EXPLORING THE POTENTIAL OF DIGITAL TOOLS FOR LEARNING

ISABELL GRUNDSCHOBER
ISABELLGRU.EU

TODAY'S PROGRAMME





- 1. What is eLearning? What are the different 'faces' of eLearning? + activity
- 2. What are the top eLearning tools at the moment? + activity
- 3. What is influencing the success of online learning?
- 4. How to plan online learning? + activity
- 5. What are the challenges of learning and how to overcome them? + discussion
- 6. Good practice examples of course implementation



NAME: ISABELL GRUNDSCHOBER

I am 34 years old and I am passionate about learning!
I am working at the university for continuing education. I am a researcher but also a trainer/coach.

MY JOB: RESEARCHER AND DEPUTY HEAD OF THE CENTRE FOR APPLIED RESEARCH IN LLL

I am working in research and development in learning design in adult education. I am focusing on learner-centered teaching and learning and innovative learning designs. I love to use ed-tech, especially social learning aspects of it.

WHEN I HEAR "E-LEARNING" I THINK OF...

...social learning, flexibility, freedom! And job, that I love. But I am also thinking of some "dark" sides of eLearning...



CLARIN Café: Welcome Wall

ABOUT YOU...

Getting to know you each other:) Please share a bit about yourself and your background regarding learning and teaching. Looking forward to meeting you online at the CLARIN Café "Exploring the Potential of Digital Tools for Learning" on the 3rd of March, 2pm.



Anonym s

Mietta Lennes

I work as a Project Planning Officer for Kielipankki - The Language Bank of Finland. I am involved in the technical and administrative process of making research data sets available via the Language Bank, but my job also includes teaching four online courses per year (both BA and MA level, usually in Finnish and in English in parallel), as well as various things related to user support and communications. However, even when I am teaching, I kind of see my role rather as a tutor or research support person, helping people to find their



Anonym s

Iulianna

Training and Education Officer at CLARIN ERIC, currently developing learning content (for teachers to use in the classroom) on research data repositories and use of standards. Similarly to Novella, I am also using Moodle and H5P. It was quite challenging to design and structure a new course from scratch, and create meaningful learning activities that encourage active learning and critical thinking. This is an area on which I would like to focus on and grow.

Before my job at CLARIN, I



Anonym 24h

Bilyana Todorova

I am an Associate Professor of Bulgarian language at South-West University, Blagoevgrad, Bulgaria. My teaching experience: I started teaching at the university in 2001 when I was a PhD student. My teaching goals: To be a competent and attractive

lecturer and to be helpful to

my students.

Universität für Weiterbi... 19h Dear Bilyana, I really like your goal, it has a very learnercentred focus and also the workshop this Friday will be

learner-centred! Looking

Anonym 6T.

Jurgita Vaičenonienė

Lecturer at the Department of Lithuanian Studies, Vytautas Magnus University.

My professional background is in Translation Studies and Corpus Linguistics.

Teaching experience: I have been teaching at university since 2004, so I have a rich experience in creating course and study programme curricula and developing teaching content for students and lectur

Teaching goals: t study content i and attractive



Anonym 6T.

Novella Tedesco



Ph.D. student at the University of Bologna ment of Interp

> my Ph.I ar. I a

g on tural

WHAT DO YOU ASSOCIATE WITH E-LEARNING? (S)

Innovation

high experimental and innovative potential

Less C02, more time

a great opportunity to avoid unnecessary travel

New educational problems

School children who no longer know how to read and understand a long

Management:

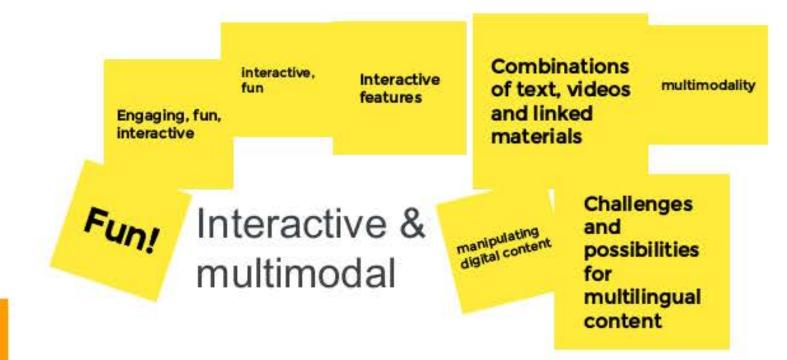
Personal & group

Vital tools for managing a remote crowd of students

classroom management opportunities

management.

What do you associate with eLearning?



Student engagement difficult

difficulties in engaging students

engaging: it requires agency and involvement from the participants Not always sure of student engagement.

Hardware & Software internet Issues connection

> A large variety of tools - not being aware of them

internet connection isssues

Connection to open up learning possibilities to those who inclusiveness can't travel easy inclusive access accessible (through the use of real-time subtitles, voice-over and other Accessible techniques for accessibility) & inclusive short, modular web resources that can be Flexible accessible in

real-time

Flexibility

Non-linear

course

content

for teachers

Non-linear course content not always easy for the teacher to handle

It is difficult to keep video content up to date

Difficulties

possibility

to

rewatch

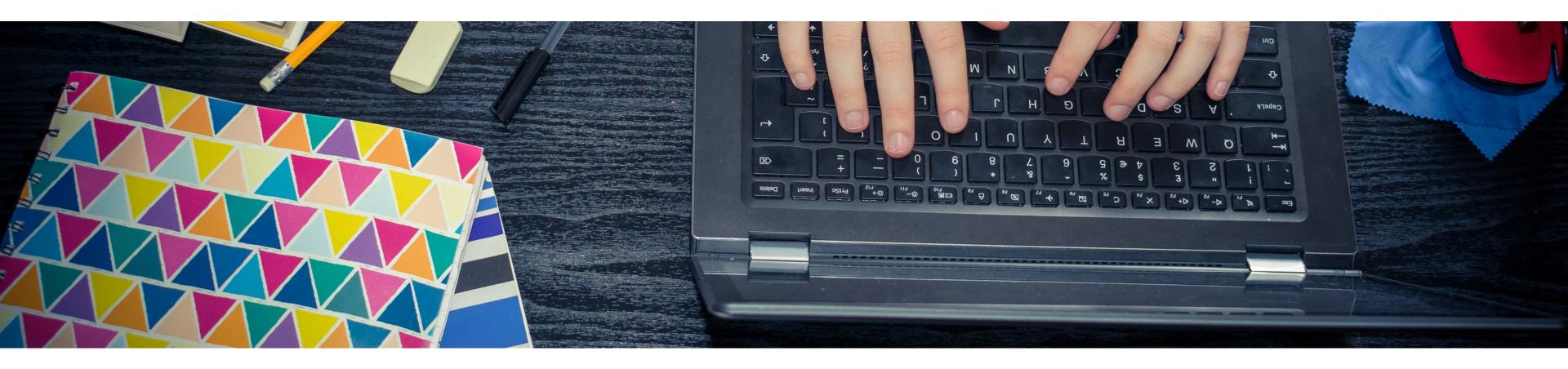
lectures

E-LEARNING A DEFINITION



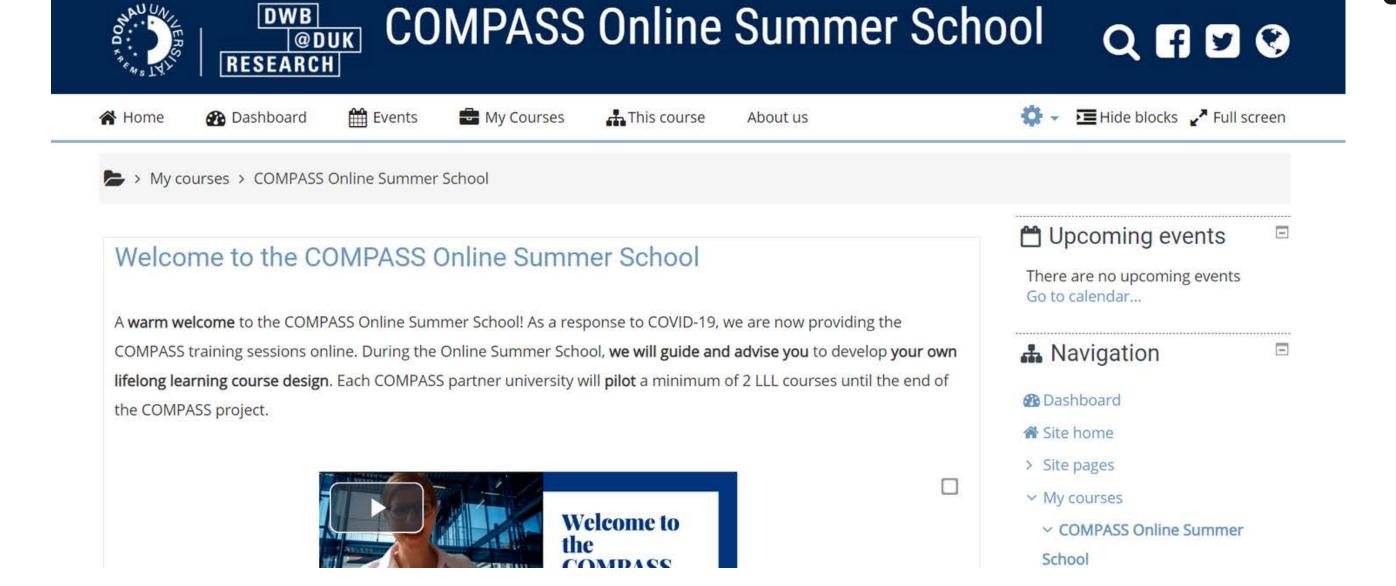
All forms of **learning**, that are **making use of digital media**. This includes

- presenting & distributing learning
 resources as well as
- **communication** between learners and/or teachers. (Kerres & Preußler 2012)









LEARNING MANAGEMENT SYSTEM

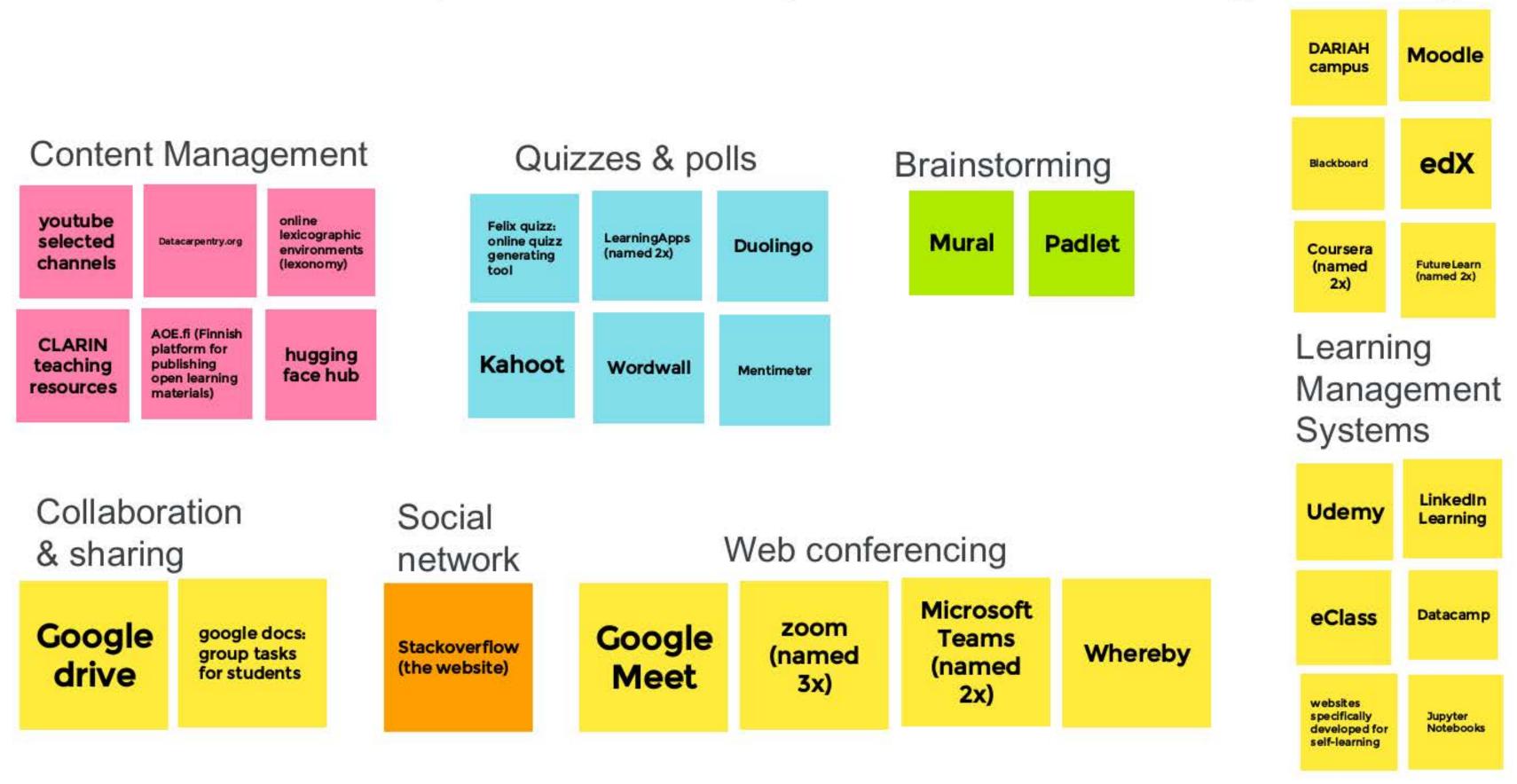
WHAT ARE THE TOP TOOLS FOR E-LEARNING?





WHERE DID YOU LEARN/TEACH LATELY ONLINE?

Which tools and platforms have you used for learning/teaching?



ABOUT LEARNING MANAGEMENT SYSTEMS (LMS)



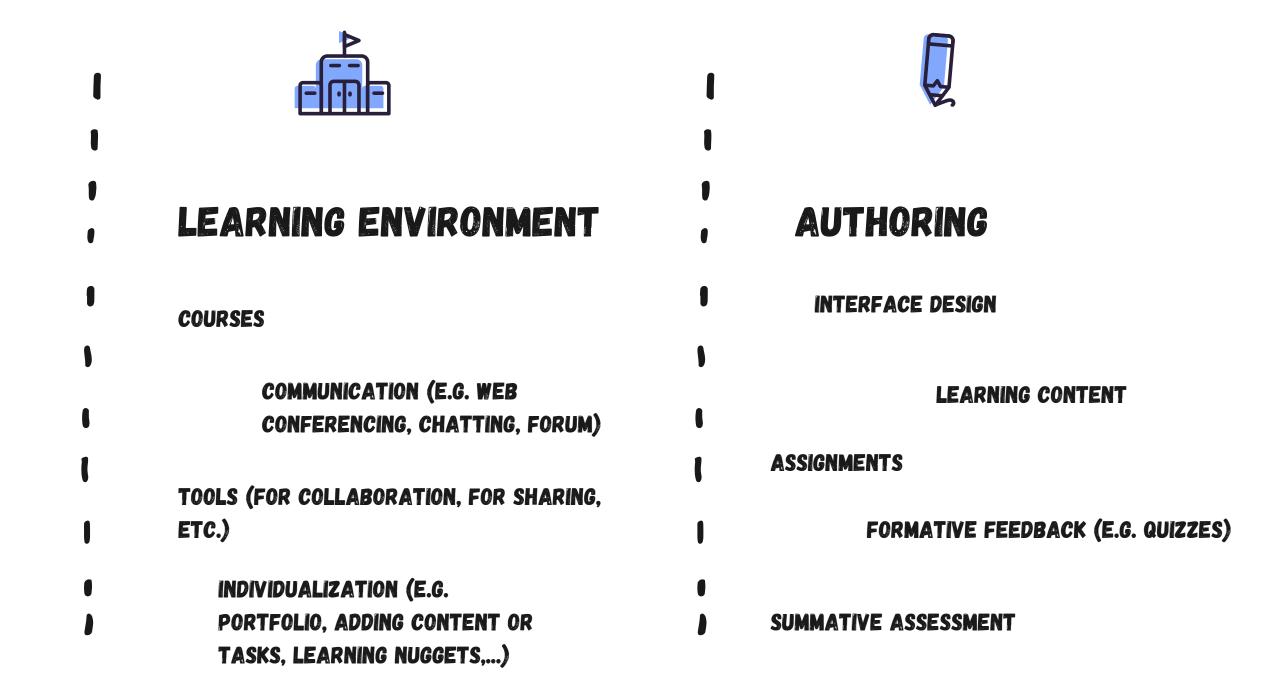
ADMINISTRATION

USER MANAGEMENT

COURSE MANAGEMENT

MANAGEMENT OF QUALIFICATIONS

EVALUATION



TOP 200 LEARNING TOOLS

Jane Hart, Centre for Learning & Performing Technologies, identifies which digital tools for learning are most popular:

www.toptools4learning.com



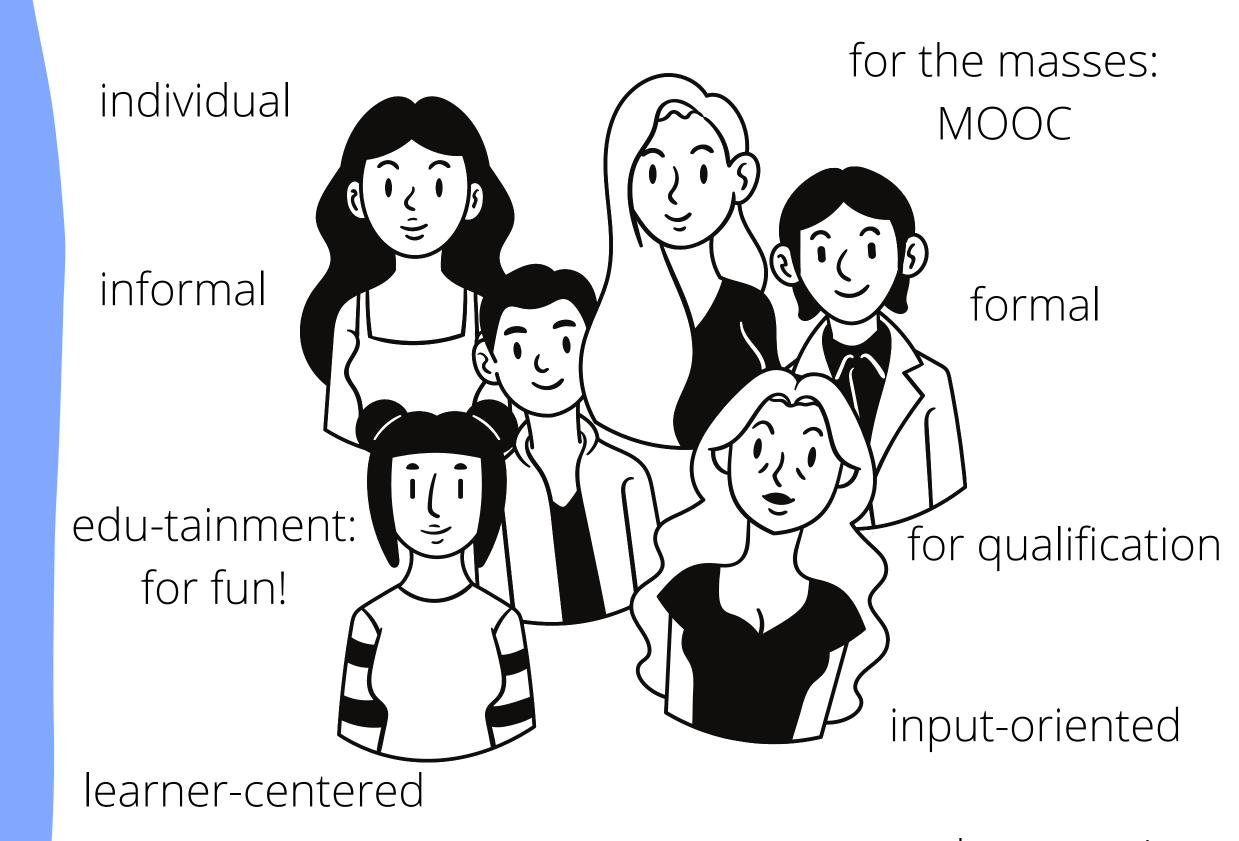
EDUCATIONAL SECTOR

COMPANIES

• NGOS

The many faces of eLearning

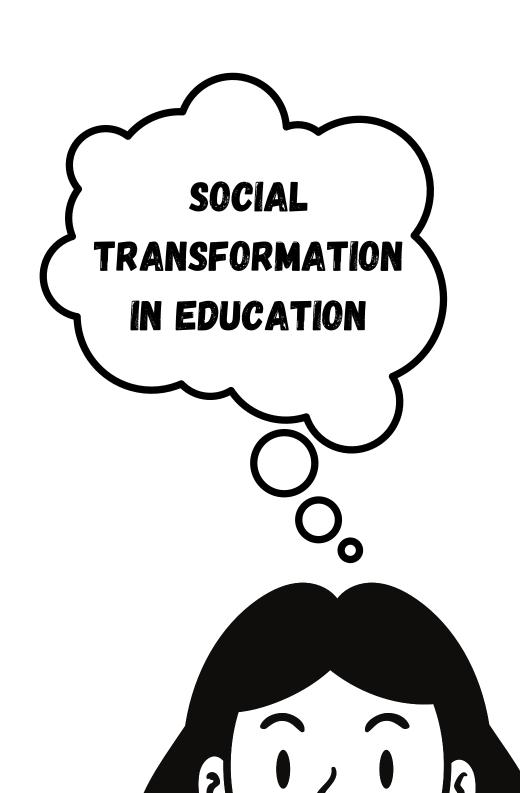
E-Learning is a very broad term. E-Learning can look very different and can have various goals.
What is your goal?



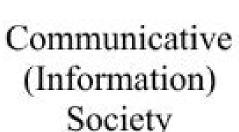
created by teachers

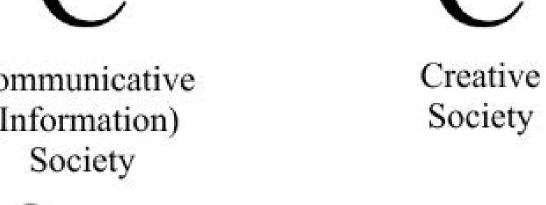
user-generated content/ created by learners





Consumptive







Society





"Teacher"

teaching to students "Facilitator"

facilitating communication among students

"Generator"

Generating ideas with students in a project

TYPICAL DELIVERY MODES

eLearning Classics

Digitally Supported F2F Learning

F2f on the campus, mostly synchronous communication, supported by edtech. Combined with non-tutored self-study outside of class.

Blended Learning

Online learning and f2f sessions, synchronous and asynchronous communication, tutored online learning

Fully Online Learning

No f2f session, synchronous and asynchronous communication, usually tutored

MORE AND MORE BLENDED!

Digitally Supported F2F Learning

F2f on the campus, mostly synchronous communication, supported by edtech. Combined with non-tutored self-study outside of class.

Blended Learning

Online learning and f2f sessions, synchronous and asynchronous communication, tutored online learning

Fully Online Learning

No f2f session, synchronous and asynchronous communication, usually tutored

WHAT IS BETTER? ONLINE OR F2F?

E-LEARNING VS F2F



INSTRUCTIONAL DESIGN



BEING EXPLICIT - FTW!

Digitally supported learning scenarios attain the same good or bad results as traditional, f2f teaching and learning scenarios.

The success of digitally supported learning scenarios depends on the **quality of their learning design**. Furthermore, success is connected to how well the learning scenario **addresses a certain "educational problem".** e.g. fast feedback

e.g. fast feedback problem-based learning self-efficacy active learning interactions with peers (Merril 2002)

You need a **detailed plan** for your digitally supported learning scenario! Gut feeling is not enough in the digital world. This plan is called a **"learning design"** and it describes the learner activities (communicative, interactive, etc.) and which learning outcome can be shown after the learning phase.

SUCCESS FACTORS OF E-LEARNING

- 1) Educational problem addressed
- 2) Learning design aligned
- 3) Specifics of digital media considered

HOW TO PLAN E-LEARNING?

SPOILER: IT HAS SOMETHING TO DO WITH THE EDUCATIONAL PROBLEM & INSTRUCTIONAL DESIGN.





MACRO

MESO

MICRO

INSTITUTION/ORGANISATION

PROGRAMME/CURRICULUM

COURSE (EG. 4 ECTS-POINTS)

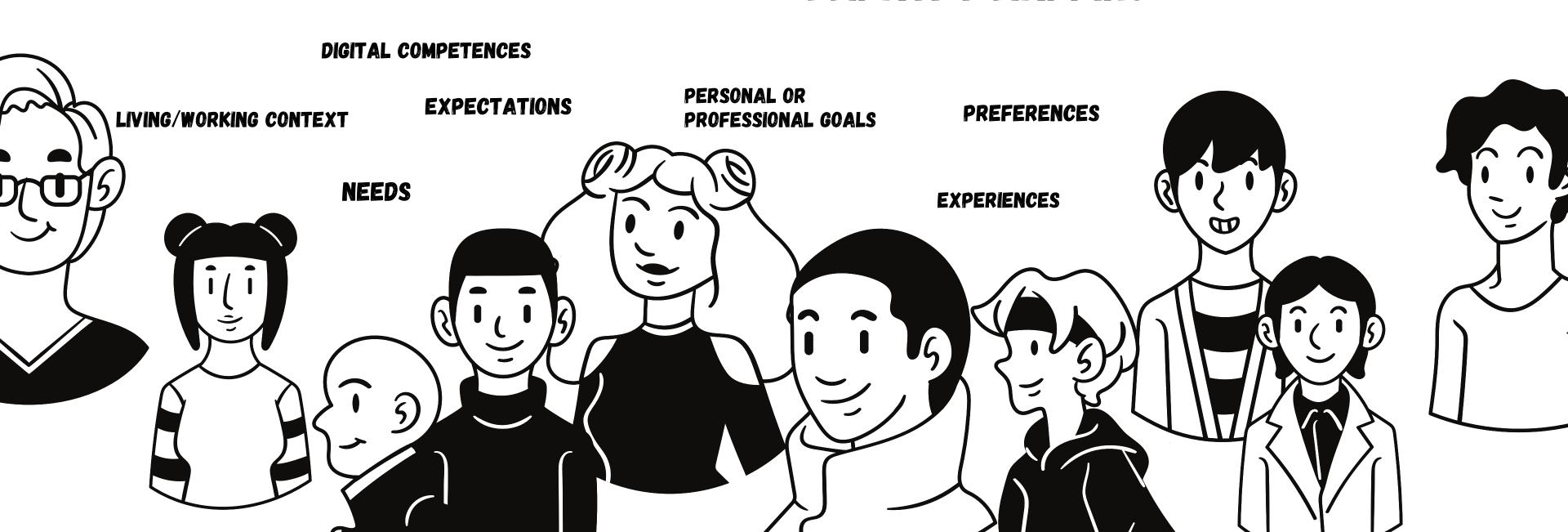
LEARNING/TEACHING
SCENARIO (MINUTES- HOURS)



1) WHAT IS AN EDUCATIONAL "PROBLEM"?

EDUCATIONAL PROBLEM? UNTERSTANDING THE TARGET GROUP!

PERSONA APPROACH EMPATHY MAPPING







Wants to keep her business during Covid19

Demographical/Psychographical Information				
Name	Susanne Huber			
Country	Austria			
Age	36			
Gender	female			
Family situation	Divorced, one daughter			
Life goals	Having a meaningful job and earning enough for her family			
Life values	It needs teamwork to create something great!			

Learning Information

Highest level of education	Master of business administration
Where does she/he find information?	Website of the Economic Chamber, peers in the Sector followed on Linkedin and Facebook, Tourism Association, newspapers, online and offline, female leaders network online, Ted talks, documentaries
Role of learning in life and for profession	Susan perceives herself as lifelong learner and active networker in the tourism community
Learning places	At home in the living room on the laptop,
Learning time	Flexible, she needs to take care of her daughter in the evenings
eLearning experiences	She once tried out a MOOC but dropped out after a few weeks
Learning interests	Digital customer relationships, new business models
Types of learning	Informally online and at work through colleagues and networking, non-formal courses at Volkshochschule and Wifi about digital working and online marketing

Professional Information					
Job description	Head and owner of a small company (3 employees)				
Years of experience	11 years				
Company	Travel Agency				
Sector	Tourism				
Digital competences	High digital competences in daily life and work				
Used devices	Does almost everything with smartphone and laptop				
Professional goals and values	 Wants to keep her company. Staying in business means lifelong learning Time is money! It needs teamwork to stay in competition. 				
How is she/he staying up to date in professional development?	She receives the newsletter of tourism section of the economic chamber She reads news regarding tourism: Newspapers online and offline, she is taking part at the Austrian Tourism Association				
Problems they will be able to solve after the LLL course	Due to Covid19, a lot of problems emerged and it is difficult to organize travels abroad. Also face-to-face contact to customers is not possible. She would like to get new ideas how to deal with this situation.				

Too long and not relevant learning units, taking too much of my time, this is frustrating!

I want to keep my travel agency in this unstable times. This is my motivation.





COMPASS Online Summer School Personas

Share a persona for your LLL course in this padlet. Rate your colleagues personas (give 1-5 stars) and give feedback to your colleagues!

Ina Vîrlan

Persona created by: Elena Iachim, TCUM

LLL Course Title: Economic informatics

About Ina:

Demographics: 42 years old, woman, She lives in Kishinev, Moldova.

Professional information:

Accounting at a firm, work experience 24 years. She usually works 40 hours per week.

Qualifications and professional development: Bachelor's degree in accounting.

Goals: She wants to know everything about accounting, to be always informed about the changes made in this field.

Hobbies: She likes room flowers, reading books.

Technology-Use: She is using computers.

Frustrations: lack of free time and she is nervous when she fails.



Kommentar hinzufügen

Daniel Rotaru

Persona created by: Savciuc Oxana (AESM)

LLL Cours Title: Management Marketing

About Daniel: 35 years old, male, married, lives in Chișinău.

Professional information: works as a mid-level specialist in marketing, has experience in field.

Qualifications: bachelors degree in economics, training courses in marketing field.

Goals: He would like to complete hes knowledge in field and to be advanced or to find a new job.

Hobbies: he like reading books, travelling, he is very dynamic and open minded person.

Technology use: he is an advanced user in IT.

Frustrations: he is afraid of to much theory and hopes for many examples and practical exercises/ applications.





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Andrei Punga

Persona created by: Svetlana Caterenciuc (TUM)

LLL Cours Title: C1 Advanced English

About Andrei: 44 years old, male, married, , lives in Chisinau.

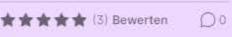
Professional information: doctor. Qualifications: PhD in medicine.

Goals: He would like to improve his communication abilities in English as he has to teach in English foreign students at the university of medicine.

Hobbies: he likes reading books, travelling.

Technology use: he is an advanced user in IT.

Frustrations: lack of time, does not like being assessed when not properly prepared.



Kommentar hinzufügen.

would like to receive knowledge in the field of educational management in physical education and sports.



Cerlat Alexandr

在第一人的变形,但这个人的感觉,我们就是被人的心态,我们也不知识的人的,我们就是这个人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人



Persona created by Artur Lescu (SUPES, Chisinău) LLL Course Title: Educational Management

About Alexandr: 31 years old, male, single, lives in Chisinău.

Professional information: designer.

Qualification: licensed in management.

Goals: wants to learn something relevant for his daily job.

Hobbies: he likes working in his yard, travelling.

Technology use: he is an

Angela Lisnic

Persona created by Tatiana Chiriac (IPSU)

Course title: Application of Web Services in Teaching-Learning of Socio-Human Disciplines

About Angela:

- Demographics: female, 53 years old, living in a flat in the center of Chisinau, has a house in Soroca.
- Professional information: associate professor, author and coordinator of a Master degree study program. She is usually working around 50h per week.
- Qualifications: PhD in History.
- · Goals: She would like to improve the digital competences of teachers of socio-human disciplines in the context of continuous formation courses.
- Hobbies: She likes to read, watch and analyse historical books and movies. She likes also to prepare food, especially eggplant delicious. She is a very dynamic, curious

Giju Stela

Persona created by: Teleman Angela **UPSC**

LLL Cours Title: Investigative learning

About Stela

- · Demographics: 49 years old, woman, married, 2 children. She lives in Chişinău.
- Professional information: She has been an associate professor for more than 20
- years. She usually works around 30 hours a week
- · Qualifications: Bachelor's degree in Biological Sciences
- . Goals: She would like to complete her knowledge of learning through investigation. How to apply this type of learning in the context of the new curriculum for preschoolers and primary school students.
- · Professional motivations: achievements at work, career creation, reward.
- . Hobbies: She is interested in

Helen Babara



Persona created by Aurelia Betivu, USARB

LLL Cours Title: Pedagogy of emotional culture

Demographic details

AGE: 35 years old **GENDER:** female

STATUS: married, mother of three

children

LOCATION: Drochia, RM

Professional OCCUPATION: primary school

teacher

QUALIFICATION: Bachelor's degree in Educational Sciences

GOALS & TASKS:

- to grow in professional career;
- to archive the highest degree;
- · to avoid teacher burnout;
- · to create an online class;

Spends her work time on:

· classroom instruction:







WHAT IS THE EDUCATIONAL PROBLEM?

What is the educational "problem" you want to adress?

Integrating transversal skills and competences in the curriculum

What is really important for their future work communication skills, language skills, responsibility, acceptance, etc.

Encourage the integration of research infrastructures in the curriculum.

communication needs which are vital for young adults living in a post-globalised world

Meta-skills: Students learn to take responsibility of their own learning and progress (first-year course in university)

Combine transversal skills actively with disciplinary knowledge (e.g. project-work, problem-based learning). Make transversal skills visible through separate learning outcomes, so students can perceive themselves as capable and can further elaborate their transversal skills

in fact, the problem is disinterest and disengagement with education!

A target group and context analysis can help to understand how to spark interest and engagement

Obtain the mandatory credits

In this case, the assessment is the curriculum for students. Constructive alignment is key.

Specific requirements in job offers

Pretty motivating for students, usually. Addressing this in the leaming outcomes is important.

What should students be ablet to do after the learning phase? Is it applying? Or is it a bit more than that? Analyzing, evaluating.

creating?

Sounds like students should apply skills Learn how corpus By solving small research tools work practical research and discover how questions with they can be used in simple-enough order to study & tools, start learning solve small research how the scientific questions in research process linguistics or related works in practice fields

aiming at providing with skills to improve academic writing individually, after finishing the course

consciousness about the importance of cultural diversity and how to develop an intercultural competence

Get some experience in peer reviewing the work of fellow students

What should students be able to do after a learning phase? "Awareness" is a bit vague, also "overview"

"Use of" sounds like "applying"

Sounds like students should remember and/or understand

Overview of models. strategies and tools that they can / should adopt for creating digital language resources for their projects

Awareness of and use of **EOSC services** and resources in research

2) WHAT IS A GOOD "LEARNING DESIGN"?

AND HOW TO CHOOSE DIGITAL TOOLS WISELY

INSTRUCTIONAL DESIGN

The goal of instructional design (learning design) is to improve learning and teaching through the use of media.

(Kerres 1999)





ROADMAP TO SUCCESS

Target group analysis

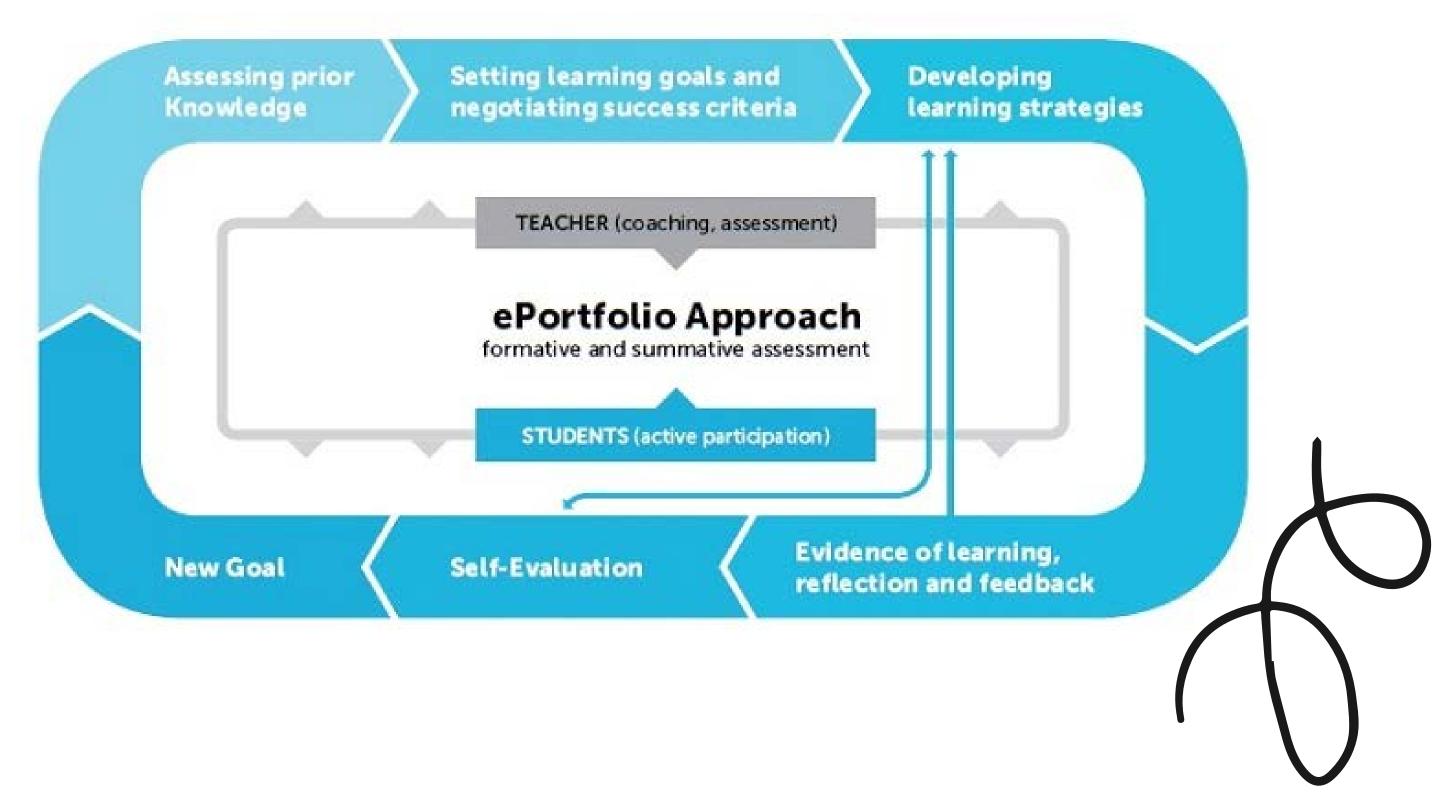
Learning outcomes

Learning activities & tools

Assessment activities & Tools

(Biggs & Tang, 2011)

A LEARNER-CENTRED PERSPECTIVE



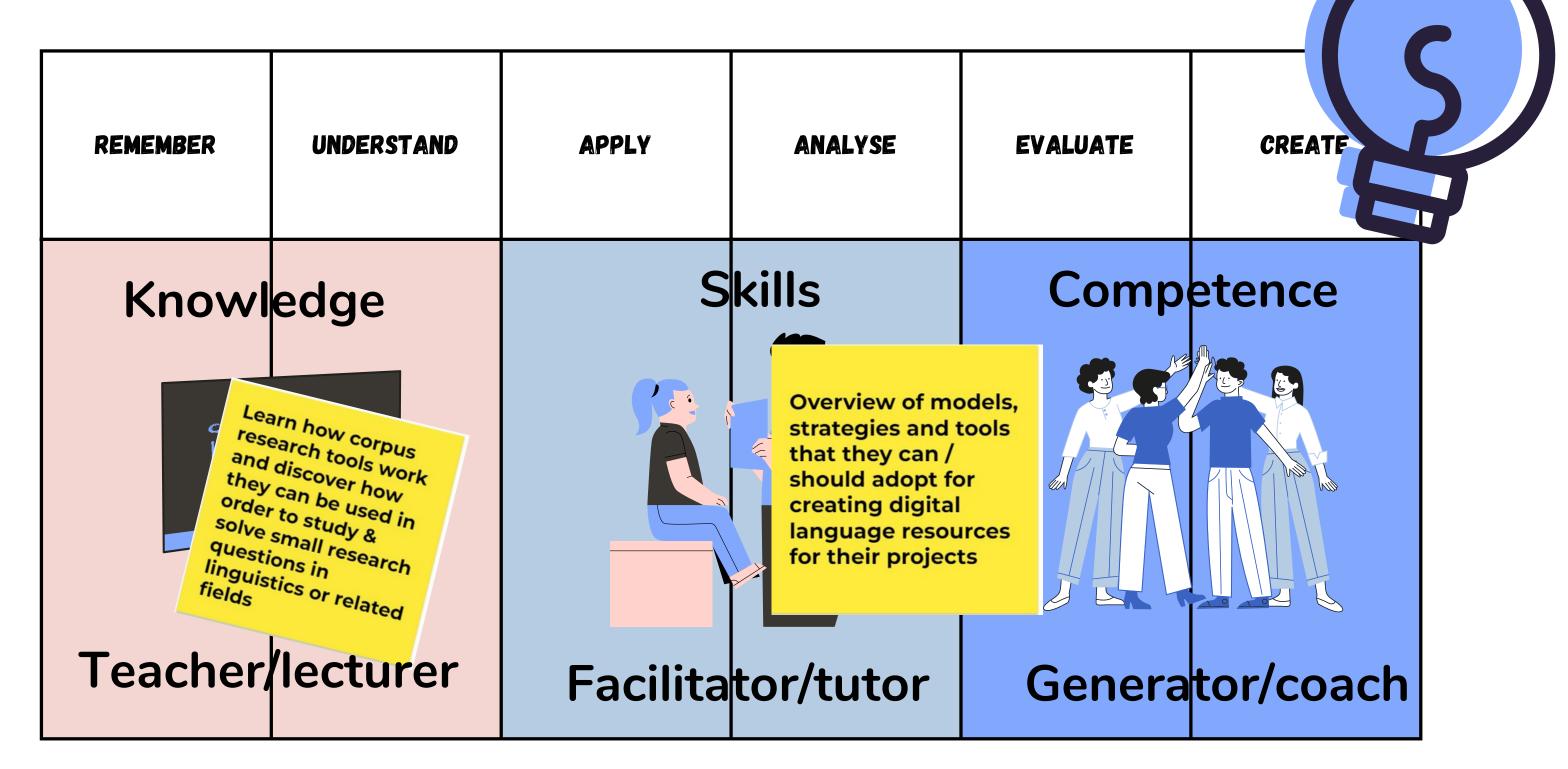
TAXONOMY OF COGNITIVE PROCESSES

REMEMBER	UNDERSTAND	APPLY	ANALYSE	EVALUATE	CREATE
Knowl	edge	S	kills	Comp	etence
Teacher	lecturer	Facilita	tor/tutor	Genera	tor/coach

EVALUATING A COMPETENCE FRAMEWORK FOR DIGITAL COMPETENCE

Know- ledge	Cognitive Processes						
	Remember (1)	Under- stand (2)	Apply (3)	Analyze (4)	Evaluate (5)	Create (6)	
Facts (A)	15						
Concepts (B)	•	• 7 • • •	3		•		
Proce- dures (C)			38/			7 •	
Meta- cognitive (D)	V	gl. Peter Baumgartner (2017):	Module3 Presentation Slid	des. For the VALERU Project	i.		

WHICH COGNITIVE PROCESSES DOES YOUR EDUCATIONAL PROBLEM ADDRESS?

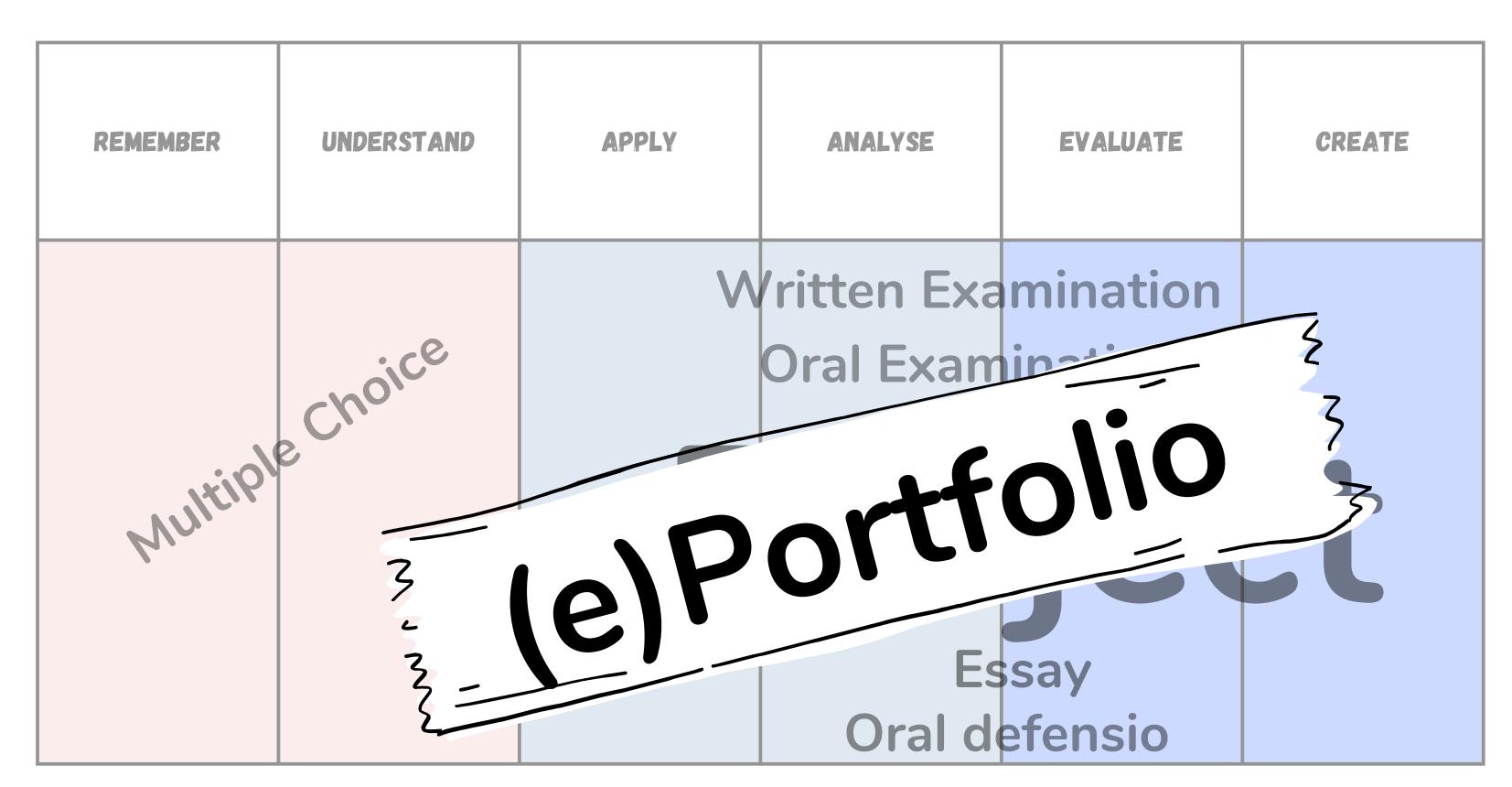


THINKING ABOUT LEARNING & ASSESSMENT ACTIVITIES

REMEMBER	UNDERSTAND	APPLY	ANALYSE	EVALUATE	CREATE
MultiP	choice		ritten Example of Example of Control of Cont		

(based on Baumgartner 2016 as well as Anderson & Krathwohl 2002)

THINKING ABOUT LEARNING & ASSESSMENT ACTIVITIES



THINKING ABOUT LEARNING & ASSESSMENT ACTIVITIES



(based on the stner 2016 as well

tner 2016 as well as Anderson & Krathwohl 2002)

INSTRUCTIONAL DESIGN AND EDTECH

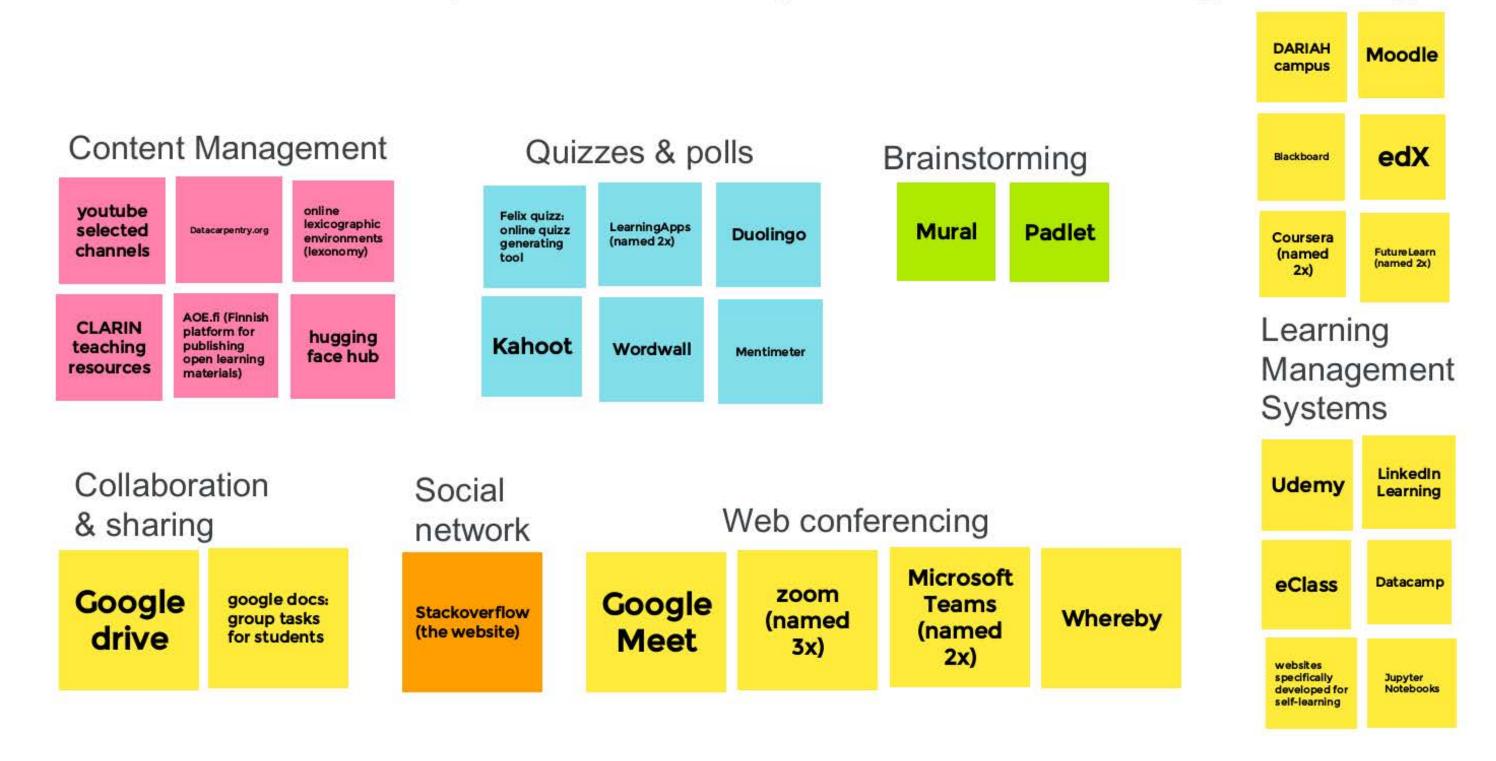


MOST EFFECTIVE WHEN ALIGNED

Based on a learning design we can identify the requirements of digital resources, tools and platforms. But it could also be the other way around...

QUICK REMINDER

Which tools and platforms have you used for learning/teaching?

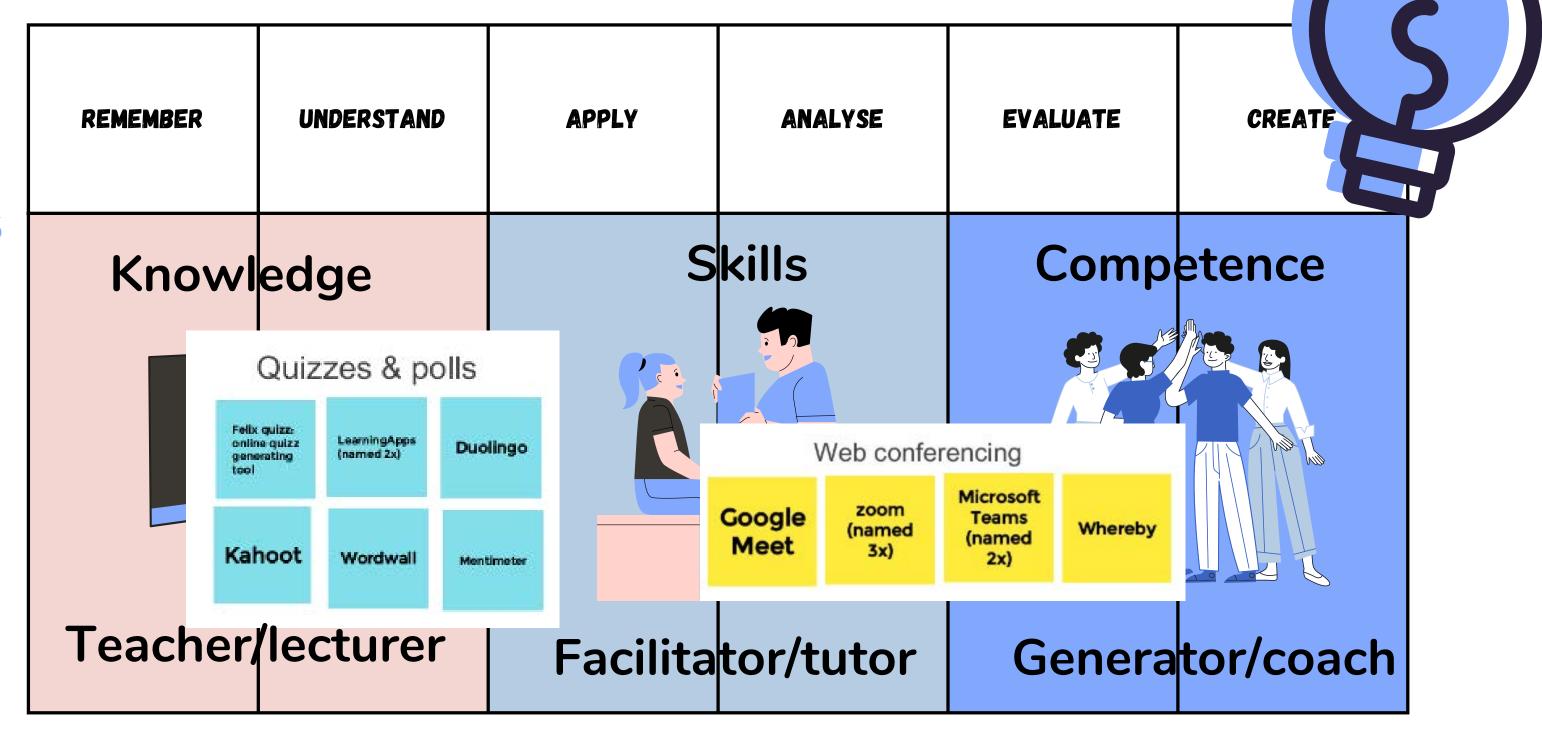


WHICH DIGITAL TOOLS TO CHOOSE FOR SUPPORTING THE

DESIRED COGNITIVE PROCESS?



Depends on what you are actually doing with the tools!



CHALLENGES OF DESIGNING FOR ONLINE LEARNING

...and suggestions how to tackle them!





MEDIA APPROPRIATION

How are media appropriated for communication processes? Are the chosen media fit for the communication purpose?



"I FEEL UNCOMFORTABLE IN **SOCIAL NETWORKS."**



"I PREFER TEXT-MESSAGES OVER RECORDED AUDIO-MESSAGES"

"I HATE PHONE CALLS."

"ALL MY FRIENDS USE SNAPCHAP"



(Dennis, Fuller & Valacich, 2008)

TACIT KNOWLEDGE OF TEACHERS AND LEARNERS

Traditional learning designs + Zoom = Learning success?







ZOOM FATIGUE

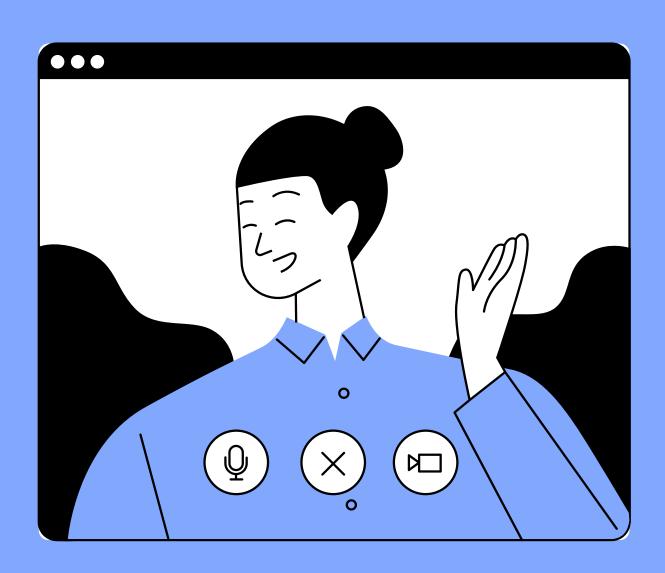
Tired of learning.



8 HOURS OF ZOOM?



Which communication activities should be synchronous, which should be asynchronous?



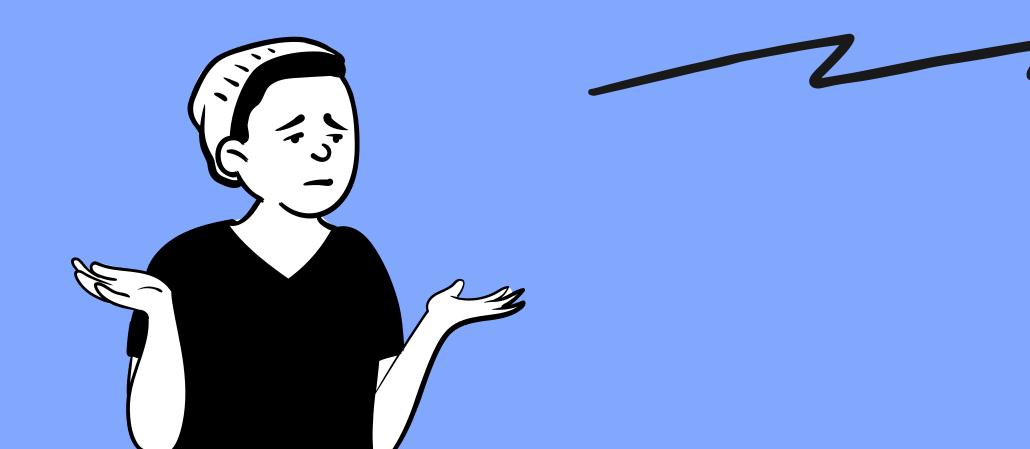
bit.ly/mediasynchronicity

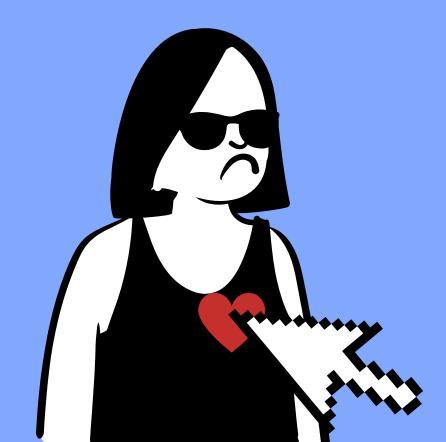




FEELING DISCONNECTED

Building relationships online? Is that possible?

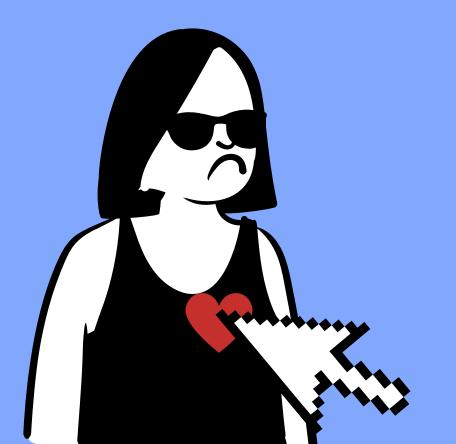


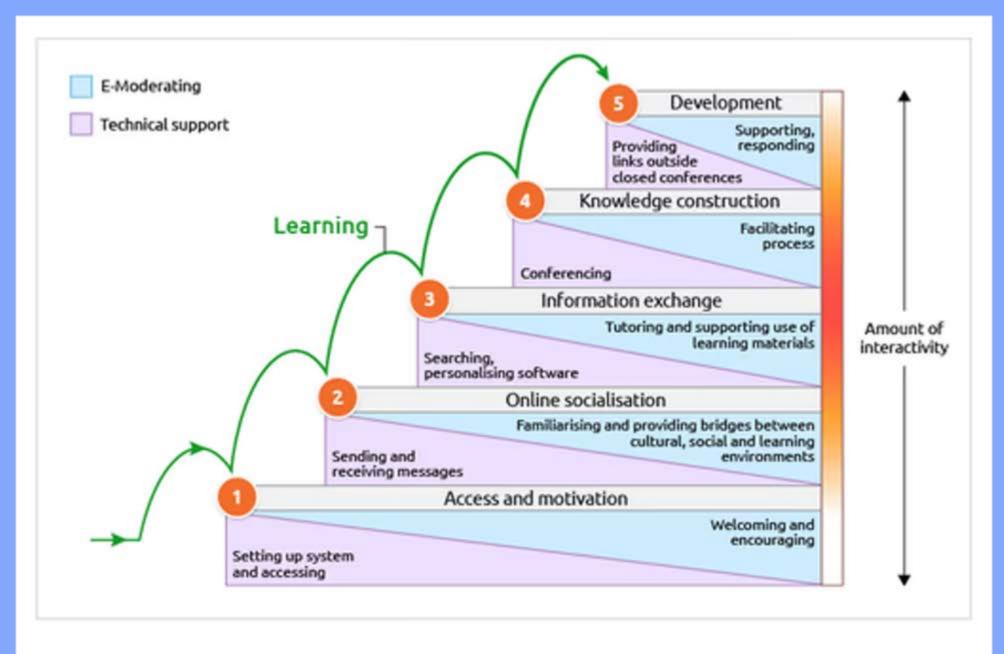


ONLINE SOCIALIZATION

Gilly Salmon's 5 Stages Model

Improve skills in written, audio and video communication





Five Stage Model

Update video for the 5 stage model for 2022 and beyond. Click here.

W Gilly Salmon

KREMS, 3RD OF MAI

EXPLORING THE POTENTIAL OF DIGITAL TOOLS FOR LEARNING

ISABELL GRUNDSCHOBER ISABELLGRU.EU

CLARIN Café EdTech Tools

A link collection for all the tools used during the CLARIN Café "Exploring the Potential of Digital Tools fo Learning" on the 3rd of March.



w Wakelet

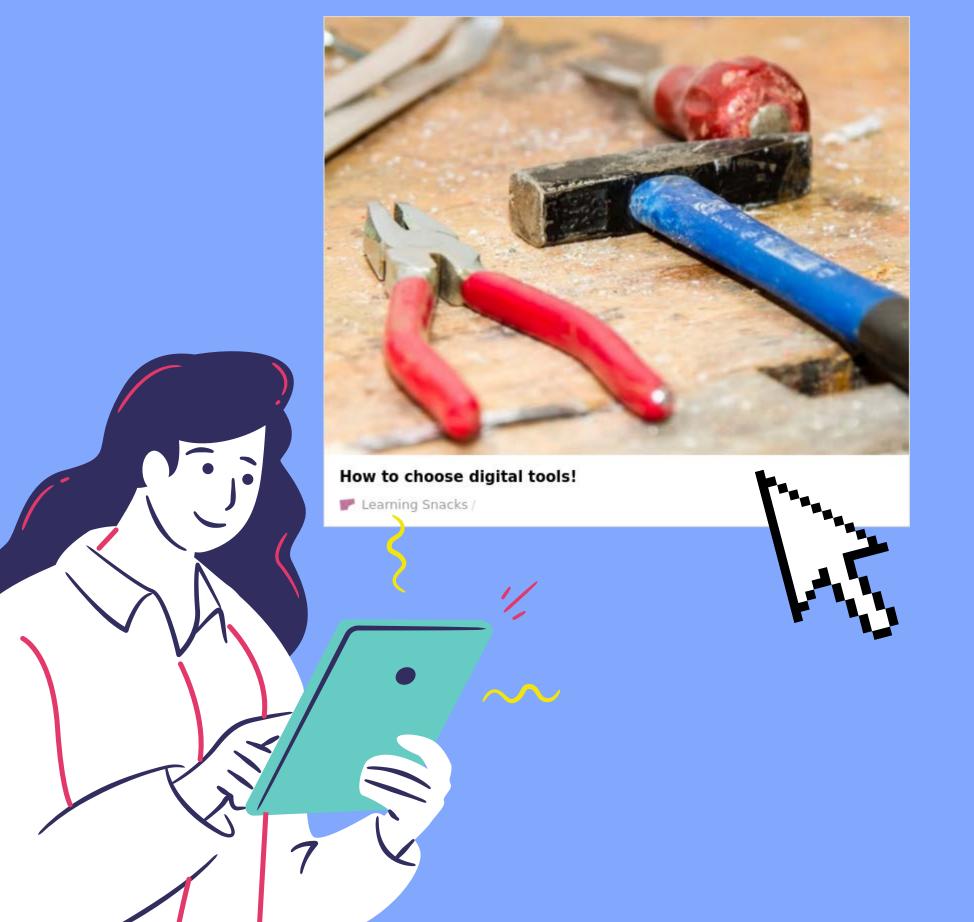
PRACTICAL EXAMPLES

A list of practical examples on wakelet

LEARNING SNACKS

"How to choose digital tools?"

A brief summary of what we did in this workshop and a practical example of a tool to support the cognitive processes "remember" and "understand" through microlearning.



Isabell Grundschober, BSc, BEd, MA

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@isabellgru











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A link collection for all the tools used during the CLARIN Café "Exploring the Potential of Digital Tools for Learning" on the 3rd of March.



Practical example: Microlearning on "Learning Snacks", topic: "How to choose digital tools!"

learningsnacks.de

This is an example for microlearning on "Learning Snacks", supporting cognitive processes "remember" and "understand".



Learning Snacks

learningsnacks.de

Microlearning to support cognitive processes "remember", "understand" and "apply". Depending on the task, you might also reach higher cognitive processes.



Practical example: Using Padlet for Establishing Connections and Relationships online

padlet.org

Padlet is easy to use and perfect to show a piece of yourself, but without feeling very uncomfortable. I created a task for a project meeting that should have taken place in Krems, Austria. I shared a traditional Austrian



Practical Example: Using padlet as a showcase room/ showcase portfolio for students' artefacts

padlet.org

When students are working on a project or a problem for a while, give them an online room where they can present their findings and be proud of what they have achieved. Padlet is easy and useful for this.



Padlet: Digital Board

padlet.com

Great to include different kinds of media, easy to use. I love to use it e.g. for introductions for workshop participants or students, but also it is very useful as a showcase room for students' learning artefacts.

Practical Example: A Moodle Course for an Online Summer School for Moldovan Lecturers,

see youtube link below.

I worked with colleagues at the University of Barcelona and we created interactive booklets in Articulate Rise and integrated them in the Moodle course. There were no synchronous sessions, except for the feedback session on the students' final assignments. The workload was rather low, I recall no more than 25 hours all in all for the whole course. There were a lot of communication and exchange tasks. The course was for Moldovan lectures from approx. 10 universities in Moldova.



Starting the COMPASS Online Summer School

YouTube

For the COMPASS project, an Erasmus+ project, I have created, together with my colleagues from the university of Barcelona, an Online Summer School as a respon...



Practical example: DigiCulTS Learning Platform

digicults.eu

A Learning Platform for small and medium-sized companies in Europe: openly licensed, no registration necessary, free, flexible, self-paced, no cohort-learning but still supporting exchange among learners in



Google Jamboard: collaborative digital board, easy for starters

G Google

Free use with google account, students don't need a google account to work with it, easy to use (limited functions), good for groups when digital competence is not clear and you have only a limited time with them (e.g.



Practical Example: Course Authoring with **Articulate Rise**



articulate.com

This is an example of a course in the "COMPASS Online Summer School", where we created interactive booklets with Articulate Rise.



Rise 360: Content Authoring

articulate.com

Rise 360 supports you to create fully-responsive interactive booklets (or courses) right in your web browser. Rise 360 is included in Articulate 360 subscriptions. I use the tool for fast course authoring. It combines all



Practical Examples: Presentation slides on Canva



Here you can find the workshop slides as an example how to work with Canva. Canva provides many icons and pictures (freely licenced) and allows to embed links.



Canva: Simple Graphic Design Software

C Canva

Very nice templates, interactive, embedding possible. Simpler than PPT if you want to create interactive and appealing presentations or videos. Freemium version is enough to create nice content.

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