KAIST Spring 2025

CS374: Intro to HCI

hci.cstlab.org

Class 02:
Design Thinking: 60-min Workshop

2023.02.27

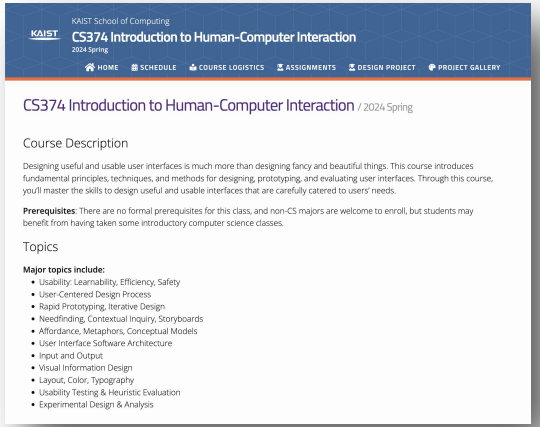
Joseph Seering

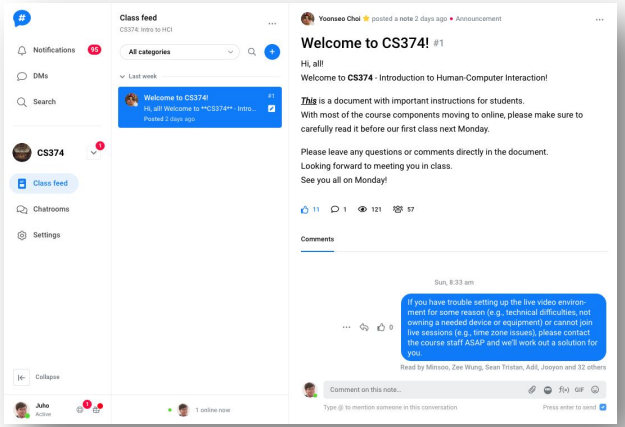
ADMINISTRATIVE NOTES

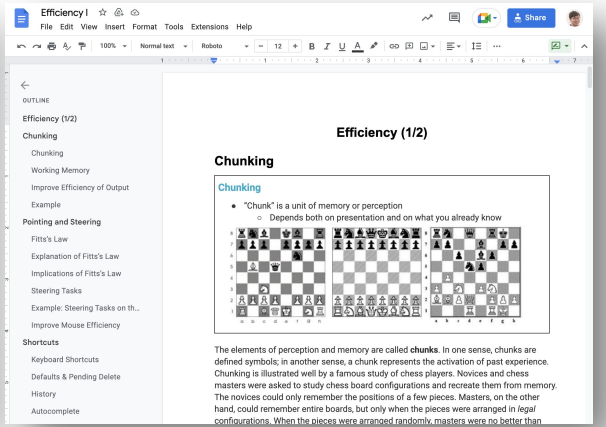
- By MONDAY
  - Course sign-up! This is a mandatory form IN ADDITION TO portal registration to be officially enrolled in the course.
- 3/5 (Tue)
  - Pre-class reading: Needfinding

COURSE INFRASTRUCTURE

- Website: calendar, assignments, readings
- Campuswire: announcements, discussion, examples, Q&A
- Google Docs: reading materials







PRE-CLASS READING

- Each reading link will be posted on the course website.
- Annotate & Discuss: Share examples, disagree with the notes, ask questions, find typos, etc.
- Use your real name.
  - We track your participation.

USUAL CLASS STRUCTURE

- Before class: Read, watch pre-class material
- 5 min: Nanoquiz
- 30 min: Activity & Discussion 1
- 5 min: Video break
- 30 min: Activity & Discussion 2
- After class: Campuswire discussion

TODAY'S CLASS

- ~~Before class: Read, watch pre-class material~~
- ~~5 min: Nanoquiz~~
- 60 min: Activity & Discussion 1
- ~~5 min: Video break~~
- ~~25 min: Activity & Discussion 2~~
- After class: Campuswire discussion

PRACTICE NANOQUIZ

- Simple questions about the pre-class material
- 3 minutes
- Open book, open notes, but they won't help much.
- Send DM to course staff if you can't access the form.
- Form closes 10 secs after the quiz is over.
- Resubmission is allowed, we count the last submission.
- Enter email for confirmation receipt.

0:00

Practice Nanoquiz

For each of the following user interfaces, which are the **most** important **usability dimensions** ? (choose all good answers)

1. A job application kiosk installed at a small homeless shelter
   A. learnability B. efficiency C. safety D. reliability

2. The interface that department staff uses to enter course grades
   A. learnability B. efficiency C. safety D. reliability

3. The configuration interface for a printer driver
   A. learnability B. efficiency C. safety D. reliability

4. I can make the studio session on Wednesdays at… (mark multiple if possible, only mark hard constraints like a regular course, not your preference)
   A. 5:30-6:30pm B. 7-8pm (default) C. neither

PRACTICE NANOQUIZ

- Simple questions about the pre-class material
- 3 minutes
- Open book, open notes, but they won't help much.
- Send DM to course staff if you can't access the form.
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- Enter email for confirmation receipt.

yellkey.com/keep

0:00

Practice Nanoquiz

1. What is the course number for Intro to HCI?
(choose one best answer)

A. CS373 B. CS374 C. CS375 D. CS376

2. Who is part of this course's staff? (choose all good answers)

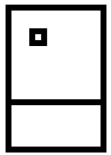
A. Joseph Seering B. Mike Krieger
C. Yoonseo Choi D. Larry Page

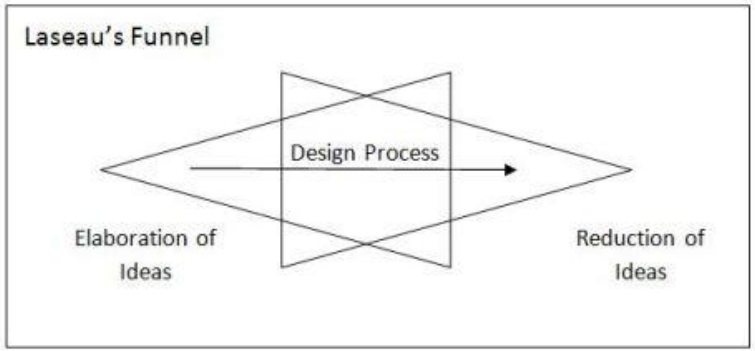
3. What is the name for a poorly designed door that doesn't give you any information about whether to push or pull? (choose one best answer)

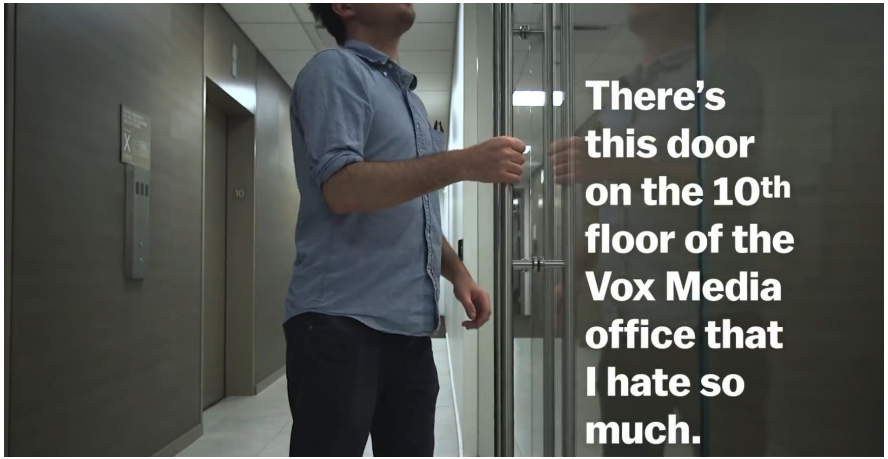
A. Simon door B. Ackerman door C. Norman door

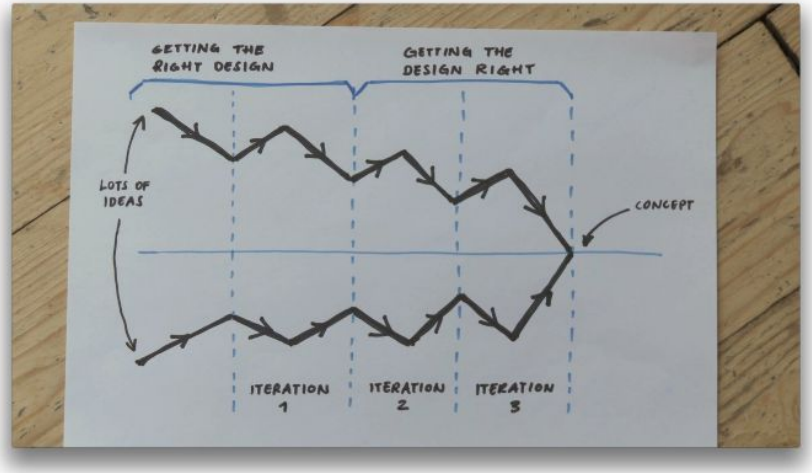
PREVIOUSLY ON CS374

useful
usable









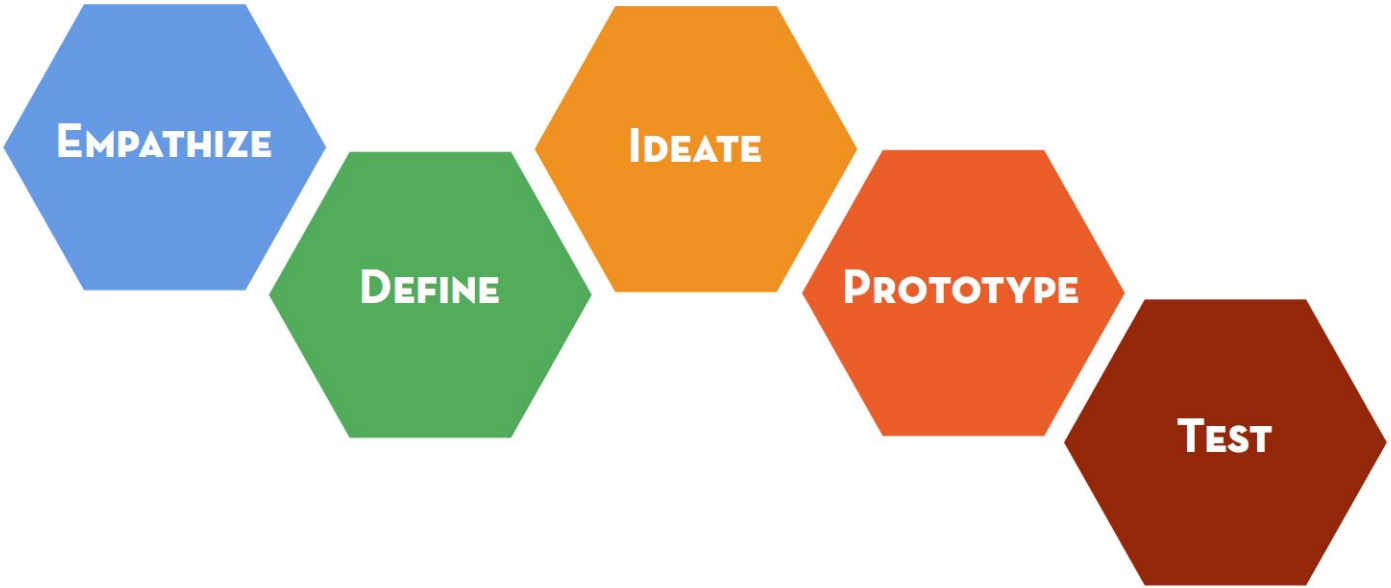
LEARNING OBJECTIVE

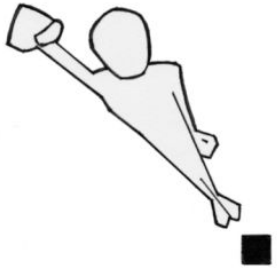
"You'll master the skills to design useful and usable interfaces that are carefully catered to users' needs."

60-MIN DESIGN THINKING WORKSHOP

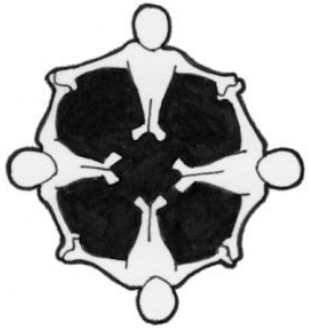
- Entire semester into an hour!
- Rapid run-through of the entire design process
- Will feel rushed & interrupted, but it's okay
- Trust the process

- Credit: Stanford d.school


Empathize
Define
Ideate
Prototype
Test



bias toward action



collaborate across boundries

focus on human values

be mindful of process

prototype toward a solution

show don't tell

THE TASK

Redesign your partner’s gift-giving experience

STEPS

1. A interviews B, B interviews A
2. A re-interviews B, B re-interviews A
3. (Each) Synthesize your findings
4. (Each) Write a POV
5. (Each) Sketch 5 solutions
6. B gives A feedback, A gives B feedback
7. (Each) Revise your sketch, build a “Prototype”
8. B gives A feedback, A gives B feedback

OUTCOME

- Filled out worksheet, including insights and a “prototype”

NOTE: It’s okay to do in-class activities like this one in English OR Korean.

EMPATHIZE

1.

A interviews B

EMPATHIZE

1.

B interviews A

EMPATHIZE

2.
A interviews B
again

EMPATHIZE

2.
B interviews A again

EMPATHIZE

3.
Synthesize needs & insights

DEFINE

4.
Write your POV

0:00

IDEATE

5.
Sketch 5 solutions

TEST

6.
B gives A feedback on sketches

TEST

6.
A gives B feedback on sketches

ITERATE & PROTOTYPE

7.& 8.
Revise your sketch
& Build your solution

TEST

9.
B gives A feedback on prototype

TEST

9.
A gives B feedback on prototype

WRAP-UP

- If you couldn't complete every step, please finish by at least including the following on your slides:
  - Your prototype sketch
  - Your problem statement
  - One line solution description

- Discussion on Campuswire is welcome!