

Tujuan Perkuliahan



Desain Interaksi

Memahami apa itu desain interaksi, lingkup, karakteristik, dan tujuannya



Usability

Memahami apa itu Usability dan kriterianya



User Experience

Memahami apa itu user experience

What is Design

"Design is a plan for arranging elements in such a way as best to accomplish a particular purpose"

Charles Eames

What is interaction design?

Designing
interactive
products to support
the way people
communicate and
interact in their
everyday and
working lives.

Sharp, Rogers, and Preece (2019) The design of spaces for human communication and interaction.

Winograd
(1997)

The design of the interaction between users and product.
Involve elements like aesthetics, motion, sound, space, and many more.

What to design



Need to take into account:

- Who the users are
- What activities are being carried out
- Where interaction is taking place

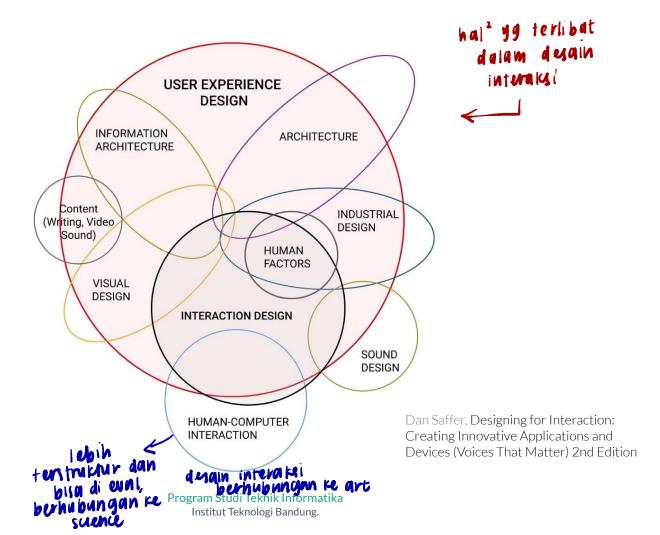
Need to <u>optimize</u> the interactions users have with a product:

• So that they match the users' **activities** and **needs**

Goals of interaction design

pesain interacti – usability.

- Develop usable products
 - Usability means easy to learn, effective to use, and provides an enjoyable experience
 - Involve users in the design process
- To create product that enable the user to <u>achieve their</u> <u>objectives</u> in <u>the best way</u> possible



The user experience (UX)

- User experience (UX) refers to any interaction a user has with a product or service
 - The way people **feel** about it and their **pleasure** and **satisfaction** when using it, looking at it, holding it, and opening or closing it
 - Encompasses all aspects of the end-user's interaction with the company, its services, and its products. (Nielsen and Norman, 2014)
 - "Every product that is used by someone has a user experience: newspapers, ketchup bottles, reclining armchairs, cardigan sweaters." (Garrett, 2010)
- Cannot design a user experience—only can design for a user experience
- User Experience is not about technology, industrial design, or interfaces. It is about <u>creating a meaningful experience through a device</u>. (Marc H.)

Defining user experience

How users perceive a product, such as whether a smartwatch is seen as sleek or chunky, and their emotional reaction to it, such as whether people have a positive experience when using it.

Hornbæk and Hertzum

apa yg divasakan penaguna rehka menagunakan aptikasi (feeling). bukan fiturinya. ux ini dampak/efek dan usability. contoh: apple sm android mungkin usability nya sama, fapi ux nya mungun beda.

Hassenzahl's (2010) model of the user experience

Pragmatic: how simple, practical, and obvious it is for the user to achieve their goals

Hedonic: how **evocative** and **stimulating** the interaction is to users

User experience goals

Selecting terms to convey a person's feelings, emotions, and so forth can help designers understand the multifaceted nature of the user experience

Feeling yg muncul krn

udh melewati treshold, id disini treshold his

didefunisikan dan benat



Usability goals

"Usability is a measure of how well a specific user in a specific context can use a product/design to achieve a defined goal."



10 Usability Heuristics

Visibility of system status

- Recognition rather than recall
- Match between system and the real world
- Flexibility and efficiency of use

🔼 User control and freedom

Aesthetic and minimalist design

Consistency and standards

Helps users recognise, diagnose, and recover from errors

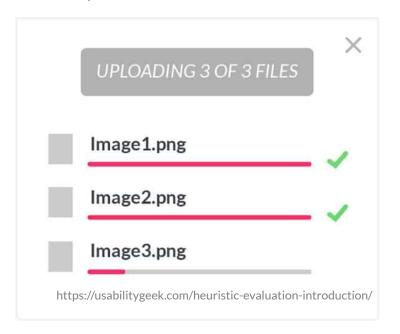
Error prevention

Help and documentation

Visibility of System Status

The user should know what's going on inside the system.



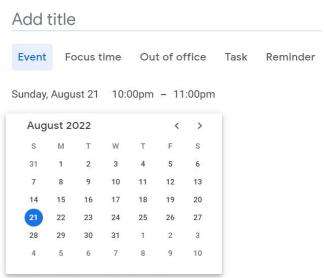


Match Between System and Real Worlds

Systems should speak the users' language with familiar words, phrases, and concepts rather than system-oriented terms.



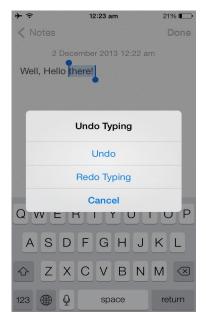
Neelanjana Dutta

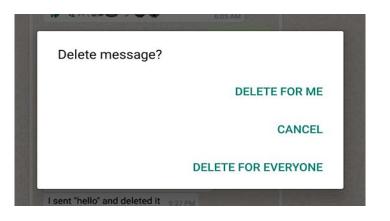


Add description or attachments

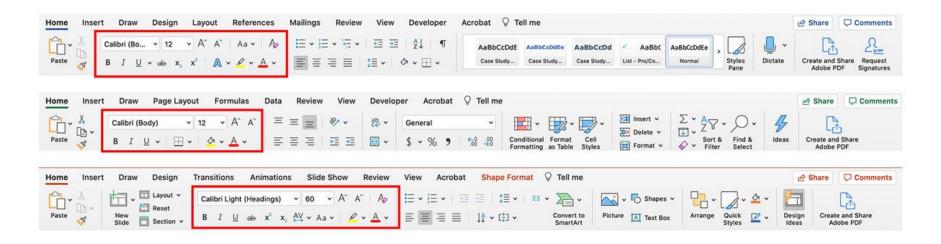
User Control and Freedom

Giving the user the freedom to navigate and perform actions.



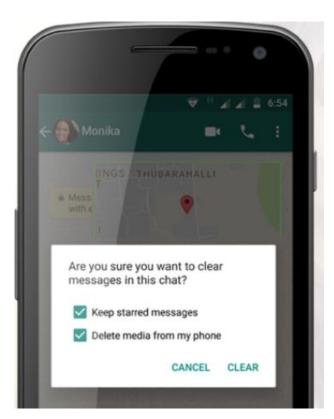


Consistency and Standards



Word (top), Excel (middle), and PowerPoint (bottom).

Error Prevention



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Recognition rather than Recall



Q	recog	^	Y
0	recognition rather than recall		Remove
Q	recognition		
Q	recog nize		
Q	recognition meaning		
Q	recognise		
Q	recognition adalah		
Q	recognized		
Q	recognize artinya		
Q	recognized artinya		
Q	recognition artinya		
	Google Search	I'm Feeling Lucky	
		Report inappropriate p	redictions

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Aesthetic and Minimalist Design

Aesthetically pleasing designs can provide memorable experiences that differentiate a brand.

However, interfaces should only include necessary elements, with high informational value.

Clarity will always win over visual flourish.

14:59

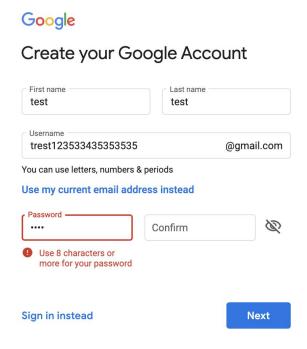
idle



On hover

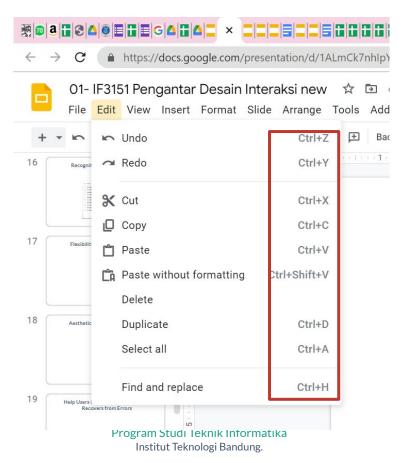
https://www.nngroup.com/articles/aesthetic-minimalist-design/

Help Users Recognise, Diagnose, and Recovers from Errors

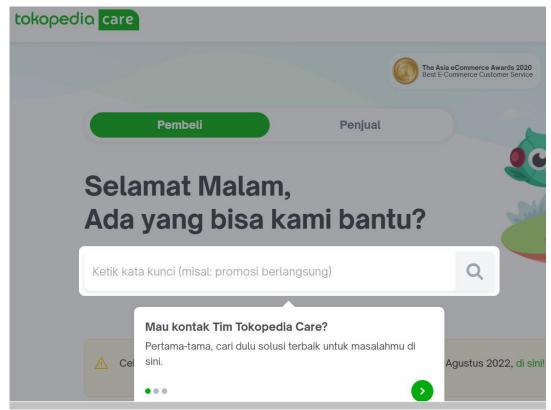


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Flexibility and Efficiency of Use



Help and Documentation



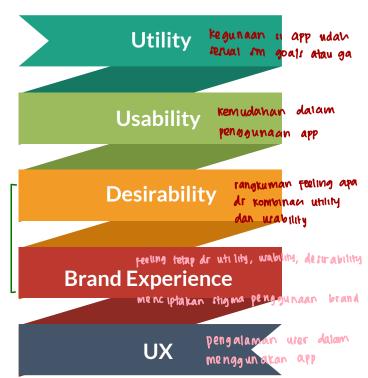
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Usability goals & User Experience goals

Usability is a component of user experience (UX) design.

Are there trade-offs between the two kinds of goals?

For example, can a product be both fun and safe?



Interaction Design Methods (1)

Activity-centered Design

- Good for intense, focused, complex activities
- Refining task flows
- Making actions mode efficient
- Not good for big picture rethinking

System Design

- Good for large-scale designs
- Models for large teams
- Not good for small project
- Very analytical

Interaction Design Methods (2)

Genius Design

- Good for rapid project
- Possible to het a "purer" vision and more radical jumps in products
- Flexible
- Not good for inexperienced designers
- Need domain knowledge
- Can be very, very wrong

User-centered Design

- Understand unfamiliar domains
- Empathy with users-focus on people
- Can catch problems (and opportunities) up front
- Hard for people to evaluate (and generate) new product ideas
- Are you focused on the RIGHT users?
- User goals can be slippery
- Does it scale?

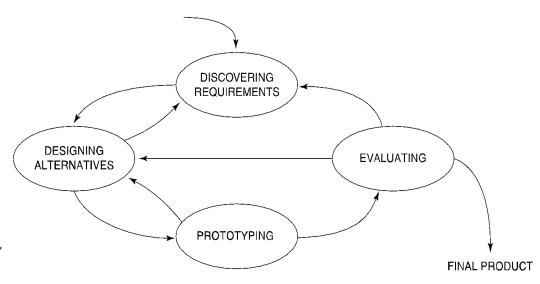
Basic Activities of Interaction Design

Discovering requirements

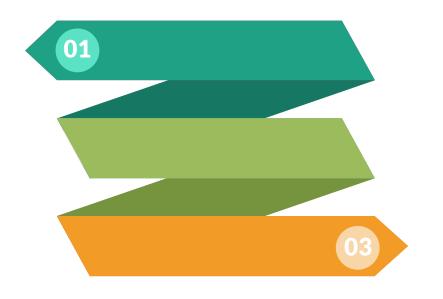
Designing alternatives

O Prototyping alternative designs

Evaluating product and its user experience throughout



Core characteristics of interaction design





Users should be involved



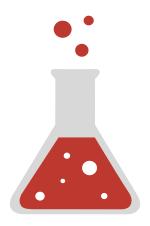
Specific usability and user experience goals need to be identified, clearly documented, and agreed to at the beginning of the project



Iteration is needed through the core activities

Help designers

- Understand how to design interactive products that fit with what people want, need, and may desire
- Appreciate that <u>one size does not fit all</u> (for example, teenagers are very different to grown-ups)
- Identify any <u>incorrect assumptions</u> they may have about <u>particular</u> user groups. (for example, not all old people want or need big fonts)
- Be aware of both people's <u>sensitivities</u> and their <u>capabilities</u>



Creativity is the key to success in the great education

Terima Kasih

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