

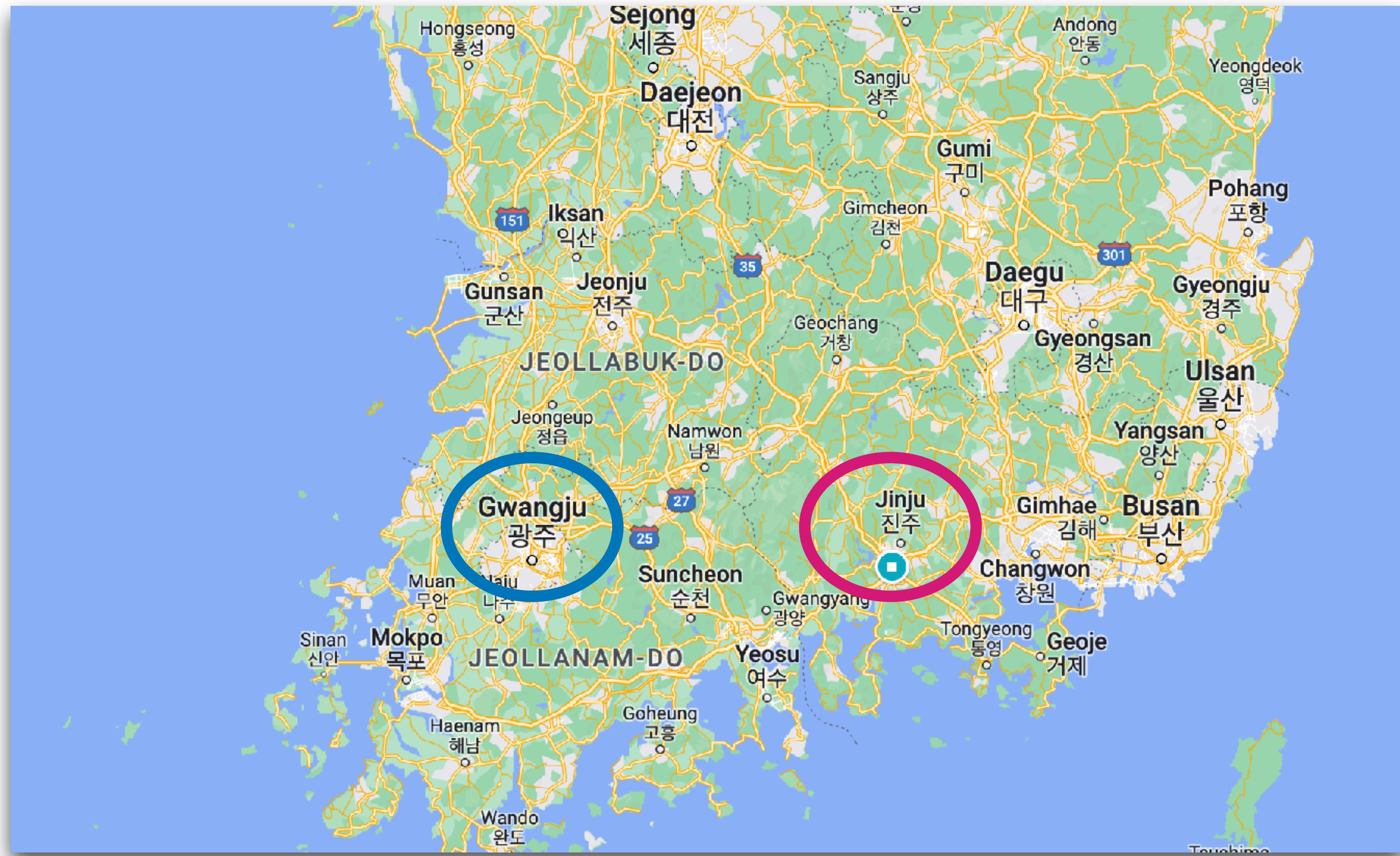
미래교육을 위한 예비 영어교사의 역량: 디지털 리터러시



김미란 (경상국립대학교)



조선대학교 사범대학 4118 강의실 | 12:00~14:00 | 2023. 10. 30 (Monday)



Topics: Digital Literacy



Part I.

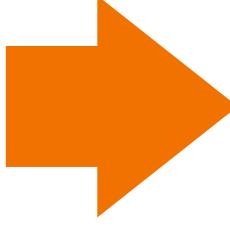
Understanding the concept of digital literacy

Part II.

Digital literacy training for language teachers

Part III.

Coding for your learning and teaching (Demo**)**



Digital era

From Analogue to Digital

2023. Spring

→ Digital era

From Analogue
to Digital

2023. Spring



→ Digital era

From Analogue to Digital

2023. Spring



→ Digital era

From Analogue
to Digital

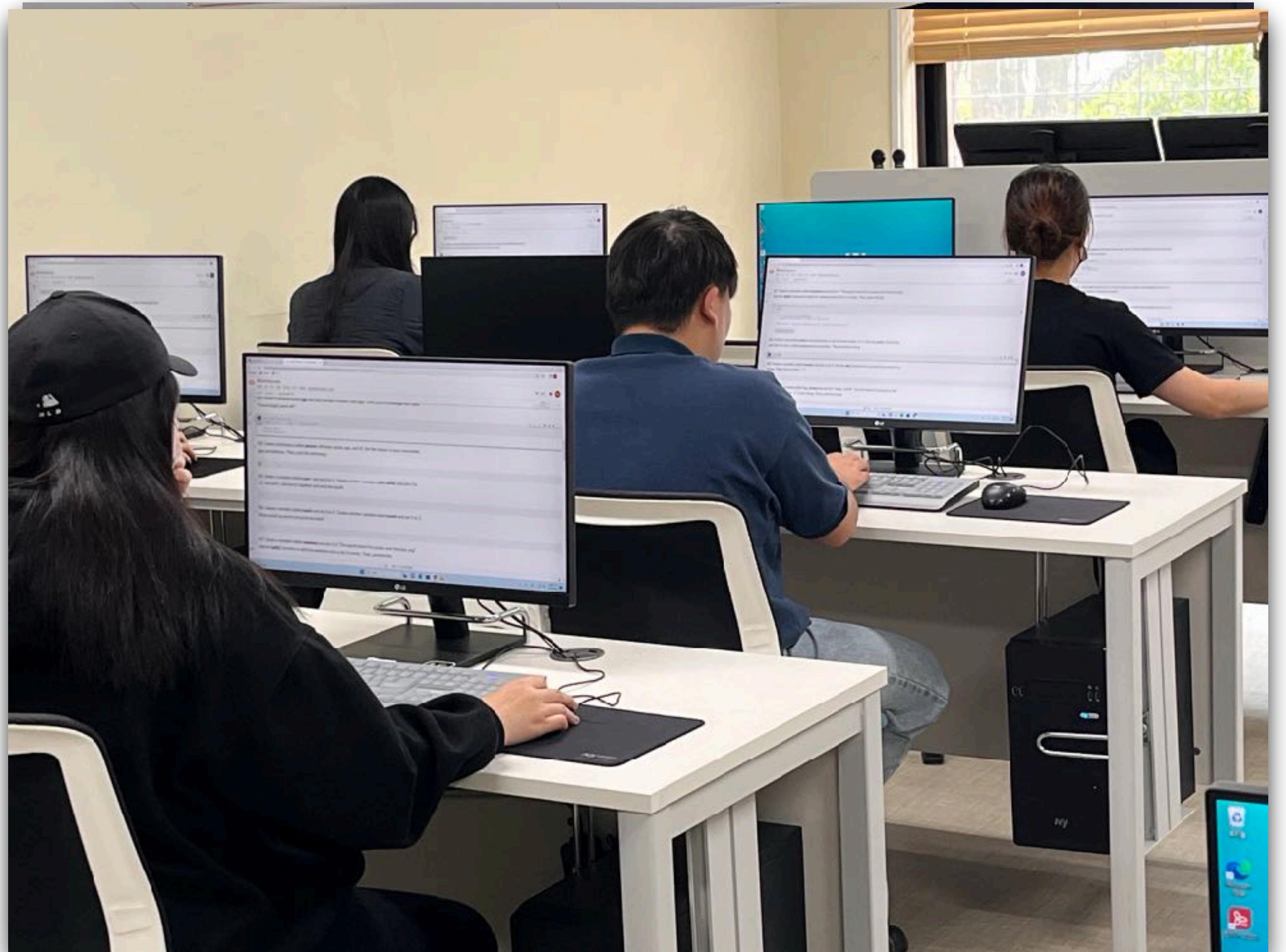
2023. Spring



→ Digital era

From Analogue to Digital

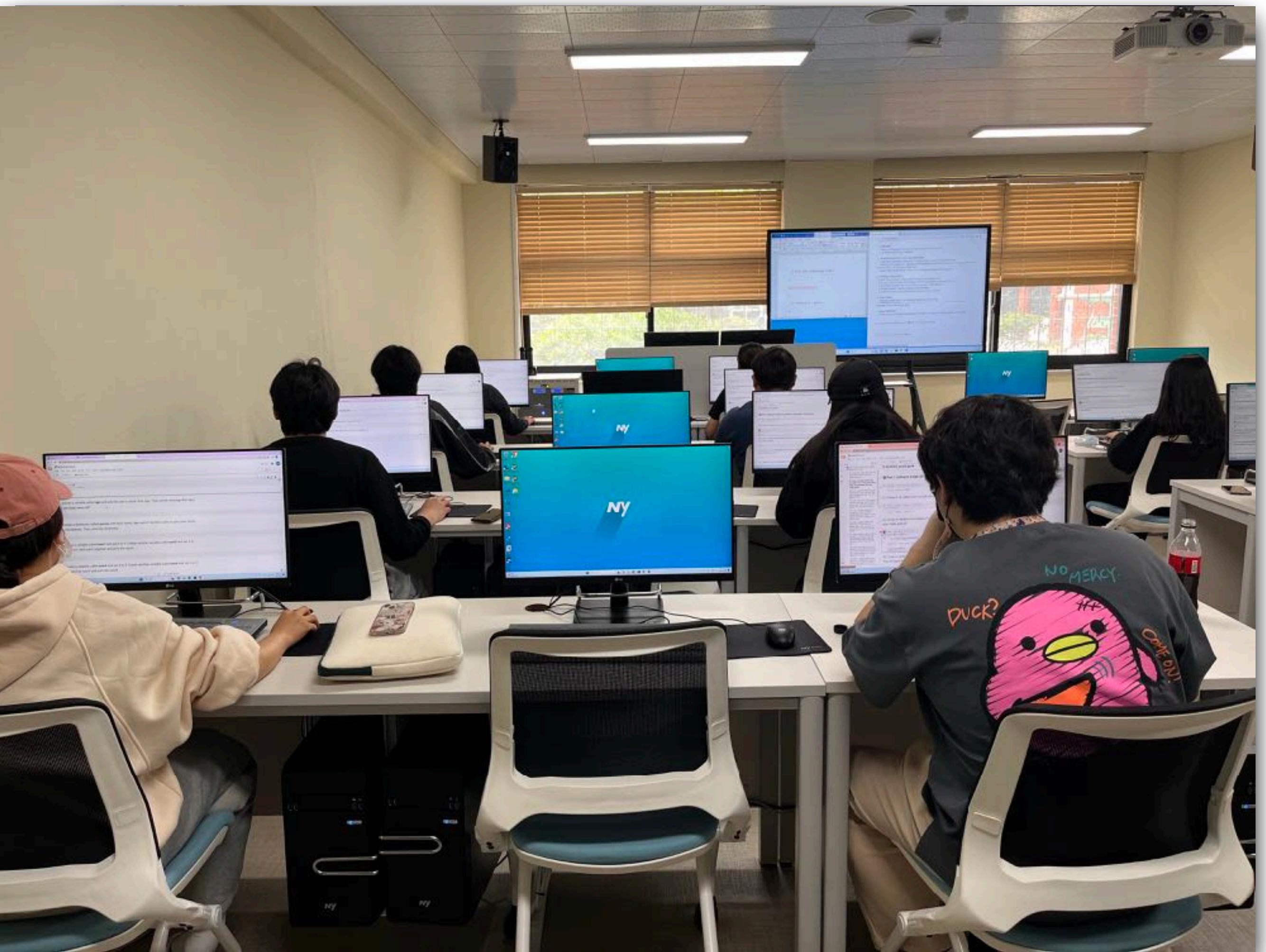
2023. Spring



→ Digital era

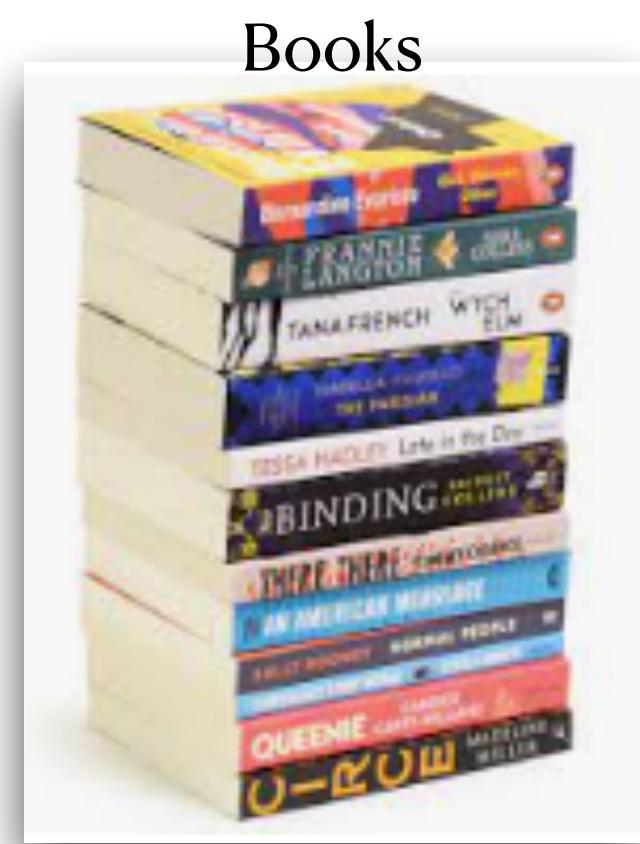
From Analogue to Digital

2023. Spring



Digital era

From Analogue to Digital



Books

Video Tapes

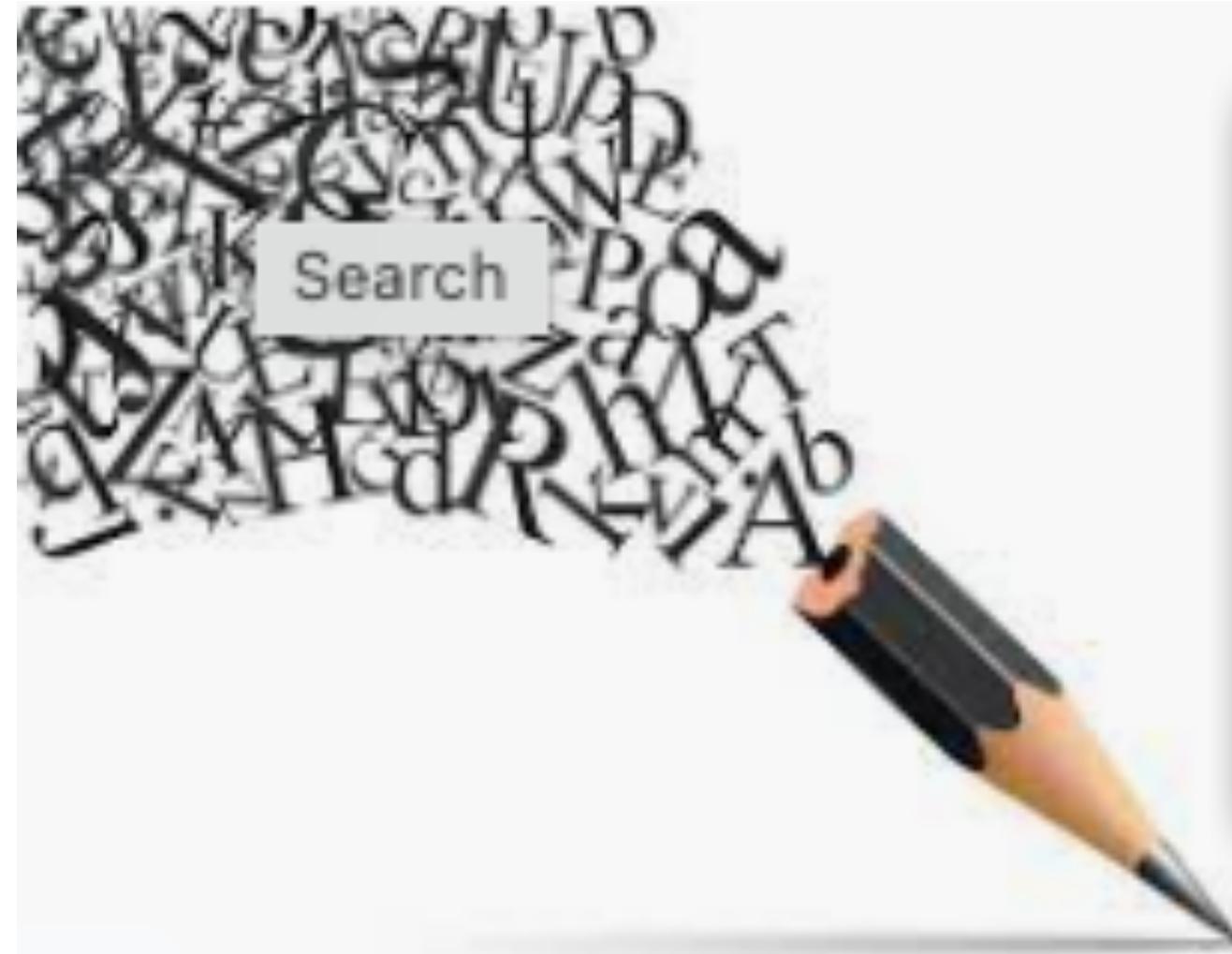


Photos

Films

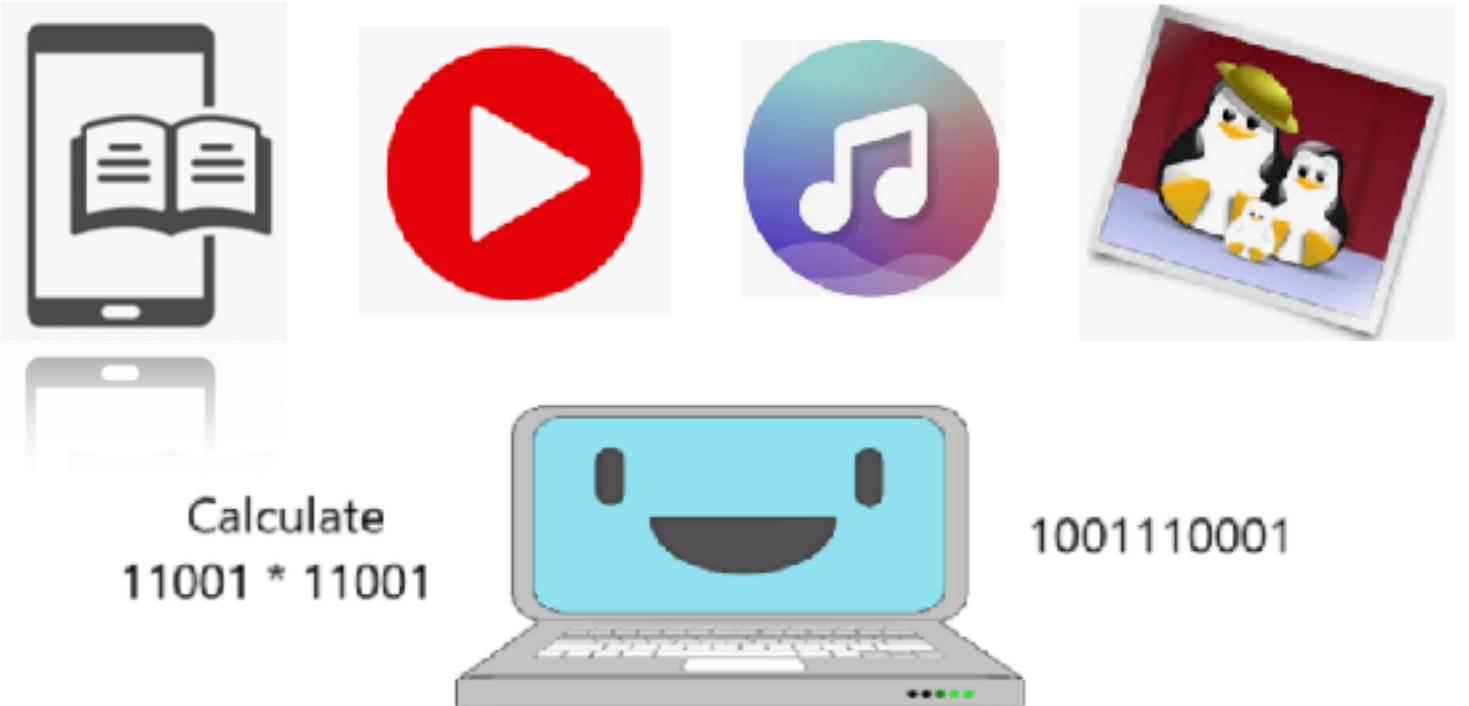


CDs



Photos





Binary representation of 25 is 11001

Digital Literacy

Hardware to software skills

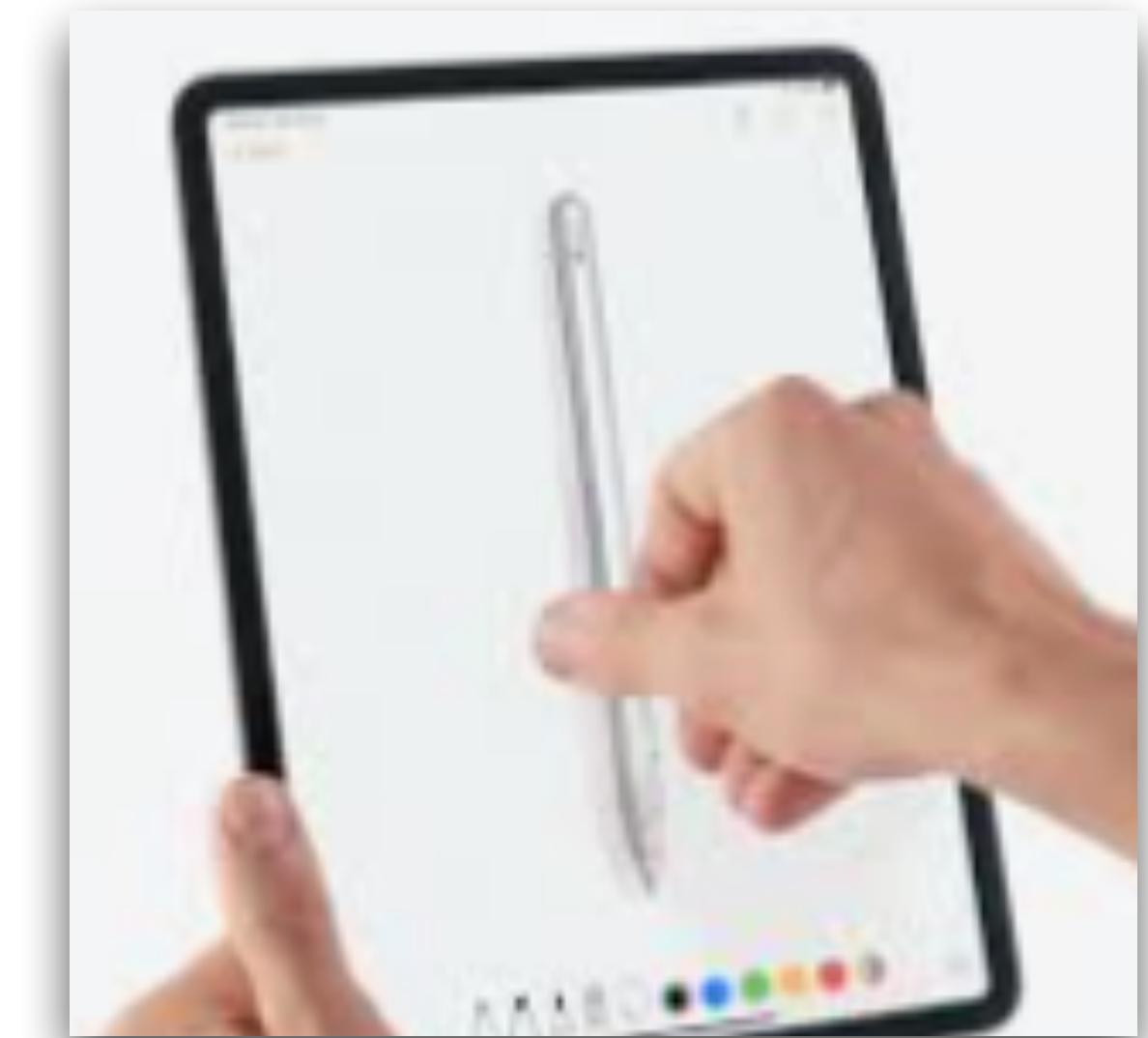


Binary representation of 25 is 11001



Digital Literacy

Hardware to software skills

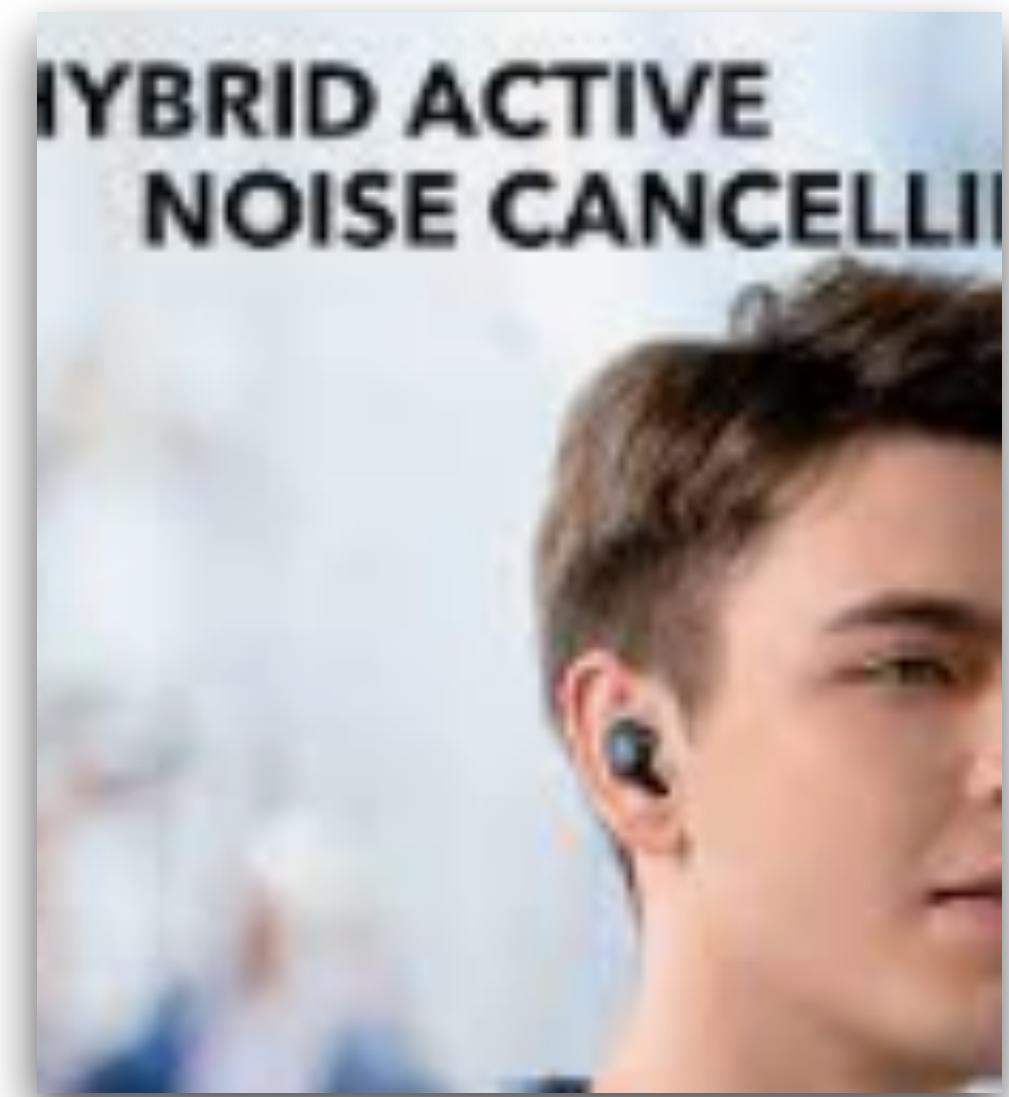


Binary representation of 25 is 11001



Digital Literacy

Hardware to software skills



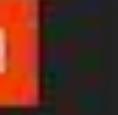
Calculate
11001 * 11001



1001110001

Binary representation of 25 is 11001



		Mesquite, San Joaquin	Morgan Mc
Brianna Shirokow		Charlotte Telle	Michele Ho
Gabrielle Williams	Daylene Kowalewski	Patricia Ryan	Samantha
Taylor Chavis	Roxann Robins		

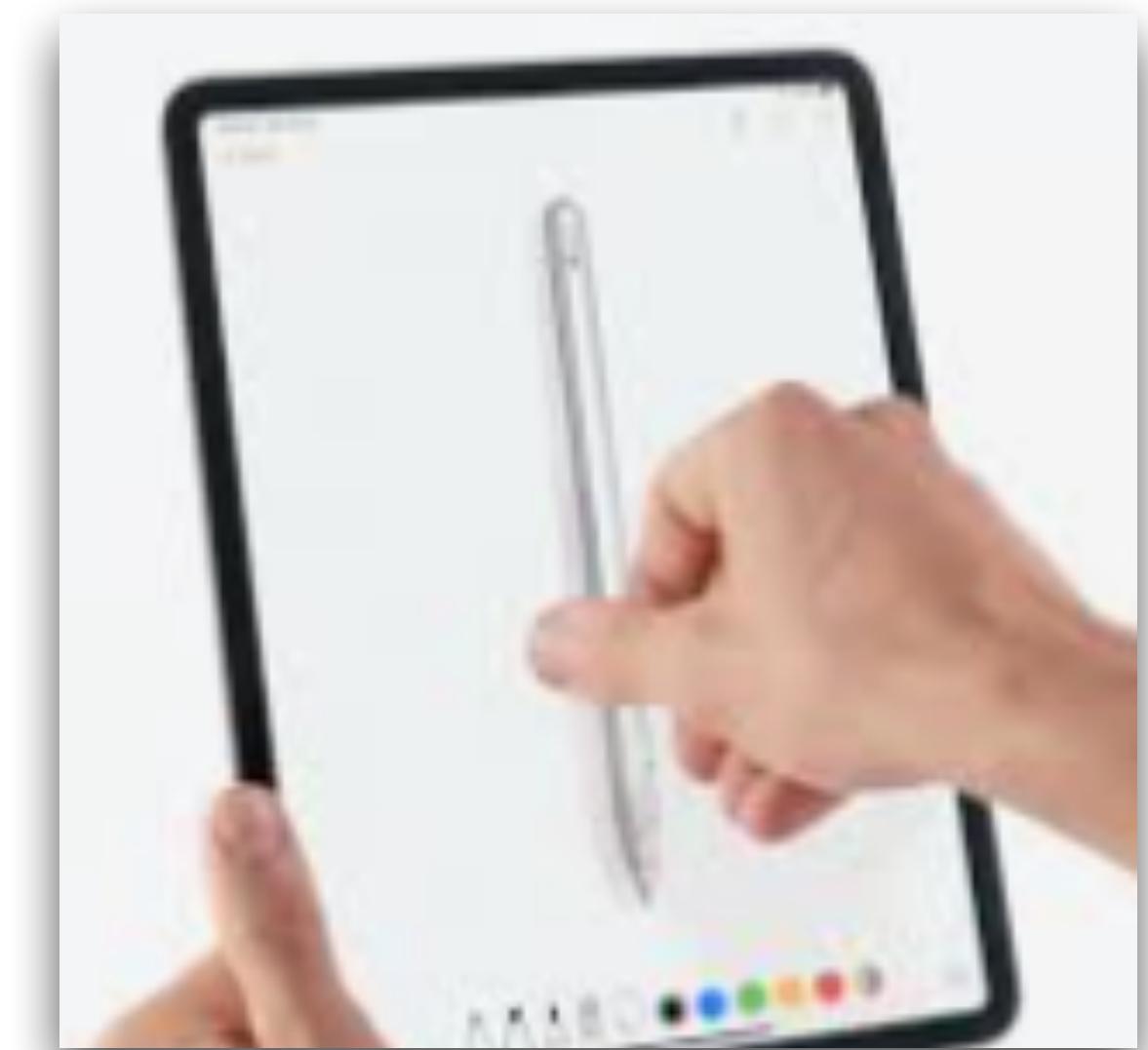


Digital Literacy

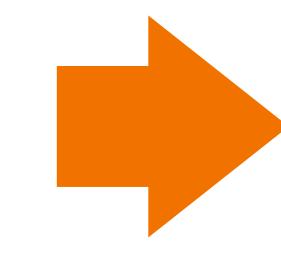
Hardware to software skills



Cognitive skills?



Brianna Shirokow	M	Charlotte Tellez	Michele Hock
Gabrielle Williams	Jaylene Marable	Pheonix	Eliot Lefebvre
Taylor Chavis	Rakoum Robore		



About the concept of “literacy”

→ About the concept of “literacy”

- (print) **Literacy**: “... the ability to read and write.”



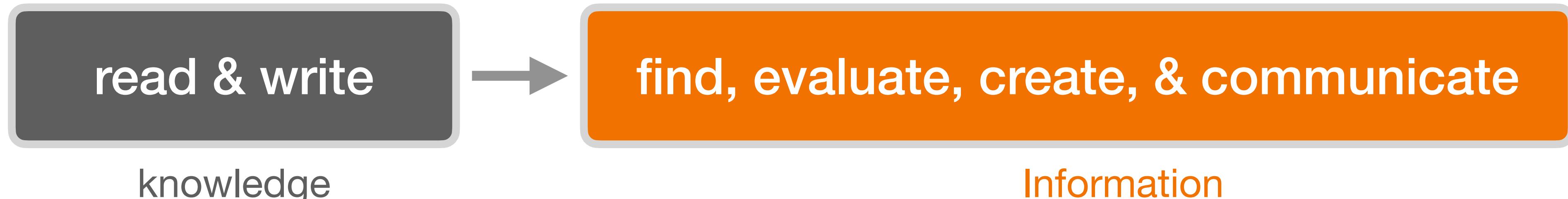
- This has been the primary focus of education systems for centuries

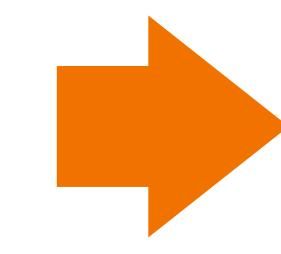
→ About the concept of “literacy”

● Digital Literacy:

“... the ability to use **information** and communication technologies to find, evaluate, create, and communicate **information**, requiring both **cognitive** and **technical** skills.”

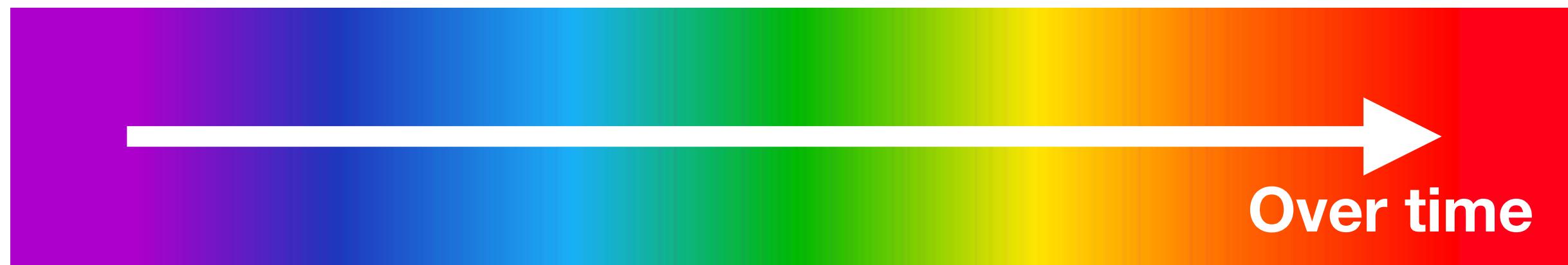
(American Library Association)



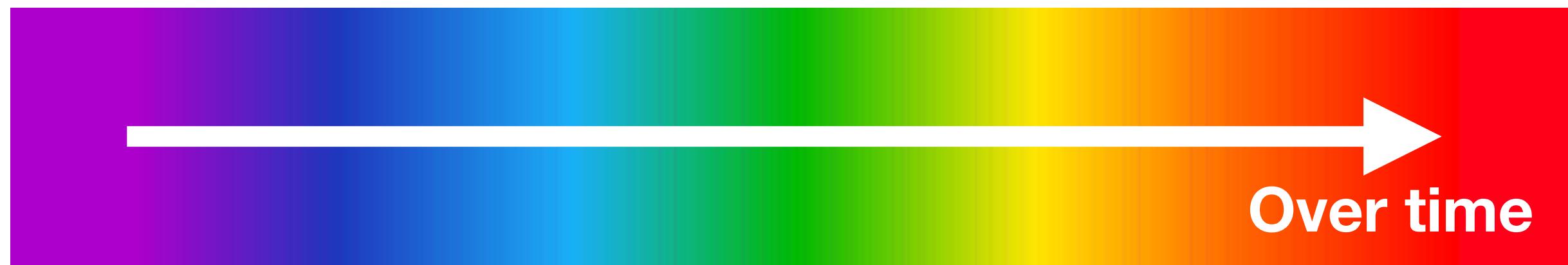


The concept of “Digital literacy”

→ The concept of “Digital literacy”



→ The concept of “Digital literacy”



AI literacy





1970s

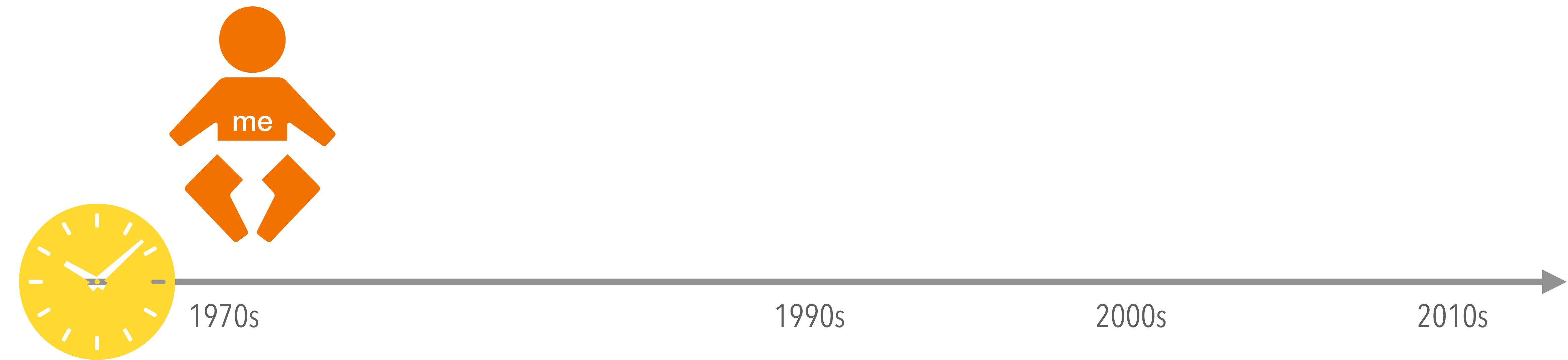
1990s

2000s

2010s



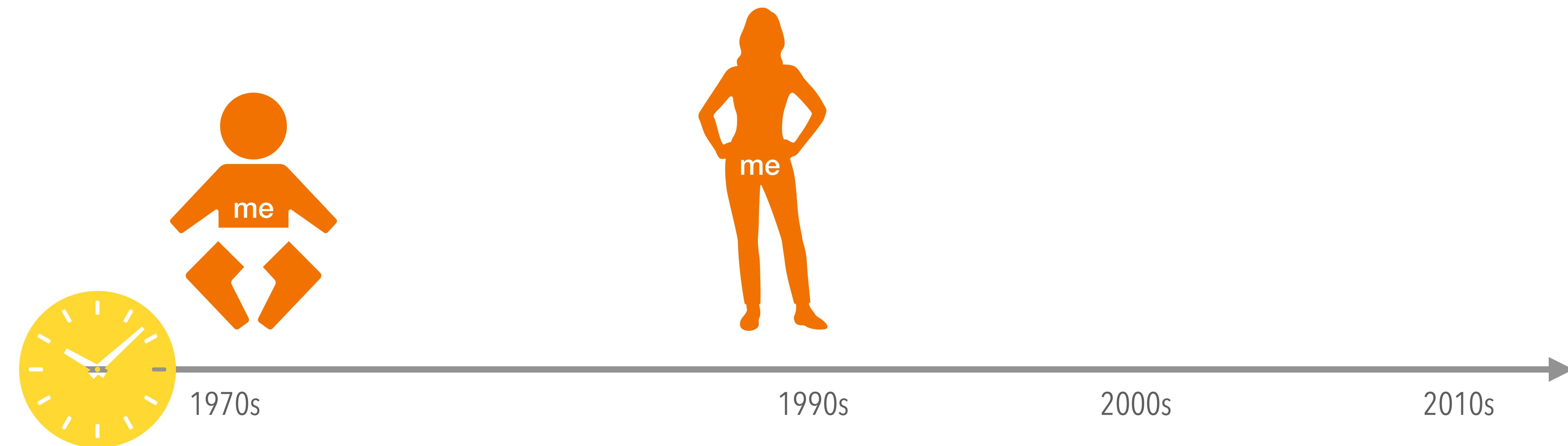
- Basic Computer Literacy
(Late 1970s - 1980s):



- Basic Computer Literacy
(Late 1970s - 1980s):

- Internet Literacy
(1990s):

- Information Literacy
(2000s):



- Basic Computer Literacy
(Late 1970s - 1980s):

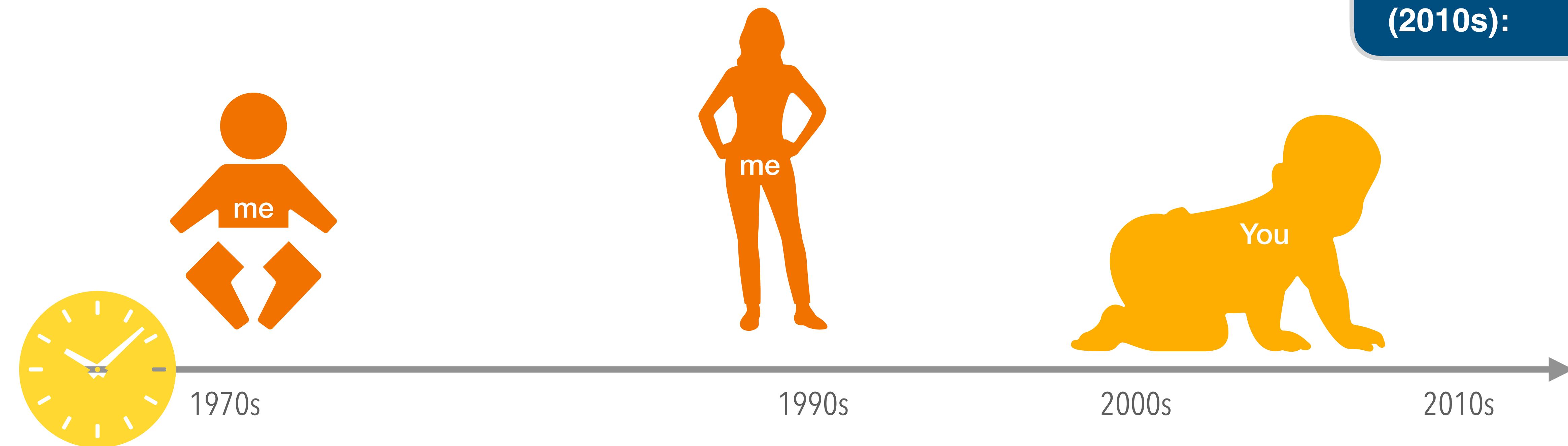
- Internet Literacy
(1990s):

- Information Literacy
(2000s):

- Multimedia Literacy
(Late 1990s - Early 2000s):

- Social Media Literacy
(Late 2000s - 2010s):

- Mobile Literacy
(2010s):



Over time, the emphasis has shifted from simply using digital tools
to critically engaging with them

- Mobile Literacy
(2010s):



2010s

2020s

Over time, the emphasis has shifted from simply using digital tools
to critically engaging with them

- Mobile Literacy
(2010s):

- Coding and Computational Literacy
(Mid 2010s - Present):

- Data Literacy
(Late 2010s - Present):



2010s



2020s



Over time, the emphasis has shifted from simply using digital tools
to critically engaging with them

- Mobile Literacy
(2010s):

- Coding and Computational Literacy
(Mid 2010s - Present):

- Data Literacy
(Late 2010s - Present):



- AI Literacy
(2020s - Present):



2010s

2020s

2023
Today

Over time, the emphasis has shifted from simply using digital tools
to critically engaging with them

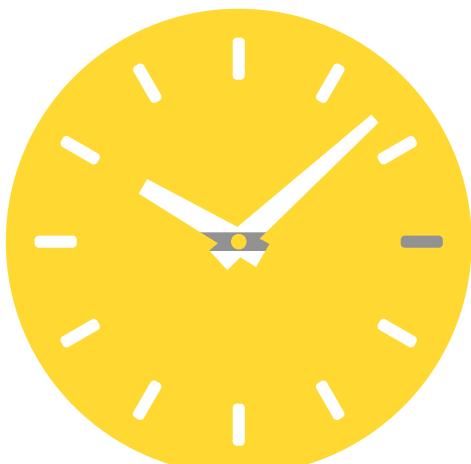
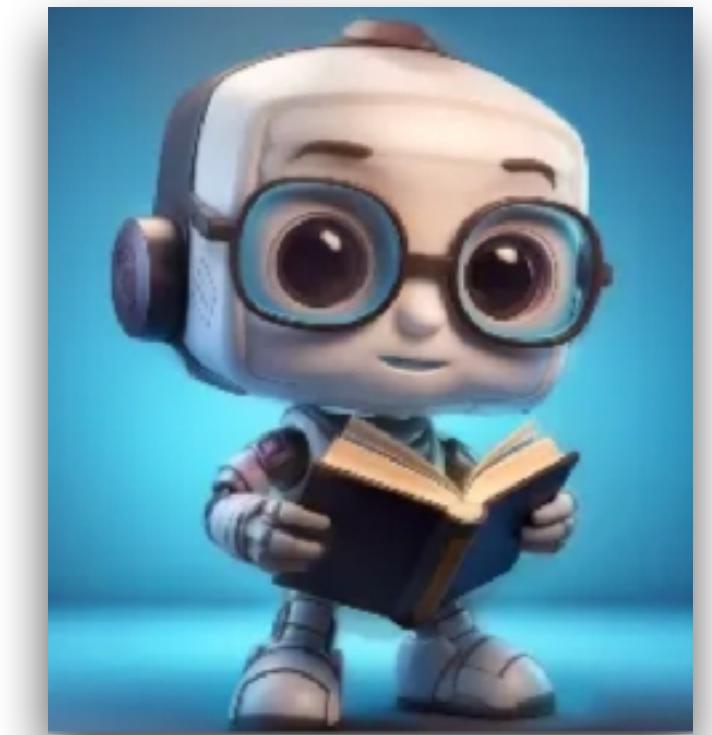
- Mobile Literacy
(2010s):

- Coding and Computational Literacy
(Mid 2010s - Present):

- Data Literacy
(Late 2010s - Present):



- AI Literacy
(2020s - Present):



2010s

2020s

2023
Today

2030?



ChatGPT
OpenAI

2022. 11. 30

• AI Literacy (2020s - Present):

- ➡ **Focus:** Understanding the fundamentals of artificial intelligence, its applications, implications, and ethics.
- ➡ **Skills:** Recognizing where AI is used in daily life, understanding its advantages and limitations, considering ethical implications of AI decisions, and having a basic knowledge of how machine learning algorithms function.



The Independent

Star Wars (1977)



Kenny Baker, British actor who played
R2D2 in Star Wars films, dies aged 81 |...

방문 >



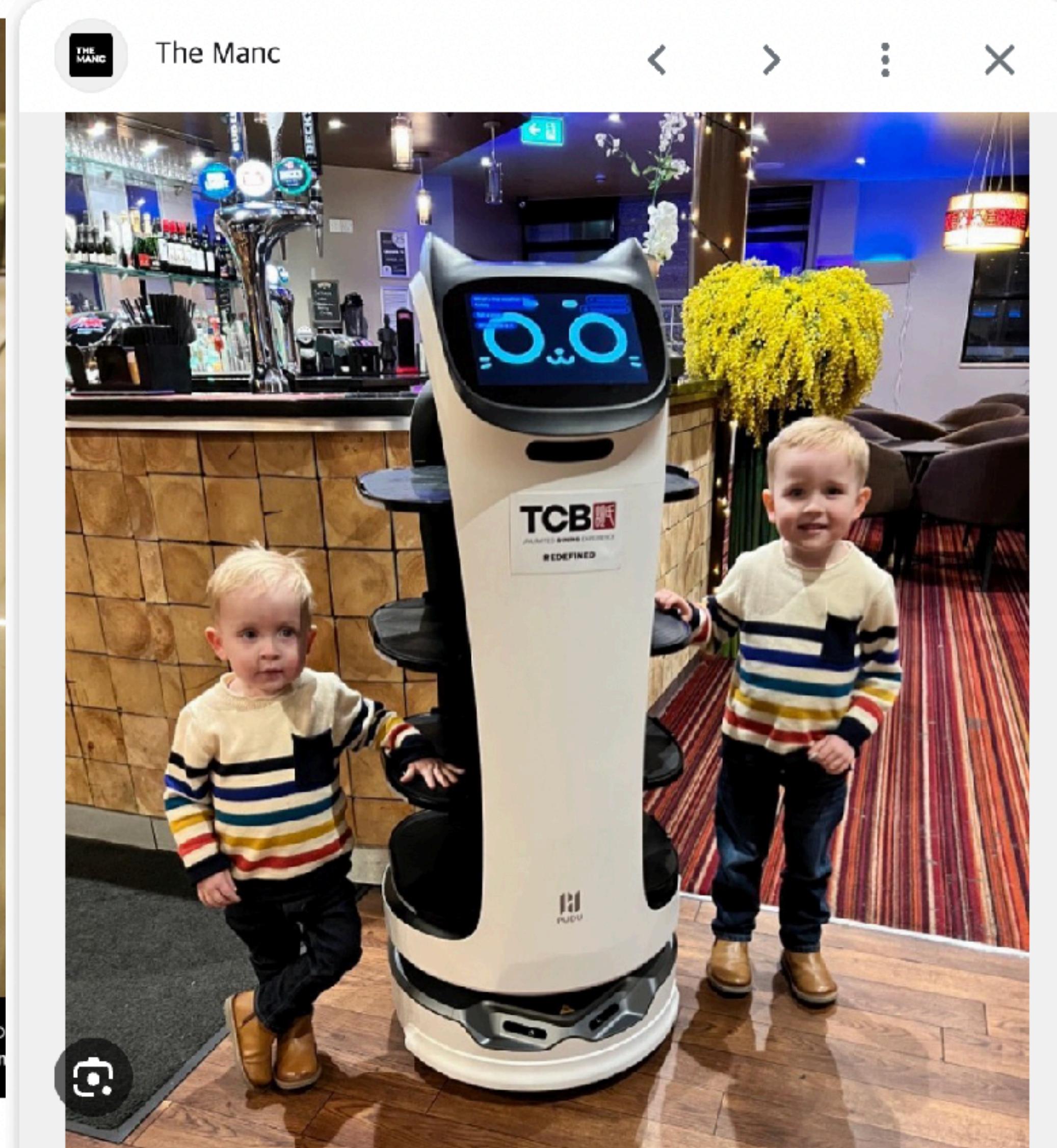
ChatGPT
OpenAI

2022. 11. 30





Dhaka, Bangladesh. 16th Nov, 2017. A customer takes a photo of a robot waiter at countries...



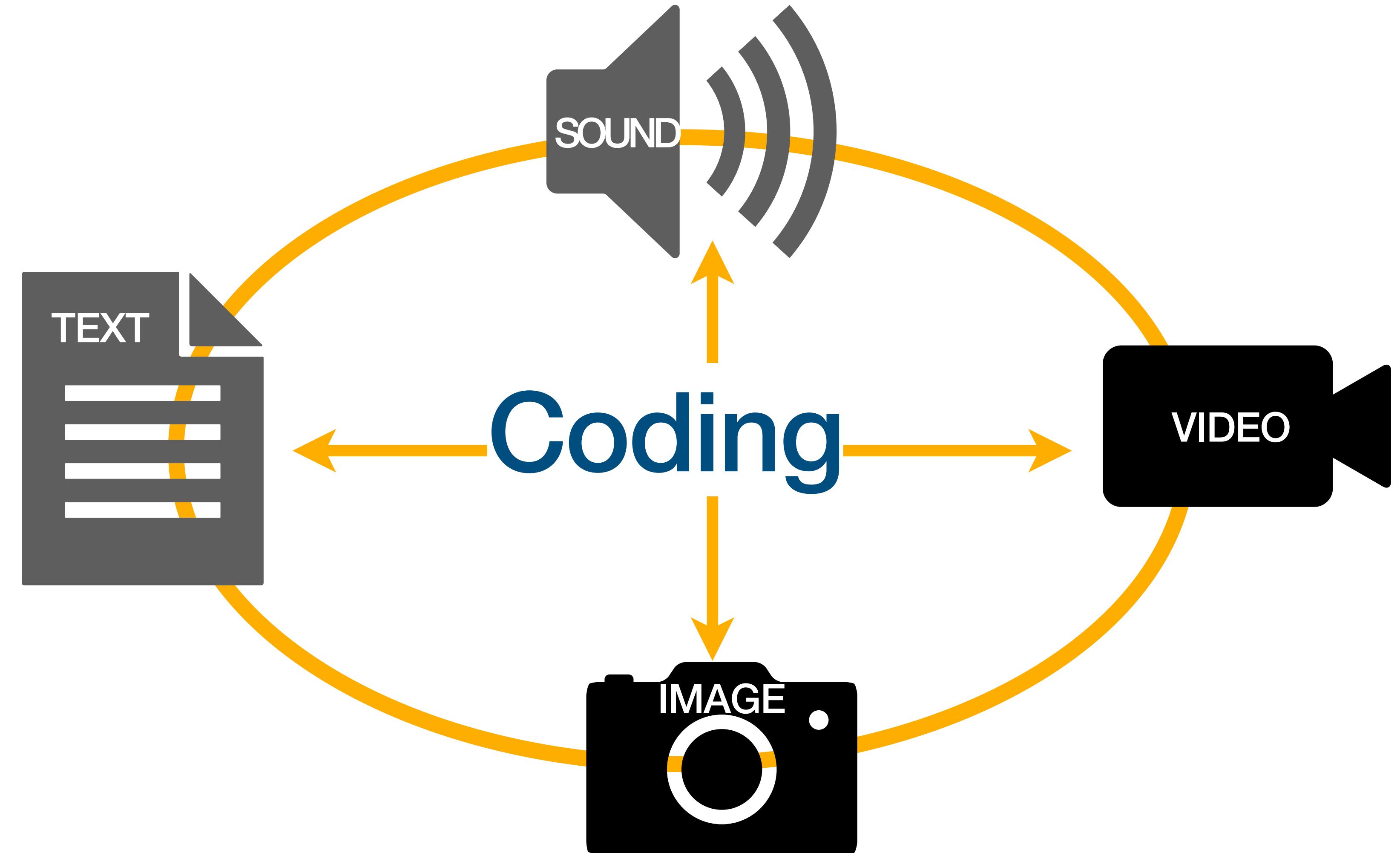
방문 >

The Greater Manchester restaurant where you're served by robots

방문 >

Multi-modality of Information

- Translation
- Interpretation
- Text-To-Speech
- Speech-To-Text
- Media conversion

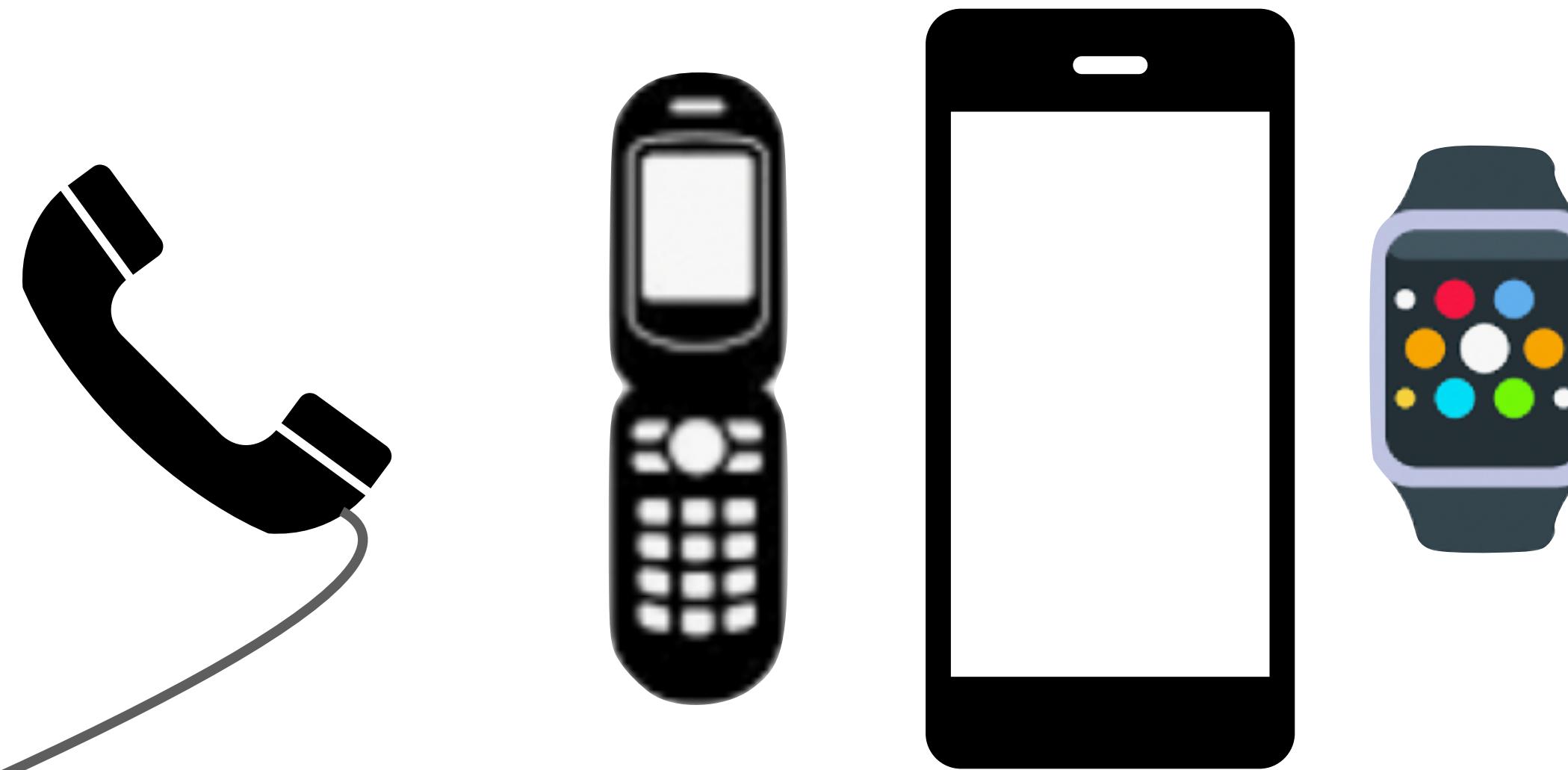


Digital literacy for what?

Mastering digital literacy may not be just self-improvement;
it is an investment in the next generation.

Digital literacy for what?

Mastering digital literacy may not be just self-improvement; it is an investment in the next generation.



Digital Consumer

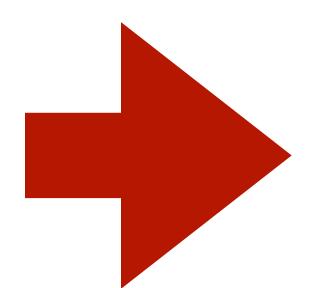
Digital literacy for what?

Mastering digital literacy may not be just self-improvement; it is an investment in the next generation.



Image generated using Midjourney (23. 10. 28) by MK

Digital Consumer



Digital Content Creator

Digital literacy training for language teachers

What should English teachers know?



Keywords



- **Digital pedagogy**
- **Adaptive learning systems**
- **NLP (Natural Language Processing)**
- **Digital ethics and privacy**
- **AI-assisted language learning**

Digital pedagogy

Learn digital tools

In the digital era, the tools and methods teachers use to convey information and facilitate learning have expanded beyond traditional methods. Digital pedagogy involves understanding and effectively utilizing **digital tools, platforms, and strategies to enhance teaching and engage students.**



Adaptive Learning Systems

Consider various needs

With AI-driven platforms, educational content can be **tailored to individual student needs**. English teachers need to understand how these systems work to provide **more personalized instruction**, ensuring each student progresses at their own pace.



NLP

Handle linguistic big data

As language teachers, understanding the basics of NLP—the technology behind many **language-based AI tools**—can be beneficial. It can provide insights into how AI understands and generates language, **facilitating the use of advanced tools** like grammar checkers, essay graders, or language learning apps.



Privacy and security



Digital ethics and privacy

Consider various needs

As classrooms become more interconnected and rely on digital tools, understanding the **ethical considerations** and privacy concerns related to data collection, student tracking, and digital tool usage is paramount. Teachers need to **ensure their students' data** is protected and educate them on best practices.

AI-assisted language acquisition

Familiarize with the changing environment

AI tools can offer tailored language learning experiences, instant feedback, and immersive environments (e.g., virtual reality language practice). Teachers should **be familiar with these advancements to integrate them into their curriculum**, supplementing traditional teaching methods and offering **enhanced learning experiences**.



Part III

What coding can do
for your teaching
(Examples)



Code page

Digital Literacy and English Education ↗

Title (tentative): 미래교육을 위한 예비 영어교사의 디지털 리터러시 역량
(Digital Proficiency in English Education: What Every Teacher Should Know)

- Hosted by Dept. of English Education at Chosun University, Gwangju
- Date&Time: 12:00~14:00, October 30, 2023
- Location: Rm#4118, College of Education

Lecture material ↗

No.	File	Keywords	Code Link
01	Part1 Lecture slides	WhyD, WhatD, HowD?	pdf download
02	Part2 Lecture slides	Digital literacy training for language teachers	
02	Part3: Coding demo	Four language skills: Reading, Writing, Listening, and Speaking with AI tools	Code page link

Samples ↗

No.	Keywords	Description	Code Link
01	QR code	Generate QR codes	link
02	TTS, STT	Speech to text, Text to speech	link
03	Language game	Word game, story game	link
04	Music notes to generate	User generated midi or mp3 file	link
05	Wordcloud, Summary	Generate a wordcloud image with your text or a link, Summarize text	link

♥♥ Emoji list ♥♥

Code page

Paste the link: https://github.com/MK316/workshops/blob/main/2023CSU/CU_part3.ipynb

