



Introduction to Information Systems - Understanding the digital world

I Data and Information

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Today's schedule

- Review of the last mini test (5')
- Data, information, search (15')
- Big data and privacy (35')
- DNA -> Brain ->? (5')
- Mini test #11 (25')
- Information and homework (5')

Review of the last mini test

(The answer sheet)

Data, information, search



YouTube, Data-Information-Knowledge (3')

<https://www.youtube.com/watch?v=sljSY05JE9Q>



YouTube, The Internet: How Search Works (6')

https://www.youtube.com/watch?v=LVV_93mBfSU

On the difference between data and information

Data

- File 1 (resp. File 2): a 1M text with zero (one) only -> size 1MB (the amount of data)
- File 3: a file obtained by combining Files 1 and 2 -> size 2MB (the amount of data)
- File 4: a file obtained by randomly shuffle File 3 -> size 2MB (the amount of data)

Information

- Which file contains more information?
 - The amount of information can be estimated by compressing the file with zip. -> **files**
- 

Big data and privacy

YouTube, crash course, Introduction to Big Data (12')

<https://www.youtube.com/watch?v=vku2Bw7Vkfs>



YouTube, End of Privacy, M. Kosinski (20')

<https://www.youtube.com/watch?v=D4QhfqqSCVI>

DNA -> Brain: Change in the last century

Brain becomes more important than DNA (e.g., gender equality, etc).

What is next in this century? See hints from the society:

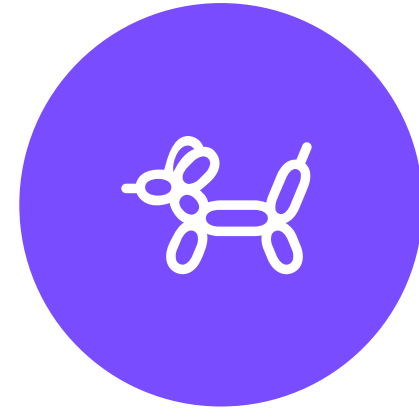
- IT giants (GAMA etc) are taking control of our daily life.
- Fintech companies are taking control of our finance.
- AI and IoT are quickly spreading in the world.
- The merge of human and machine requires big data. -> less privacy, limited freedom

Mini test (25')

- Which one do you choose: a little finger or the Internet?
- Write an essay about your OWN opinion on the use of the Internet (about 400 words).

Information and homework

- **Future schedule: Dec 10, 17, Jan 7, 14
(same time, same room)**
- **If you want to know your score so far,
ask me from your Doshisha's email.**



READ CHAPTER 11