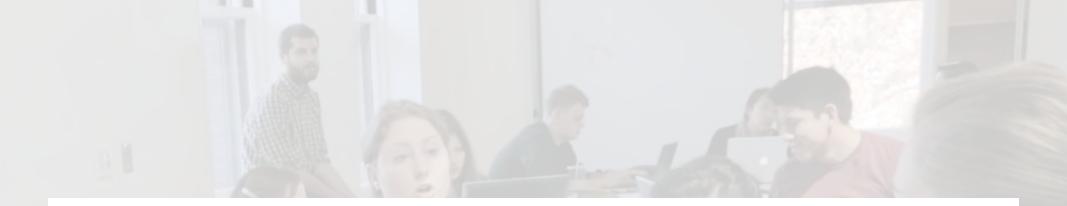
How to flip your class online, when the world is flipping out



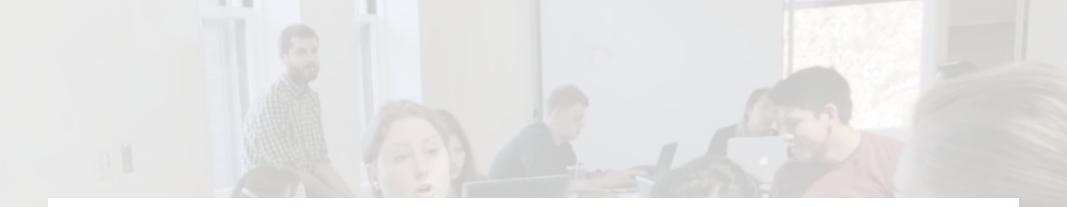
A hands/brains-on demo May 4, 2020

75-student team & project based class!



information transfer

sense-making



campus

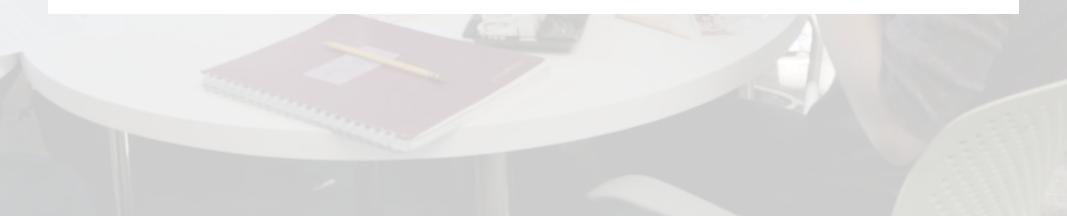
information transfer

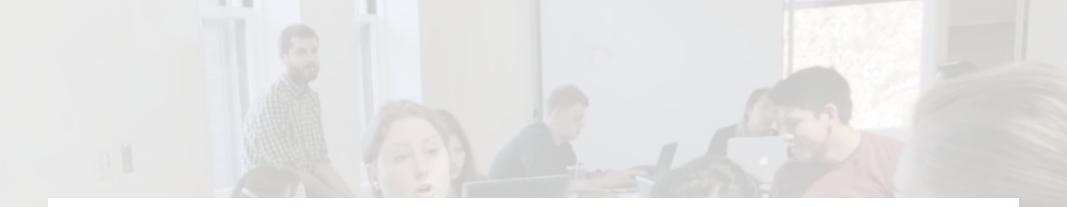
instructor-paced synchronous lecture

home

sense-making

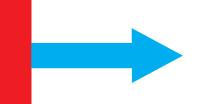
self-paced asynchronous home work/study



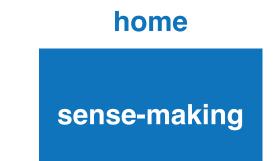




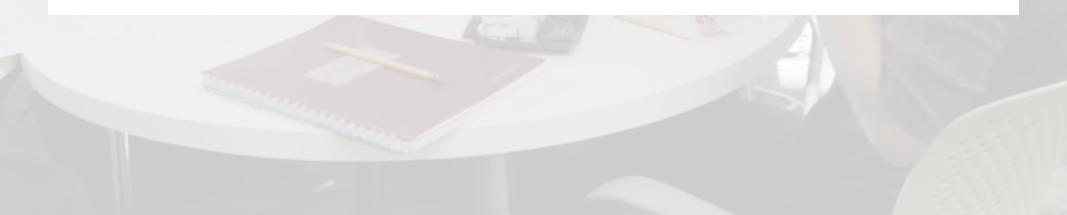
information transfer

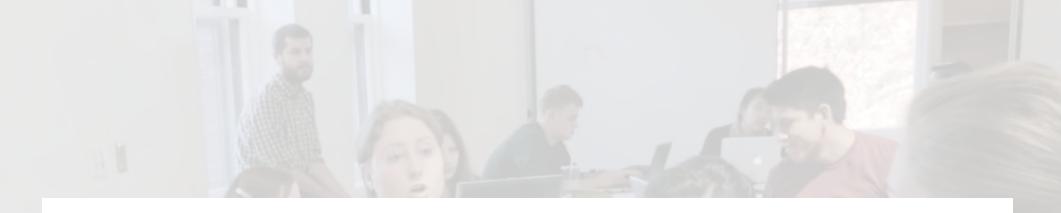


instructor-paced synchronous lecture

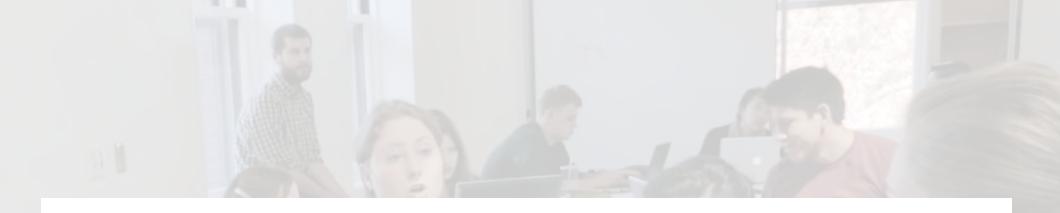


self-paced asynchronous home work/study

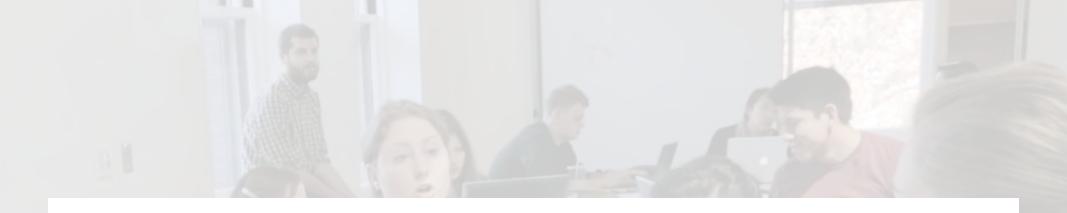




campus	home	home
information transfer	information transfer	sense-making
instructor-paced synchronous lecture	instructor-paced synchronous online lecture	self-paced asynchronous home work/study



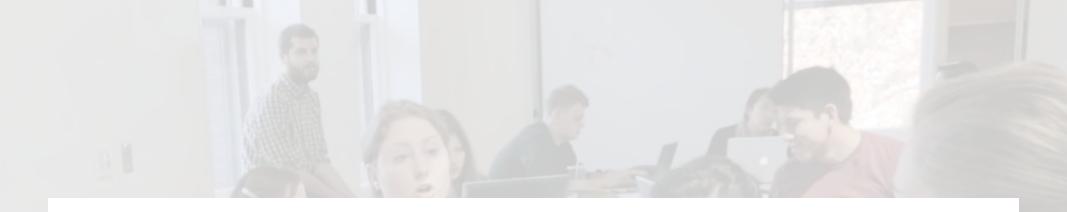
campus	home	home
	information transfer	sense-making
instructor-paced synchronous lecture	instructor-paced asynchronous recorded lecture	self-paced asynchronous home work/study

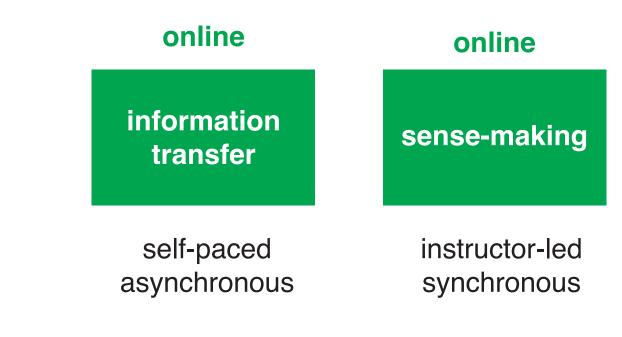


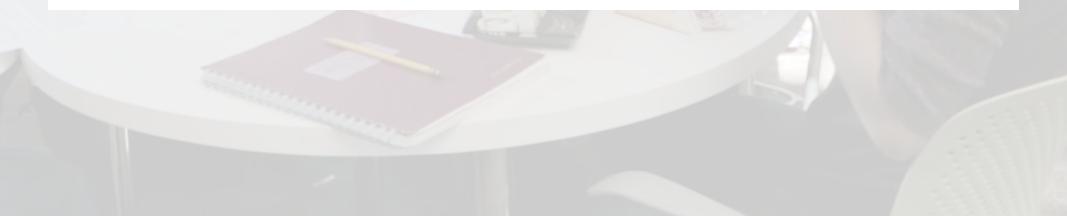
campus

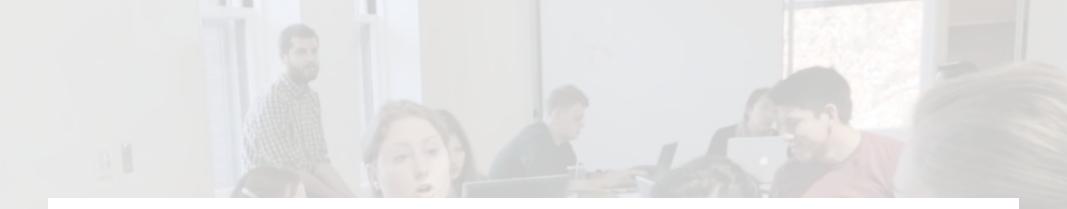
information transfer

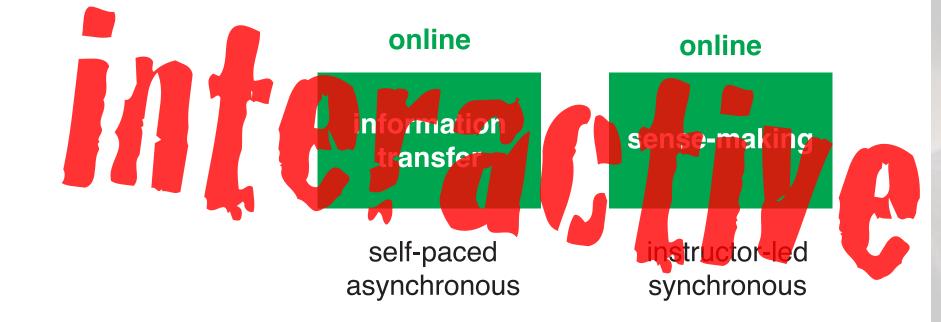
instructor-paced synchronous lecture home home home home self-paced asynchronous recorded lecture

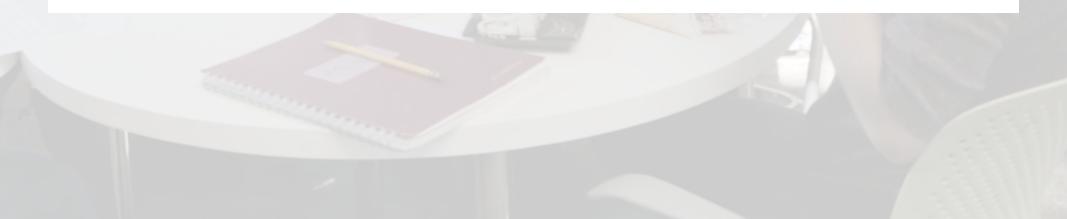


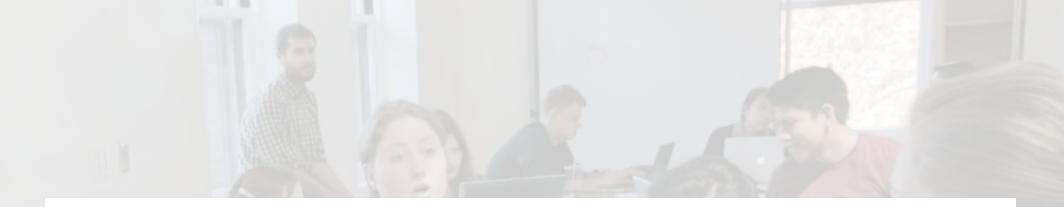


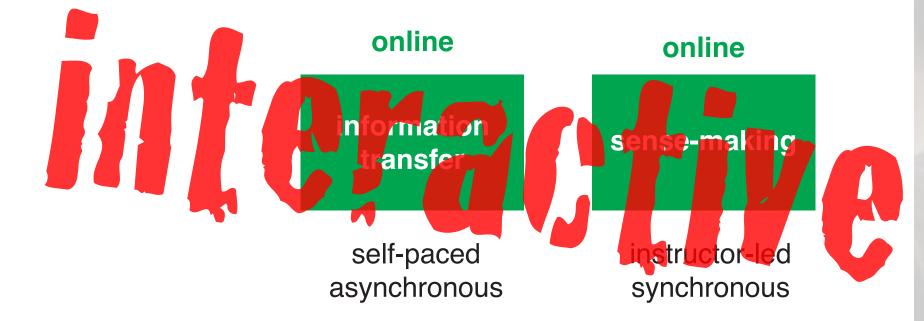






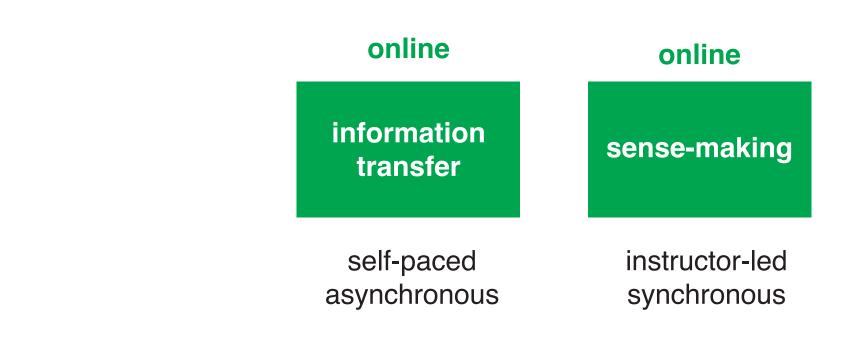


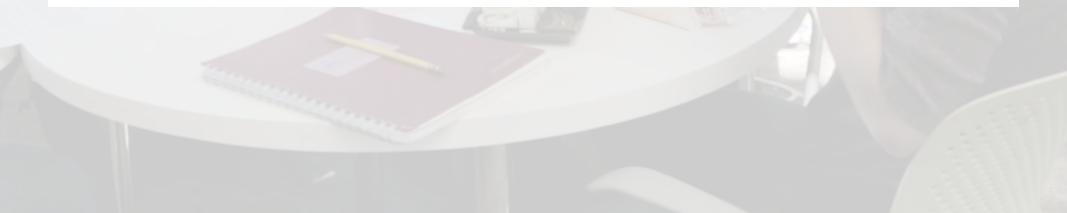




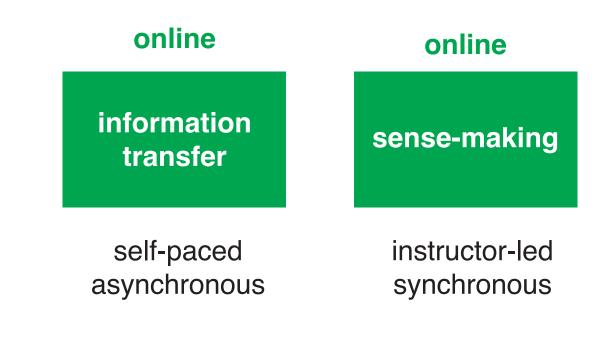
two evidence-based approaches

let's explore these two steps





let's explore these two steps



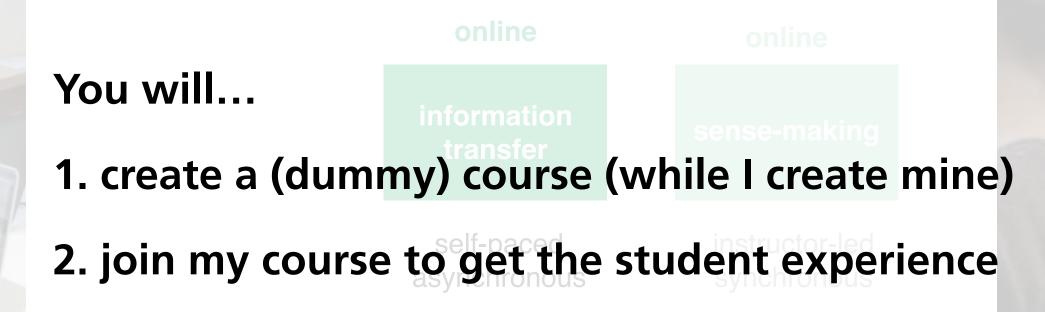
(using two free tools)







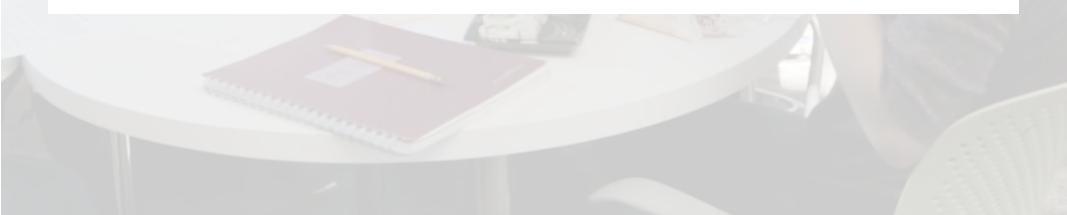
takes information transfer out of classroom



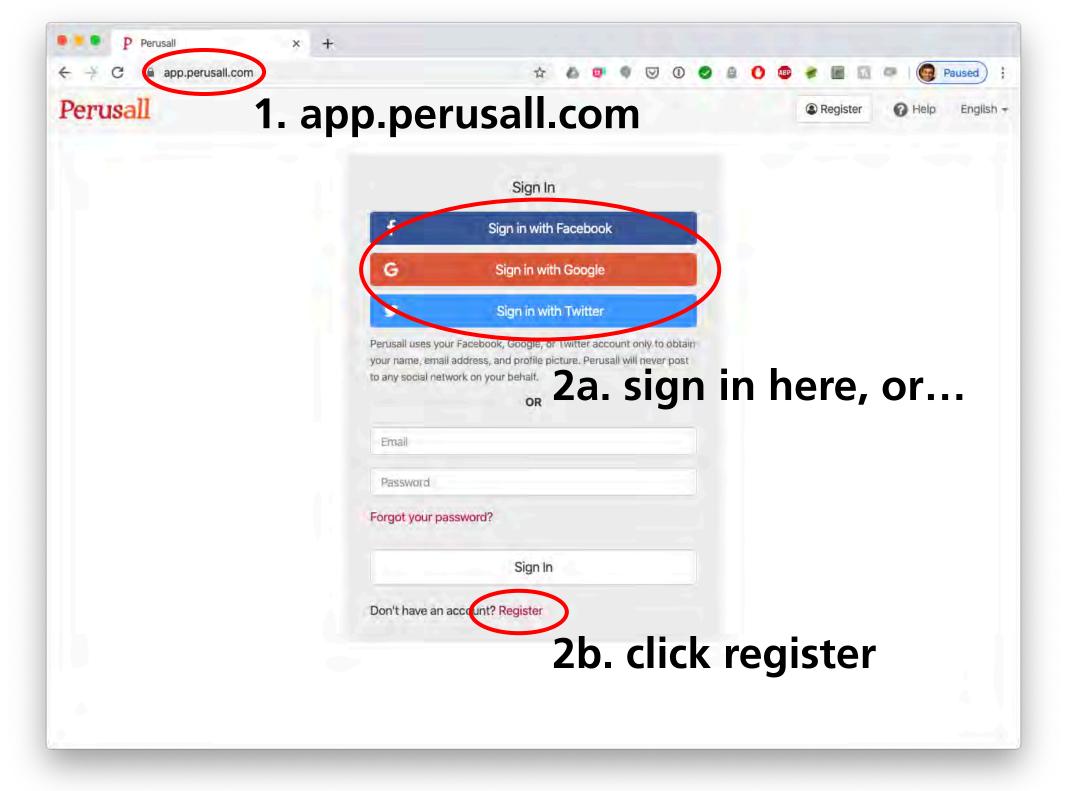
in your browser go to: app.perusall.com if you have an account, log in, then wait

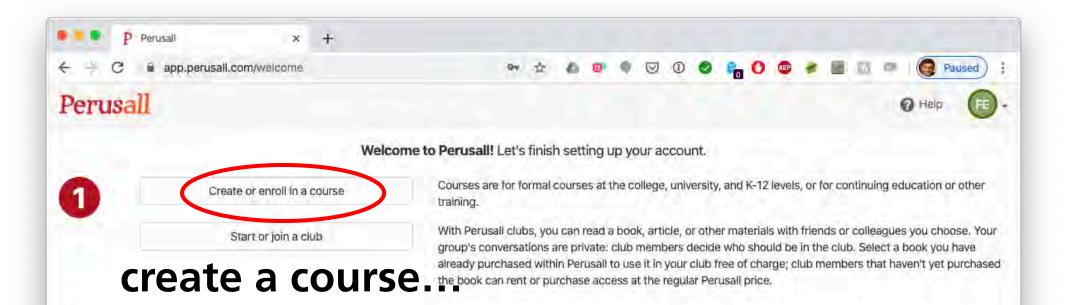
self-paced asynchronous

instructor-led synchronous



in your browser go to: app.perusall.com if you have an account, log in, then wait if you don't have an account, follow along





(if you logged in with existing account, click "Create course" at top left of page)

C app.perusall.com/welcome	🖄 📣 🔍 🌒 🐨 🕐 👘 🕐 📾 🔯 🖓 Paused
usall	@ Help
I am a student I am an instructor	Select "instructor" and
I want to create a course	o for students to access directly at perusall.com.
	integrated with my institution's Learning Management System.
Course name	
	Your unique course URL is based on this name. If you change the name, the URL will change.
Institution	Example Institution (Use for testing only, US)
	Type to search for your institution, and contact Perusall support if your institution is not listed.
Course start date	
Course end date	
Enrollment estimate	20
	The approximate number of students you expect to join the course. Perusall will use this value and the Target Group Size to create discussion groups for students.
Target group size	20
	Students will be placed into groups of approximately this size and will only be able to see comments and questions within the group. Changing this setting will not retroactively apply to groups that have already been formed, to provide consistency for students.
	Based on these settings, Perusall will place students into 1 discussion group(s) for each document. Discussion groups are fixed for a particular document once it is added to the course. Learn more about discussion groups

Perusall × +	
← → C i app.perusall.com/welcome	🖈 💩 🔍 🌒 🐨 🕐 😤 👫 🚺 💷 🖾 💷 🧐 Paused) ;
Perusall	@ Help
2 I am a student I am an instructor	
3 I want to create a course	o for students to access directly at perusall.com.
Course name	For students to access Your unique course URL is based on this name. If you change the name, the URL will change.
Institution	Your unique course URL is based on this name. If you change the name, the URL will change. Correctly at perusal.com
	Type to search for your institution, and contact Perusall support if your institution is not listed.
Course start date	
Course end date	
Enrollment estimate	20
	The approximate number of students you expect to join the course. Perusall will use this value and the Target Group Size to create discussion groups for students.
Target group size	20
	Students will be placed into groups of approximately this size and will only be able to see comments and questions within their group. Changing this setting will not retroactively apply to groups that have already been formed, to provide consistency for students.
	Based on these settings, Perusall will place students into 1 discussion group(s) for each document. Discussion groups are fixed for a particular document once it is added to the course. Learn more about discussion groups
Select materials	Browse our catalog of available titles

+ + 0	C 🔒 app.perusall.co	om/welcome	🚖 💩 🔍 🔍 🖸 🧶 👫 🚺 🚳 🌌 📓 🗔 🖙 🔞 Paus	sed)		
Perus	sall		Help.	•		
2	l am a student	[am an instructor				
3	I want to	o create a course	o for students to access directly at perusall.com.			
	Course name		Vermaniere en me 1001 is bered in blir mens likver de sens ble some the LDL will skonen			
			Your unique course URL is based on this name. If you change the name, the URL will change.			
	Institution	C C	Example Institution (Use for testing only, US) Type to sedick for your institution, and contact Perusall support if your institution is not listed.			
	Course start date					
	Course start date Course end date					
		te	can't find your institution? enter "Example Institution"			
	Course end date	te	can't find your institution? enter "Example Institution"	ze to		
	Course end date	te	can't find your institution? enter "Example Institution" 20 The approximate number of students you expect to join the course. Perusall will use this value and the Target Group Siz	że to		
	Course end date Enrollment estima	te	can't find your institution? enter "Example Institution" 20 The approximate number of students you expect to join the course. Perusall will use this value and the Target Group Siz create discussion groups for students.	nin the		
	Course end date Enrollment estima	te	can't find your institution? con't find your institution? content of the provide of the pr	nin the		

Why Perusall works

- social connection/interaction in context
- incentivizes/motivates participation and transfer
- machine learning analysis of engagement
 self-paced
- provides "Confusion Report" to instructor

A few notes

- Perusall is free online
- Many textbooks free until summer making transfer
- Nearly 100% reading-assignment completion
- Students using Perusall perform better

Documents you can use with Perusall

- PDF, Word, html, or ePub files (free)
- open access material (free)
- source code with syntax highlighting (free)
- books (purchased by students* or institution)

*via Perusall or through university bookstore (support@perusall.com)

Publishers offering free textbooks until summer

Broadview Press Cambridge University Press CRC Press **McFarland McGraw-Hill Education Oxford University Press Princeton University Press** Routledge SAGE Springer **Taylor & Francis University Science Books** Wiley W.W. Norton & Company



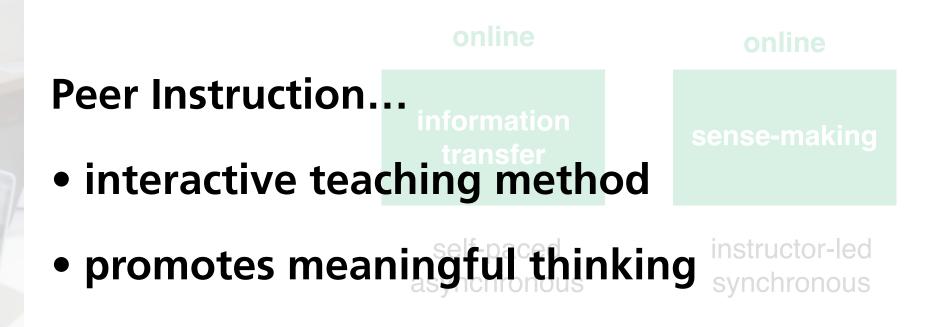


ie.e.

se-makina

uctor-led hronous

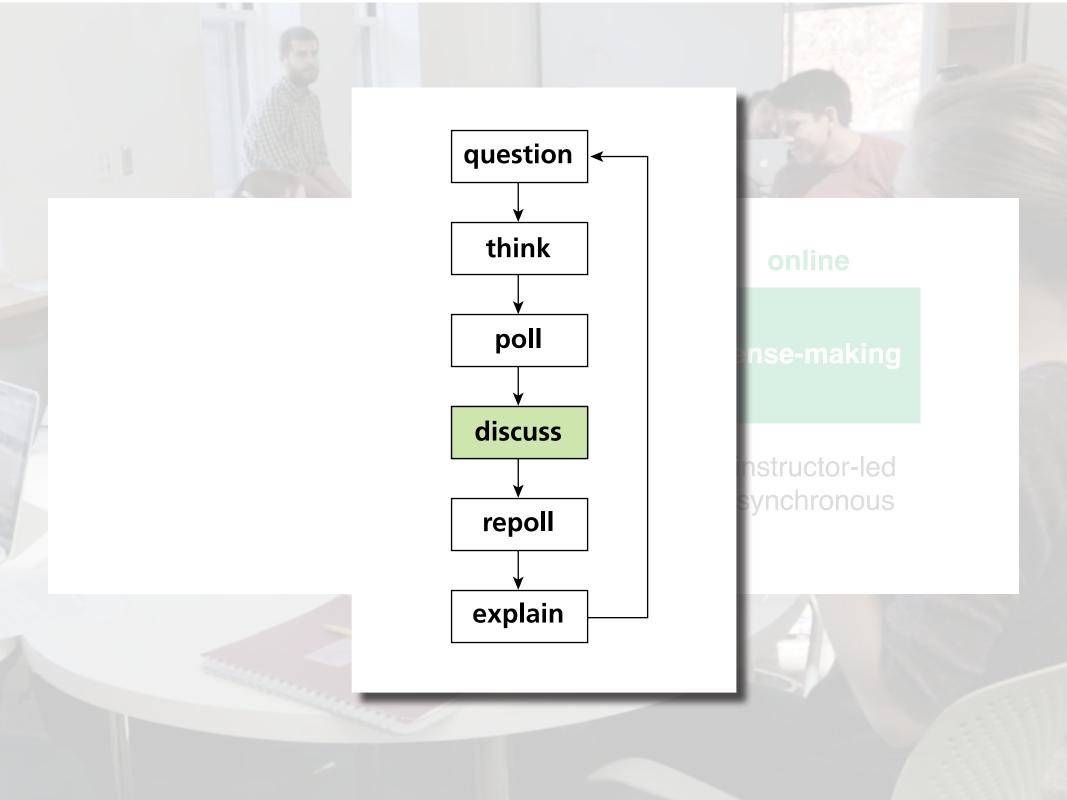
/ Manual



You will experience Peer Instruction by...

- 1. answering question individually-making
- 2. discussing question in breakout rooms
 3. reanswering question





Why Peer Instruction works

- engages students to think
- individualizes learning
- students use similar discourse

online

sense-making

helps avoid the "expert blind spot"

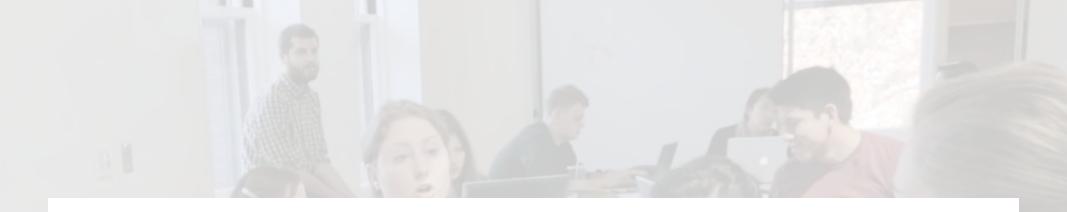
A few notes

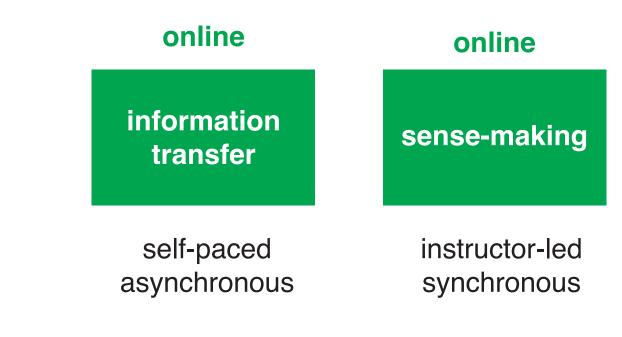
Peer Instruction... online

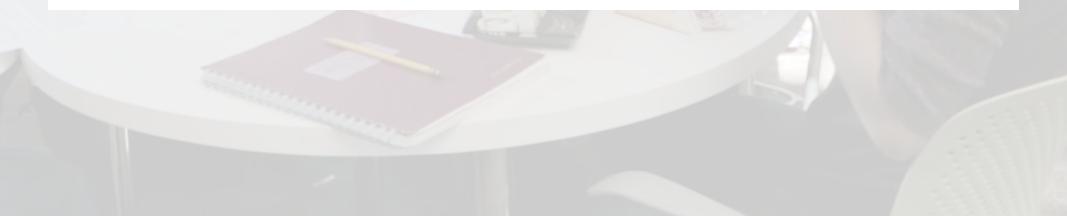
online

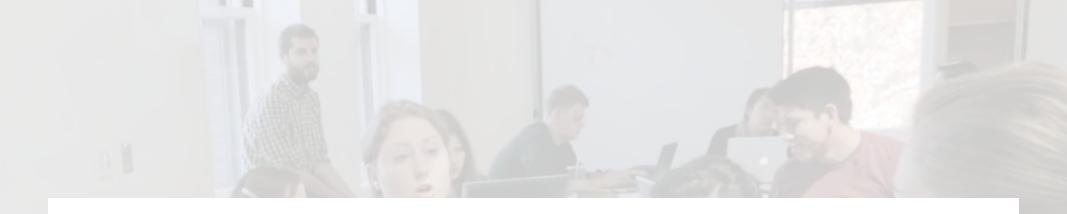
- greatly improves learning outcomes
- actively engages students online
- integrates with Perusall

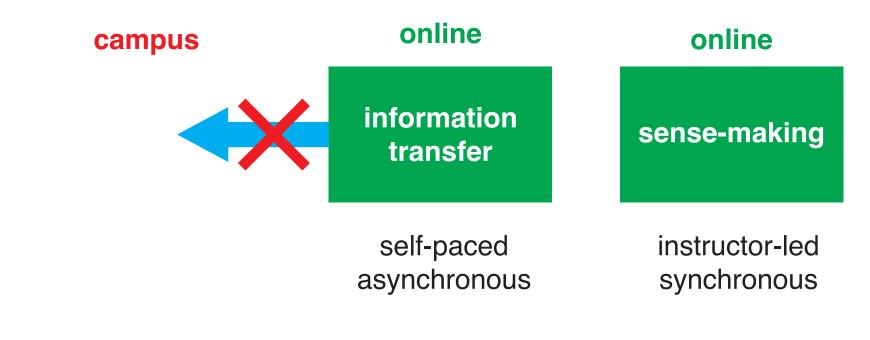
instructor-led synchronous



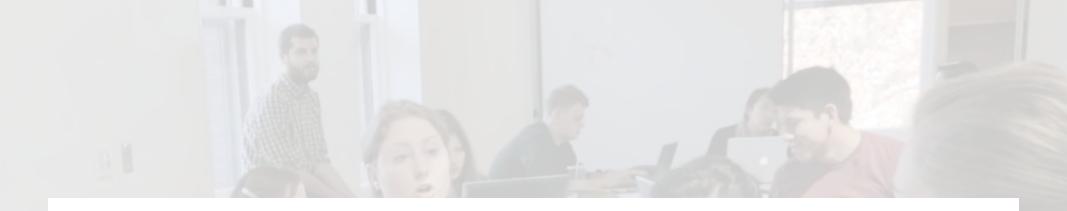


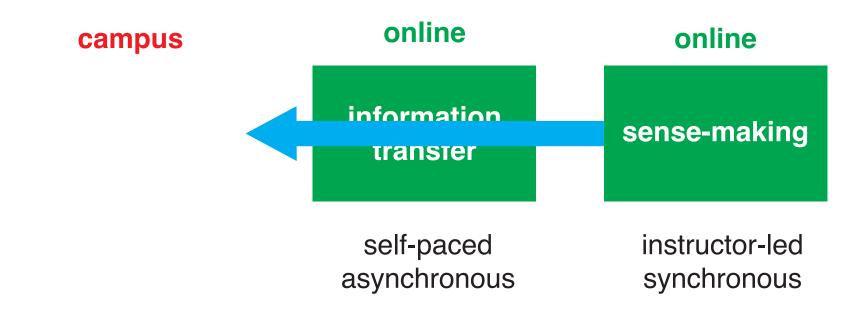


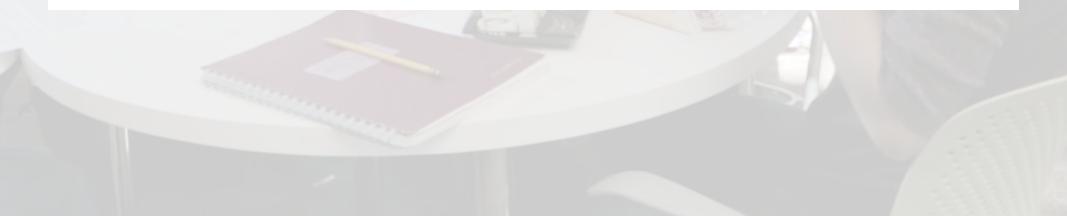


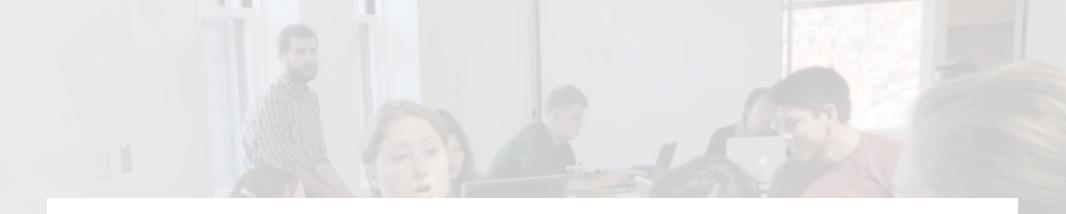


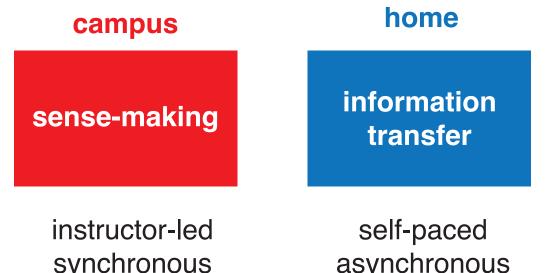








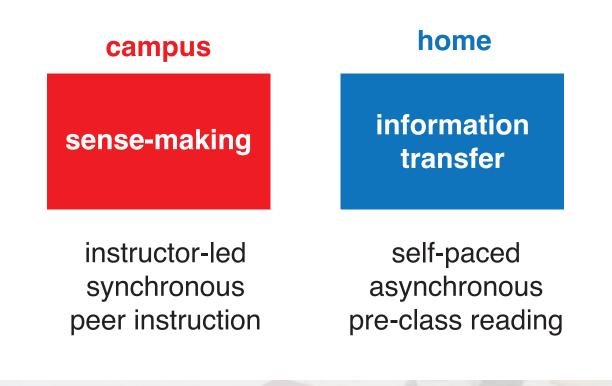




synchronous peer instruction

asynchronous pre-class reading

Compare with the "old" approach



Compare with the "old" approach

campus

information transfer

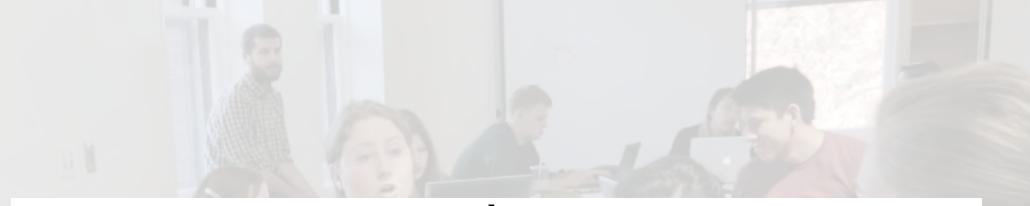
instructor-paced synchronous lecture

home

sense-making

self-paced asynchronous home work/study





projects

tutorials

sense-making

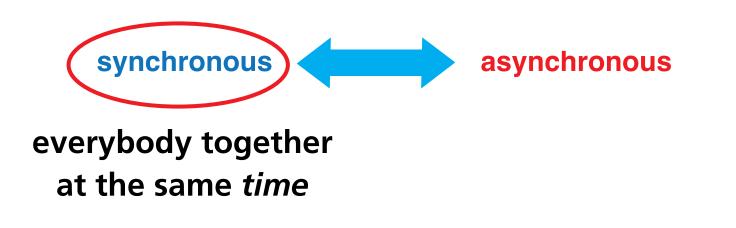
experimental activities

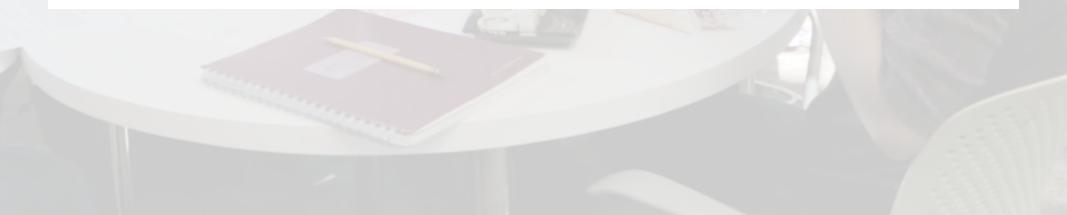
instructor-led synchronous peer instruction

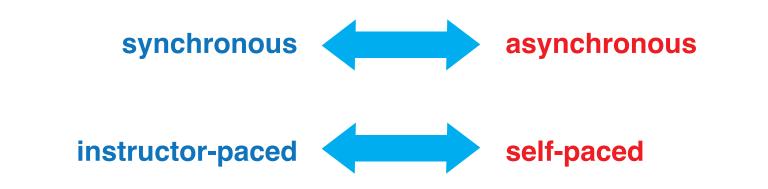
problem sets pre-class reading assessment

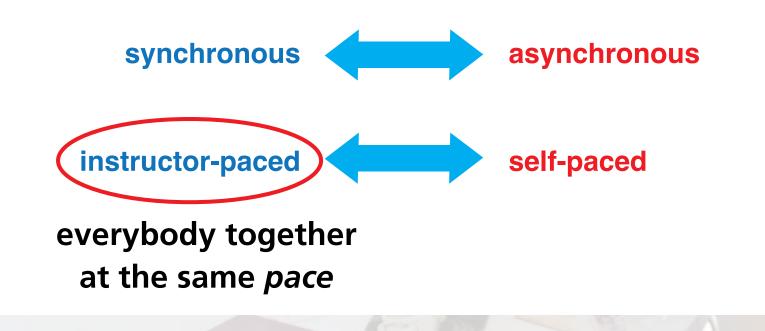


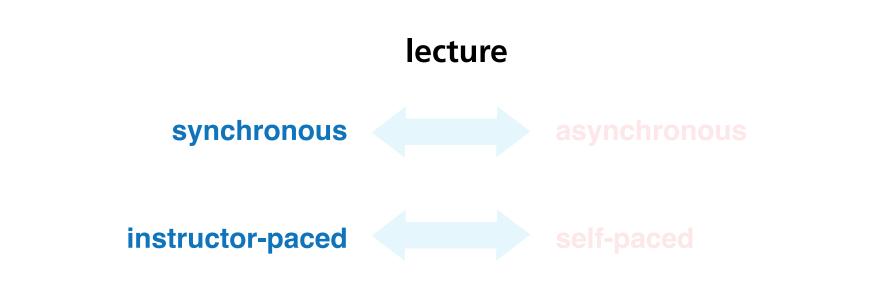












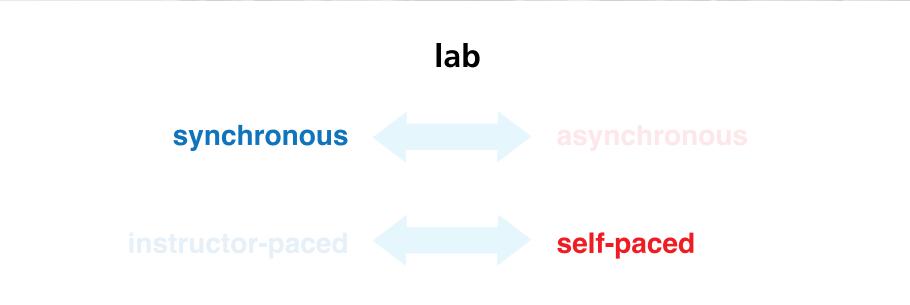
recorded lecture

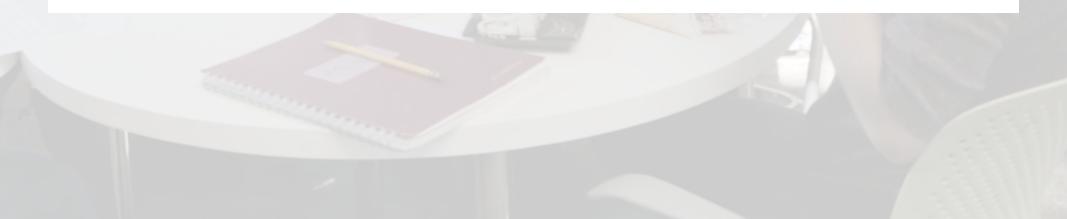
synchronous

asynchronous

instructor-paced

self-paced





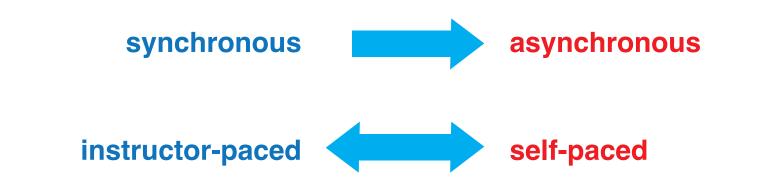


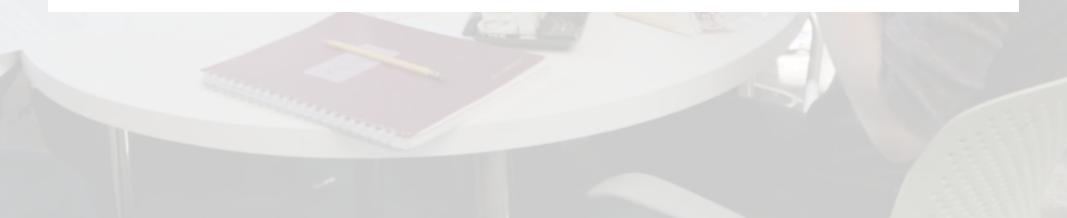
synchronous

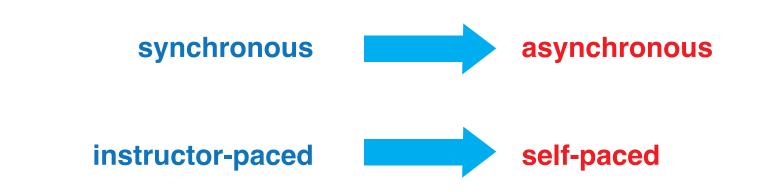
asynchronous

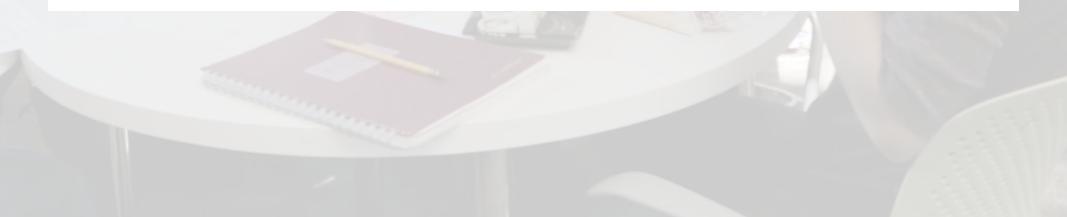
instructor-paced

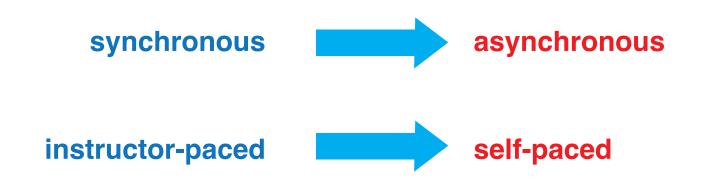
self-paced











more time to help students where it really matters! Please help spread the word!

calendly.com/ericmazur/fliponline

(tell your colleagues and tweet)

Follow me!



@eric_mazur

for a copy of this presentation:

mazur.harvard.edu

resource sheet: bit.ly/fliponline



