SWE 503 | Lec 2 | Aug 26, 2024

Defining "Good" User Interfaces

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In today's lecture

- What is a good interface?
- Systematic ways to build & evaluate interfaces.
- Practice evaluating interfaces

User Interface?

A User interface is:

Set of all the components of an interactive system that provide information and controls for the user to accomplish specific tasks with the interactive system

-ISO

~ 10 mins

Write down a short paragraph about your last experience in interacting with a software system?

Then share your experience ..

Can we quantify/measure an experience?

Revision of user goals in ..

- Uber Mobile App?
- MS teams?
- Smart lock

A good interface is measured by:

User Performance

User Perception

User Performance

- Could users achive their goal? (Effectiveness)
- How fast could they achive it? (Effeciency)
- Did they commit any mistakes? (Error Rate)
- Could they remember next time? (Learnability)

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User Perception

- How satisfying was it? (Satisfaction)
- Do they trust the system? (Trust)
- How convincing was it? (Authentic)
- Did they enjoy it? (Enjoyment)

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Which is more important?

Importance change based on context & user goals...

- Banking (Trust > Enjoyment)
- Education (Enjoyment > Error rate)
- Games (Excitement > Learnability)

~ 10 mins

Go back to the same experience and try to evaluate it using Performance & Perception metrics ..

Then share your experience ..

Are there well defined methods to ensure that we build good interfaces?

Are there well defined methods to ensure that we build good interfaces?

- Design processes
- Design principles
- Research Methods
- Evaluation Methods

Design Processes

HCD

Method

Design

Sprints

Lean UX

Method

Design

Thinking

Double

Diamond

Design Principles

Consistency

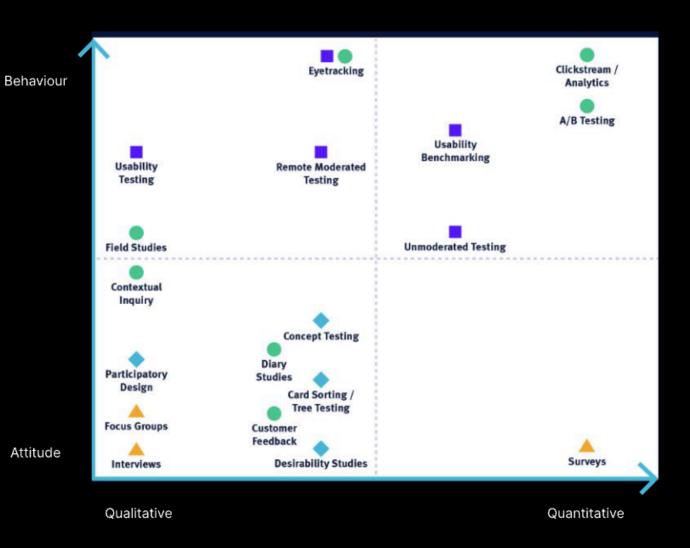
Visibility

Feeback

Constraints

Affordance

Research methods



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~15m

Evaluate your previous interaction using Nielsen's 10 Usability Heuristics for user interface design

-> Google: Nielsen's 10 usability heuristics

Next Week

- The Double Diamon Process
- Read Chapter 1 of Interaction Design, Beyond Human-Computer Interaction
- Pay attention to BB announcements