ANALYSIS OF INTERACTION DESIGN

Course Overview

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Outline

- What is this course about?
  - Course Objectives
  - Course Outcomes
- Course Syllable
  - Course Content Outline
  - Assessment Methods and Types
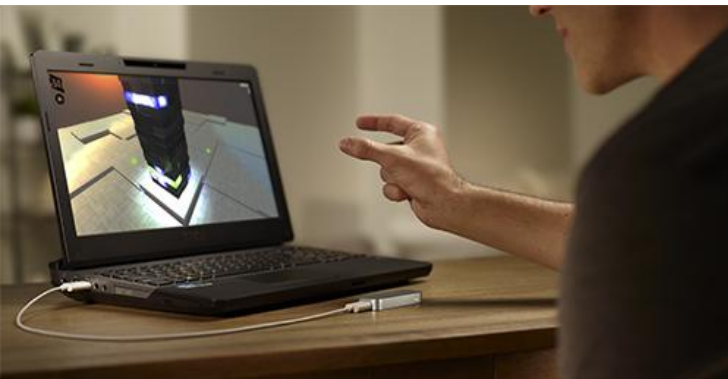
What is this course about?

Faculty Introduction

□ Shihui Guo

□ Yitong Li (TA)

□ Support from Netease, Cocos

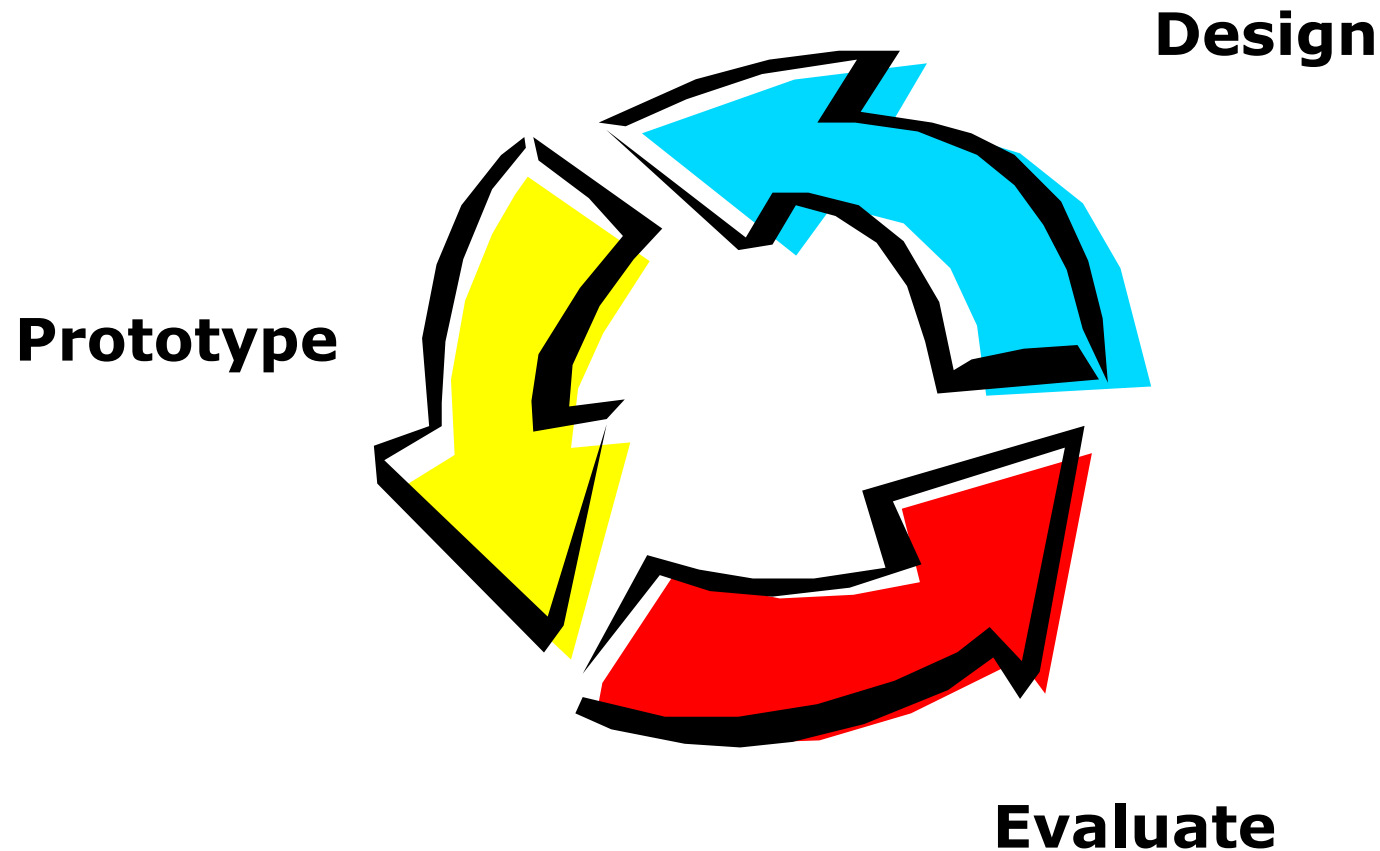# What is Interaction Design

- The interaction here mainly refers to human-computer interaction

- The goal is to design a friendly interaction for humans to communicate with computers, and vice versa, using the skill of programming!

What is Interaction Design

What is Interaction Design

Design

Prototype

Evaluate

At every stage!

Analysis of Interaction Design

- Analyze the design of human-computer interaction
- Analyze the user demands of the product
- Analyze the feature provided from the product
- Evaluate its advantages and disadvantages
- Evaluate the difficultness of technical implementation

- Then, hands-on implementation…

Course Objective

- Understand the basic concepts of human-computer interaction

- Acquire the knowledge of the development history of human-computer interaction

- Acquire the skills of developing application prototypes of human-computer interaction

Course Outcomes

- You are familiar with the field of human-computer interaction

- You are capable of analyzing/evaluating the design of a human-computer interaction

- You are capable of developing a prototype of a human-computer interaction

Tools to be offered

□ Virtual and Augmented Reality Devices
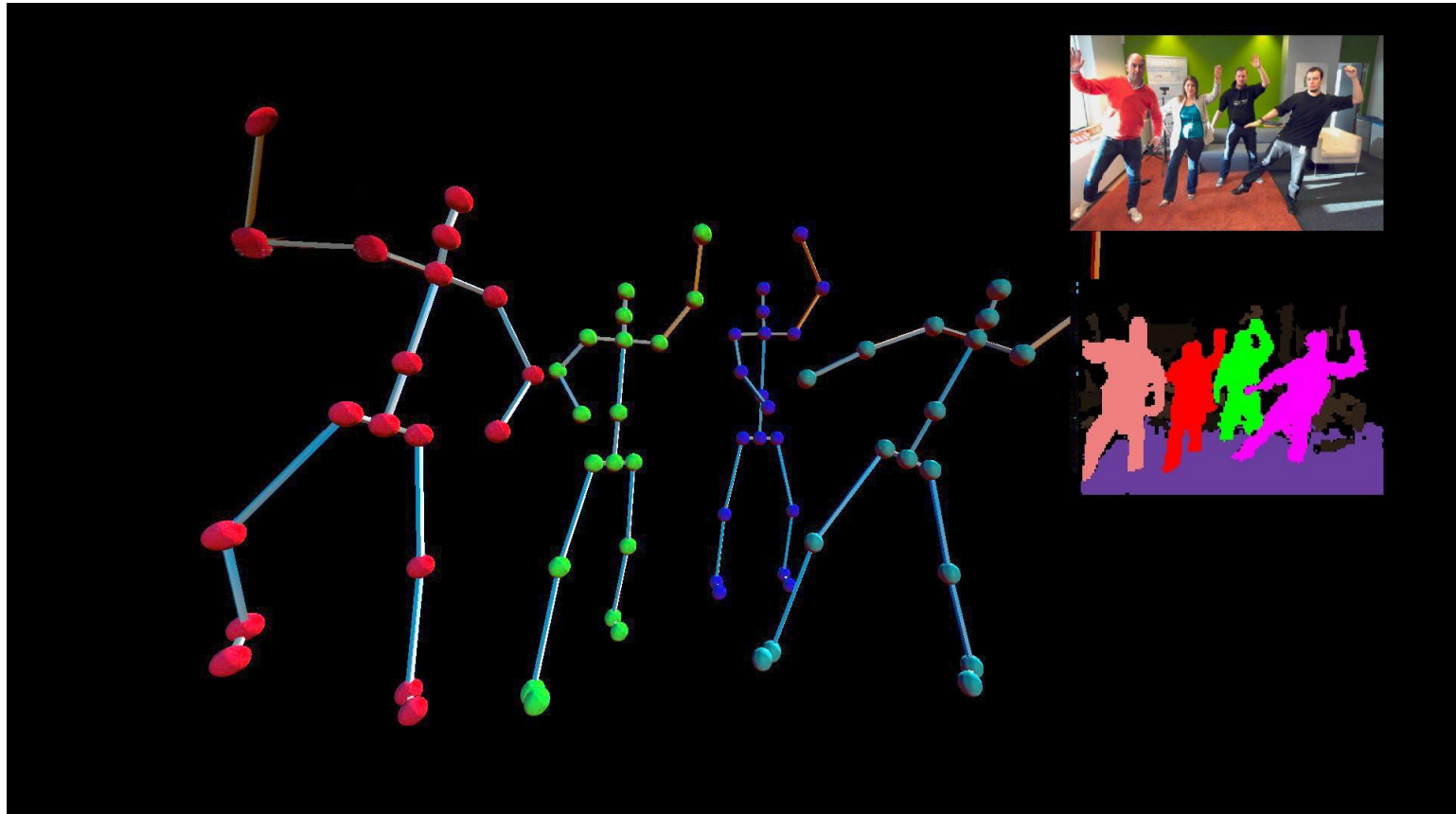
Tools to be offered

□ Gesture Capture and Recognition Devices

Tools to be offered

- Full-body Motion Capture Device

Tools to be offered

- Anything else you want to buy, raise your hand and tell me why

Course Syllable

Assessment Methods and Types

	Type	Percent
Individual Task →	Course Participation	10%
Individual Task →	Paper Presentation	10%
Group Project ⎰	Progress Presentation	20%
	Final Project Presentation	20%
	Final Project Report	20%
	Demo Video	20%

☐ Group size: 3~5 persons

☐ Please enter list of your group members here:

☐ https://docs.qq.com/sheet/DQnBrSGNjV3hnV1Zk

Course Content Outline

□ Lecture/Lab/Presentation/Demonstration

	Tue	Wed
Week 1	Lecture & Lab	Lab
Week 2	Lecture & Lab	Lab
Week 3	Paper Presentation & Lab	Progress Presentation
Week 4	Paper Presentation & Lab	Lab
Week 5	Lab	Project Demo

Paper Presentation

- Read one paper from CHI 2022 papers
- https://dl.acm.org/doi/proceedings/10.1145/3491102

- After you choose a paper, input in the following table so others will not choose the same one
- https://docs.qq.com/sheet/DQnBrSGNjV3hnV1Zk

- Present the knowledge and information what you learnt from the paper
- 10 minutes presentation + 5 minutes Q&A

Paper Presentation

- What's the problem?
- What's new
- How they did it
- How they evaluated their method
- Demo video?
- Is the problem solved? What's the future?

Progress Presentation

- The purpose of progress presentation is to make sure, you are on the track
- So in this presentation, I would expect:
  - Your progress
  - Unsolved Problem
  - Future plan
- 10 Minutes only, no more!

Progress Presentation

☐ The grade of progress presentation is divided into 3 tiers

Tier	Evaluation Criteria
A	Excellent progress ahead of the original plan
B	Good progress in accordance with the original plan
C	Lagging behind the original plan

Final Project

□ Things you need to prepare:

  ▫ A presentation (15 Minutes + 5 Minutes Q&A)

  ▫ A video (duration < 30s)

  ▫ A demo application (on git repo), if possible, let's try it on spot

  ▫ A report (length < 5 pages), including the technical details of the program

Final Project

□ The grade of final project is divided into 3 tiers

Tier	Evaluation Criteria
A	Fully-developed Demo Application Interesting and Informative Presentation Well-prepared Demo Video Complete and well-written report
B	Close-to-complete Demo Application Moderate Presentation Moderate Demo Video Complete report
C	Incomplete DEMO application or well below the standard Boring, unattractive presentation No demo video, or with low quality Incomplete report, or with low quality

Tips

- NO.1: search for open source project
- If you can't find an open source project which is relevant to what you want, you need to find a good teammate

- If you don't have both, it's better to kill that idea

Thanks for participating!

Whenever you got a question, send me an email
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