

WEEK 2, LECTURE b

INF5020 Philosophy of Information:

Information, Communication and Language

M. Naci Akkøk, Fall 2004



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THIS SESSION - The goal

History:

- We first talked about computation, complexity and information.
- We then looked at several definitions of information.
- Later, we also tried to understand information within the context of data and knowledge.

Goal:

- We want to go on discussing what information is, this time within the context of communication and language
- We want to be able to understand what is designable or creatable and what is not, so as to channel our (research, design, engineering) efforts correctly

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A CHOICE – Assuming the nature of information

- We had to choose whether information is internal or external to the mind.
- We choose:

INFORMATION IS **EXTERNAL** TO THE MIND.

- NOTE THAT THIS IS (YET) ONLY AN ASSUMPTION THAT WE NEED FOR BEING ABLE TO GO ON.
- It (the assumption) will be validated or rejected depending upon its "health" as wee use it and see what the consequences of using it are.

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IMPLICATIONS OF THE CHOICE - Designable, creatable "in-formation"

- The consequences of the assumption:
 By assuming this, we are allowing information to be designable, engineerable, modelable, computable, creatable etc.
- This is supported by most (but not all) definitions of information.
- It is implied in the etymology of the word (i.e., information), which indicates its original intention.
- Besides, we can still satisfy the community that wants to emphasize the role of the individual and the society in "informing".

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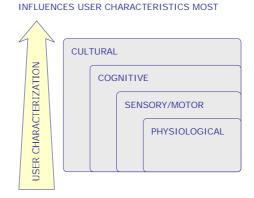


IN-FORMATION DESIGN — User characteristics

 From some designcentric fields like HCI (CHI, UI, GUI) design, information design, interaction design, ad design, signage design etc.:

What contributes to characterizing a human is explicitly stated.

WHY?

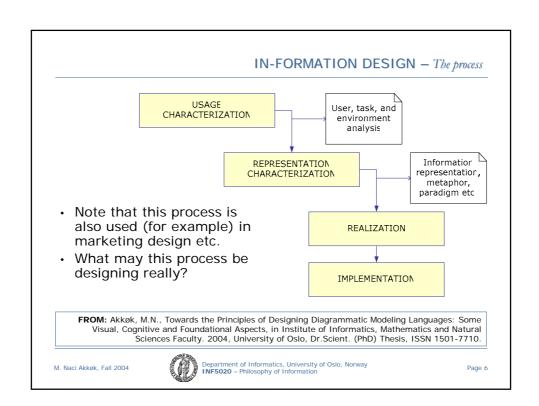


INFLUENCES USER CHARACTERISTICS LEAST

FROM: Akkøk, M.N., Towards the Principles of Designing Diagrammatic Modeling Languages: Some Visual, Cognitive and Foundational Aspects, in Institute of Informatics, Mathematics and Natural Sciences Faculty. 2004, University of Oslo, Dr.Scient. (PhD) Thesis, ISSN 1501-7710.

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IN-FORMATION DESIGN PROCESS - Communication design

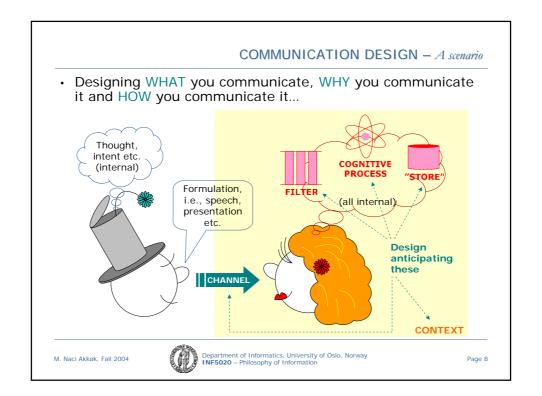
 What the process may be used for is obvious also through the fields/areas it is used in like marketing or advertisement design:

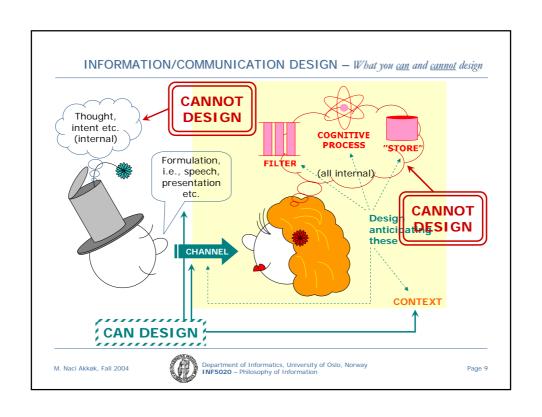
The in-formation design process is often referred to as communication design as well,

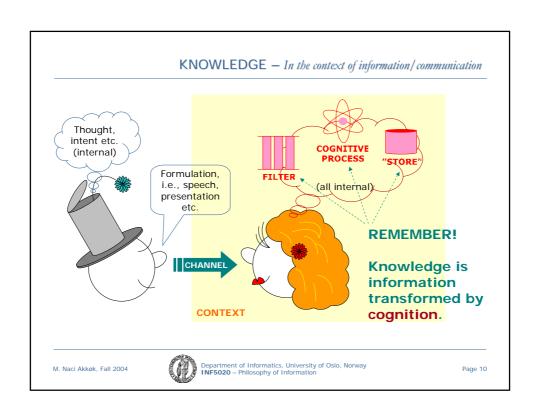
i.e.: designing WHAT you communicate, WHY you communicate it and HOW you communicate it...

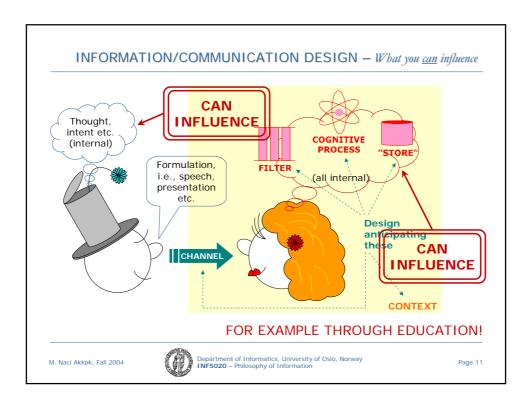
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INFLUENCING, TEACHING, LEARNING - The domain of knowledge

- Influencing through education is like teaching.
- It is like enabling the formation of knowledge.
- This is actually one major aim of in-forming (or communication)!
- This is why we "design" for effective communication.
- We may actually use the term "knowledge enabler" as yet another definition of information.

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SANITY CHECK — *Is information (still) external to the mind?*

- So far the statement that "information is external to the mind" seems to hold, at least by looking at the health of its consequences:
- Designing information/communication seems to be plausible (and maybe even necessary).
- · This is a choice:
 - If information is "social" than how is it different from (say) culture?
 - If information is individual (inherent to the mind), than how is it different from cognition, memory and (ultimately) knowledge?
- We do not want to use the same name for different concepts just because we react at heavily reductionist approaches!

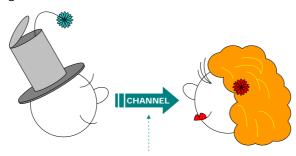
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LANGUAGE — How does language relate to information and communication?

- · Language is a medium (channel) of communication.
- It is designable itself (like any channel).
- It can be used to design presentations (i.e. as part of designing information/communication.



LANGUAGE is one possible medium of communication

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INFO, COMM, LINGO – Q&A

DANGER! WARNING!

WATCH OUT FOR LOOPHOLES IN THE CHARACTERIZATION OF LANGUAGE!
THERE WILL BE MORE ABOUT LANGUAGE (SOON)



ANY QUESTIONS SO FAR?

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