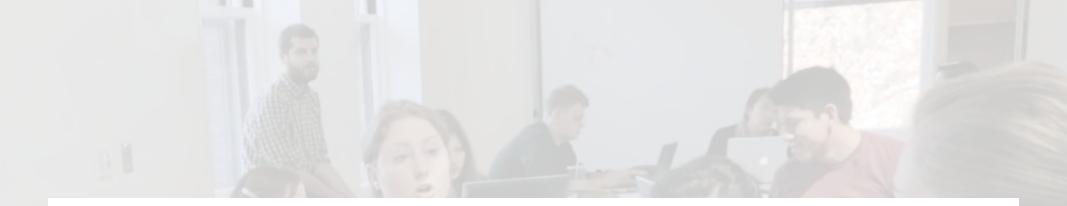
### How to flip your class online, when the world is flipping out



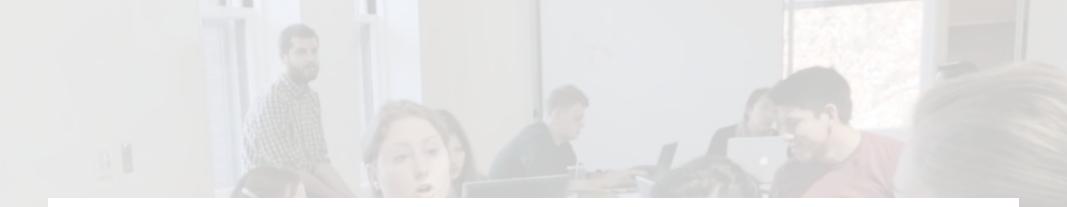
A hands/brains-on demo May 1 2020

### 75-student team & project based class!



information transfer

### sense-making



#### campus

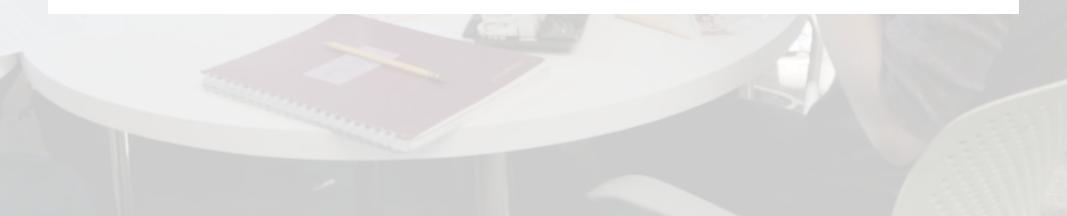
information transfer

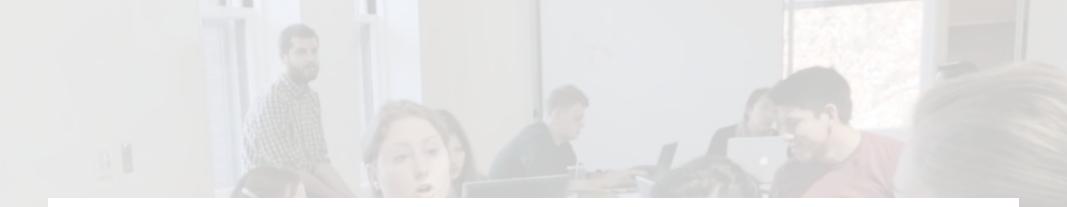
instructor-paced synchronous lecture

### home

sense-making

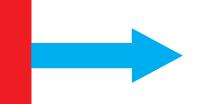
self-paced asynchronous home work/study



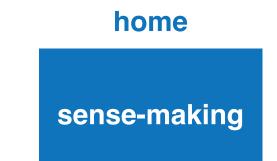




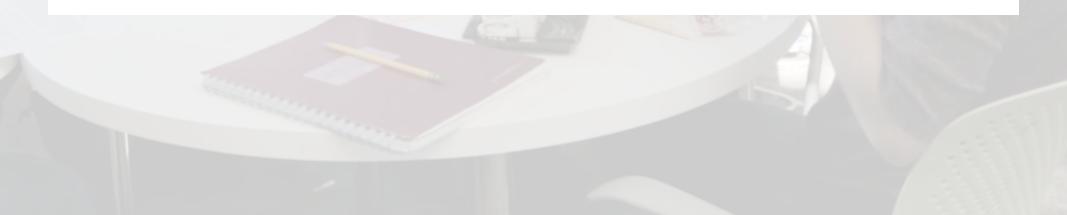
information transfer

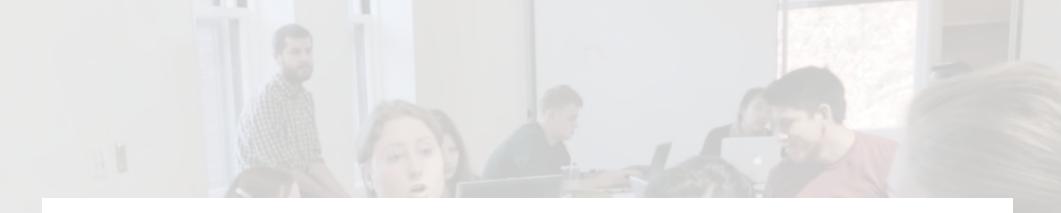


instructor-paced synchronous lecture

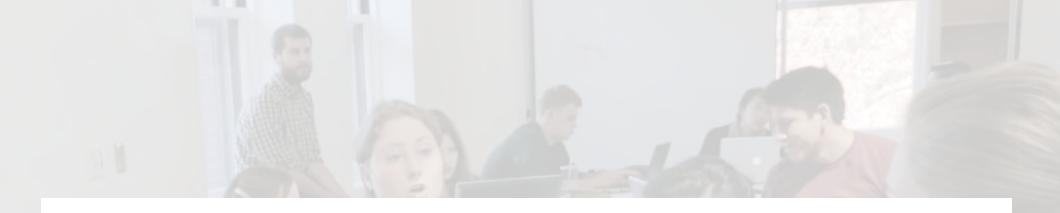


self-paced asynchronous home work/study

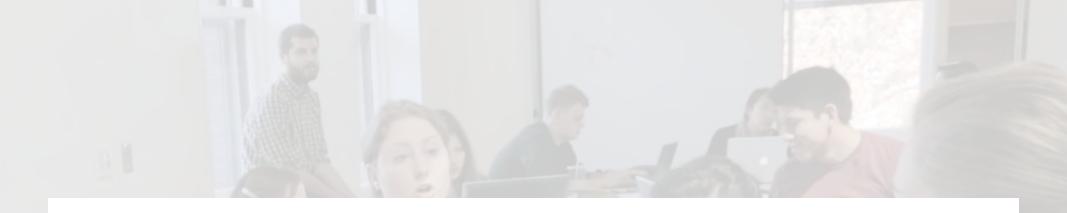




campus	home	home
information transfer	information transfer	sense-making
instructor-paced synchronous lecture	instructor-paced synchronous <b>online</b> lecture	self-paced asynchronous home work/study



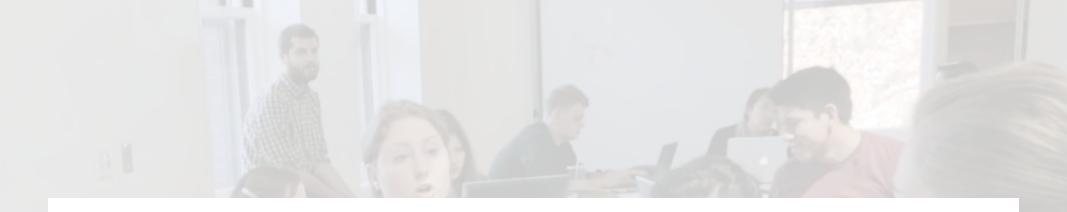
campus	home	home
	information transfer	sense-making
instructor-paced synchronous lecture	instructor-paced asynchronous <b>recorded</b> lecture	self-paced asynchronous home work/study

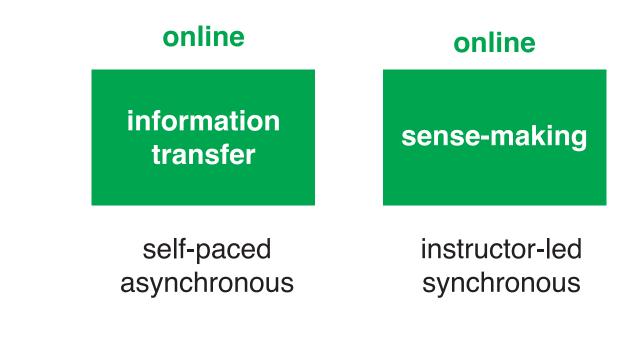


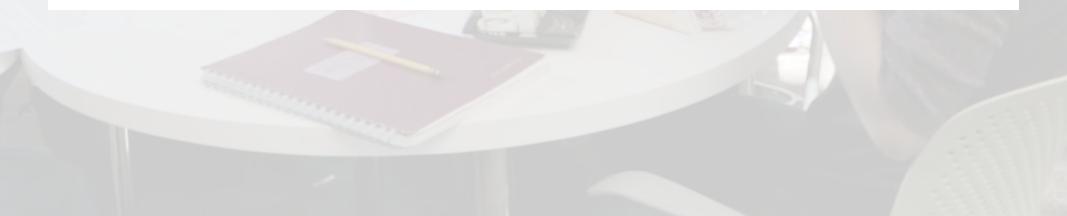
### campus

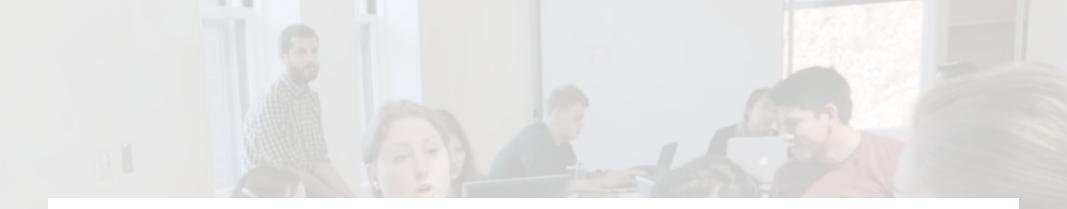
information transfer

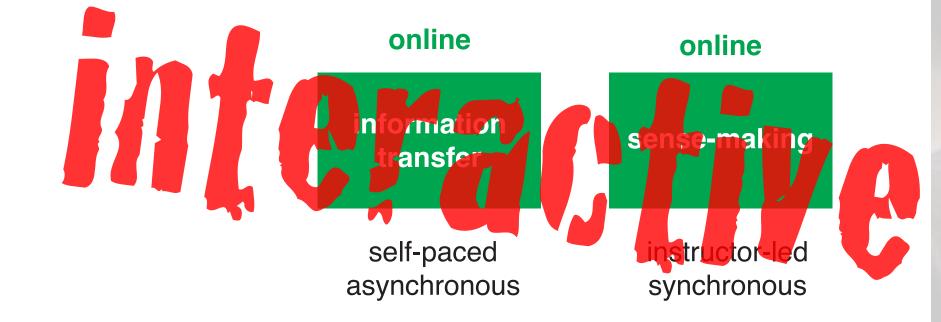
instructor-paced synchronous lecture home home home home self-paced asynchronous recorded lecture

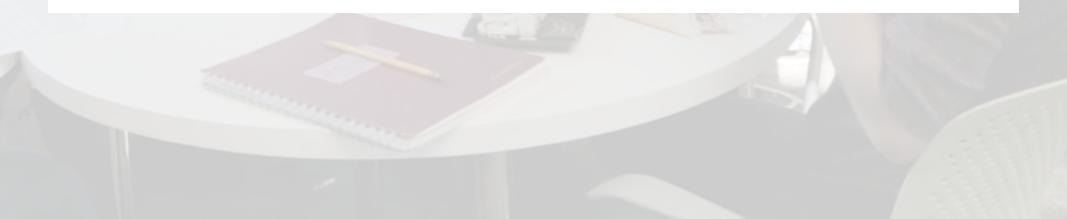


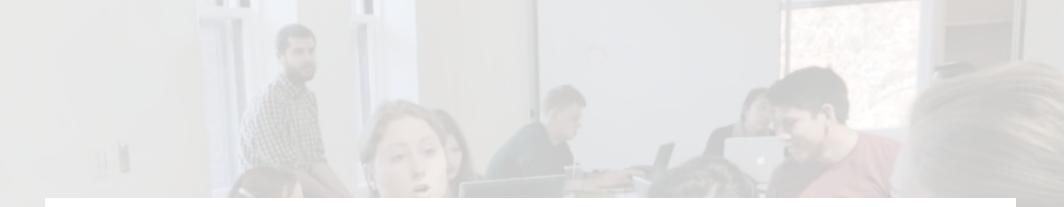


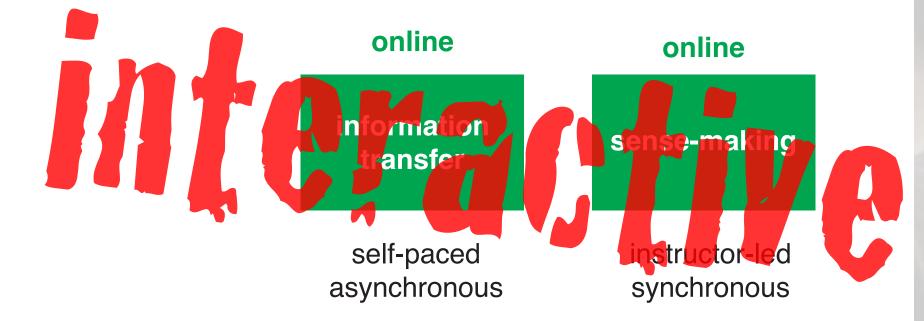






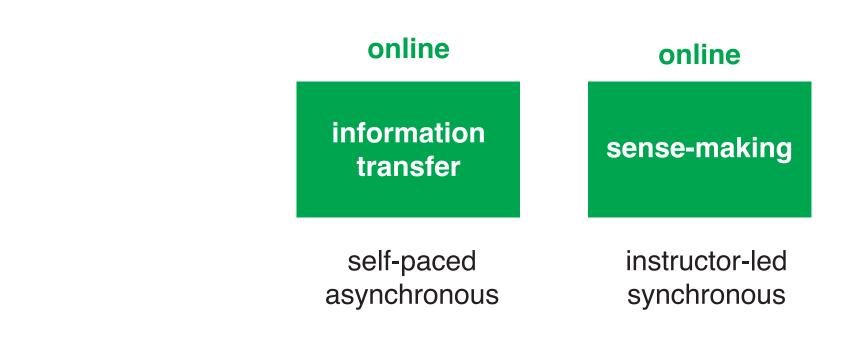


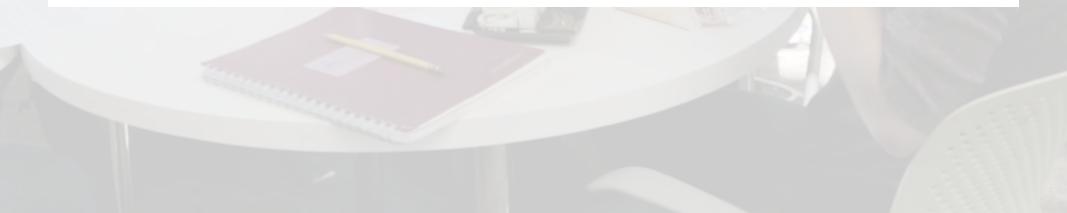




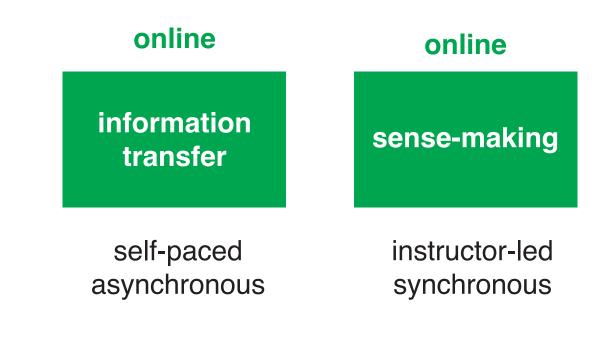
### two evidence-based approaches

### let's explore these two steps





### let's explore these two steps



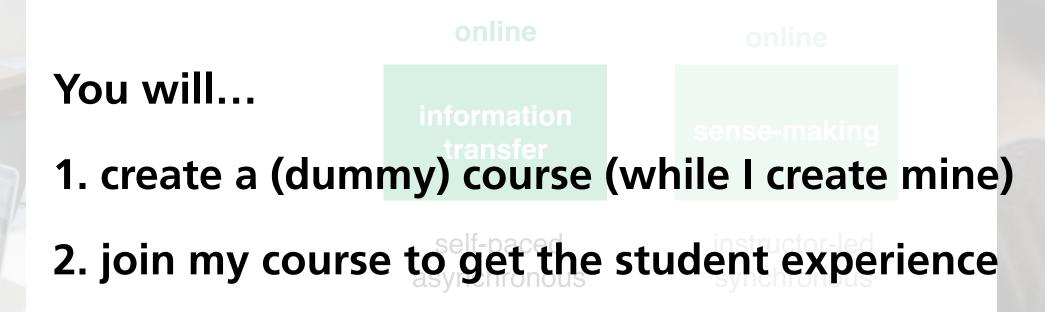
### (using two free tools)







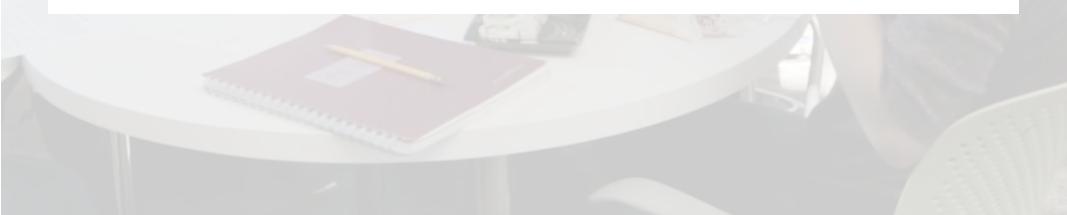
takes information transfer out of classroom



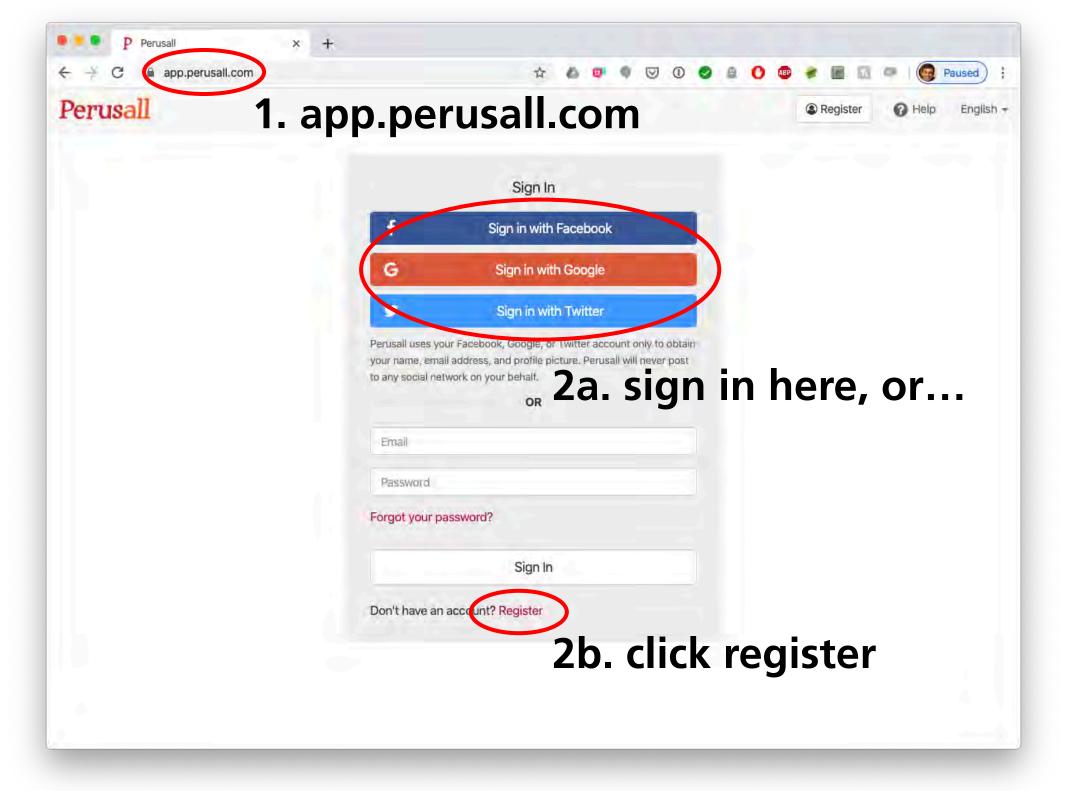
## in your browser go to: app.perusall.com if you have an account, log in, then wait

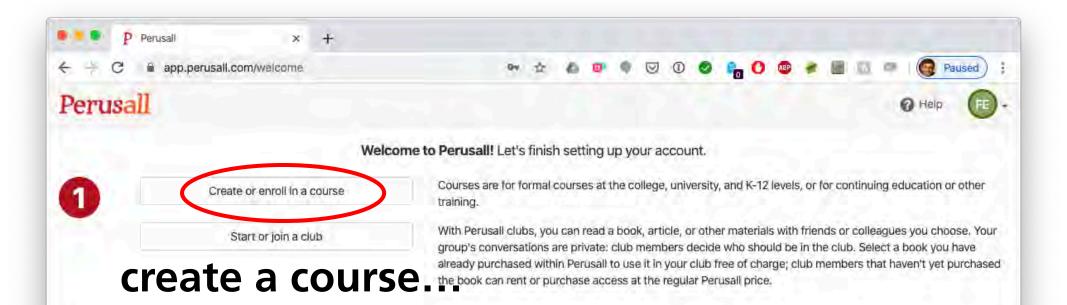
self-paced asynchronous

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

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Institution	Your unique course URL is based on this name. If you change the name, the URL will change. <b>Correctly at perusal.com</b>
	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
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	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

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### 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



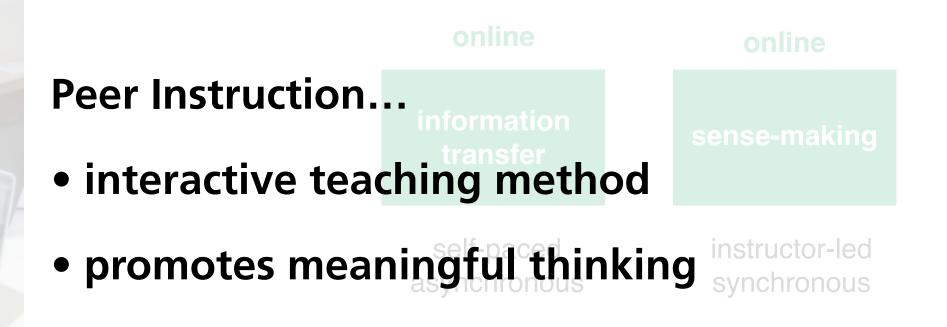


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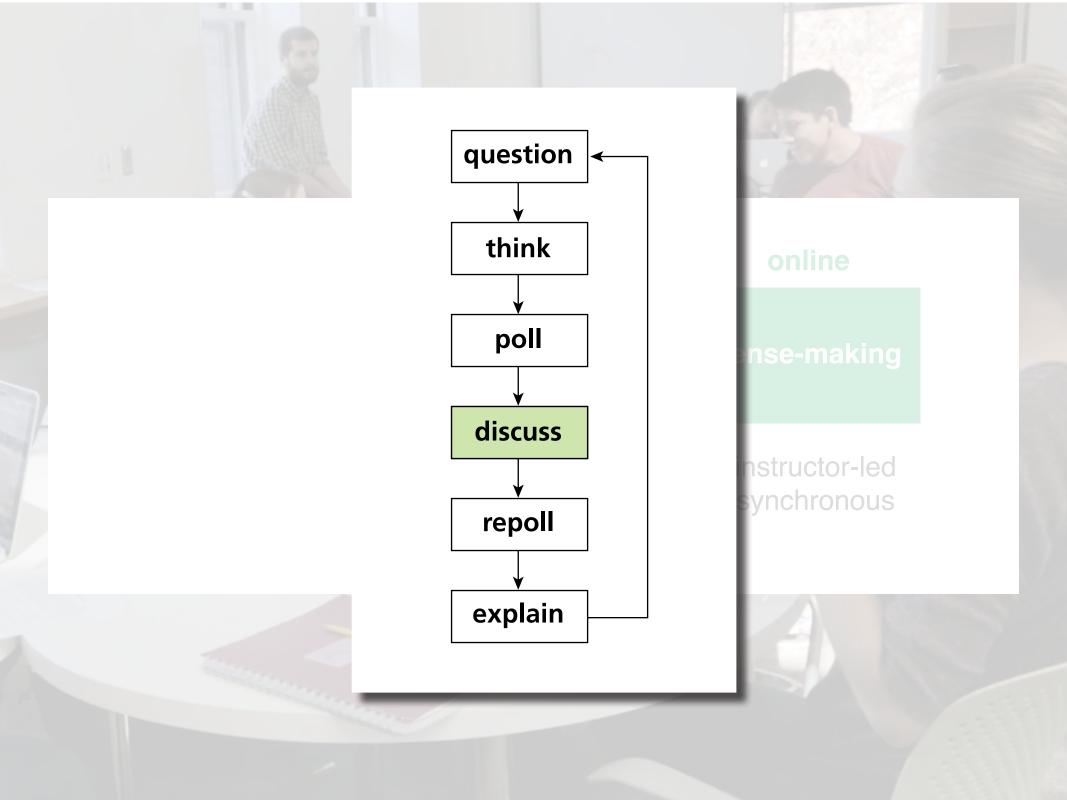
/ Manual



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"

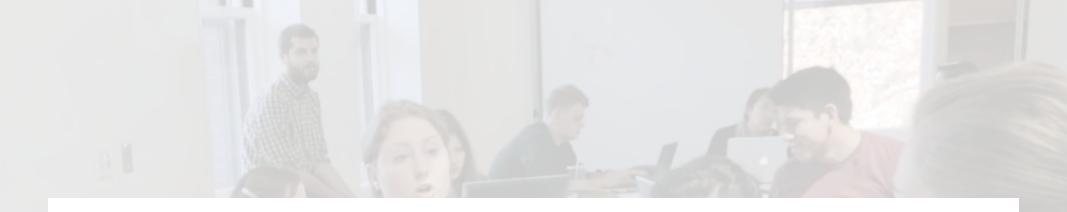
### A few notes

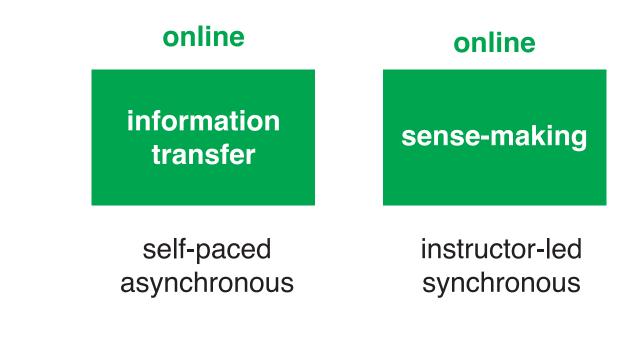
Peer Instruction... online

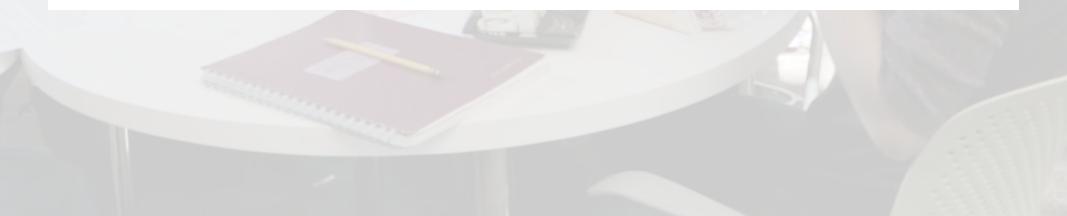
online

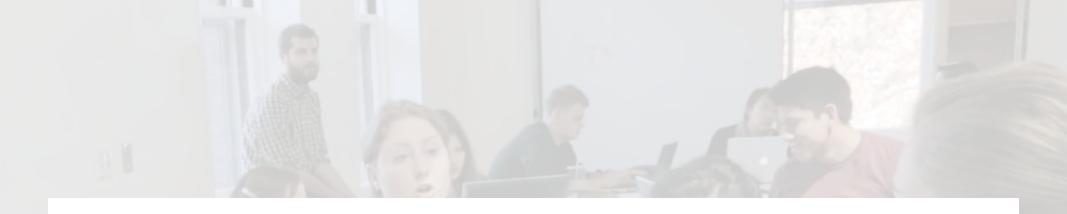
- greatly improves learning outcomes
- actively engages students online
- integrates with Perusall

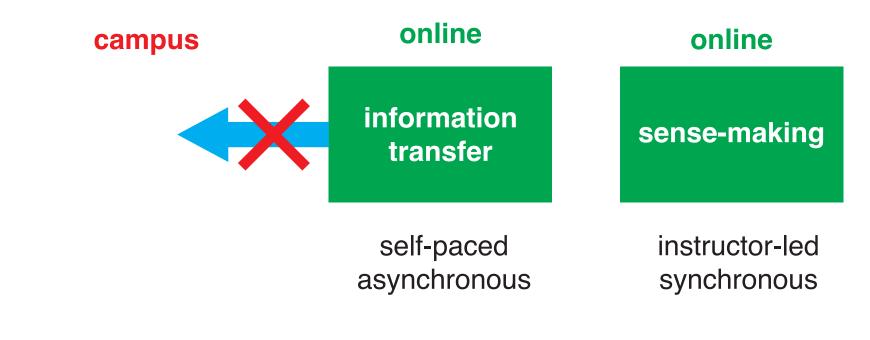
instructor-led synchronous



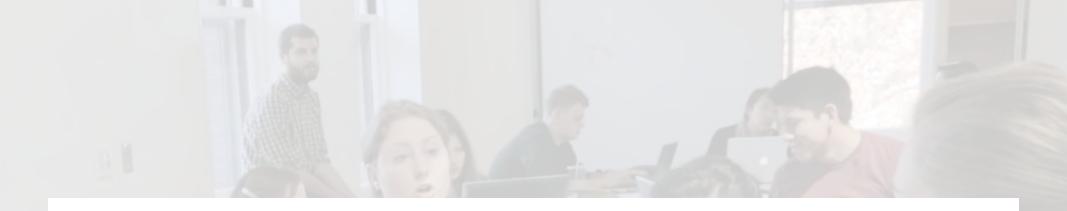


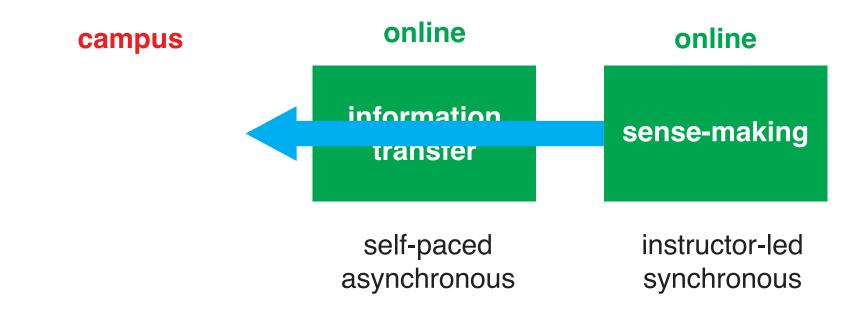


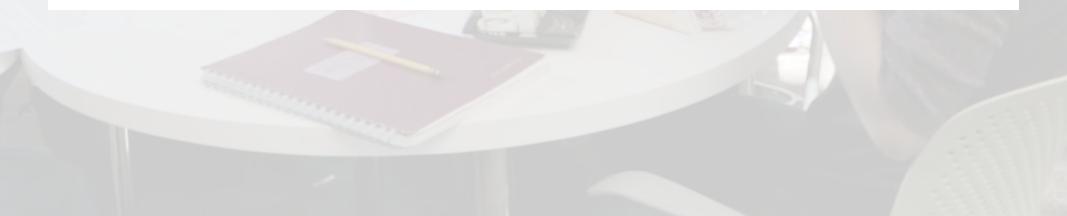


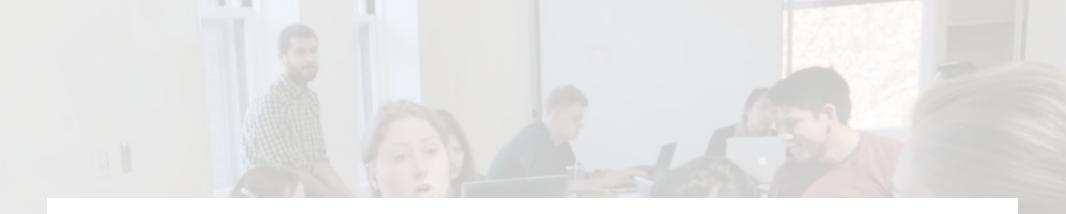


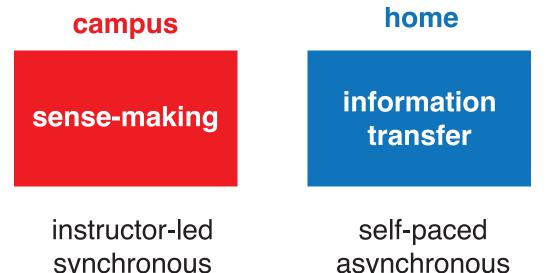








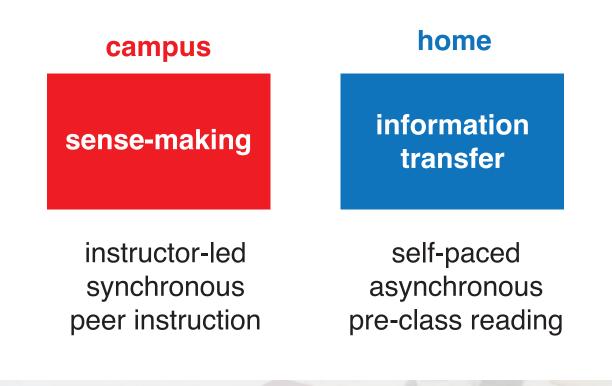




synchronous peer instruction

asynchronous pre-class reading

#### Compare with the "old" approach



### Compare with the "old" approach

#### campus

information transfer

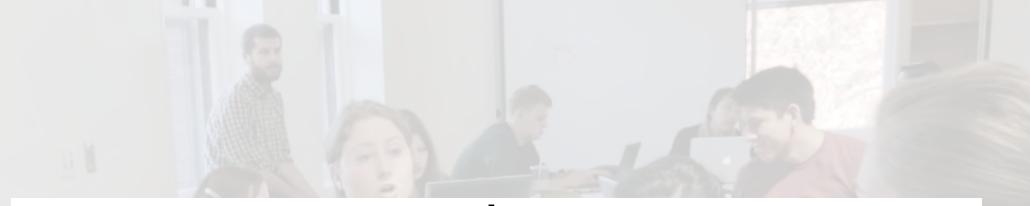
instructor-paced synchronous lecture

#### home

sense-making

self-paced asynchronous home work/study





# projects

tutorials

#### sense-making

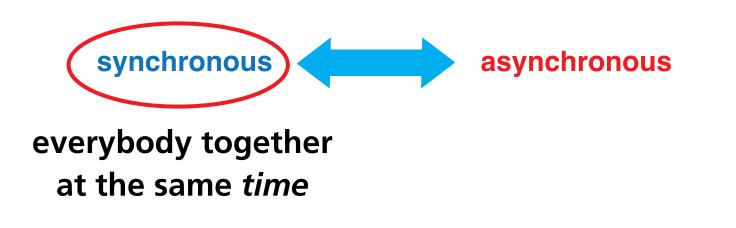
# experimental activities

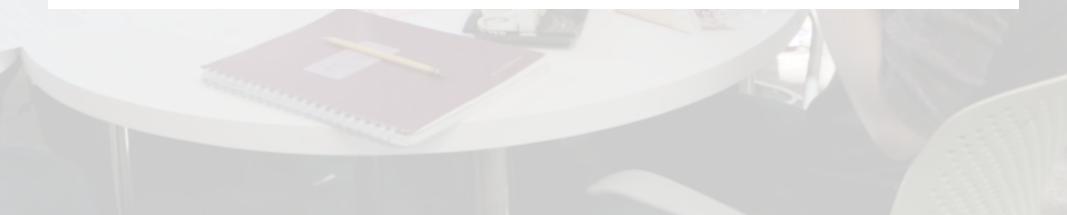
instructor-led synchronous peer instruction

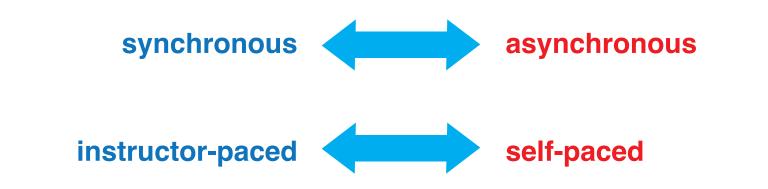
problem sets pre-class reading assessment

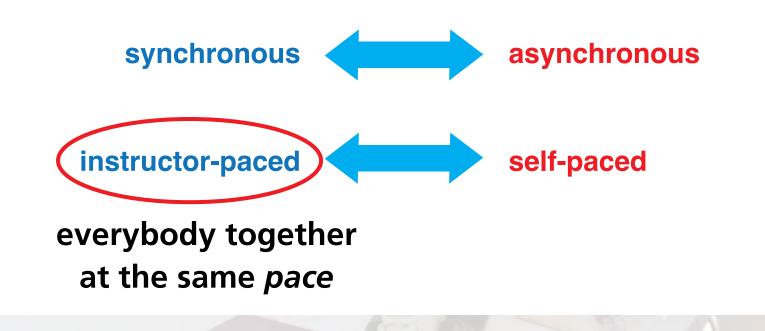


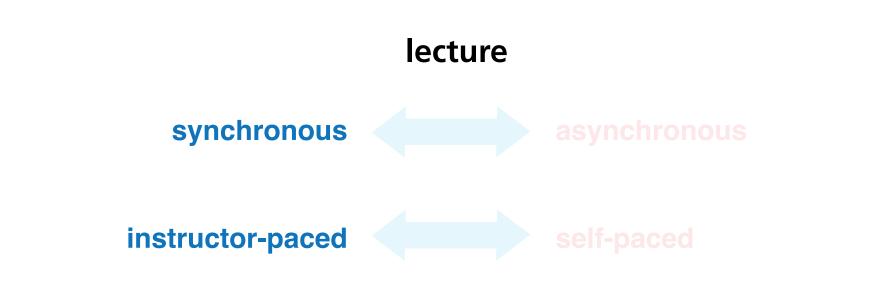












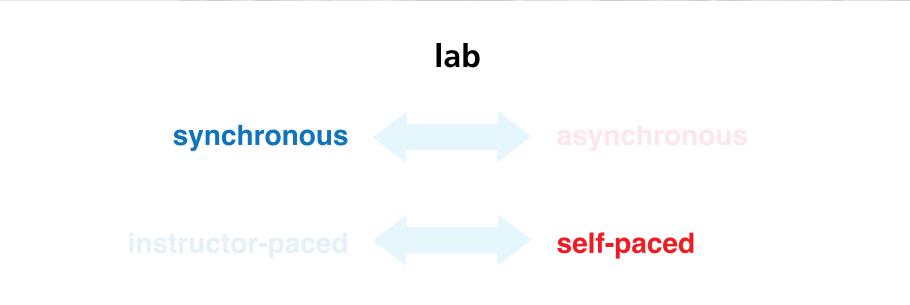
#### recorded lecture

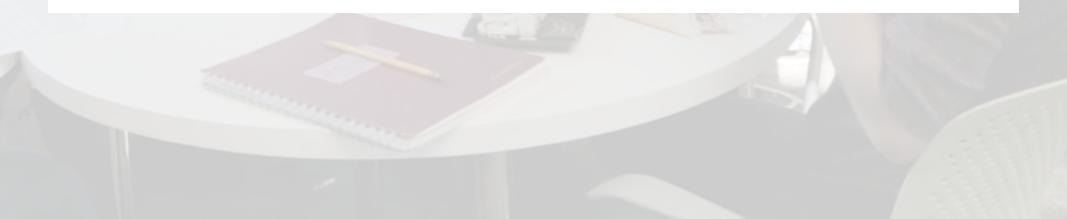
synchronous

asynchronous

instructor-paced

self-paced





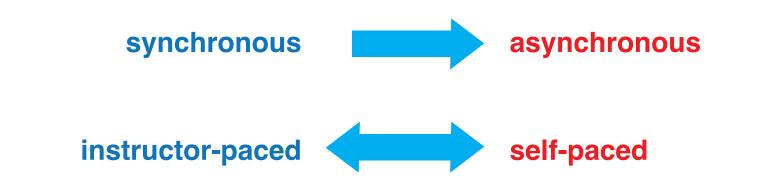


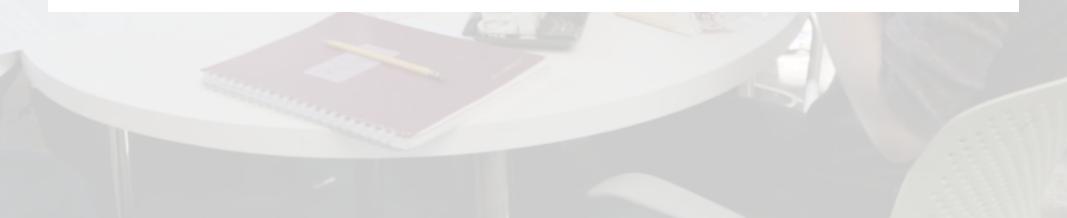
synchronous

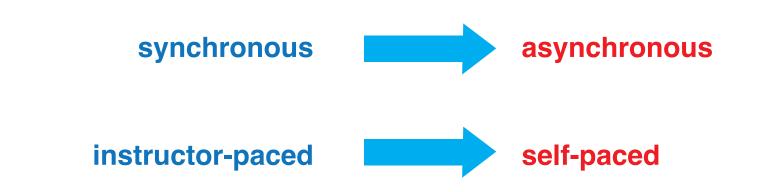
asynchronous

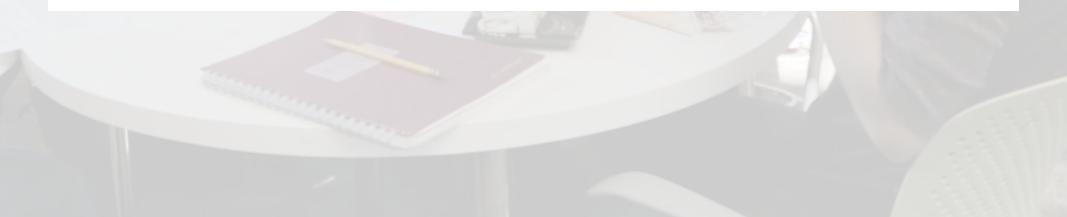
instructor-paced

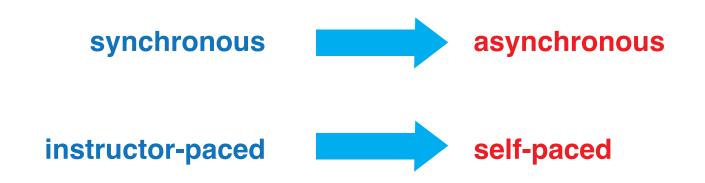
self-paced











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