

Analysing data



Affinity sorting help identifying common themes in your research

Create a wall of data

- Go through your notes or recordings and write post-it notes for each and every meaningful consumer comment
 - Write in the users' voice "I don't like package holidays because they're too expensive"
 - Write your own insights and questions in a different colour
- Writing all the relevant user comments by hand is the single best way to get an real empathy for your users
- After building the wall of data, start grouping the post-its so that similar post-its are together. Group by common goals, behaviours, attitudes, activities, etc.
- Involve other people in this analysis to check your assumptions

Analysing data from user research

Analyse:

- User outlook and perspective, their building blocks for a mental model
- Goals
- Behaviours
- Processes & tasks
- Social interactions
- Physical environment

....and distil into personas, scenarios, lists of requirements etc.



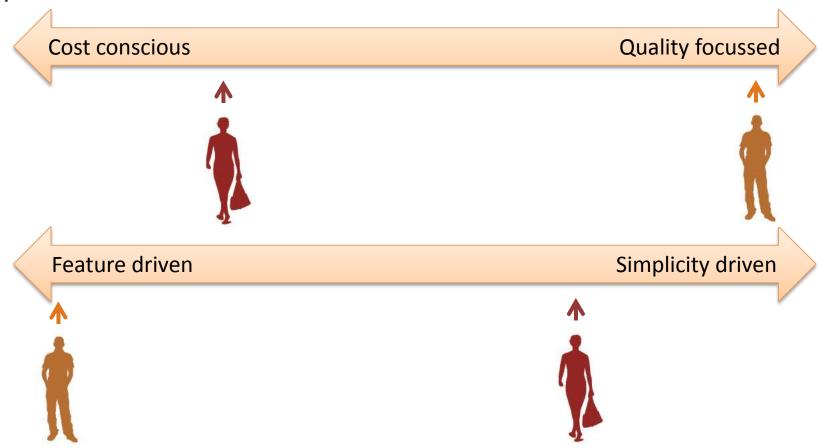
Personas

- Personas are a way to sum up user research into archetypical user representatives, describing goals, attitudes and motivations
- They merge many sources of data into a format that drives successful design
- **Build consensus** about who the target users are and avoid selfreferential design
- Allow to quickly **explore or** validate design decisions



Personas – Behavioural variables

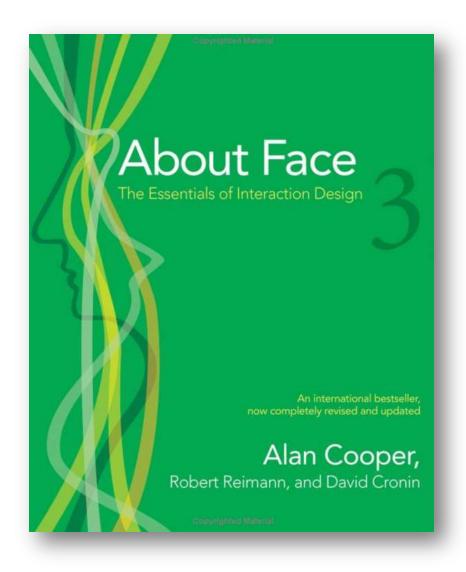
Map your personas to the behavioural variables identified in your research:



Personas – Goals, attitudes and motivations

Define the goals of your personas based on your users# research:

- **End goals:** What outcomes they want to achieve
- **Experience goals:** How users want to experience your product or service
- Life goals: What users want to achieve in their life
- **Attitudes,** what **motivates** and what **annoys** them
- How they relate to the organisation
- What makes them a design challenge
- Their outlook in a single sentence or metaphor



Scenarios

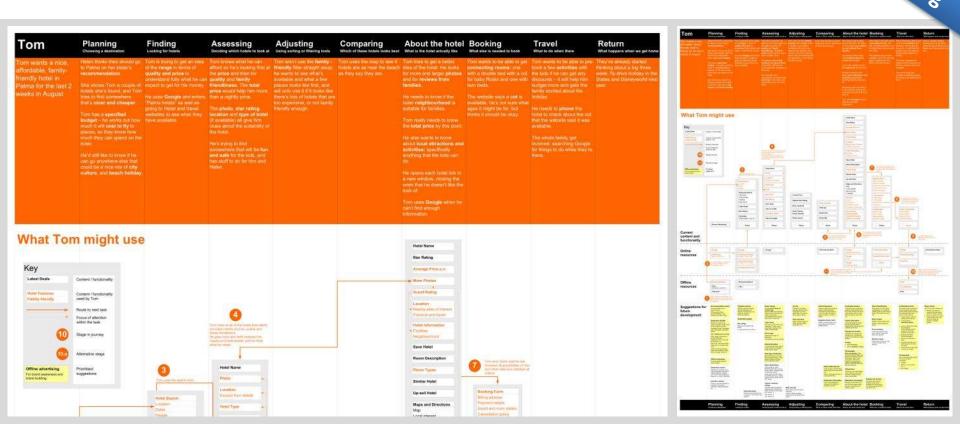
Scenarios are user stories that describe the steps users go through to satisfy their goals:

- Task scenarios describe what users are doing currently
- **Use scenarios** describe how users will perform the same task using your product or service
- Task scenarios should contain information about the user, his goals, actions, objects used and information needed, set in **context**.
- Task scenarios help you to define functional requirements and to find gaps in the current offering

Documenting scenarios

- Use scenarios are effective to describe system requirements in a way that keeps the user at the heart
- Choose the right way to document your stories. There are a number of options:
 - Narrative stories
 - Flow diagrams
 - Use Cases

Gap analysis



Mapping a persona's scenario against site functionality help identifying gaps in the functions and information offering

Task analysis

Task analysis is the breakdown of (complex) tasks into a sequence sub-tasks (actions). Pay attention to:

- Frequency
- Level of skill required
- Knowledge required
- **Environment**
- Safety
- Switching with other tasks
- Social context

Task analysis allows you to:

- Diagnose problems or inefficiencies
- Gather requirements

Requirements

Based on the business requirements gathered and user research conducted, you should be able to start thinking about:

Functional requirements: What your product must do

- Specifications of the system's functionality
- Actions that the system must take (verbs)
- Not a quality e.g. 'fast'

Non-functional requirements: a quality your product must have (look and feel, usability, performance, operational, maintainability & portability, security, cultural & political, legal)

Summary

We talked about:

- The importance of **user mental models** in user experience
- The need to understand business requirements, organisational factors such as stakeholders and the market
- User research methods: Contextual inquiry, lab interviews and diary studies
- Ways of summarising this research: Personas, Storyboards, Task analysis and Scenarios
- Types of requirements

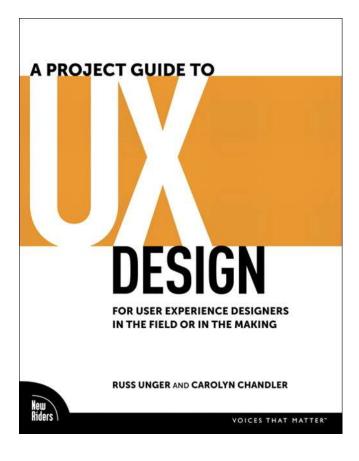
Further reading...

Chapter 4: Project objectives

Chapter 5: Business Requirements

Chapter 6: User Research

Chapter 7: Personas



Further reading...

