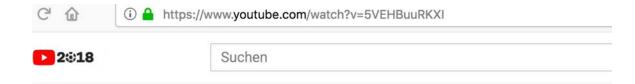


VIDEOS IN HIGHER EDUCATION

Researcher; Lecturer; Filmmaker; Jeanine Reutemann





448 MOOC

Research Video (2016): "Videos in Higher Education – A Journey into the World of Digital Education"



rotein basics

Outline:

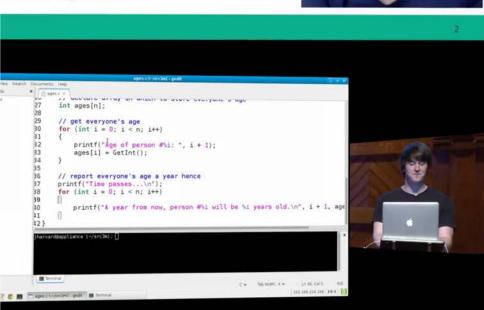
- · Polymers of amino acids
- · Order specified by bases in mRNA
- · Fold spontaneously into catalytic structures, driven by hydrophobic effects and hydrogen bonds

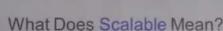
earning Objectives:

- Describe protein 1° and 2° structure
- Relate to gene structure









Operationally:

1,10061 M

- In the past "Works even it data doesn't fit in main memor

A CONTRACTOR

- Now "Can make use of 1900s of cheap computers"

Algorithmically:

- In the past If you have N data items, you must do no more than Nº operations - "polynomial time algorithms"
- Now If you have N data Items, you must do no more than W/k operations, for some large &
 - · Polynomial-time algorithms must be parallelized
- Soon. If you have N data items, you should do no more than N * log(N) operations
 - . As data sizes go up, you may only get one pass at the data
 - . The data is streaming you better make that one pass count
 - . Ex: Large Synoptic Survey Telescope (30TB / night)



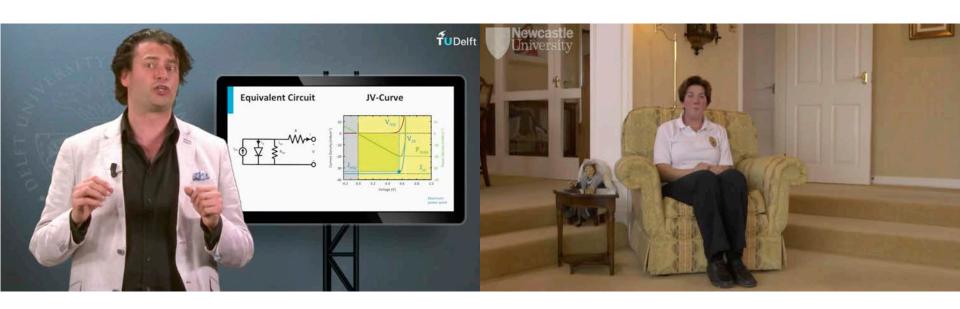
Principles of Strical Circuits L18 Operational Amplifier Op Amp





"How good are they on camera?
First of all, there are some people; you just love to watch them perform. And then there are other people, like, not really."

Chris Boebel, MIT, Expert Interviews, in: «Media Design Expertise for Videos in Higher Education», 2018.



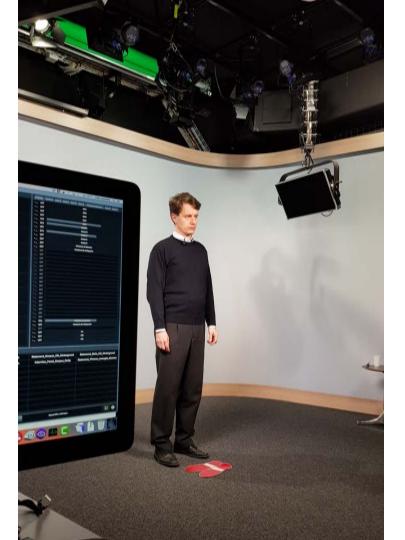
«So they all try to mimic a presentation in a lecture theater. [...] It's 3D background, that kind of makes it feel like a formal presentation is going on. So the lecture still feels quite strong in all of the styles of them. Because actually I'm not sure the lecture as a teaching and learning model is that good anyway [...] And yet why we are trying to copy it's conventions and take it through into the online space?»

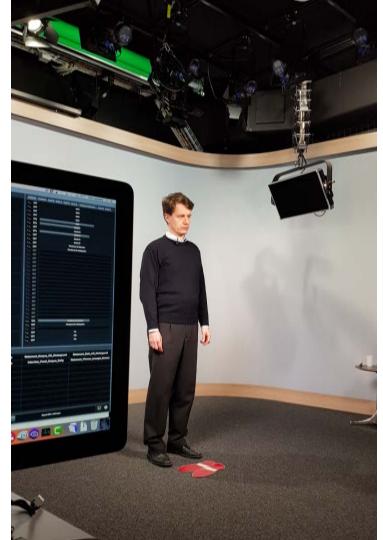
Jon Wardle, Director National School of Film & Television UK, Expert Interviews, in: «Media Design Expertise for Videos in Higher Education», 2018.





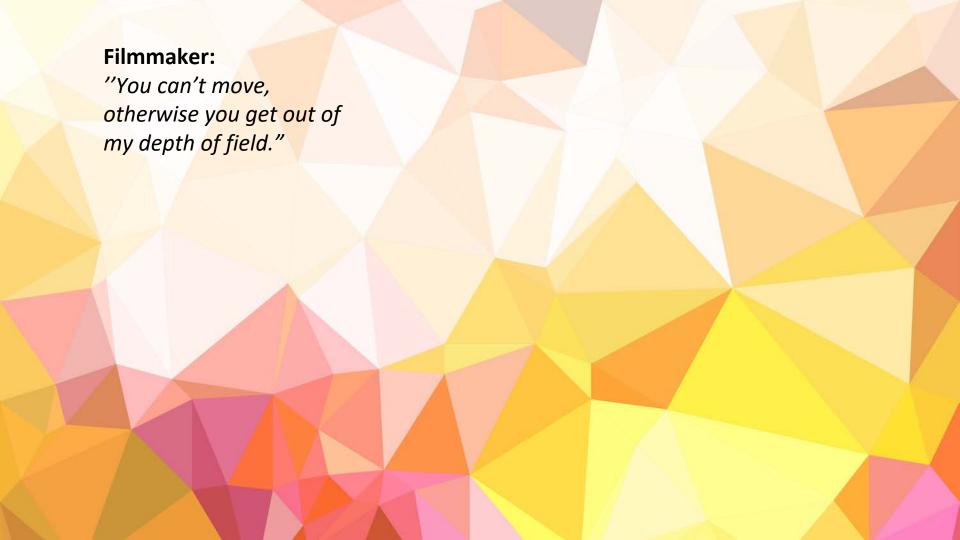














"You can't move, otherwise you get out of my depth of field."

Educator:

"This is really difficult!
My brain has to rethink all the time."

Filmmaker:

"You can't move, otherwise you get out of my depth of field."

Filmmaker: "Try to stand upright!"

Filmmaker: "Shoulders back!"

Filmmaker: "Don't wiggle around!"

Educator:

"This is really difficult!
My brain has to rethink all the time."

Filmmaker:

"You can't move, otherwise you get out of my depth of field."

Educator:

"This is really difficult!
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Filmmaker: "Try to stand upright!"

Filmmaker: "Shoulders back!"

Filmmaker: "Don't wiggle around!"

Educator:

"I guess I'm learning to swim."

Interference of the media design with the performance of Talking Heads?

Interference of the media design with the performance of Talking Heads?

Interference of the media design with the performance of Talking Heads?

Buthows

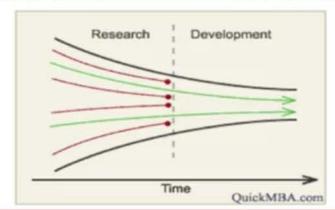


Benjamin Short Head of Graduate Placement and Recruitment Tata Steel



Closed Innovation Model

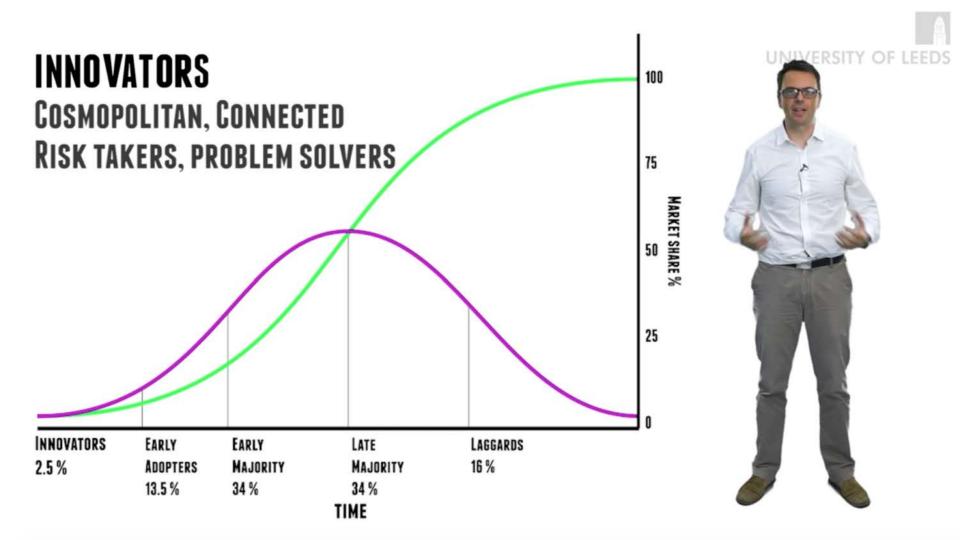
- Recruit top talent for internal R&D
- Innovate only within firm's boundaries
- Filter internal ideas for defined market











THERE IS NO EMPTY ROOM NEVER

- no measurement of size
- lack of 3D room effect
- 100% focus on the speaker
- no place to hide
- meaning making out of facial expressions, gestures, body tonus, clothing, eye bags...

nakedness. Create security with (power pose) mobiliar, thematic objects, different light settings



EMBODIED LANGUAGE OF SPEAKER



- (1) Communicative function of gestures
- (2) Self-referential function of gestures

EXAMPLE: GESTURE

- (1) Communicative function of gestures
- (2) Self-referential function of gestures

"But gestures also have functions for the gesturers him or herself. [...] When you make gestures, your communicative processes change the way you actually think about. The topic you are talking about, changes when you try to express something in the hand."

Prof. Sotaro Kita, Gesture & Communication Researcher, 2015.

CO-DESIGN

Disciplines; Topics; Characters

"It is often the case that the same language is free in one speaker, foolish in another, and arrogant in a third."

Marcus Fabius Quintilian, 50 B.C.

"It is often the case that the same VIDEO STYLE [language] is free in one speaker, foolish in another, and arrogant in a third."

> [language]: moving images as language; audiovisual language

KEY TAKEAWAYS

1. The performance of speakers is essential in educational videos – embodied language!

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- 1. The performance of speakers is essential in educational videos embodied language!
- 2. Media design can support or hinder the performance

KEY TAKEAWAYS

- 1. The performance of speakers is essential in educational videos embodied language!
- 2. Media design can support or hinder the
- 3. Video ≠ Copy. Media design knowledge meets scientific educational knowledge: Co-Design!



















Manifesto Videos in Higher Education

The manifesto is published under a CC-BY-SA Licence.



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annova, Sandro Freelance Filmmaker	- d -	19	115	-d-	Christina Maria, Schollerer FH Potsdam
ox, David Harvard University	-e-	27	123	-d-	Felix Seyfarth University of St. Gallen
derer, Peer Zeppelin University	- d -	37	137	-e-	Emiliana, Simon-Thomas UC BERKELEY
ainsworth, Clayton edX	-e-	49	15/		& Jason, Marsh UC Berkeley
fertling, Peter FH Kiel	-d-	61	149	-e-	Nigel, Smith Futurelearn
ita, Sotaro University of Warwick	-e-	79	157	-e-	Esther, Snelson prev. The Open University
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«Media Design Expertise for Videos in Higher Education.

A Collection of Interviews with Lecturers, Filmmakers and Communication Experts from the Fields of Science Teaching, Media Design, Gesture Studies and Digital Education», open access, 2018.







Presentation available on: audiovisualresearch.org

Manifesto Videos in Higher Education: medium.com

Book «Media Design Expertise for Videos in Higher Education», open access, 2018 on: osf.io;, researchgate, audiovisualresearch.org

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