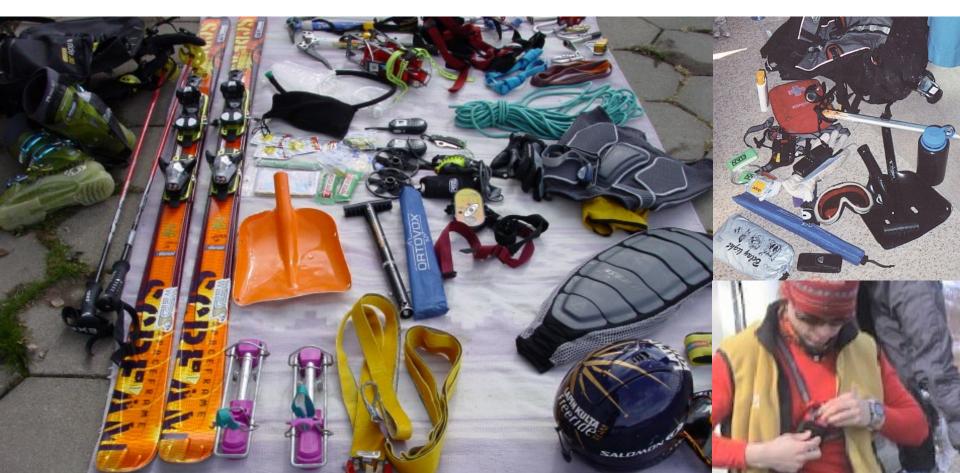
Hedonist

Safety-Freak

Authority



Style and Choices



Goals and Activities



Social settings









A practical 2-2-2 model



-- Presence Check --



Finalizing Teams



Workshop Interview



Workshop – Test your interview

Imagine that you have gotten someone to participate in your study.

Act out the interview in the following manner:

- Introductions how do you start?
- First question
- Thanks and follow-up

2 of your team members goes to interview another team members – 1-1 interviews (some of you may observe and make notes)



Reflection



This week's tasks

Proceeding with your user study

Diary-keeping

User study reporting – what is the status (by next Tue)

Exercise 3

