

Webinar Presentation "Knowledge communication in digital education with videos"



June 16th 2016, on digitallernen.ch

Presentation: Jeanine Reutemann, IAEP HGK FHNW

Research project: "Audiovisual Media Design for Higher Education"

- 1 Project
- 2 Research Study
- 3 Focus: Talking Heads
- 4 Short Survival Guide:
 - "In front & behind the camera"

FOCUS INTHIS PRESENTATION:

- (a) Differences in video styles in educational videos
- (b) Talking Head: Performances Representation Multimodal Communication

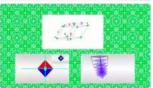
...Knowledge distribution with Talking Heads (language/gestures/performance)...Challenges of knowledge representation through the audiovisual media...

"Let's face it: MOOCs promise disruption, and yet most of them to date deliver an extremely traditional learning experience. Basically, it's the big-lecture-hall format, with an internet-sized lecture hall." (David Cox, 2014)

- 1:1 »Translation« of lectures (Analogy: sketches of a textbook)
- Excellence in Research and Teaching?
- Blind spot from AV perspective





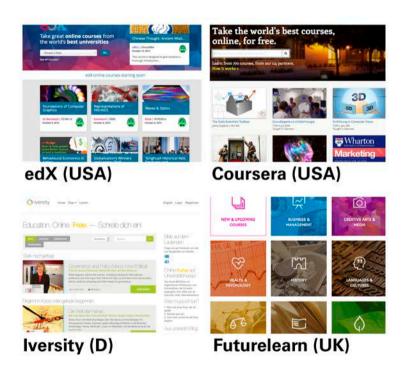






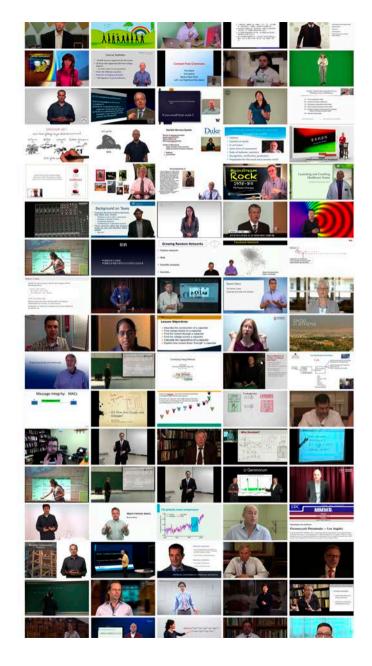






2 DATA SET Research Study

- September 2014 till January 2015
- all MOOC Courses from Coursera, edX & Iversity
- overall 448 MOOC Kurse
- Lecture video: First video in every third week (except introduction videos)





Coding

- 70 variables (e.g. music, time laps, animation, moving photography, length, off-screen speaker, view into camera, several speakers)
- Binary coding (1 if element exists)

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Long-shot Medium-long-shot Medium-close-up Shoulder-close-up Close-up Extreme-close-up Indoor Outdoor O

- David Cox (MOOC: Fundamentals of Neuroscience, Harvard University)
- Emiliana Simon-Thomas & Jason Marsh (MOOC: The Science of Happiness, UC Berkeley)
- Eric Klopfer (MOOC: Introduction to Game Design, MIT)
- Felix Seyfarth (MOOC: Managing the arts, Leuphana University)
- Peer Ederer (MOOC: Solution & Innovation Skills, Zeppelin University)
- Jon Wardle (MOOC: Explore Filmmaking, Director of Curriculum, National Film & Television School)

CER

- Christina-Maria Schollerer (MOOC: The Future of Storytelling)
- Chris Boebel (Film, MIT Video Productions, MIT MOOC Productions)
- Esther Snelson / Phone Interview (Senior Video Producer, The Open University)
- Sotaro Kita (Professor of Psychology, Gesture Research, University of Warwick UK)

TAKERS

- Sandro Canova (Filmmaker, Image Filme, Advertisment)
- Pedro Schloendorn (Filmemacher, Documentary, Television)
- Marina Rosset (Animation filmmaker)
- Peter Hertling (Lecturer FH Kiel, Filmmaker, Documentary, Television)
- Nigel Smith (Head of Content, Futurelearn)
- Lara Ruppertz (Head of Didactics & Course Development, Iversity)
- Clayton Hainsworth (Operation and Production Manager, edX)
- >>> Missing: Coursera

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2 EXPERT INTERVIEWS Research Study



Week 3 – Lecture Video	Overall 448	edX	Coursera	Futurelearn	lversity
Classroom with students	7%	12%	7%	0%	0%
Classroom without students	6%	7%	4%	10%	14%
Presentation slides with speaker	33%	26%	46%	3%	36%
Presentation slides without speaker	38%	30%	48%	22%	27%
Computer screen, high-lightening	29%	33%	32%	9%	27%
Green-screen	26%	35%	25%	10%	22%
Talking Head (summary)	74%	78%	68%	81%	91%
- Talking Head / Monochrome	27%	27%	31%	12%	27%
- Talking Head / Book Shelf	10%	10%	10%	2%	23%
Animation	20%	19%	21%	19%	18%
Split-screen	10%	13%	14%	4%	5%
Outdoor	10%	9%	5%	31%	5%
Webcam Capture	8%	7%	12%	0%	9%
Several speakers	15%	16%	9%	29%	18%
Off-voice speaker	16%	12%	15%	30%	9%

The surrounding space gets part of the knowledge communication > creates different meaning in relation to the TH



















3 BOOK SHELFS Focus: Talking Heads



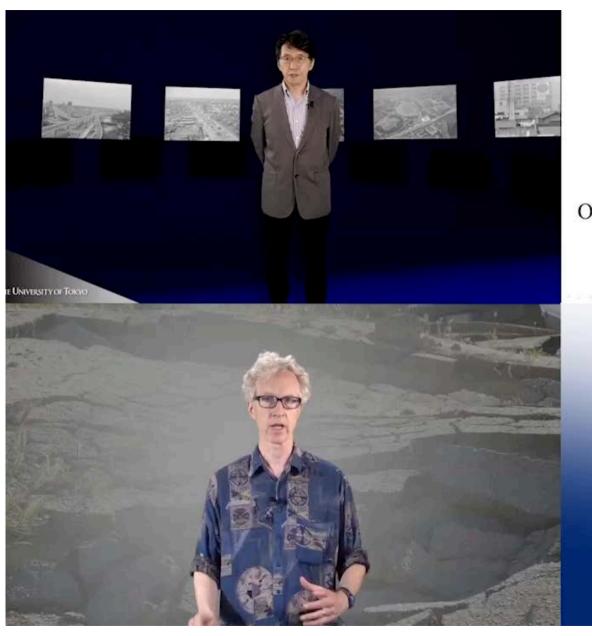
3 BOOK SHELFS – ATTENTION FOCUS Focus: Talking Heads

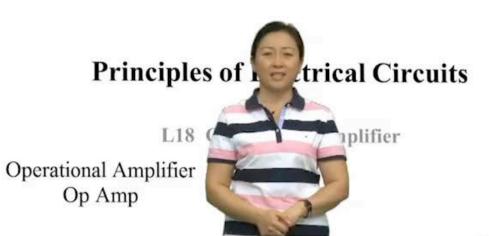
MOOC: History of the Slave South, University of Pennsylvania US



3 BOOK SHELFS – DEPTH OF FIELD Focus: Talking Heads

MOOC: History of the Slave South, University of Pennsylvania US







Teleprompters and gestures

"Whether or not somebody is reading from a prompter you can tell from the eyes and face but also if somebody is not really thinking and saying, I think it also shows up in gestural communication as well. If you are just reading, you're not going to gesture." Sotaro Kita 2015

"And the research has shown that the people saying memorized text tend not to gesture very much, but people who are actually thinking and speaking at the same time, tend to produce more gestures. ibid.

4 PROMPTER Focus: Talking Heads



Monochrome surrounding space

- > Problem of nakedness
- > Reduction to the visible speaker: "The center of knowledge"



3 MONOCHROME Focus: Talking Heads

Talking Heads and Framing Sizes

- midshot
- shoulder-close-up
- close-up
- >Too close?

"I wasn't sure that I wanted to see all the facial expressions. In someways, that was a bit distracting from the content [...] What's good about hand gestures is that they are directly linked to the speech content, what they are saying. So, that's relevant information." Sotaro Kita 2015

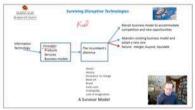




3 TOO CLOSE? Focus: Talking Heads

"To simply present power point slides with a picture-in-picture, I'm personally not a very big fan of that at all. [...] If you just present sort of picture-in-picture slides, the small Talking Head does not really add much. In fact, I think in some ways it really detracts."

Clayton Hainsworth, edX, Expert Interviews 2015

















3 PRESENTATION SLIDES Focus: Talking Heads

Reality











Characteristics & aesthetics of the audiovisual media

We never see the same thing when we also hear; we don't hear the same thing when we see as well.« Michel Chion 1994



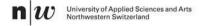
Characteristics & aesthetics of the audiovisual media

- media specific characteristics

Challenges for digital education with videos:

- create a "learning experience" rather than "teaching" (1x1 Adaptation)
- audiovisual didactical narratives
- sociocultural: recognizing media quality
- experiencing the media as media instead of cognitiv process of content





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- audiovisual didactical narratives
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- > Example: Technical objects



Short inputs for educators "in front of the camera"

(1) Be the master of the topic: speak & think at the same time – deeply understand the content that you're talking about. If insecure - don't do it!

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4 IN FRONT OF THE CAMERA Short Survival Guide

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- (4) Practice practice
- (5) Never forget: This videos will be out there in the world, coloring the perception about you as an educator and expert as you're scientific publications do.

Short inputs on the situation "behind the camera"

(1) There is no "one-style-fits-all" approach to video making. The perfect setting for one educator might be miserable for another > educator's personality

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- (1) There is no "one-style-fits-all" approach to video making. The perfect setting for one educator might be miserable for another > educator's personality
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Short inputs on the situation "behind the camera"

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- (2) Create a friendly atmosphere: Almost every person freaks out when standing in an empty studio situation (monochromatic or greenscreen surrounding) > includes feeling of Student and Professor) If possible include an nakedness. Create security with (power pose) mobiliar, thematic objects, different light settings
- (3) General rule: The closer the framing the less mimic expressions and bodily movements
- (4) Give truely honest feedback on the performance of the educator > avoid hierarchical structures in the video production (e.g. PhD expert (filmmaker-supervisor) into the process



Sunrise Semester / New York University / 1957 -1982

THANK YOU FOR YOUR ATTENTION!

jeanine.reutemann@fhnw.ch www.audiovisualresearch.org