

Teaching through the 'Looking Glass'

Mastering the affordances of Educational Video

Key Note: Tag der Lehre - University of St. Gallen

May 27th, 2021, 13.00-14.00

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Video Teaching Blog http://zacwoolfitt.blogspot.com/

Is this the most important moment in the history of education?

Why 'Now' matters

- **Frameworks for learning**
- Mh You and video
- The physical classroom
- Through the 'Looking Glass'
- Video affordances
- Faculty and students online
- Synchronous Asynchronous
- Envisioning education X.0

To experience, practice and reflect on all forms of 'Video Teaching'

Today 'presentation

Based on personal perspectives and observations

11 years of experimenting with educational video

The best learning...

... follows from looking at specific events through **competing theoretical prisms**, although some will work better than others

This presentation examines the current moment in higher education from the specific perspective of educational video

Padlet https://edu.nl/cxfaq



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Community of Inquiry Framework (Community of Inquiry Framework, Athabascau.ca)

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See Padlet for sources, literature and materials

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- (With thanks to all the photographers at Pevels & Pixaby for the photos and images

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6

- - 116

How are you...?



Check-in with audience (May 27th, 2021)



Why present today via a live video connection? Why not a podcast? What is the added value of synchronous video interaction?

Ed Hub Days, Jan 2020



^b UNIVERSITÄT BERN



Key Note Jan 29th, 2020

'Continuing the transition into the age of video'

(slides)



Continuing the Transition into the Age of Video

Eduhub Days, University of Bern, January 29th, 2020, 10.30-11.15

Zac.Woolfitt@Inholland.nl Research Fellow Teaching, Learning & Technology Research Group Inholland University of Applied Sciences





We used to teach like this

Inh The most important moment in the history of education?



March 2020 Across the world All education moved online Overnight!

Unprecedented



Physical classrooms 'locked'



Response

Reactive

Emergency Remote Teaching

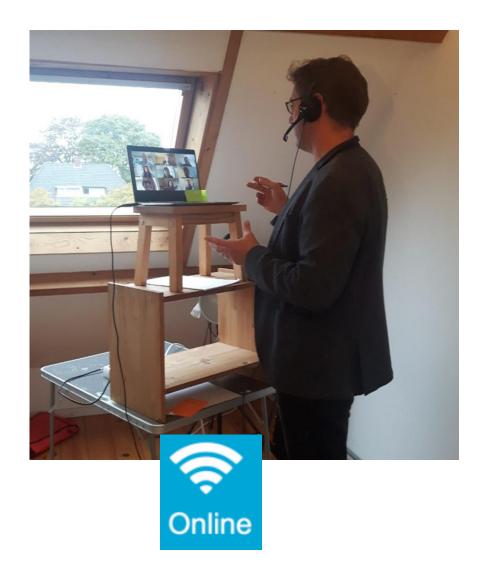
Some prepared

Now entering recovery



Moving from Face to Face





To teaching from home Improvised Different experience Extra cognitive load

Lecturer as media producer

(Bates, 2015) (Vanessa Garcia, Pexels)



Two dimensional

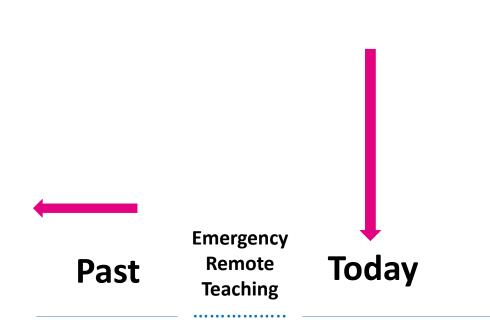
One directional

(Vanessa Garcia, Pexel)



'Mirroring' real world

(Idealised view shown here!)



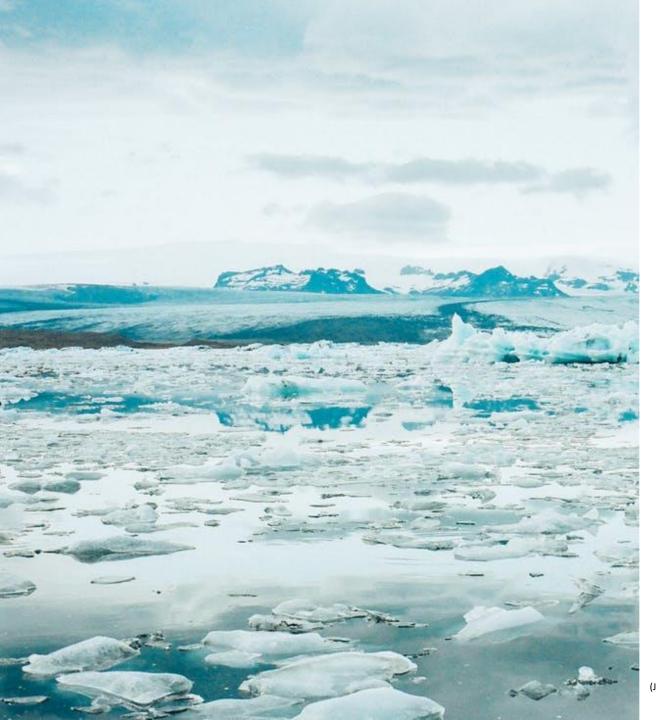
Why 'Now' Matters

Why 'now' is so important?

March 2020

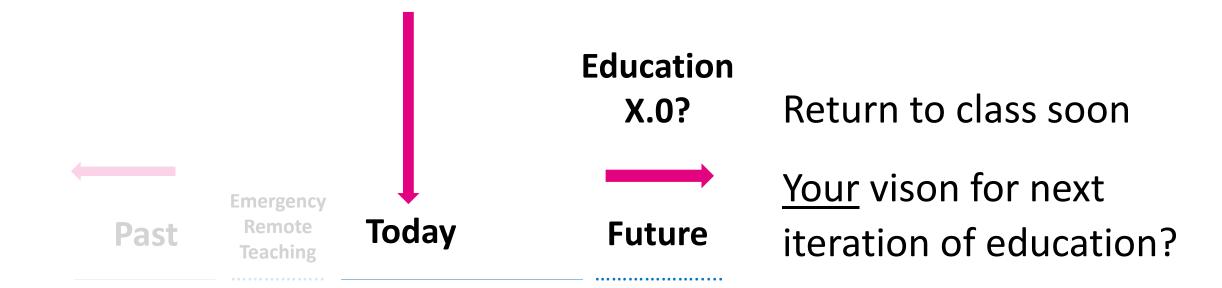


(Hodges et al, 2020, Educause Horizon Report, 2021)



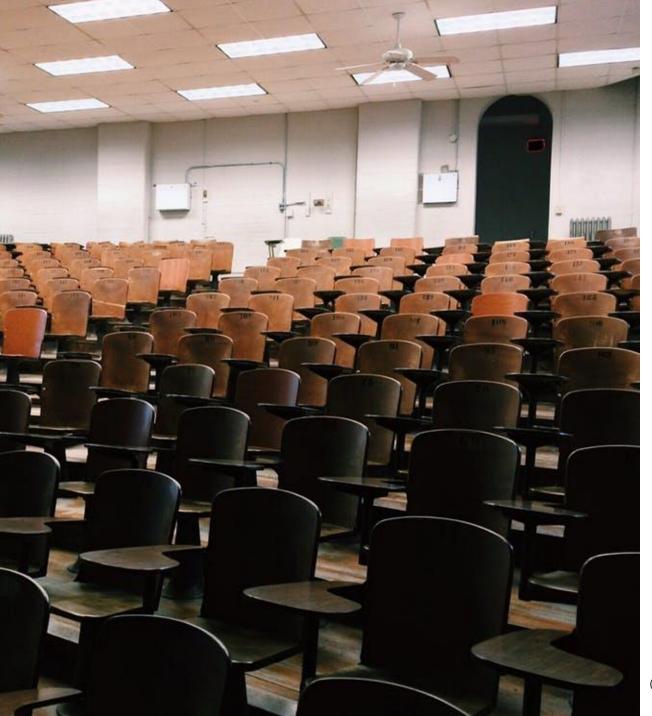
Education changes slowly World-wide 'hard reset' First time ever Opportunity to 'move' Reinvention

Why Now Matters



March 2020





Your 'Mental Models' of education?

Your role in innovation?

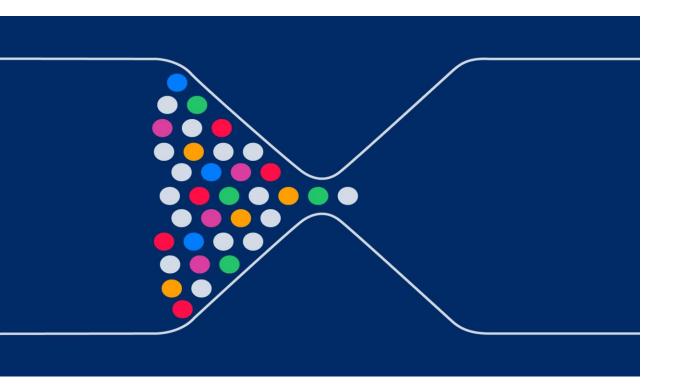
Ready to take this moment?

Soon 'back to normal'

Unique moment will be gone

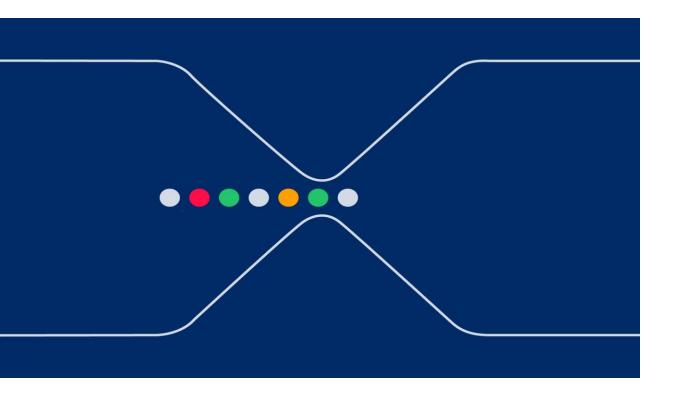


Frameworks For Learning



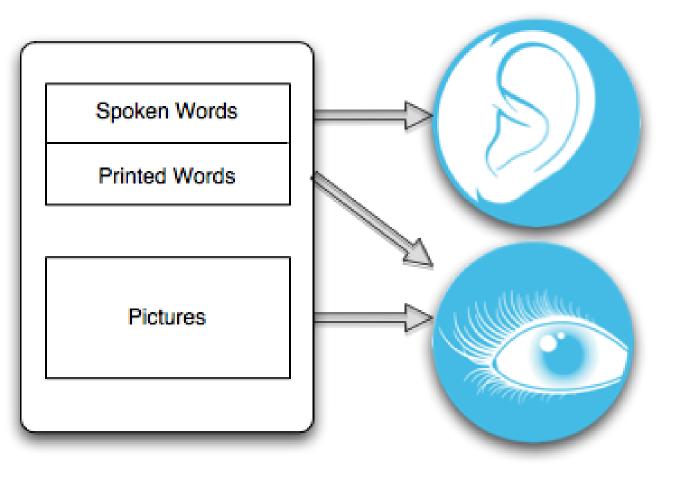
Cognitive Load Theory

Limited Working Memory



Simplify communication Reduce Extraneous Cognitive Load

Support learning and transfer to long term memory



Multimedia Theory

Two channels

30 yrs. of empirical research

Read the 2018 article!



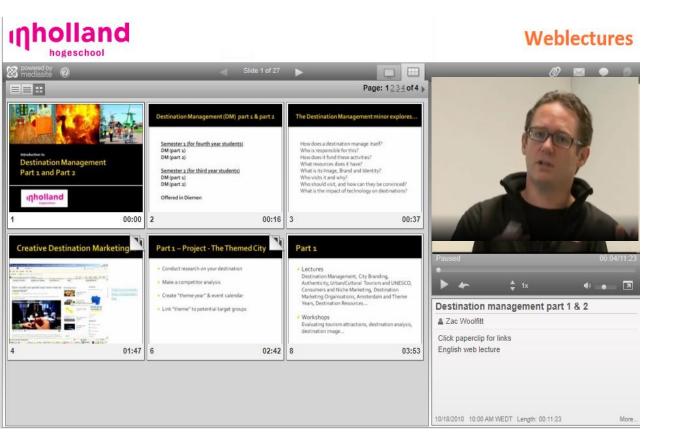


What is the first recorded personal moving image of you?

In what format?

Filmed on what device?

Stored where?



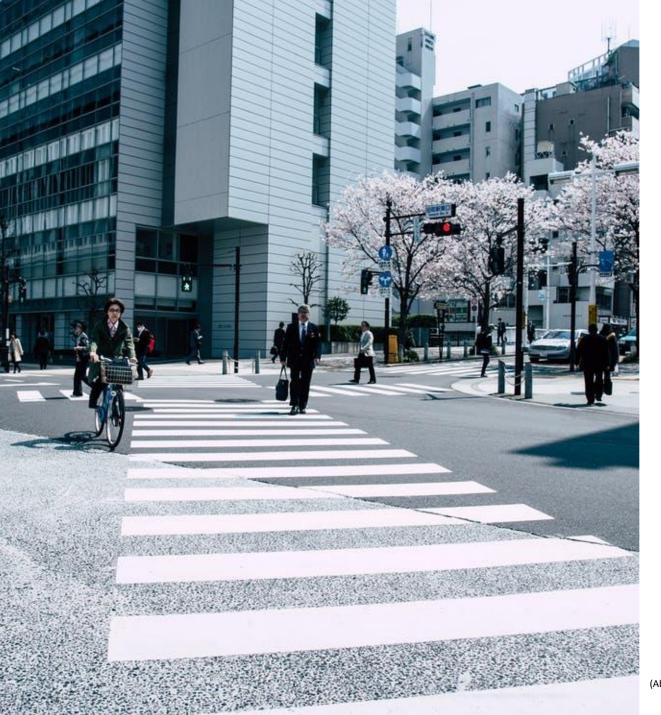
What is the first recorded image of you teaching?

My first web lecture 2010

Positive experience

Many benefits

Colleagues hesitant



I 'crossed the road'

Many colleagues hesitated

Why?

(Abby Chung, Pexels)



'Catching the Wave of Video Teaching' research

Interviews with colleagues

Why is teaching via the screen different to teaching in the physical classroom?

Teaching via video is different because ...?

No energy from the audienceNo informal interaction

High exepctations on video quality

no eye contact

there is no response from the students

students/viewers are likely distracted by many other things

cant read faces

Lack of atmospheric feedback

no immediate feedback

more vivid

no emotional responde - empathy

Looking to the camera instead of in the eyes

Menti.com

Check-in with audience (May 27th, 2021)

Mentimeter

It took a lot of time on making and editing videos

I hate my appearance on video

Few possibilities to chat with students personally

I feel more exposed on video

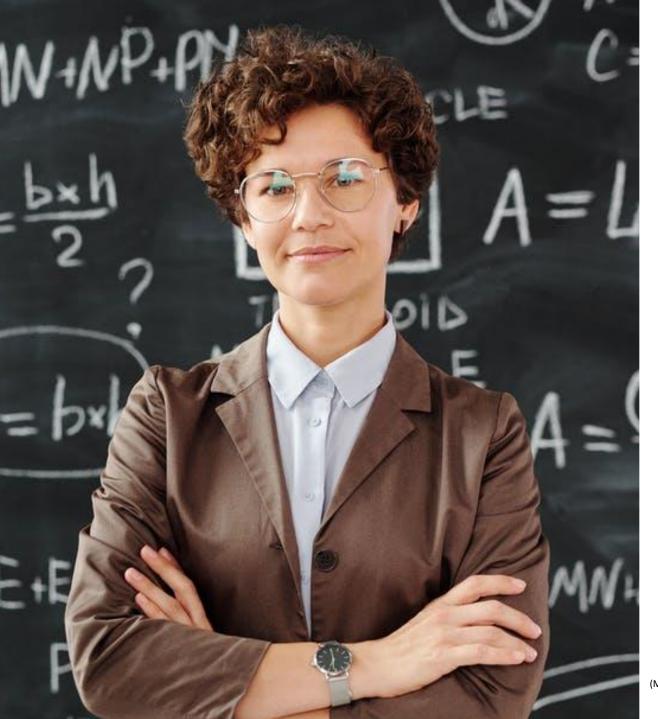
timespace ist different

bad teaching becomes much more apparent than in face-to-face teaching; much less forgiving

The Physical Classroom



Personal, intimate, synchronous, transient, minimal 'data trail', nonverbal communication, pausing, eye contact, checking understanding, more natural...



We don't 'see' ourselves

Does how we see ourselves match how others see us?

(Max Fischer, Pexels)



Minimum opportunity for reflection on our teaching

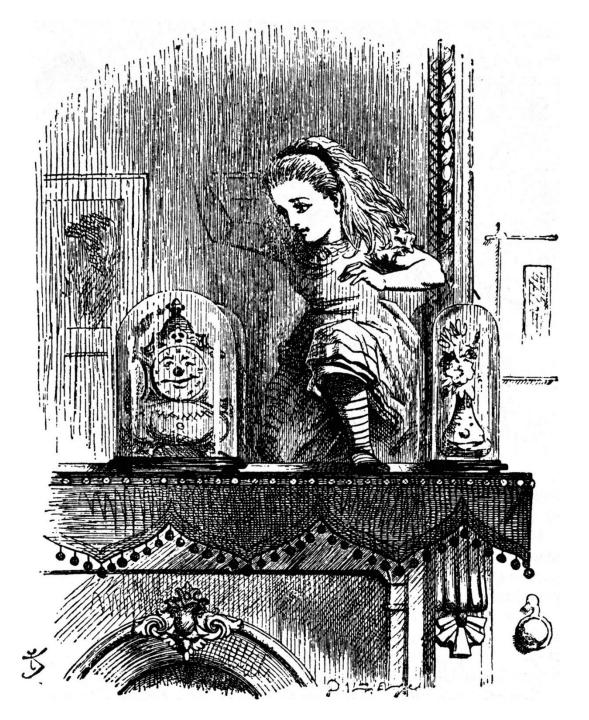
(Hanawasthere, Pexels)

Through the Looking Glass



Shift to 'Video Teaching' like Alice going 'through the looking glass'

(Carroll, 1871)



The world is different on the other side

New rules apply

We have additional 'powers'



Our teaching interactions are mediated through the screen

The screen is our new stage



Recording educational video requires extra technical elements

Less intuitive?

More linear?

(Vanessa Garcia, Pexels)



Private becomes public Reaching wider audience 'Fear' of mistakes Vulnerability 'Permanent' data trail

(Keira Burton, Pexels)



Video shines a bright spotlight!

Can be confrontational

Forced to reflect

Challenging

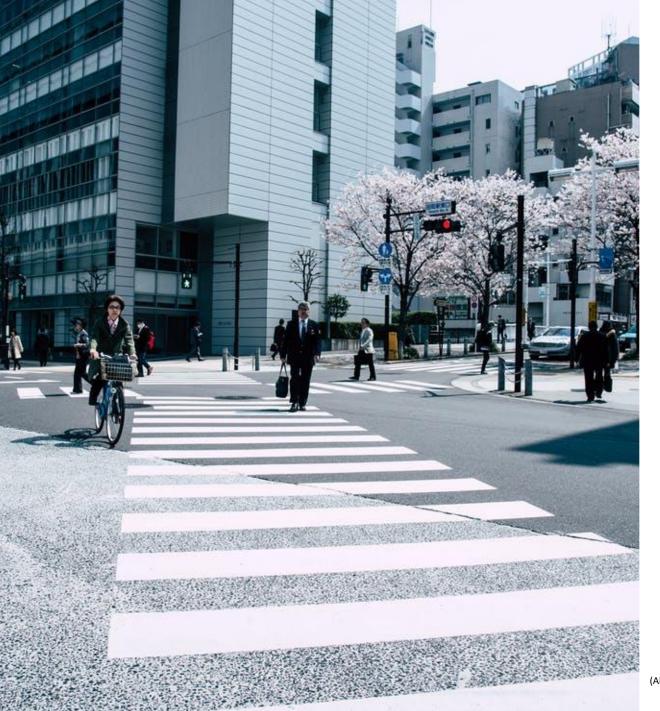
(Andre Mouton, Pexels)



Teaching with empathy

Requires positive self-image

(Turkle, 2021) (Andrea Piacquadio, Pexels)



Some insights into hesitancy

Shift to video not always easy

(Abby Chung, Pexels)

Wh Video Affordances

Affordances of video

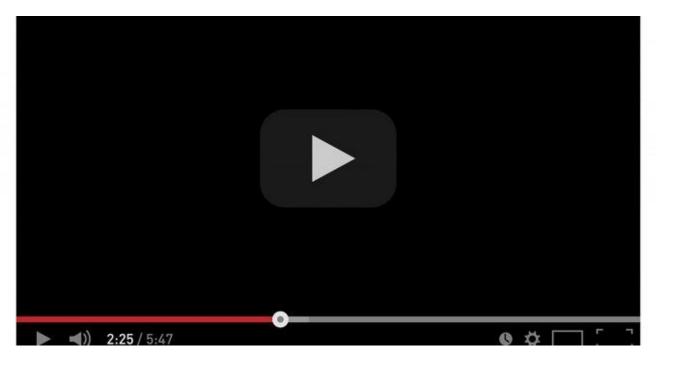
The quality or property of

a video that defines its

possible uses or makes

clear how it can or should

be used



Play

Linear

Time

Settings

Learn... Entertain...



Video teacher is supercharged

Asynchronous viewing

From any location

Multiple views

Fast, slow, pause, skip

Add layers: Polls, quizzes...

Searchable...

Analytics of Destination Management

All Dates

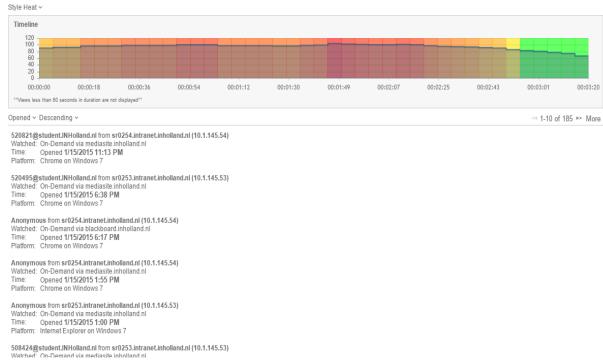
Back to Report | Excel v | Xml v | More v

← Result Summary

Presentation Summary: Destination Management 00 - Intro

Total Views: 185 | Presentation Views: 185 Total | 0 Live | 185 On-Demand Time: 6:36:41 Total Watched | 0:02:09 Average Watched (h:mm:ss) Peak: 2 Connections Clients: 86 Users | 10 IP Addresses Range: First Watched on 10/10/2013 | Last on 1/15/2015

Date Activity a | Users a | IP Addresses a | Viewing Trends a | Platforms a



Video collects data

Number of views

Time

Viewing patterns

Heat map...

Video is

Synchronous

and/or

Asynchronous



Video is

Synchronous

'High-quality face-to-face instruction and videoconferences (via channels such as "MS Teams", "Skype", "Zoom,") that allow dynamic interaction between staff and students.'

(Fransen, 20200 (Pixaby, Pexels)

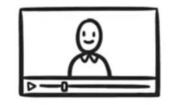


Video is

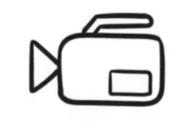
Asynchronous

'Asynchronous learning activities: The lecturer and students exchange documents, information and media clips in the online learning environment.'

(Fransen, 2020) (Pixaby, Pexels)







Continually evolving video formats

Different affordances

Clip, Web Lecture, Live Lecture Capture, Screencast, Student Generated, video assessment...

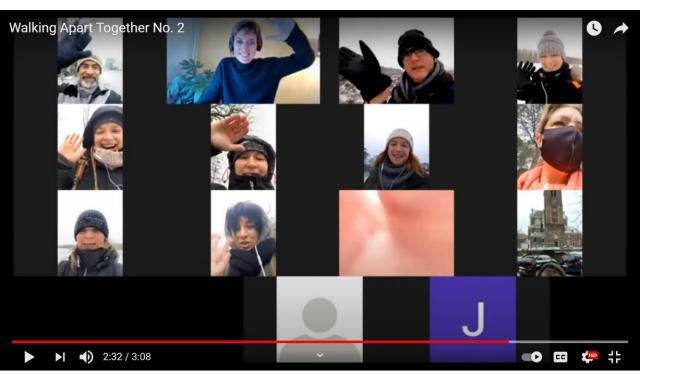


360 degree video

Augmented reality

Virtual reality...

(Mikahail Nolov, Pexels)



Innovative practies emerging

Communal Zoom lessons apart but 'together' in nature



Online classroom Lifesize faces Synchronous interaction Conversation more 'natural' High quality audio



Hybrid Virtual Classroom

Students in physical classroom

<u>And</u> students online

Flexible learning

Pedagogy more complex

Moderator/technical support



Volumetric Video

Filmed from multiple angles

Walk 'through' the action



Remote control mobile iPad teaching presence

Anywhere in the world



Next generation Back to '3d' Hologram teacher Teacher 'seems' more real This is already here...

(http://zacwoolfitt.blogspot.com)



The Faculty Online



What additional pressures?

No choice

March 2020

Past

Emergency Remote Teaching

.



Public vs Private Blurring of 'lives'

Multi tasking

Less travel

'Sharing' private space

(Standsome Worklifestyle, Pexels)

You are on **Management**

Technical challenges (still!)

Complex

Additional cognitive load

Working From Home Conference Call Bingo

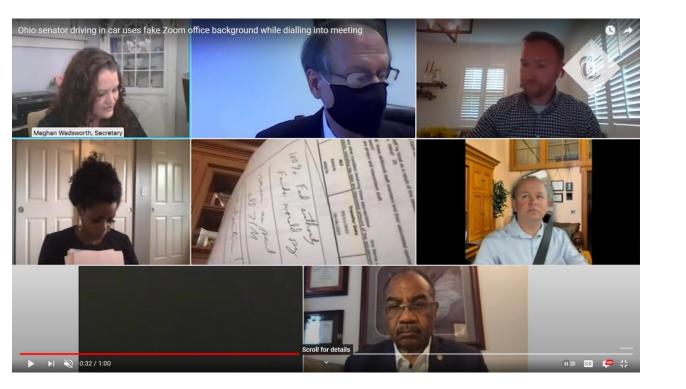


Additional distractions

Amusing/embarrasing

More or less efficient

'Re-learning' to communicate



Senator in Zoom meeting

'Background' is living room

Seat belt indicates location.



'It's me... I'm not a cat'

Judge can't remove cat filter



Investment in equipment

Support from employer



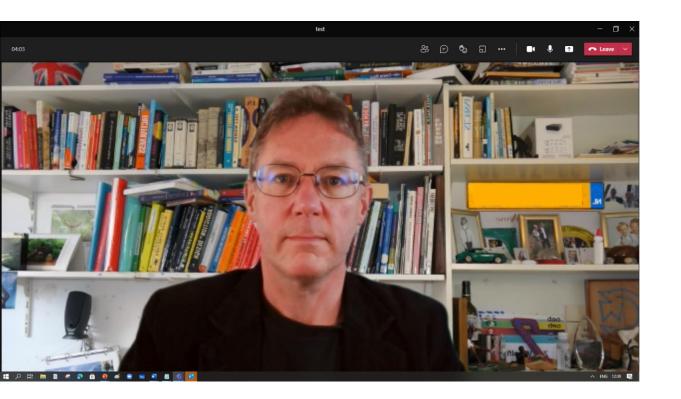
Audio quality essential

Wifi essential



Improvised home classrooms

Additional screens and lights



Zoom background check

Messy, distracting

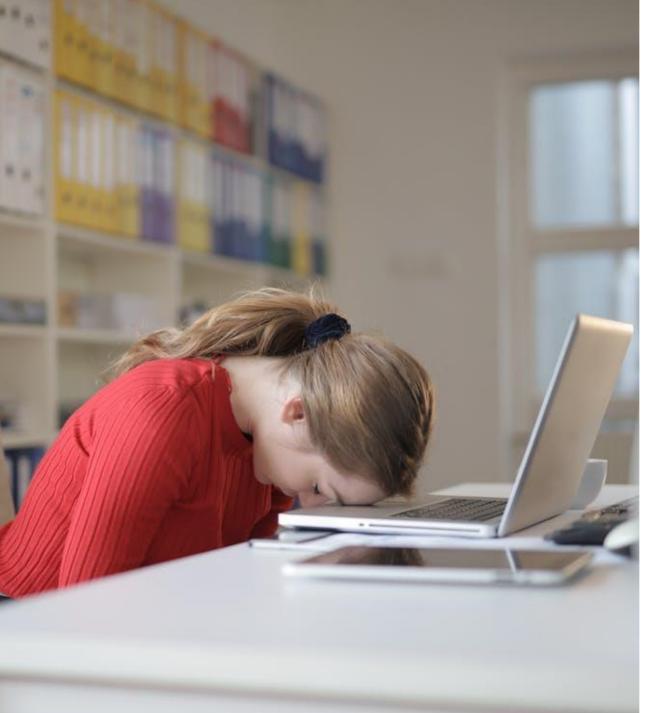


'Curating' personal space Concsious of online 'persona' What and how you choose to share



'Zoom' as a verb for all forms of online synchronous video

Gloom, Doom, Fatigue?



Zoom Exhaustion and Fatigue Score

Why we get tired

How to reduce fatigue



Multiple faces staring at you

Tiring and stressful

Awkward 'elevator moment'



Exaggerated gestures Nodding Thumbs up

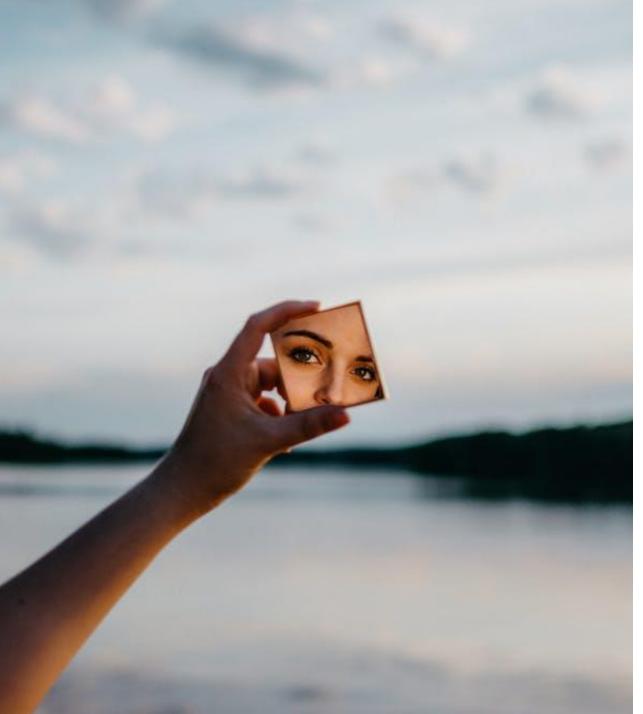
Expected 'engagement'



Continual self-awareness

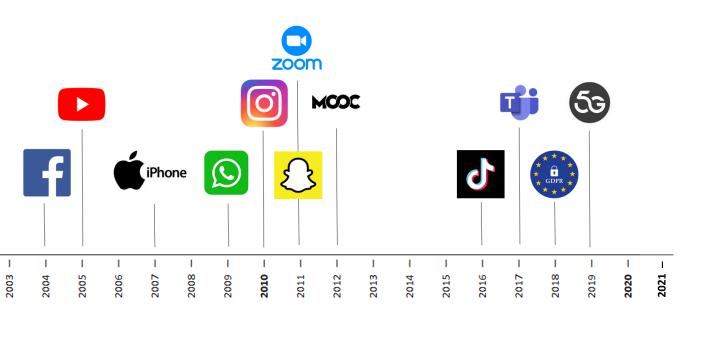
Mirroring

Comparing to others



Women experience more Zoom Fatigue (See Fauville et al., 2021)

Mh Students Online



An 18 year-old Student starting in 2021

Was born in 2003

Into the 'Age of Video'

Battle for student attention

Education competing in a crowded landscape



Learning via video requires Self-regulated learning Intrinsic motivation Adequate Wifi and devices Suitable learning space

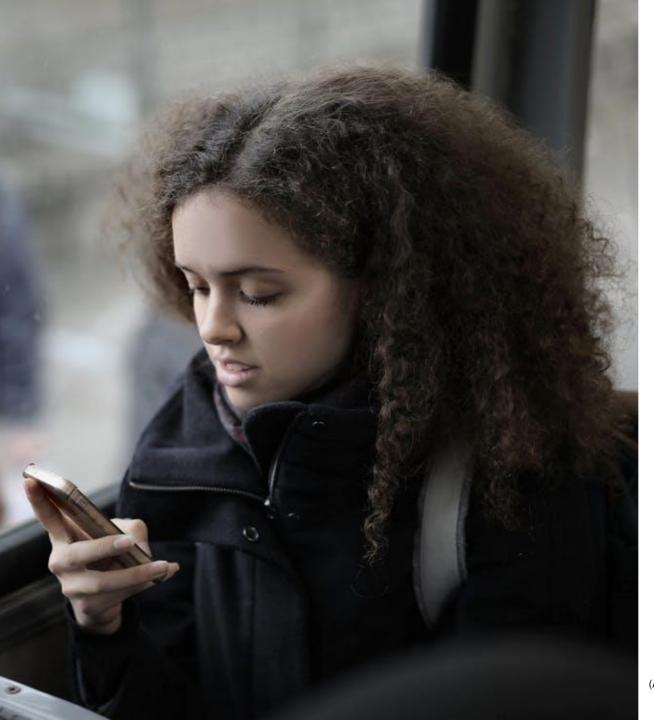


Learning in a pandemic

Additional mental and health pressures

Loss of social contact

(Charlotte May, Pexels)



Learning on a small screen

During other activities

(Andrea Piacquadio, Pexels)



Balancing work with study

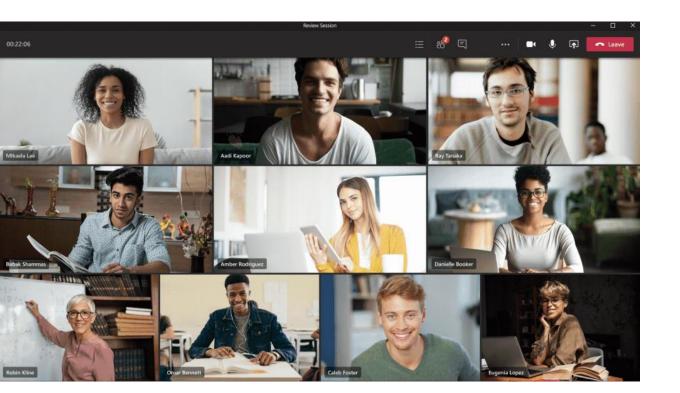
Motivation and energy issues

(Ketut Subiyanto, Pexels)



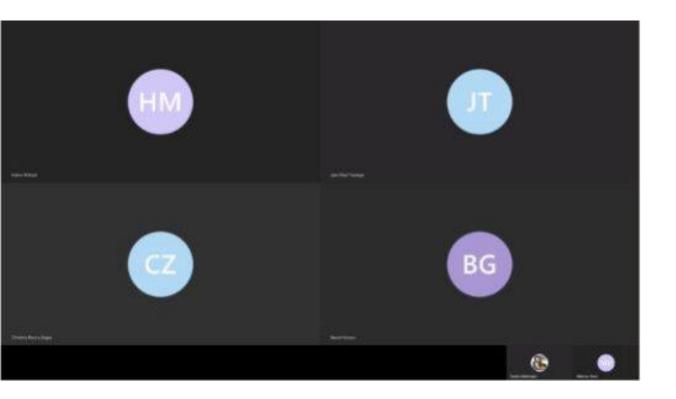
Focus vs. isolation

(Kulik Stepan, Pexels)



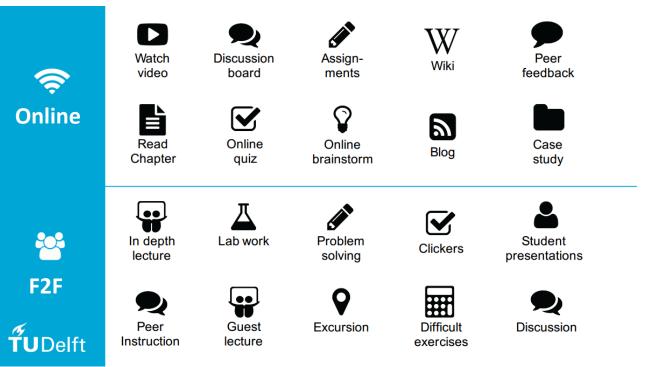
Camera on, Camera off?

Your expectations?



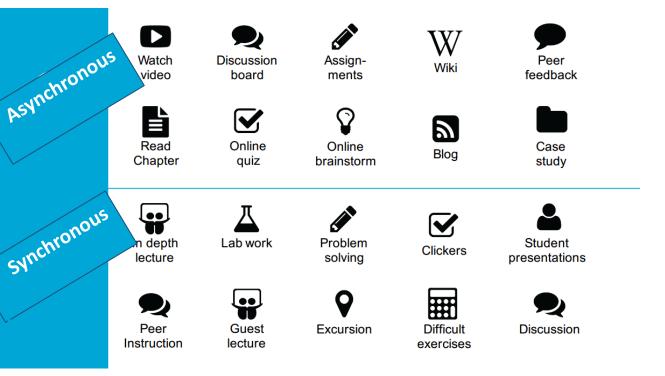
Student Privacy Rules 'Recording' lessons Student also confronted with own online identity 'Pinned down' to one persona

Synchronous Asynchronous



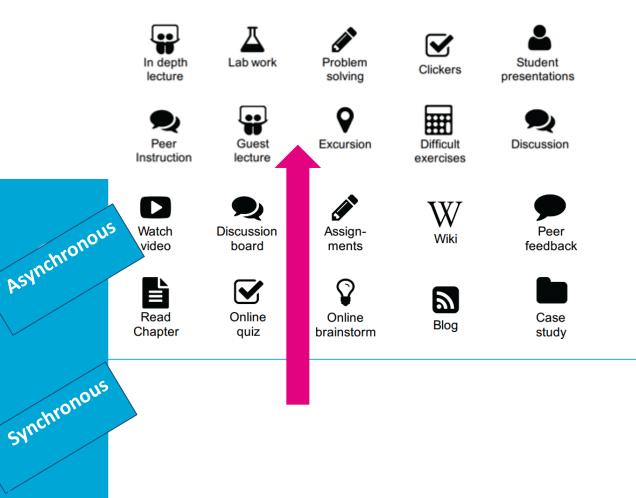
Blended Learning

'Learning as a result of a deliberate, integrated combination of online and f2f learning activities'

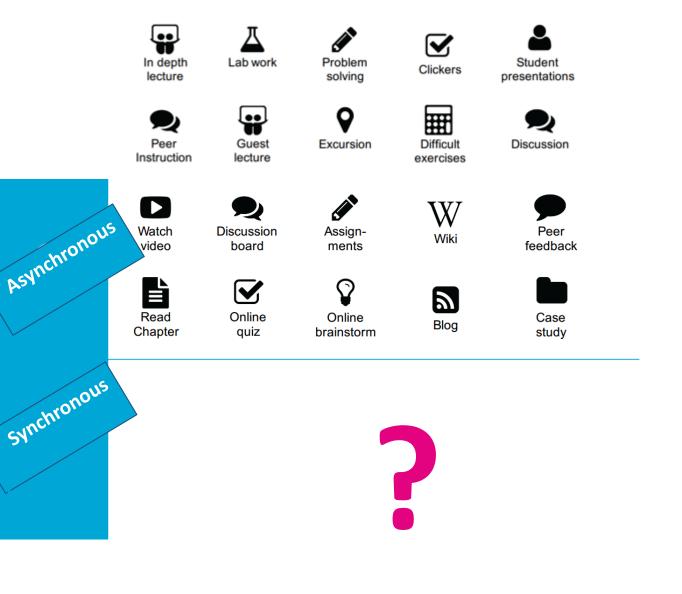


Hybrid learning

Learning combining f2f and online forms based on deliberate, integrated combination of synchronous and asynchronous learning activities



Video is a powerful tool to move (some) f2f synchronous activities into asynchronous space



Rethinking which learning activities for synchronous space?

Rethinking role of lecturer?



How to select activities?

Based on phase of learning

Based on type of learning



The move to online teaching was easier than it should have been.

Why?

Envisioning Education X.0



Your vision for X.0?

Faculty?

Student?

Higher Education?



Soon you will 'Unlock' your classroom



What will you find? What have you leanred? What will you keep? What will you toss?



What are your expectations? Old or new 'Mental Moldels'?

(Pixaby)



How will you teach?

How will students learn?

How will you organise classes?

Online and in Person?

Which learning activities?

What is the role of video?



Education still 'fluid' BUT... 'Re-freezing' soon? How can managment and faculty maintain 'fluid' mindset?



Continued flexibalisation of learning

(Keira Burton, Pexels)



In which locations?

(Ivan Samkov, Pexels)



Formal vs. Informal learning?



Creating and facilitating hybrid learning spaces

(Christina Morillo, Pexels)



Mh Wrap Up

The best learning...

... follows from looking at specific events through **competing theoretical prisms**, although some will work better than others

We have examined the current historical moment through the perspective of 'Video'.

This is only <u>one</u> of many perspectives...

Padlet https://edu.nl/cxfaq



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Community of Inquiry Framework (Community of Inquiry Framework, Athabascau.ca)

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Key Note: Tag der Lehre - University of St. Gallen

May 27th, 2021, 13.00-14.00

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