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







information sense-making transfer

campus

information transfer

instructor-paced synchronous lecture

home

sense-making

self-paced asynchronous home work/study

information

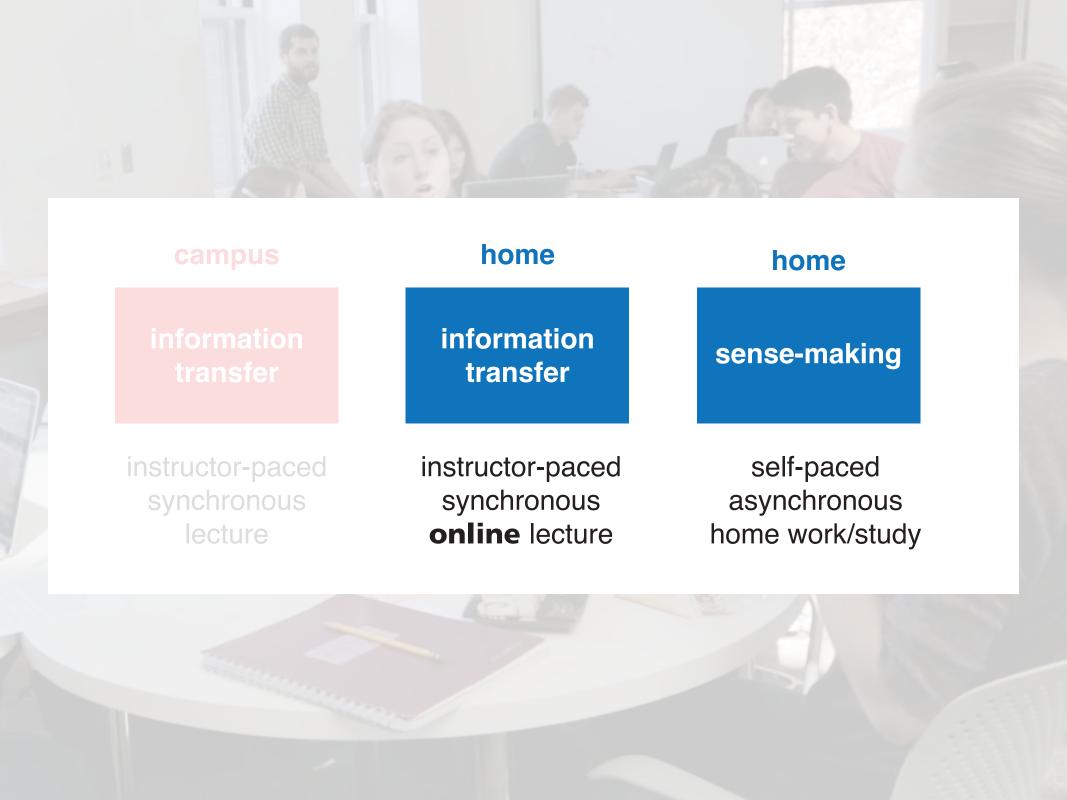
instructor-paced synchronous lecture

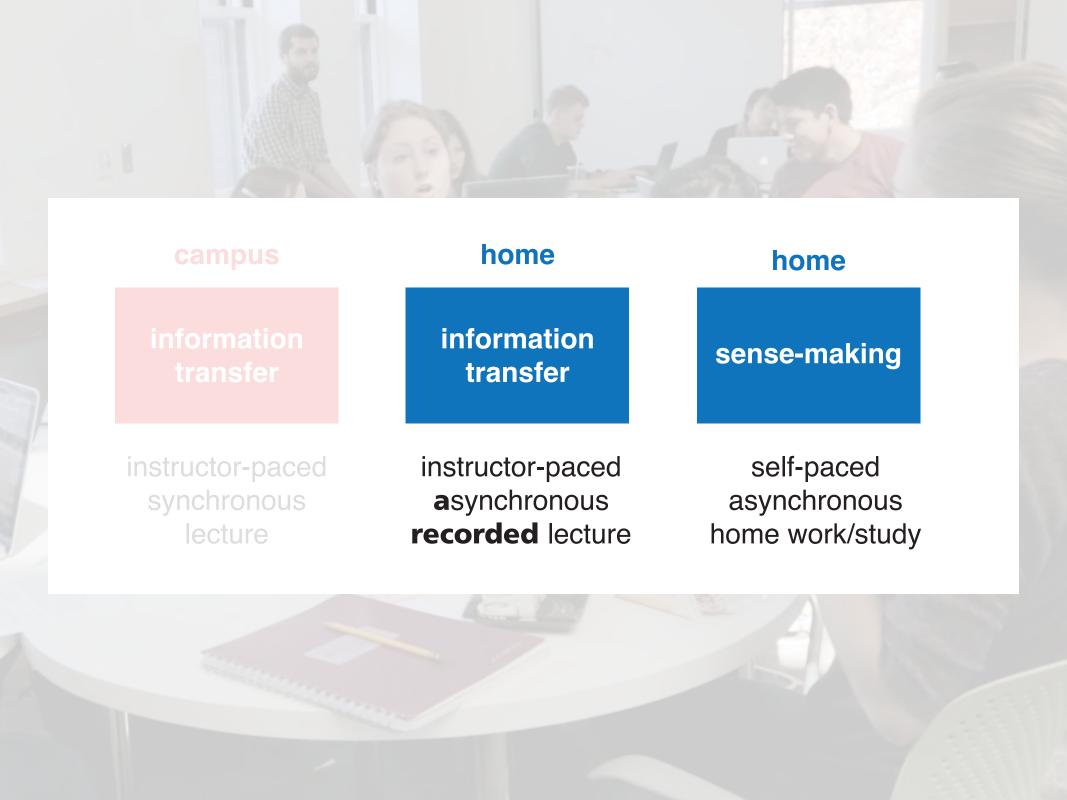
transfer

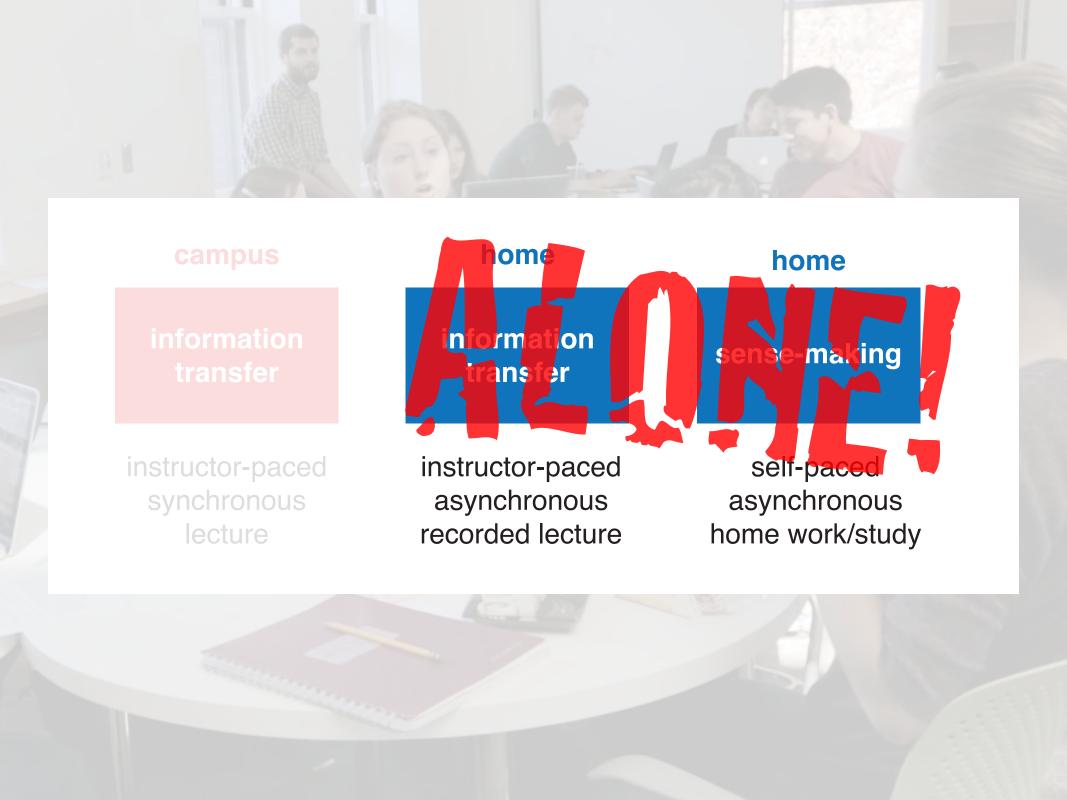
home

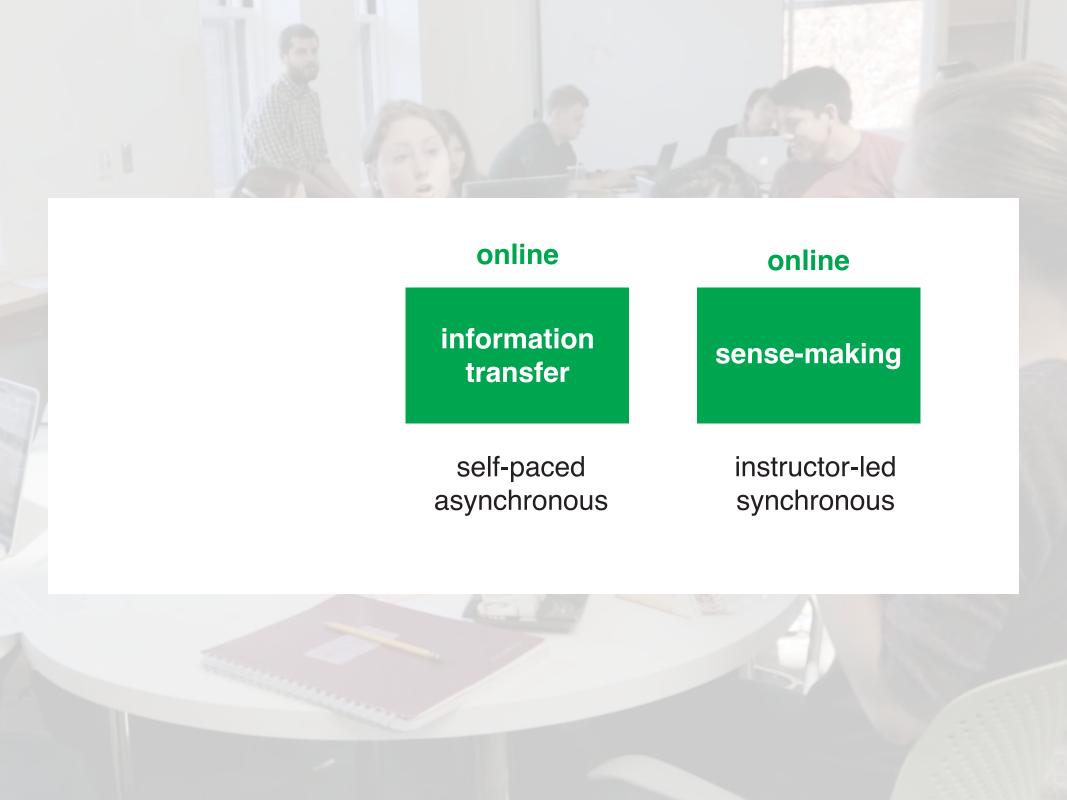
sense-making

self-paced asynchronous home work/study

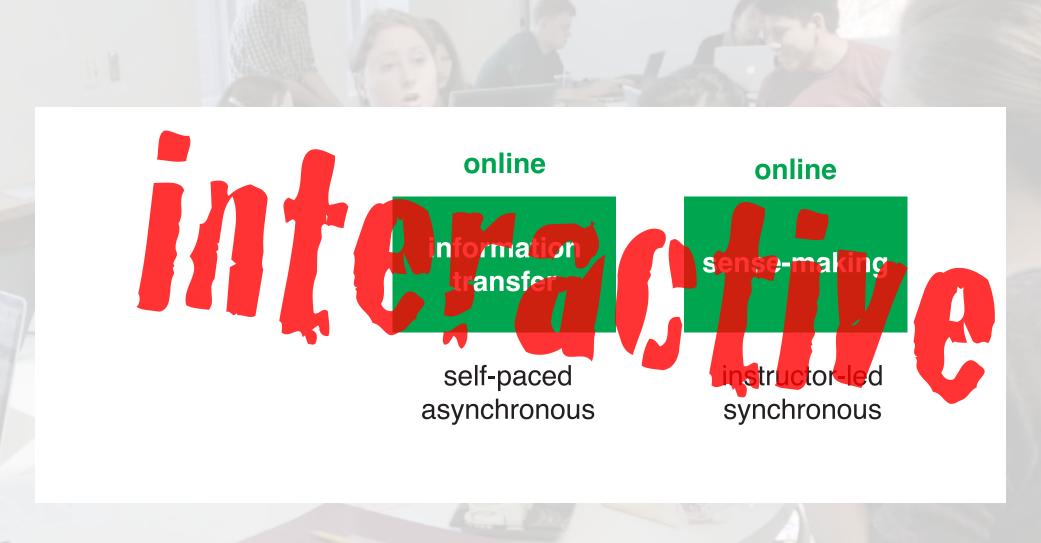












two evidence-based approaches

let's explore these two steps

online

information transfer

self-paced asynchronous

online

sense-making

instructor-led synchronous

let's explore these two steps

online

information transfer

self-paced asynchronous

online

sense-making

instructor-led synchronous

(using two free tools)



online

online

Perusall...

information transfer

sense-making

- is a text-based social learning platform
- takes information transfer out of classroom

online

online

You will...

information transfer

sense-making

- 1. create a (dummy) course (while I create mine)
- 2. join my course to get the student experience

online

online

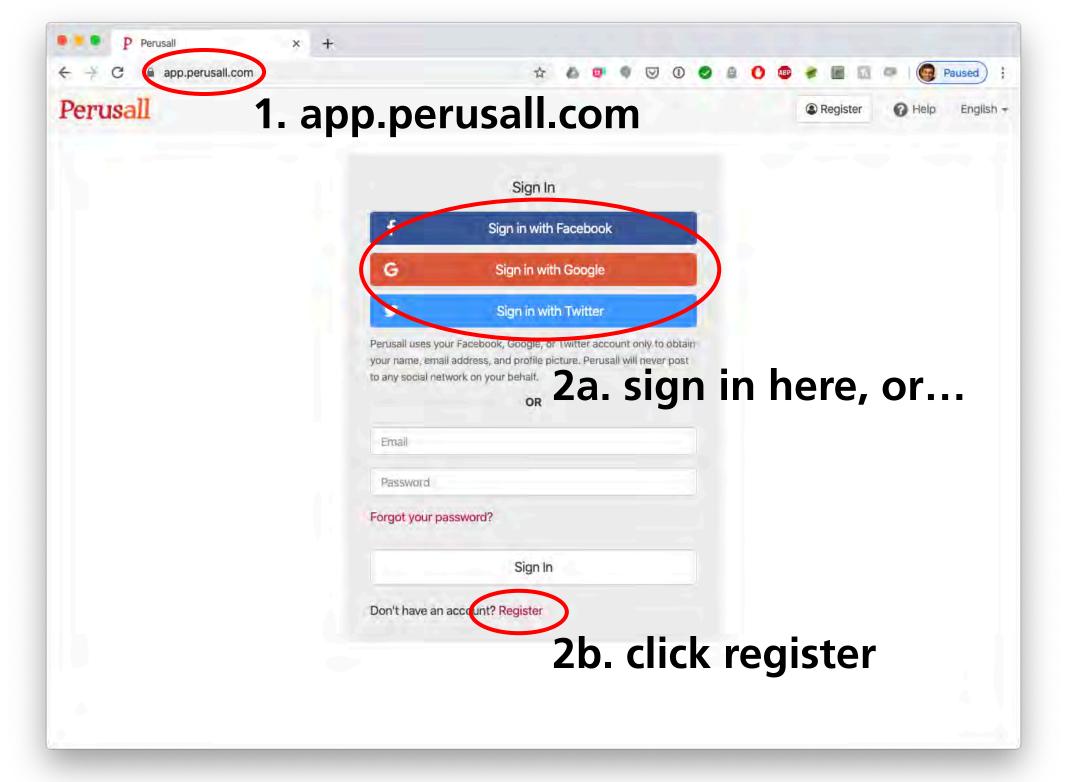
- 1. in your browser go to: app.perusall.com
 - sense-making
- 2. if you have an account, log in, then wait

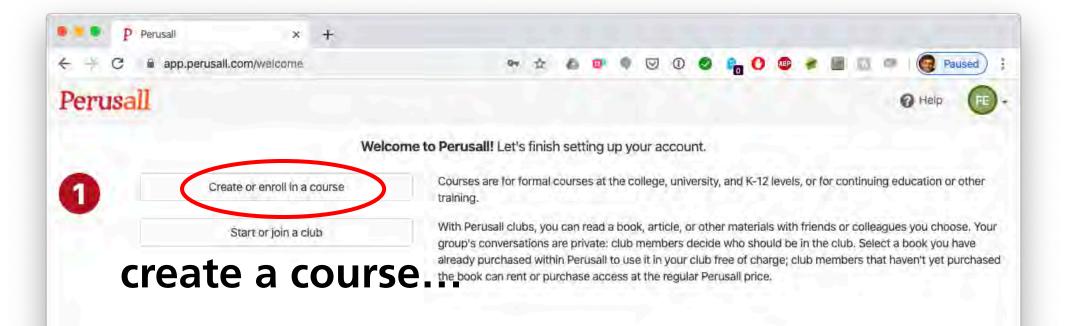
self-paced asynchronous

instructor-led synchronous

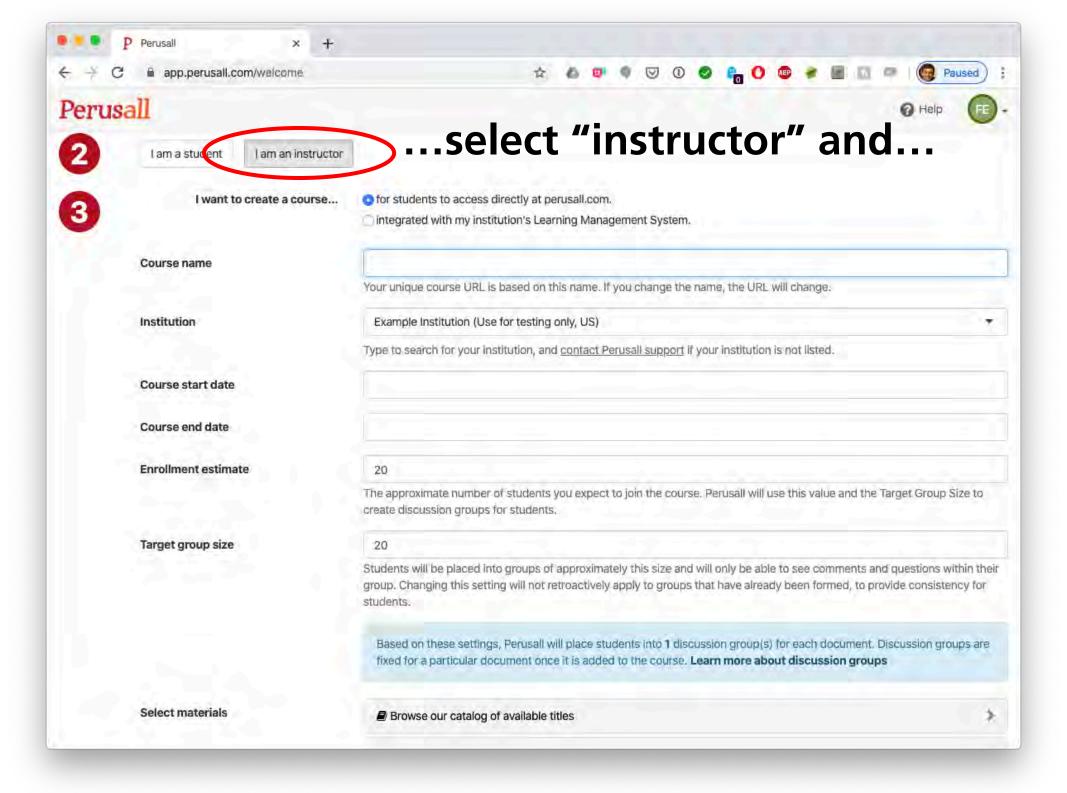
online

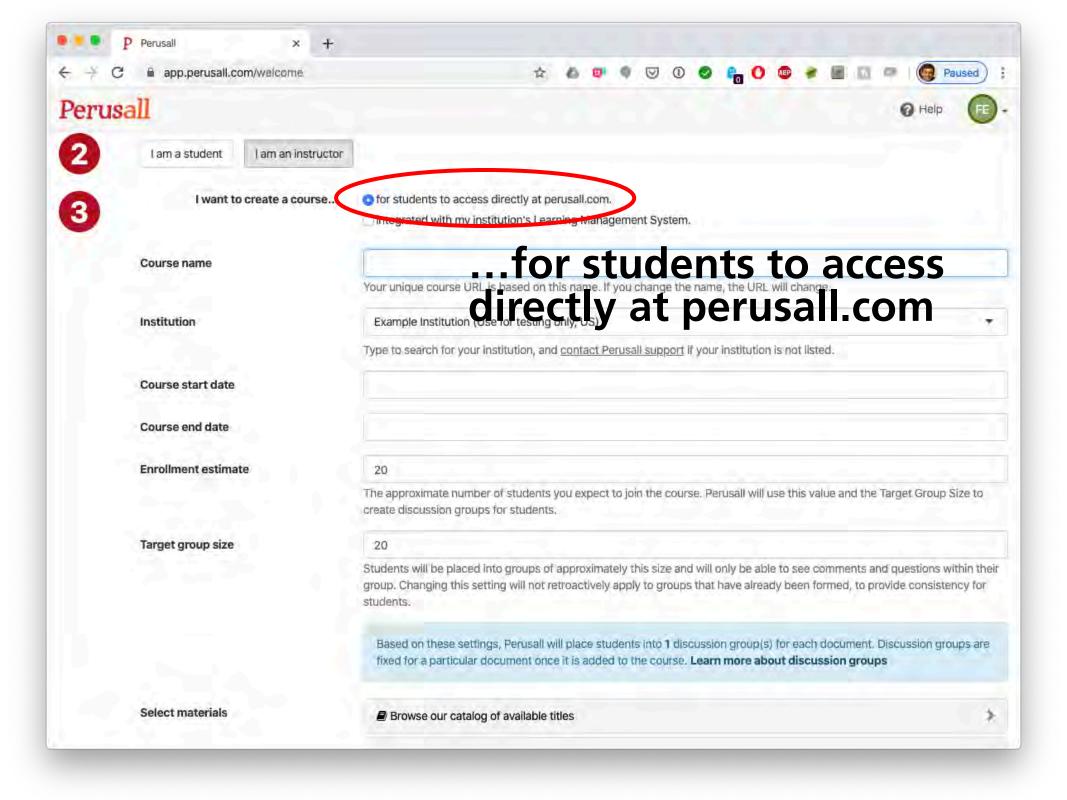
- 1. in your browser go to: app.perusall.com
- 2. if you have an account, log in, then wait
- 3. if you don't have an account, follow along

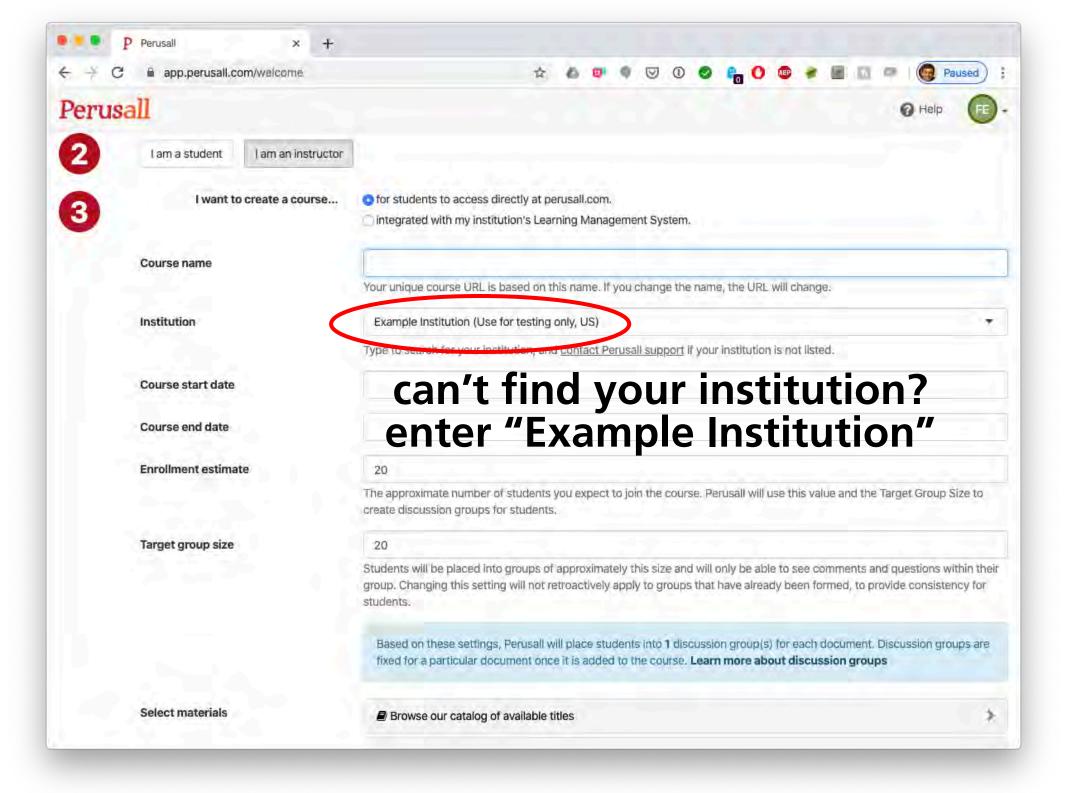




(if you logged in with existing account, click "Create course" at top left of page)







Why Perusall works

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



- Perusall is free online
- Many textbooks free until summer
- Nearly 100% reading-assignment completion self-paced instructor-led
- 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

online

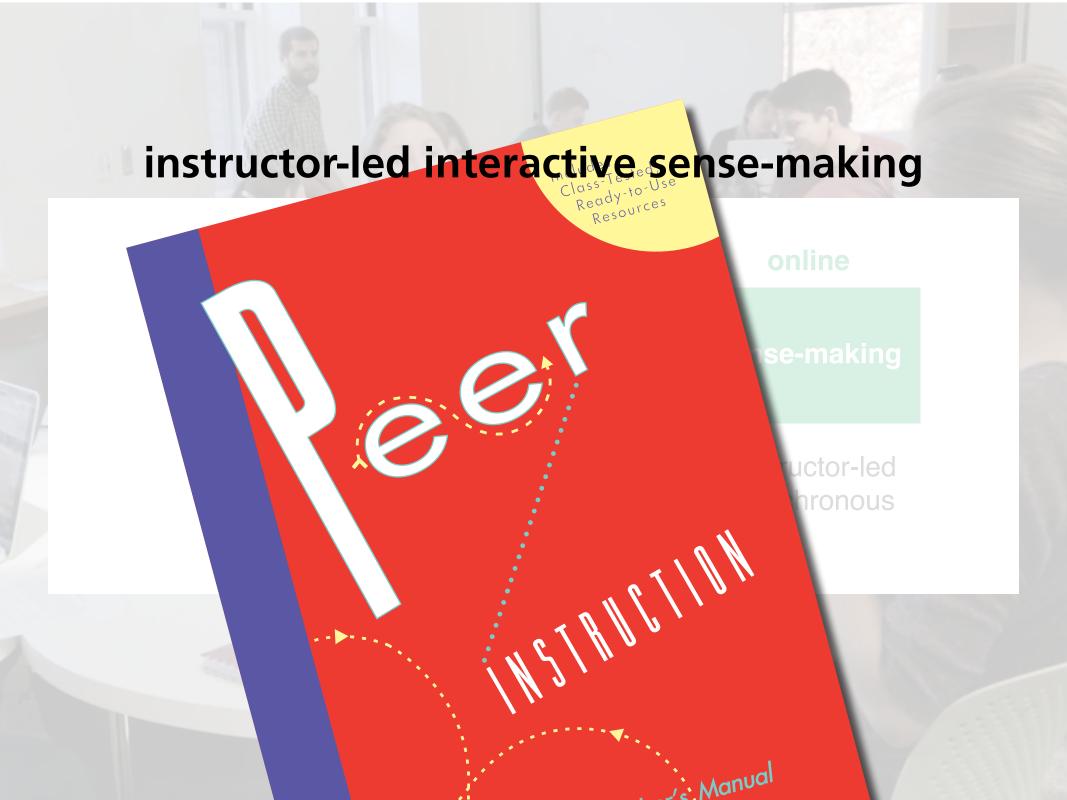
information transfer

self-paced asynchronous

online

sense-making

instructor-led synchronous



online

online

Peer Instruction...

information transfer

sense-making

interactive teaching method

• promotes meaningful thinking instructor-led synchronous

You will experience Peer Instruction by...

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

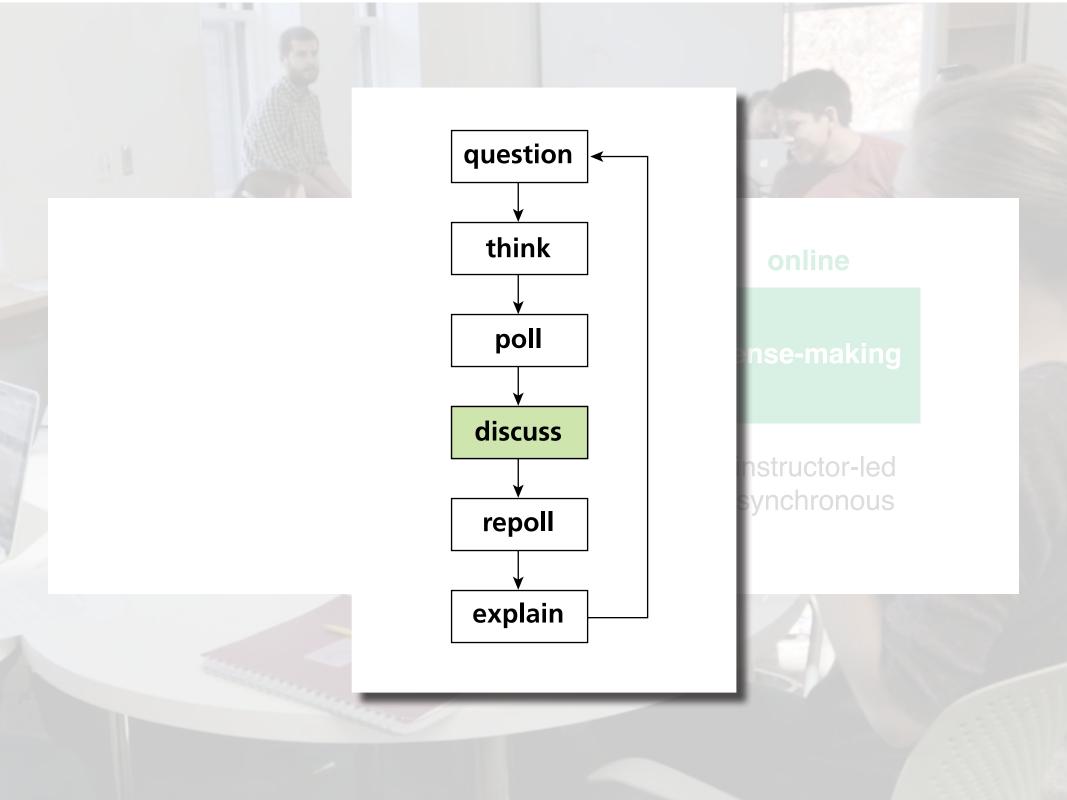
instructor-led

synchronous

3. reanswering question

PollEv.com/ericmazur615 Go to:

instructor-led synchronous



Why Peer Instruction works

engages students to think

online

individualizes learning

sense-making

students use similar discourse

instructor-led

helps avoid the "expert blind spot"



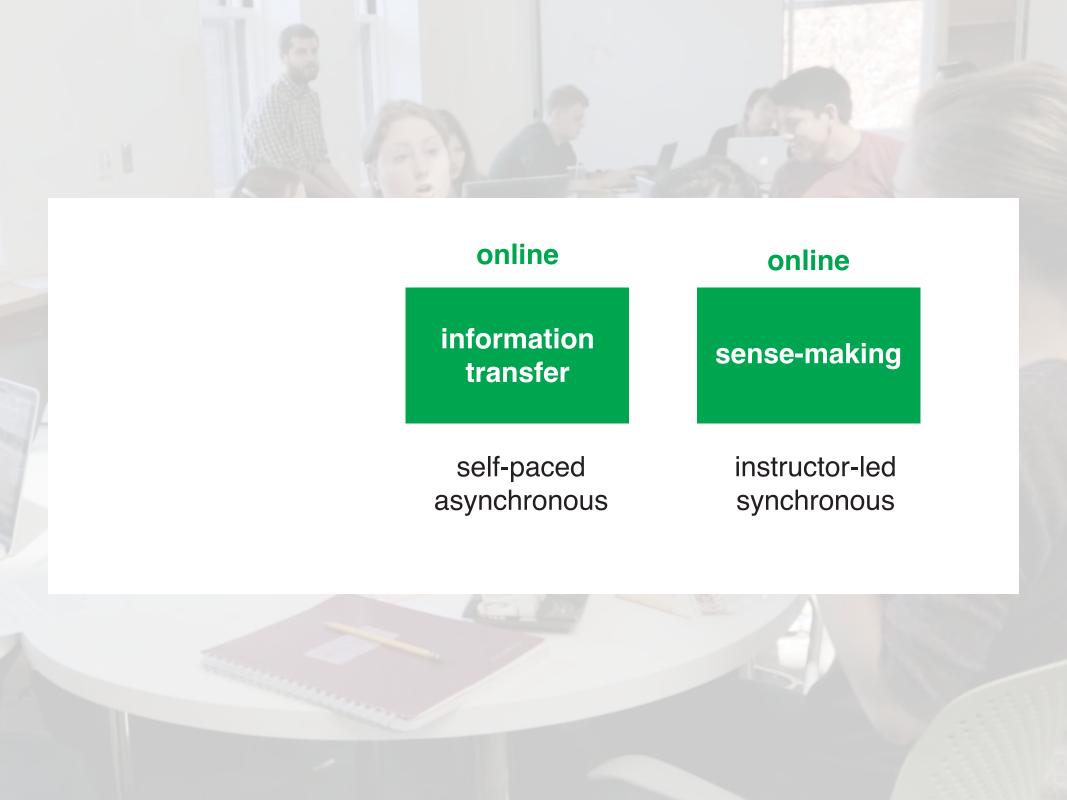
Peer Instruction... online

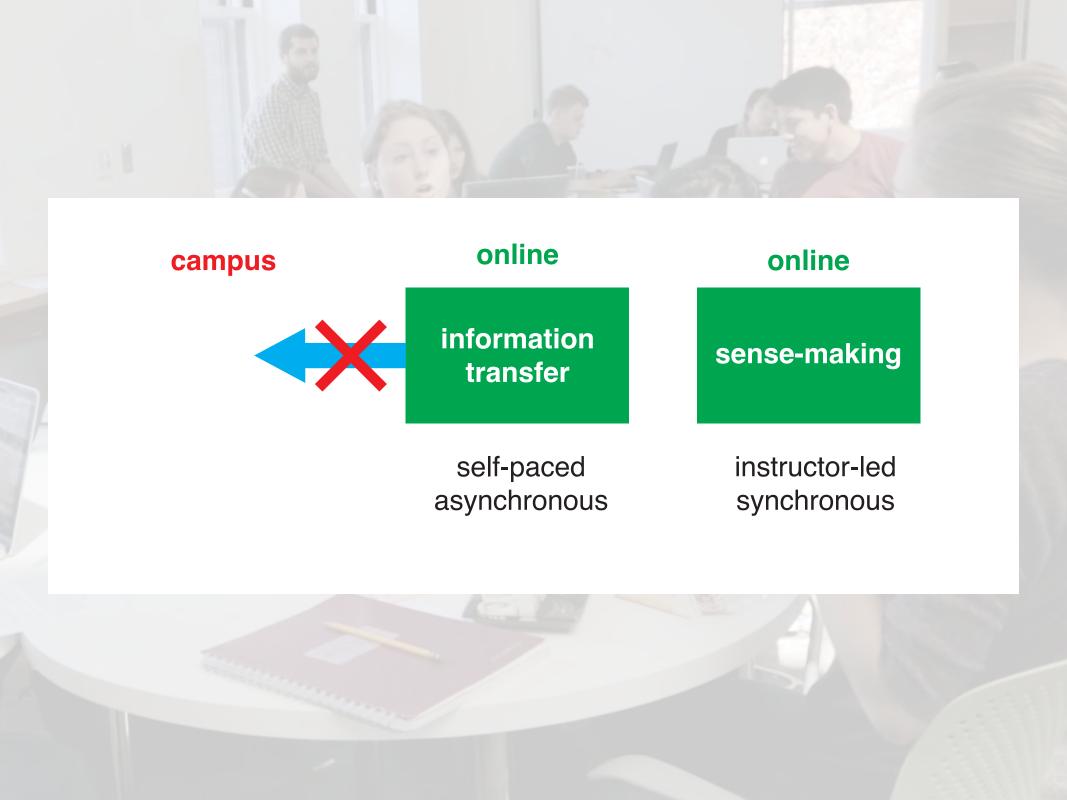
online

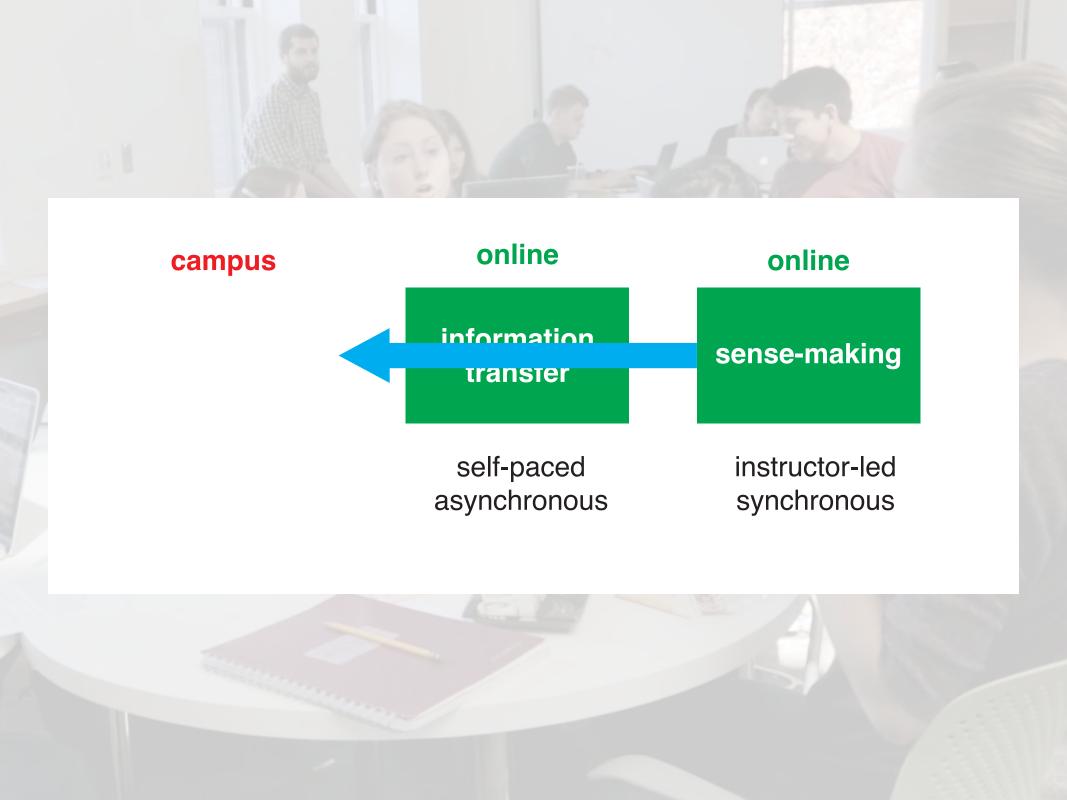
- greatly improves learning outcomes
- actively engages students online

• integrates with Perusall

instructor-led synchronous







campus

sense-making

instructor-led synchronous peer instruction

home

information transfer

self-paced asynchronous pre-class reading

Compare with the "old" approach

campus

sense-making

instructor-led synchronous peer instruction home

information transfer

self-paced asynchronous pre-class reading

Compare with the "old" approach

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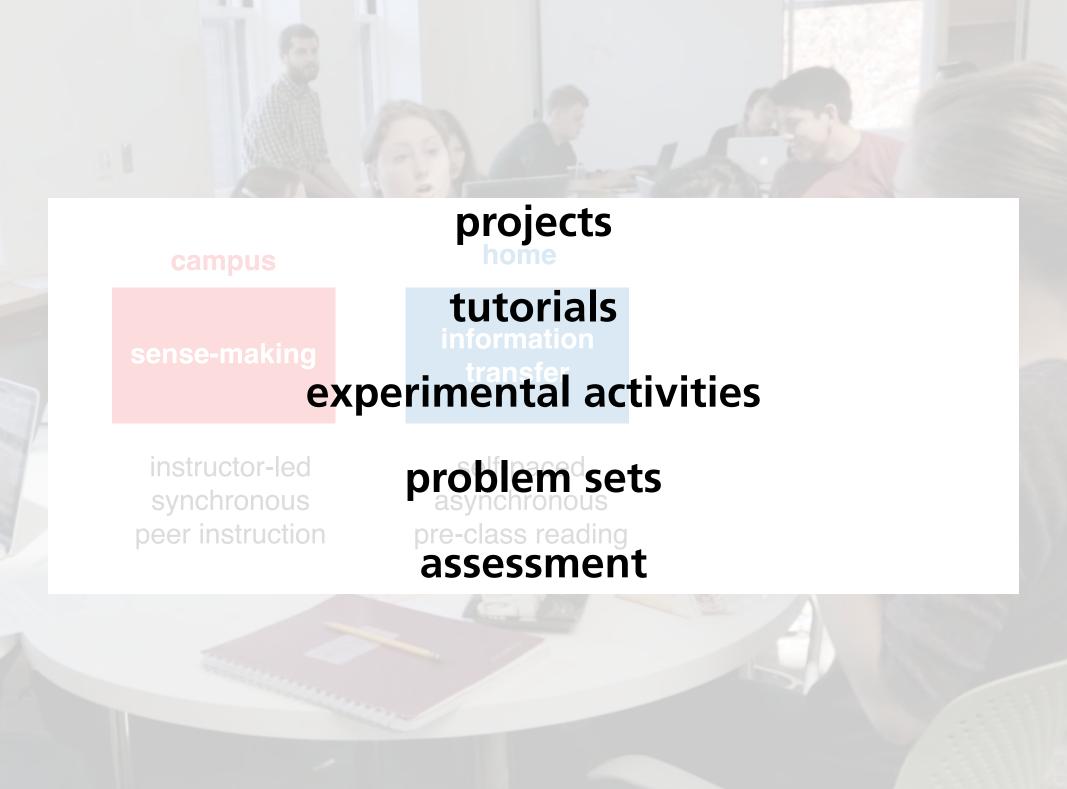
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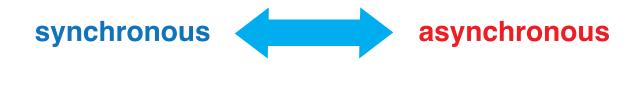
self-paced asynchronous home work/study



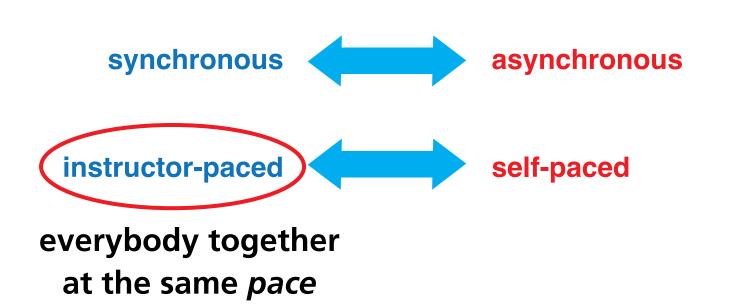




everybody together at the same *time*



instructor-paced self-paced





lecture

synchronous



asynchronous

instructor-paced



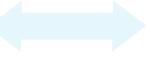


recorded lecture

synchronous

asynchronous

instructor-paced







synchronous



asynchronous

instructor-paced





homework/study



instructor-paced self-paced



instructor-paced self-paced

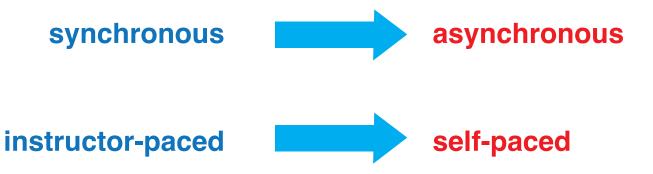




asynchronous

instructor-paced





more time to help students where it really matters!

Please help spread the word!

calendly.com/ericmazur/fliponline

(tell your colleagues and tweet)

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for a copy of this presentation:

mazur.harvard.edu

resource sheet: bit.ly/fliponline

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