

The Influence of Technological Changes on the Definition of Information Literacy

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About us

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Information society

- Economically (Machlup, Porat, Drucker) - from material to intellectual property
- Technologically (Shannon, Mansuda) - impact of IT on society, incl. increasing importance of IL/IT literacy
- Sociologically (Castells, Bauman, Bell) - incl. Digital Divide
- Historically (McLuhan, Toffler) - changing role of information in history

Can we speak about information society today?

- The Czech republic is atheistic country, but...




IL and IT in information society

- “To be information literate, a person must be able to recognize when information is needed and have the ability to locate, evaluate and use **EFFECTIVELY** the needed information“ (American Library Association, 1989)
- IT simplify many activities with information
- Information is key, but using it is changed by IT => IL closely connected with IT

Simplifying

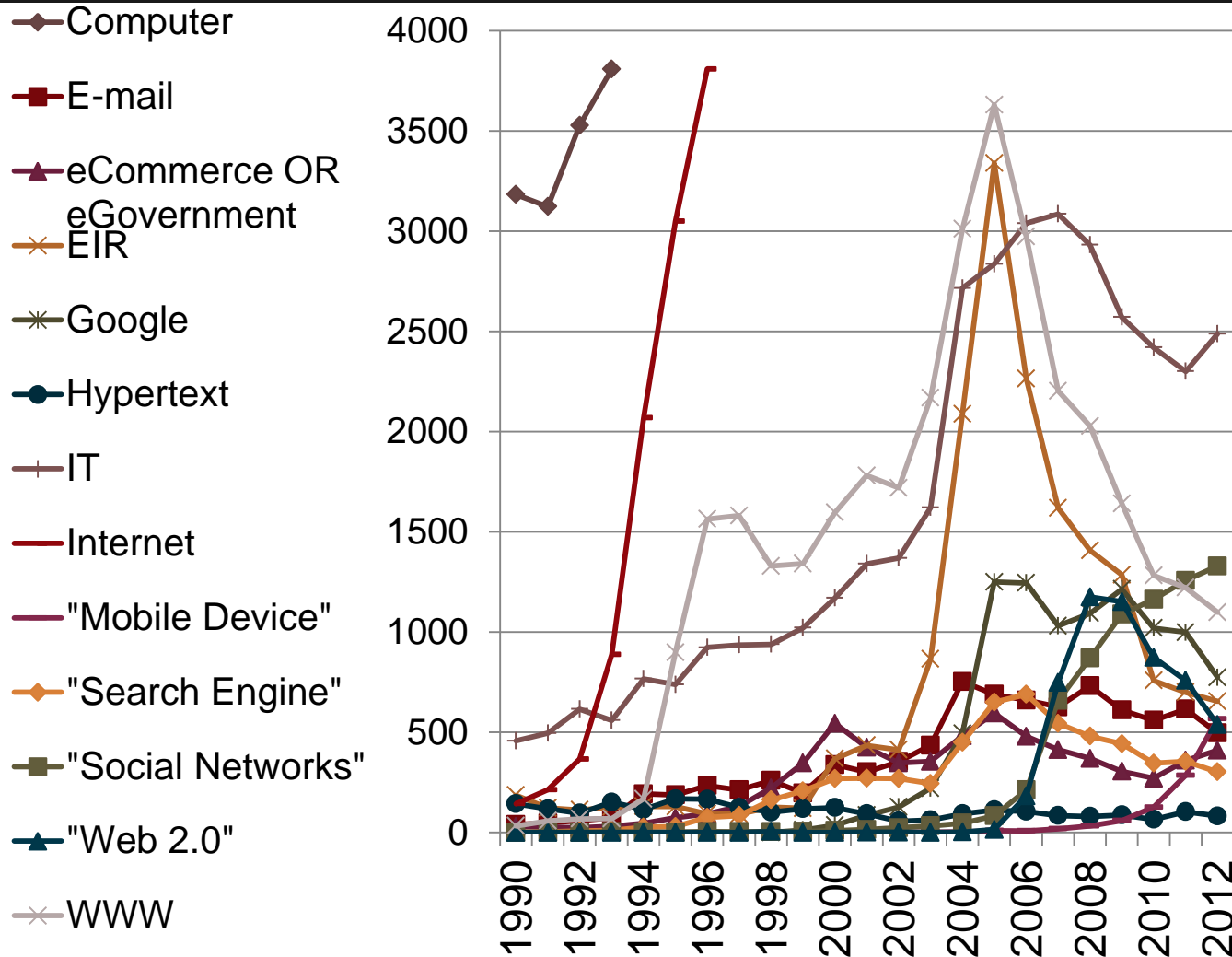
$$\begin{aligned} J(\boldsymbol{\alpha}) = & \sum_{i=p+1}^{k_0-1} \left\{ y(t_i) - \left(\sum_{j=1}^p a_j y(t_{i-j}) + \sum_{j=0}^q b_j u(t_{i-j}) \right) \right\}^2 \\ & + \left\{ \tilde{y}(t_{k_0}) - \lambda(t_{k_0}) - \left(\sum_{j=1}^p a_j y(t_{i-j}) + \sum_{j=0}^q b_j u(t_{i-j}) \right) \right\}^2 \\ & + \sum_{i=k_0+1}^n \left\{ \tilde{y}(t_i) - \Delta_y(t_i) - \left(\sum_{j=1}^p a_j (\tilde{y}(t_{i-j}) - \Delta_y(t_i)) + \sum_{j=0}^q b_j u(t_{i-j}) \right) \right\}^2 \end{aligned} \quad (7)$$

You still need to understand how and why, but using IT you can restrict occurrence of mistake

A large presentation screen stands in a dimly lit lecture hall. The screen displays the words "active learning" in a serif font. The background of the screen is a light, pale blue. The words "active" and "learning" are stacked vertically, with "active" positioned above "learning". The screen is supported by a stand with four legs. In the background, a bookshelf filled with books is visible on the left, and a wall with various posters or notices is on the right. The floor has a circular logo or emblem in the center.

active
learning

Changes of IT



- Confront document analysis with changes of IL definitions => minimal
- Concrete influences described in full text

Crucial changes of IT related to IL (Helvoort)

- “content integration (federated search engines)
- amateur publishing (user generated content)
- use of social networks to find information
- personalization and push technology
- loss of context / fragmentation of information”
- => should be reflected in IL (use of this = condition to effectively cooperate with information in information society)

Using IT without IL

- Research of using IT (especially children) - often limited and not effective
- But users are convinced about their knowledge - do not want to learn more
- Hard to show that it can be better with IL - everyday work with user



IT

IL

Concepts of Literacies

- IL still as a umbrella term for other kinds of literacies?
- All contemporary concepts of literacies include visual, electronic and digital form of communication and expression
- All concepts are closely related to technologies

Literacies linked to Technologies

- Digital Literacy
- Computer Literacy
- Media Literacy
- Network Literacy

- Developing content of these literacies
- It is not possible to provide the definition of IL regardless to the context
- The lane changes direction from passive to active

New Literacies

- Almost all types of literacies emerged with the introduction of new technologies in last 15 years
- “NEW LITERACIES”
- Each new technology weakens or changes existing definitions

Compare characteristic key

IL definition:

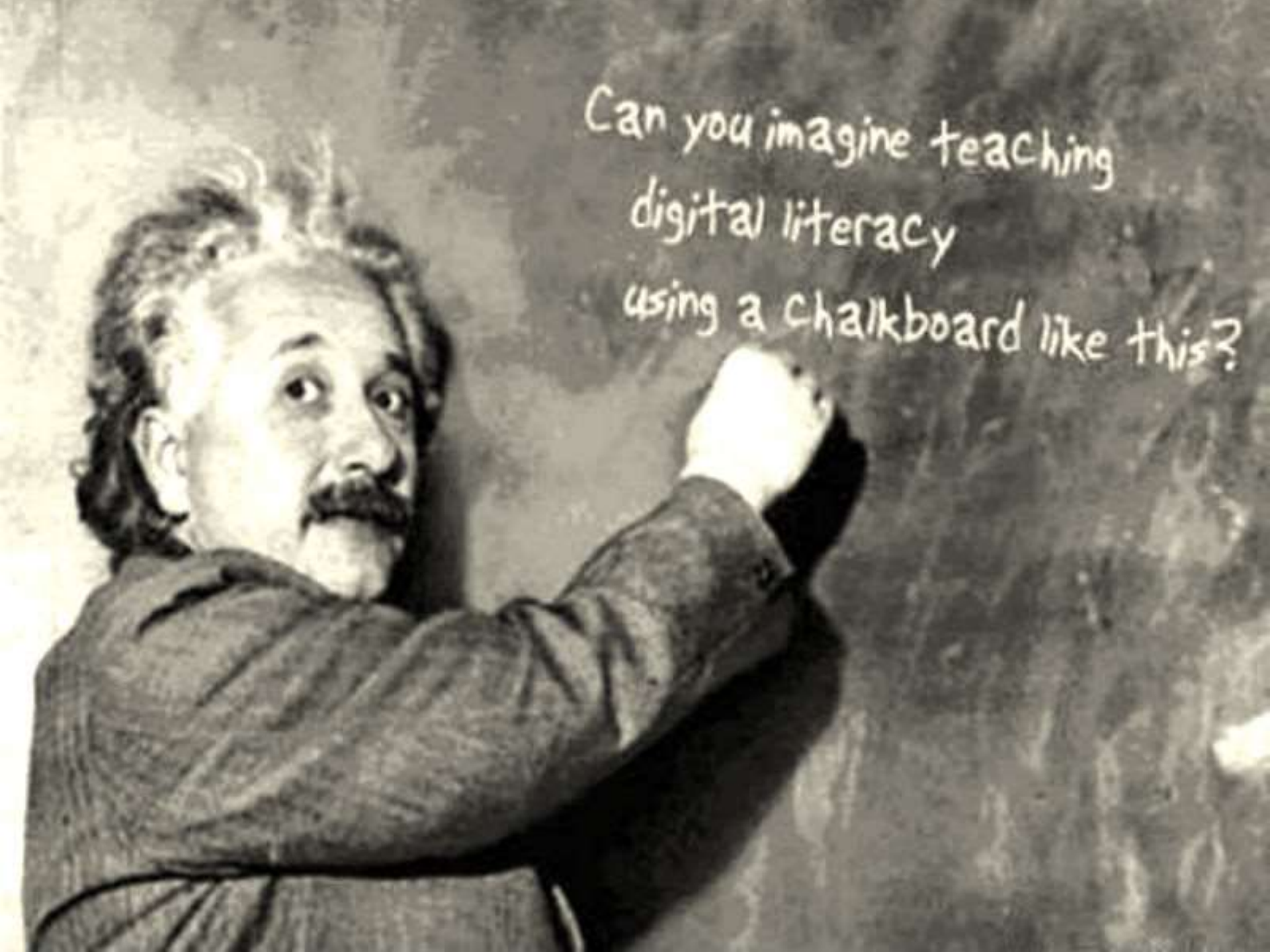
- Select
- Evaluate
- and Organize the found information

Digital literacy:

- Understand and use information in multiple formats from a range of sources via **computers**

Computer literacy:

- Ability to manipulate documents and data via **software**



Can you imagine teaching
digital literacy
using a chalkboard like this?

Future

- Information Society can't be "Information" without IT
- Countless and unpredictable changes of IT in last 10 years
- We can not predict what the future of technologies will be
- Develop the established definitions (to avoid "reinvent the wheel")

We said our WHY
and now is the time to ask HOW...

DETERMINE OR UPDATE?

Thank You for Your attention.

Used sources

- American Library Association. Presidential Committee on Information Literacy. Final Report. Chicago: American Library Association. (1989). Retrieved September 24, 2013, from <http://www.ala.org/ala/mgrps/divs/acrl/publications/whitepapers/presidential.cfm>
- Helvoort, J.v.: Impact of Recent Trends in Information and Communication Technology on the Validity of the Construct Information Literacy in Higher Education. Communications in Computer and Information Science 96, 61--73 (2010)
- Photo by fruity monkey (Flickr)