

# Introduction to Computer Science Week 1- Impact of Technology

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## https://ppt.cc/fpAJfx





## **WELCOME ON BOARD!**

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## Introduction to Computer Science

1. Course#: 306005011

2. Lecture language: English-taught

3. Friday afternoon

4. Session: 13:10-15:00

5. Lab: 15:10-16:00

6. Classroom: 商館260207

7. All the materials will be uploaded to **Moodle** 

Α	06:10-07:00
В	07:10-08:00
1	08:10-09:00
2	09:10-10:00
3	10:10-11:00
4	11:10-12:00
С	12:10-13:00
D	13:10-14:00
5	14:10-15:00
6	15:10-16:00
7	16:10-17:00
8	17:10-18:00

### **Contact Info**

All emails to us about this class must contain **IntroCS2020** in the subject line to be read

- ▶ **IntroCS2020**: Questions about final project
- Email without this info might be deleted by spam filters
- Office hours: by appointment

#### Instructor:

▶ 簡士鎰 (James): sychien@nccu.edu.tw

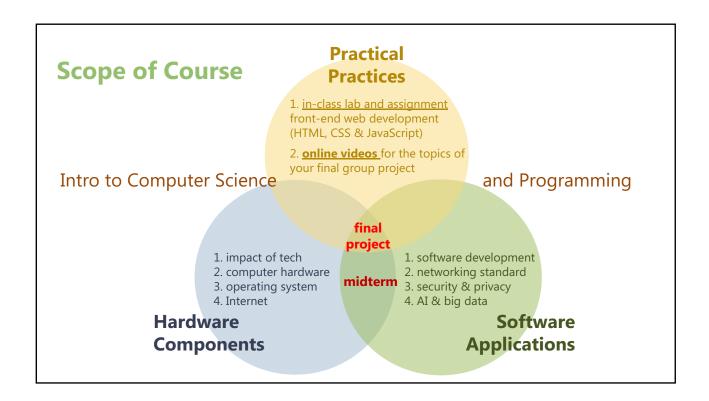
#### TAs:

- ▶ 楊程鈞 (Kevin): 108356018@nccu.edu.tw
- ▶ 莊景雲 (Ching-Yun): 109462007@nccu.edu.tw
- ▶ 林桂華 (Guei-Hua): 109356030@nccu.edu.tw

Course Info...

So.. what is this course about...?

WHY should I take this course?
WHAT will I learn from this course?
HOW can I apply what I have learned?





	Tentative Syllabus					
Week	Торіс	Lab	Assignment			
1 (9/18)	Impact of digital technology	Brief Intro				
2 (9/25)	Computer Hardware and Digital Media	1. learn history, conceptual structure and computer				
3 (10/2)	Holiday	organizations				
4 (10/9)	Holiday	2. study the state-of-the-art information technology				
5	Operating Systems and Internet	NIS Excel				
(10/16)	*Online Session: Intro to Social Technology by Prof. Hsiad					
6	Software Development	MS Word				
(10/23)	*Online Session: Fake News in Social Media by Prof. Su	f. Su 1. understand the innovative				
7	Networking Standard	features of intelligent systems				
(10/30)	*Online Session: Data Visualization by Prof. Hsiao	and compute	r applications			
8	Digital Security and Privacy	2. study the p	•			
(11/6)	*Online Session: Introduction to AI by Prof. Ku	learn from practical cases				
9	Al and Big Data	Personal	HW-1.2 (5%)			
(11/13)	*Online Session: Algorithmic Governance by Prof. Chen	Website II	Personal Website			
10 (11/20)	Midterm (30%)		Final Project Topic & Team Members			

9 (11/13)	Al and Big Data *Online Session: Algorithmic Governance by Prof. Chen		Personal Website II	HW-1.2 <mark>(5%)</mark> Personal Website	
10 (11/20)	Midterm (30%)			Final Project Topic & Team Members	
11 (11/27)	Programming Language: HTML I	1. develop your personal website and use it an online warehouse 2. gain experience in			
12 (12/4)	Programming Language: HTML II & CSS I				
13 (12/11)	Programming Language: CSS II	pr	programming languages through lab and assignment		
14 (12/18)	Programming Language: JavaScript I		JavaScript I	HW-5 <mark>(5%)</mark> JS Exercise	
15 (12/25)	Programming Language: JavaScript II		JavaScript II	HW-6 <mark>(5%)</mark> JS Exercise	
16 (1/1)	Holiday			wledge into the	
17 (1/8)	Demo Day- Final Project Presentation (35%)		final group project Up to 4 students		
18 (1/15)	Winter Break				

## **Grading**

#### Homework 35% (6 homework)

- Personal website: 10 pts
- ▶ HTML\*2, CSS\*1 and JavaScript\*2: 5 pts each

### Midterm <u>30</u>% (Nov. 20)

- Multiple choice questions, true/false questions
- Open questions

#### Final Group Project 35% (Jan. 8)

Details shown on next page (submit your poster file by 12/30)

#### Course participation: <u>5</u>%

In case you are in the borderline (#urwelcome)

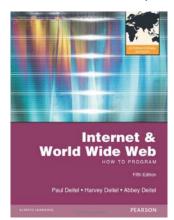
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## **Final Group Project- Presentation**

- 1. Watch all five online videos
- 2. Find your teammates and form the team wisely
  - → Up to 4 students
- 3. Discuss with teammates and pick up the potential topics
  - The proposed topics must be related to the videos
- 4. Submit your team info and the proposed topics by Nov. 20
  - First come first serve; prioritize and submit at least three topics
- 5. Demo day: final group presentation on Jan. 8
  - ▶ Provide your own opinions; cite your references- **DO NOT** copy and paste
  - Grade by the instructor, TAs and other groups
  - ▶ In-group evaluation: no free rider policy (#howdareyou)

## **Suggested Textbooks**

- Technology for Success:
  Computer Concepts
  (ISBN: 978-981-48-8803-5)
  - Technology for Success
    Computer Concepts
    Campbell Campa- Genman fraud
    frydenberg Hedger Buffols
- ▶ Internet and World Wide Web How To Program (5th Edition) (ISBN: 978-0273764021)



## **Academic Dishonesty**

- 1. All graded work that you do for this course must be the sole result of your own efforts unless directed otherwise.
- 2. You may not do work for another student nor may any student copy or plagiarize someone else's work.
- 3. You may not assist, facilitate or enable another student's academic dishonesty, even if unintentional.
- 4. Severe penalties will be imposed on all parties involved, and any grade assigned due to academic dishonesty will not be dropped!
- 5. If you have any questions on this matter, contact the Instructor.

## **Special Circumstances**

The Instructor strongly endorses the University's policy on disabilities

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact the Instructor and Disability at the university

Feel free to let us (instructor or TAs) know if you need any help or if any questions arise

## **Priority for taking this course**

- 1. MIS department
- 2. Double major, minor, or programs
- 3. College of commerce
- 4. Others

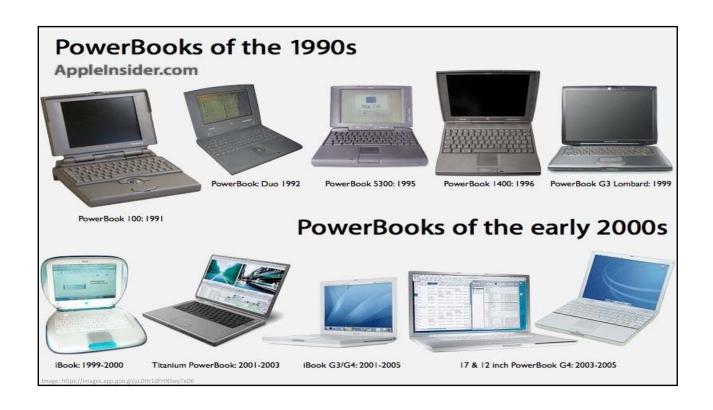
In case you are not in the class roster yet..

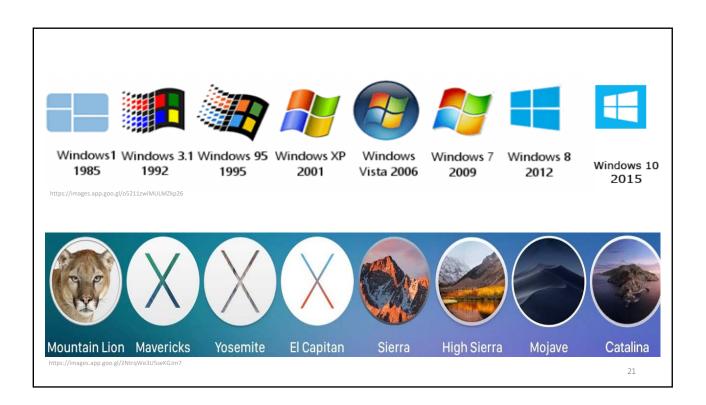
- -We are having TOO many students in 306005001
- -Some of the students will need to take 306005011 (Fri. 1pm-4pm)
  - If you have no class conflict and want to register this class, you will be asked to take 306005011
  - Same materials, but you do not need to wake up in such early morning
  - Great opportunities to advance your English (you will need it anyhow)

# **Week 1- Impact of Tech**







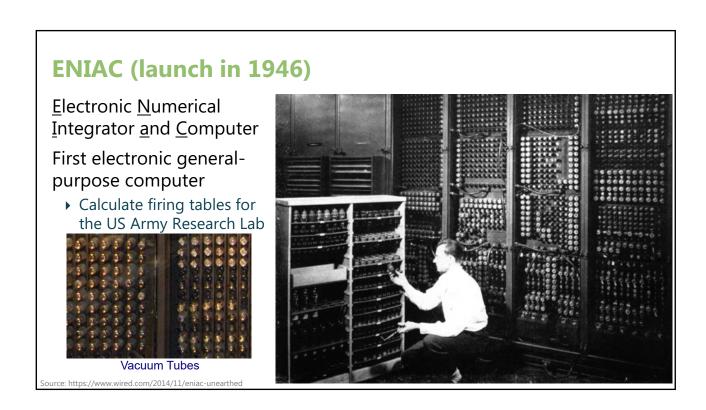


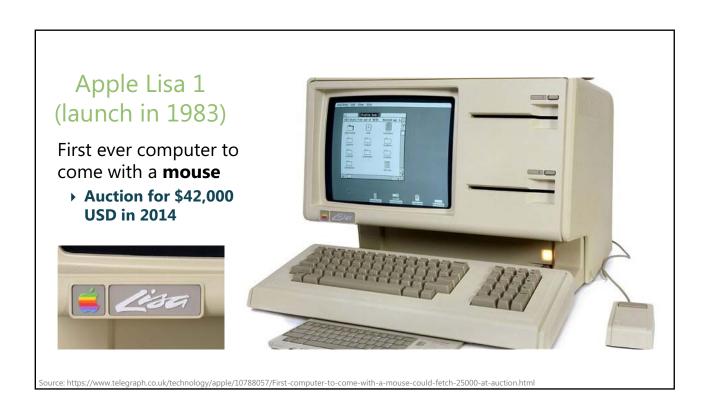






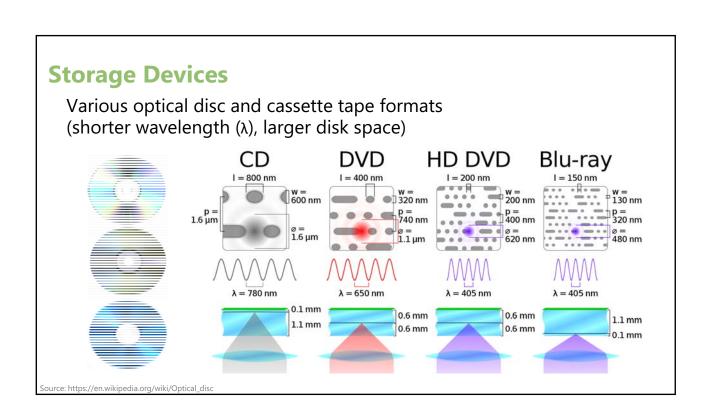














## Virtual Reality (VR)

Simulated experience that can be similar to or completely different from the real world



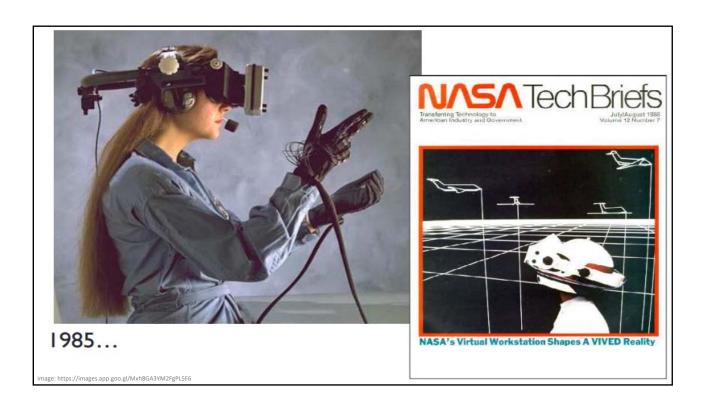
lmage: https://en.wikipedia.org/wiki/Virtual\_reality Video: https://www.youtube.com/watch?v=VZyhQZSTIGQ

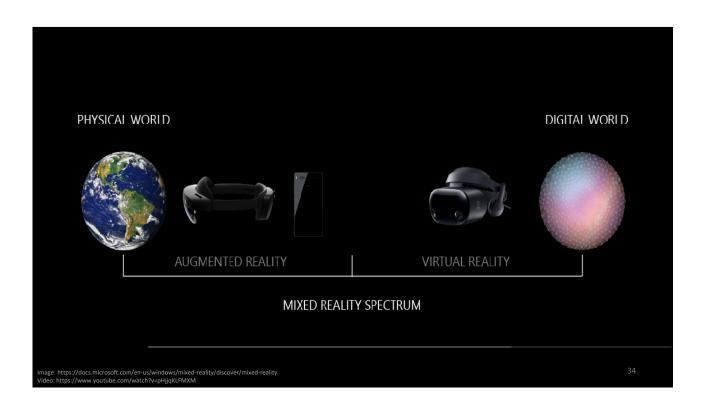
## **Augmented Reality (AR)**

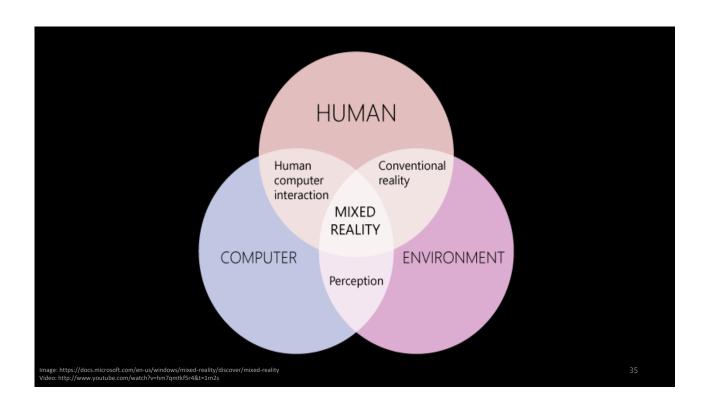
Objects that reside in the real world are enhanced by computer-generated perceptual information



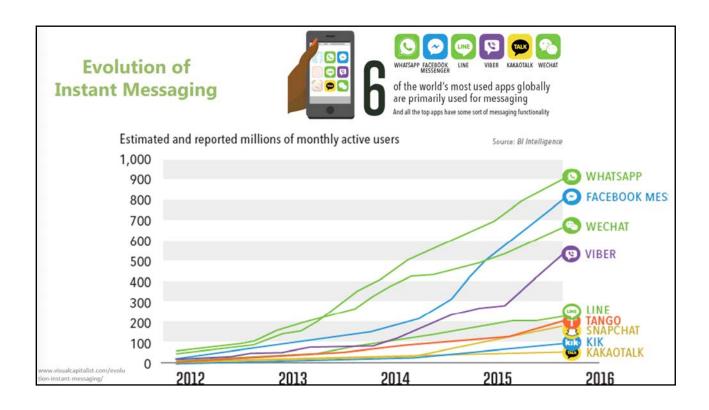
Video: https://www.youtube.com/watch?v=XWbY5jdJnHg

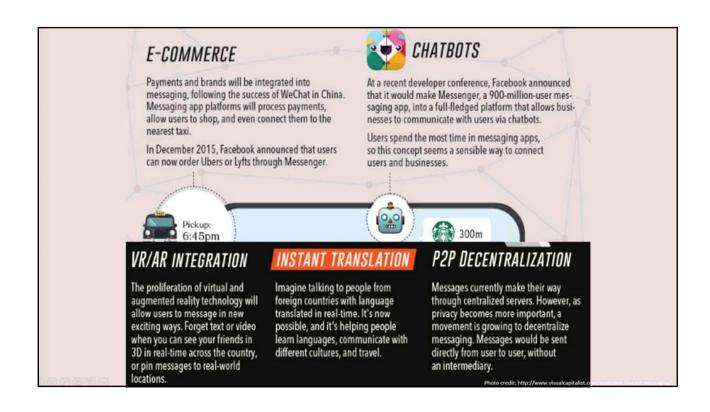










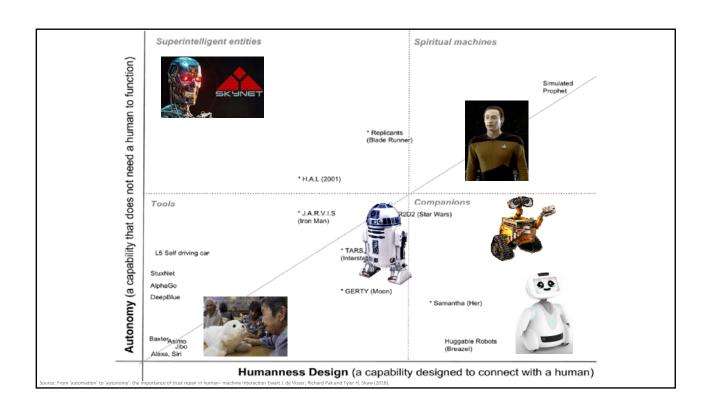




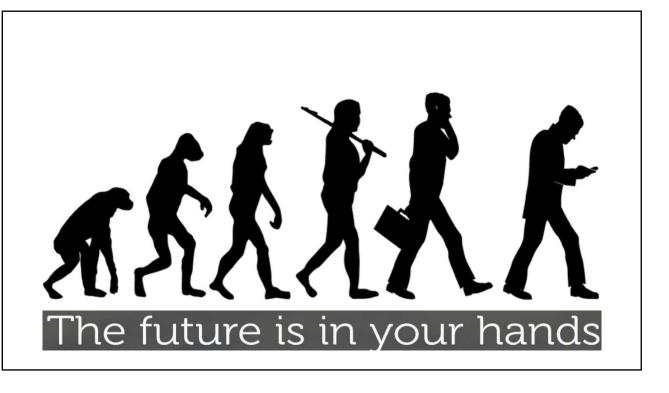














#### 國立政治大學

#### 修課學生參與數位互動課程 (E計畫) 同意書

- 一、 太人同意與網路學員共同參與課程。
- 二、本人同意並授權國立政治大學課程拍攝、使用、公開展示本人 之肖像、姓名、聲音等。
- 三、 本人同意國立政治大學得不限地域、時間、方式,於課程中, 無信利用本人於參與該課程中之所有著作。
- 四、本人擔保就參與該課程中之所有著作,均已取得相關著作權人 合法授權,或屬著作權法上合理使用,未侵害第三人之智慧財
- 五、 本課程內容受著作權法保護,如有超越修習本課程自我學習以 外之使用,應先依規定取得授權。
- □ 本人已閱讀並同意以上事項

此致國立政治大學

#### **National Chengchi University**

#### Interactive Online Course Enrollment Agreement (Program E) -Regular Student

- I. I hereby agree to attend the same courses as attended by online
- I hereby give my consent and permission to National Chengchi University to record, use, and publicly display my image, including
- likeness, name, and voice.

  I hereby agree that National Chengchi University may use in any way, anytime, anywhere and free of charge, any of my work produced in the process of participating in the courses, provided it is used in class.

  IV. I hereby warrant that all my work produced in the process of
- participating in the courses has the copyright owner's permission or is considered legal use without infringement on a third party's intellectual property rights under the Copyright Act.
- V. The contents of the courses are protected by the Copyright Act. Any use beyond the scope of learning the courses shall not proceed without all the permissions required.

  I have read and agree to the terms and conditions above.
- To National Chengchi University

## We will do this next week (Sep. 25)

立同意書人:\_\_\_ (簽名或蓋章) 身分證字號:\_ \_\_(非本校學生免填) 月

親簽後 下課前 交給TA Student Name : \_\_\_\_

Please sign here and hand it over to TA

科目代號(Course #): 306005011

科目名稱:計算機概論

Course Name: Introduction to Computer Science

授課教師: 簡士鎰

Instructor: CHIEN SHIH-YI 系所:資管一甲、資管一乙

上課時間 (Session): 五D5 (fri13-15)

