"I'm not teaching anything...

"I'm not teaching anything...

...they are learning!"

Connecting the dots and setting learning free





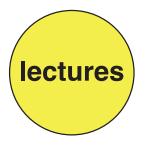




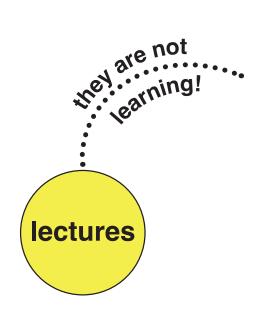


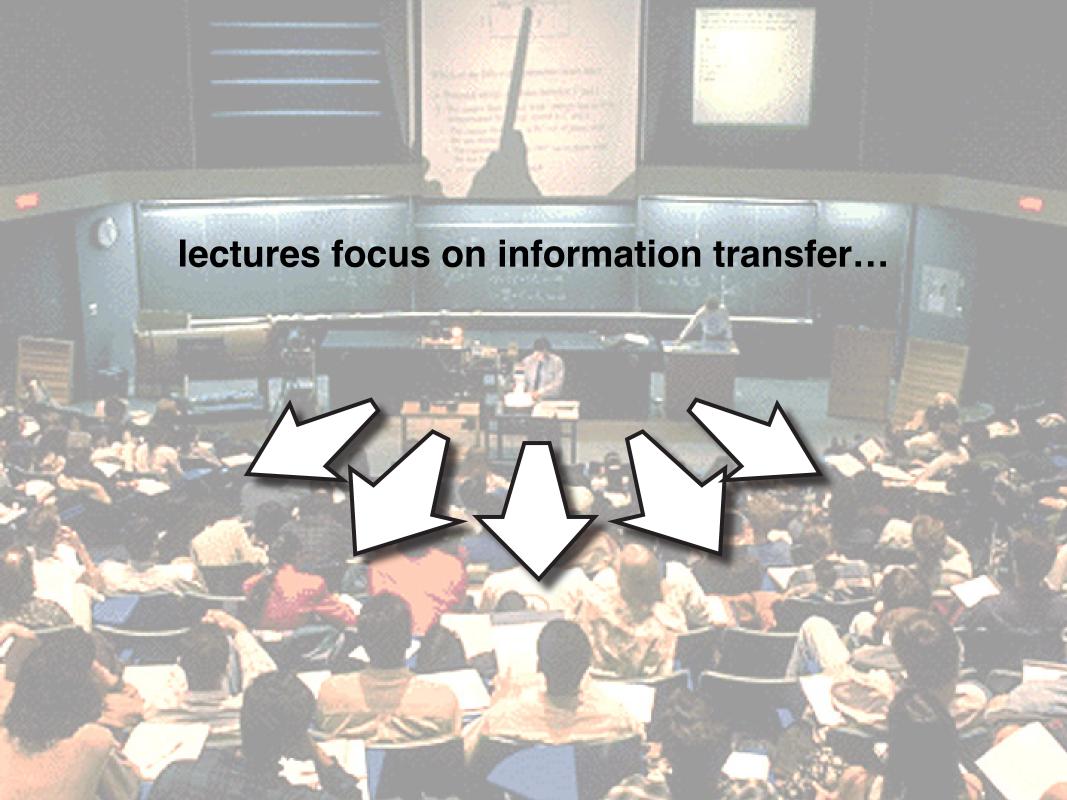


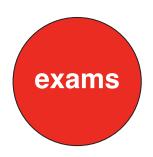


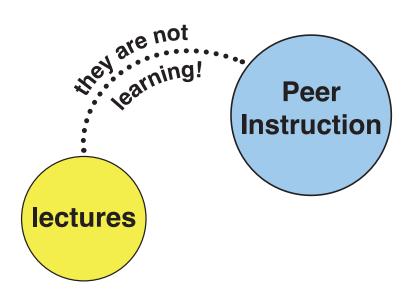


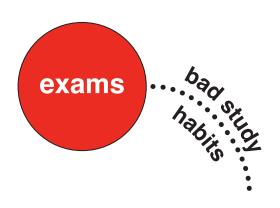


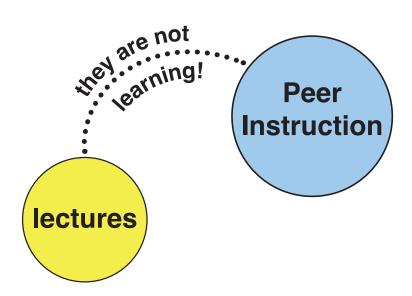


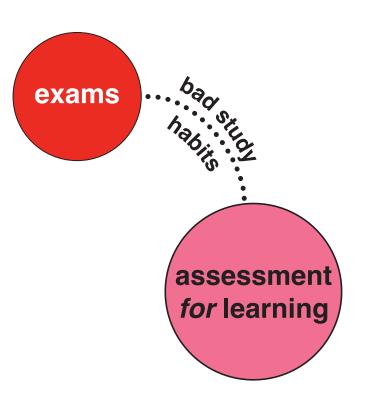


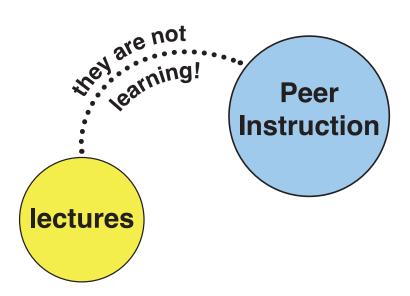


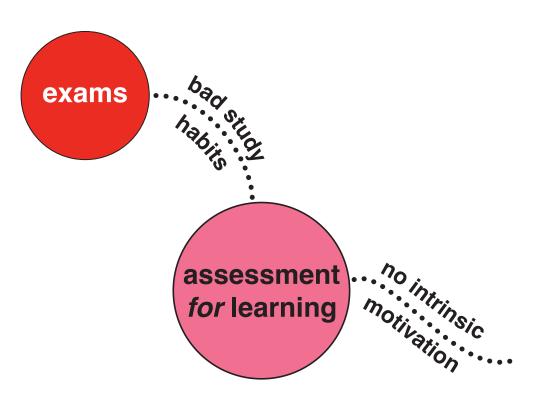


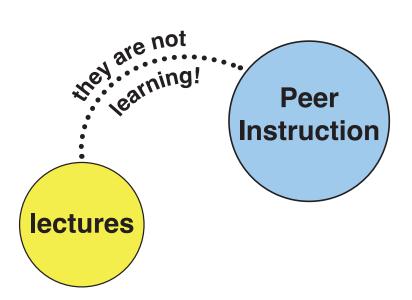






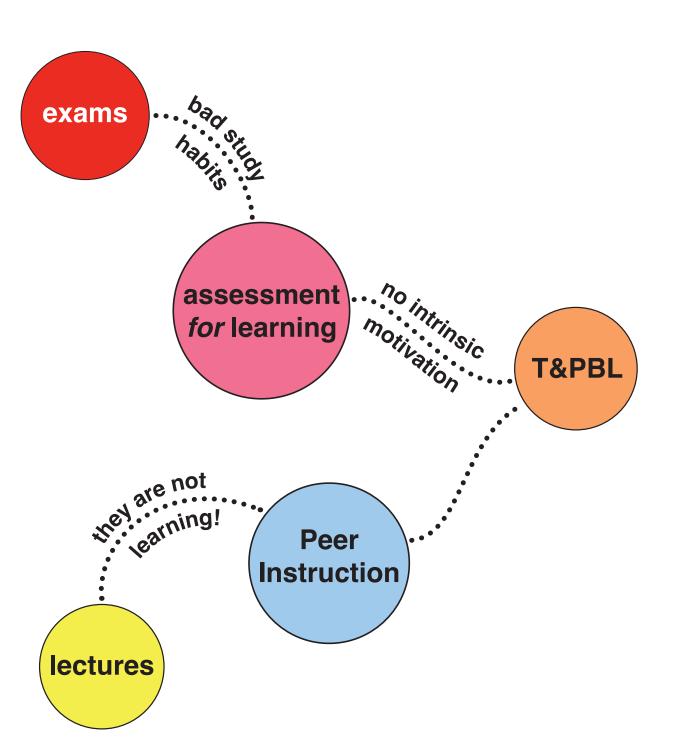


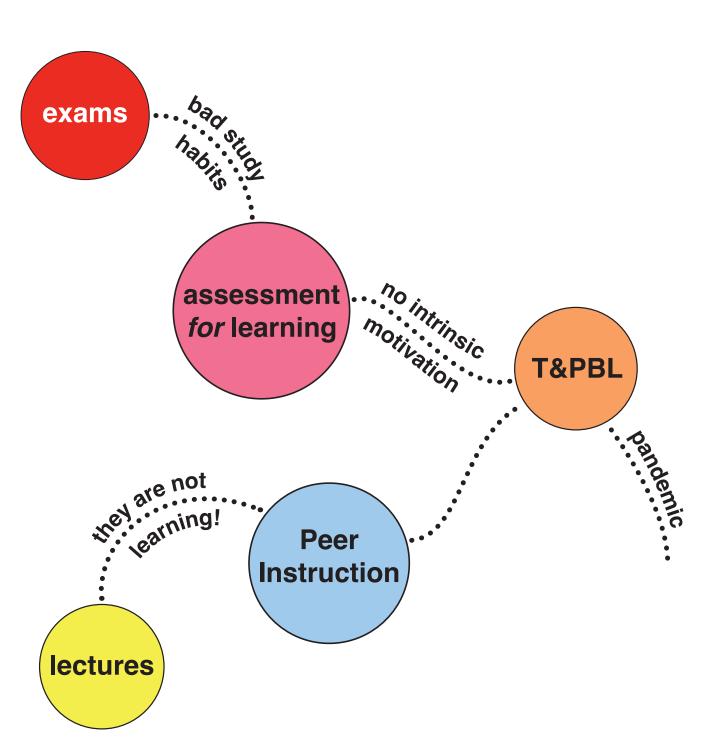




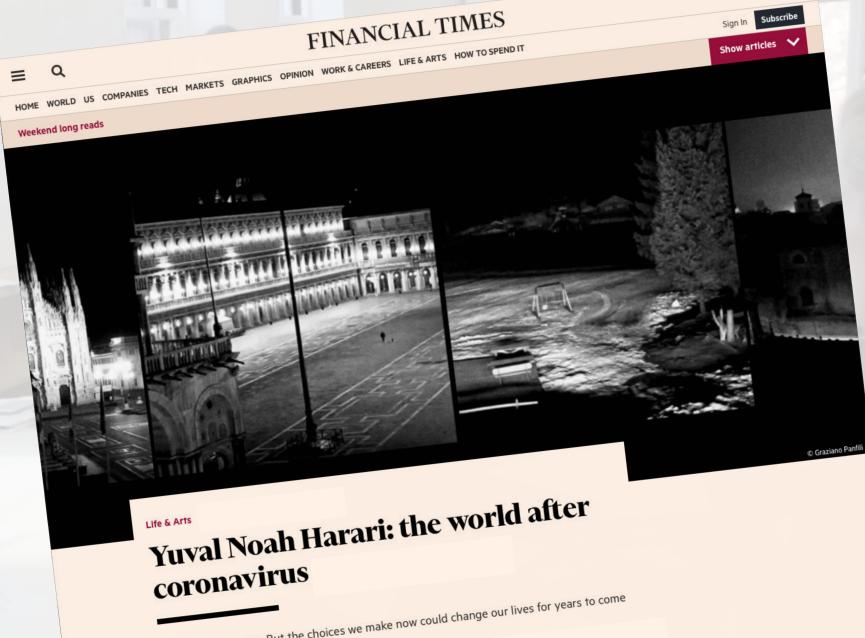












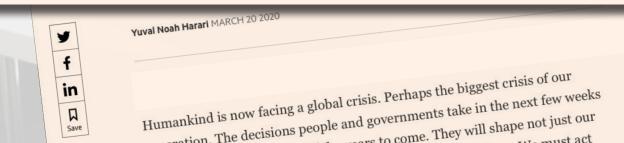
This storm will pass. But the choices we make now could change our lives for years to come

Yuval Noah Harari MARCH 20 2020

in

Humankind is now facing a global crisis. Perhaps the biggest crisis of our The decisions people and governments take in the next few weeks









Yuval Noah Harari MARCH 20 2020

Humankind is now facing a global crisis. Perhaps the biggest crisis of our

Humankind is now facing a global crisis. Perhaps the biggest crisis of our

evention. The decisions people and governments take in the next few weeks

evention. The decisions people are come. They will shape not just our





Yuval Noah Harari MARCH 20 2020

Humankind is now facing a global crisis. Perhaps the biggest crisis of our

Humankind is now facing a global crisis. Perhaps the biggest crisis of our

evention. The decisions people and governments take in the next few weeks

evention. The decisions people are come. They will shape not just our





Yuval Noah Harari MARCH 20 2020

Humankind is now facing a global crisis. Perhaps the biggest crisis of our

Humankind is now facing a global crisis. Perhaps the biggest crisis of our

evention. The decisions people and governments take in the next few weeks

evention. The decisions people are come. They will shape not just our



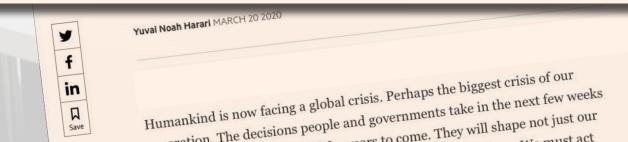


Yuval Noah Harari MARCH 20 2020



Many short-term emergency measures will become a fixture of life. That is the nature of emergencies. They fast-forward historical processes. Decisions that in normal times could take years of deliberation are passed in a matter of hours. Immature and even dangerous technologies are pressed into countries se Will online teaching become a fixture of life?

happens when everybody works from home and communicates only at a distance? What happens when entire schools and universities go online? In normal times, governments, businesses and educational boards would never agree to conduct such experiments. But these aren't normal times.







Lucia Curatolo-Boylan supervises the online schooling of her four children, ages 4 to 10, in Staten Island, N.Y. KEVIN HAGEN FOR THE WALL STREET JOURNAL

II as Hawkins



THE WALL STREET JOURNAL.

Popular

Latest

The Atlantic

IDEAS

Remote Learning Is a Bad Joke

My kid can't handle a virtual education, and neither can I.

Emily Gould

Author and essayist



RECOMMEN READING

IGHT TO YOU BY

Put Anthony Fauci in Dunk Tank

CONOR FRIEDERSDORF

Why Millennials Can



information sense-making transfer

Traditional model

class

information transfer

home

sense-making

Traditional model

class

information transfer

instructor-paced synchronous lecture

home

sense-making

self-paced asynchronous homework/study



information transfer

instructor-paced synchronous lecture

home

sense-making

self-paced asynchronous homework/study

class

information transfer

instructor-paced synchronous lecture

home

information transfer

instructor-paced synchronous **online** lecture

home

sense-making

self-paced asynchronous homework/study

class

information transfer

instructor-paced synchronous lecture

home

information transfer

instructor-paced asynchronous recorded lecture

home

sense-making

self-paced asynchronous home work/study

class

information transfer

instructor-paced synchronous lecture

information traissir

home

ho

instructor-paced asynchronous recorded lecture

self-paced asynchronous home work/study



Traditional model

class

information transfer

home

sense-making



Traditional model

class

information transfer

home

sense-making

Flipped model

home

information transfer

class

sense-making

Flipped model

home

information transfer

self-paced asynchronous

class

sense-making

instructor-led synchronous & interactive

Flipped model

home

information transfer

self-paced asynchronous

& interactive

Perusall

class

sense-making

instructor-led synchronous **& interactive**

perusall.com

Flipped model online

home

information transfer

self-paced asynchronous **& interactive**

class

sense-making

instructor-led synchronous & interactive

Flipped model online

home

information transfer

self-paced asynchronous **& interactive**

home

sense-making

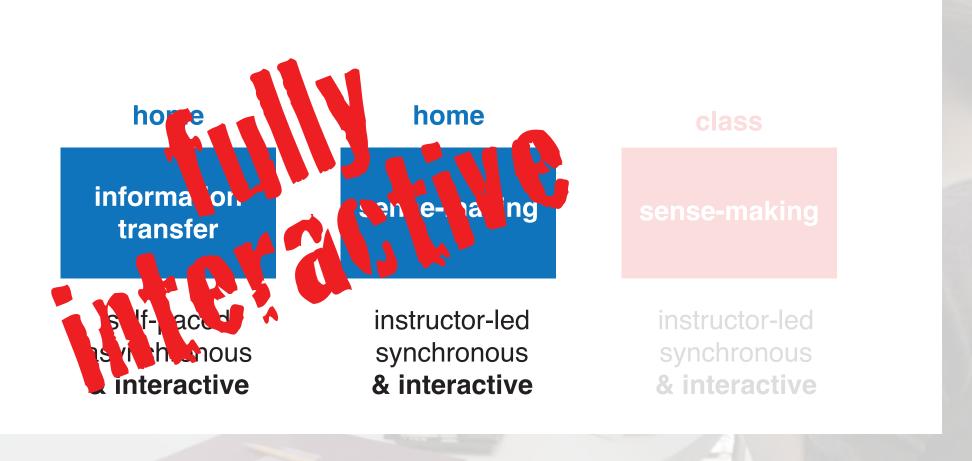
instructor-led synchronous **& interactive**

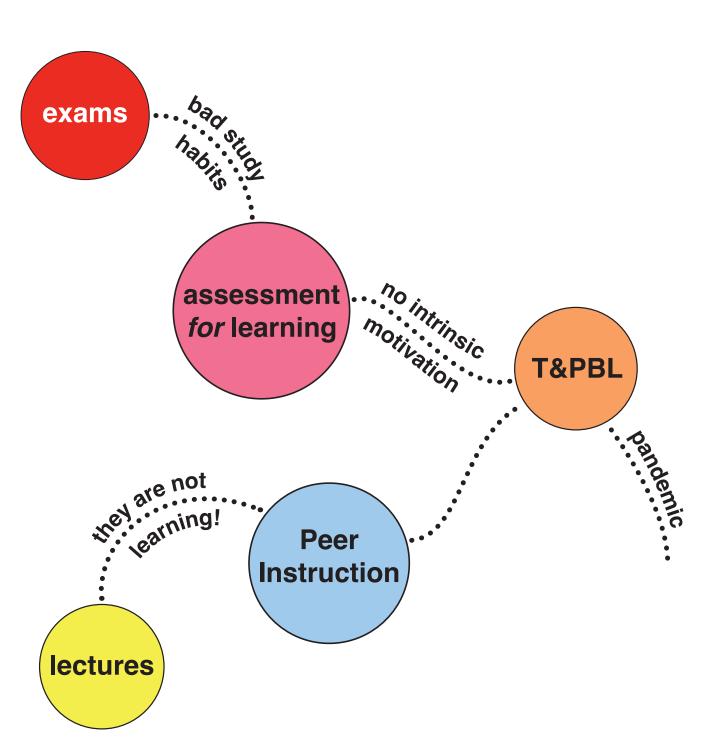
class

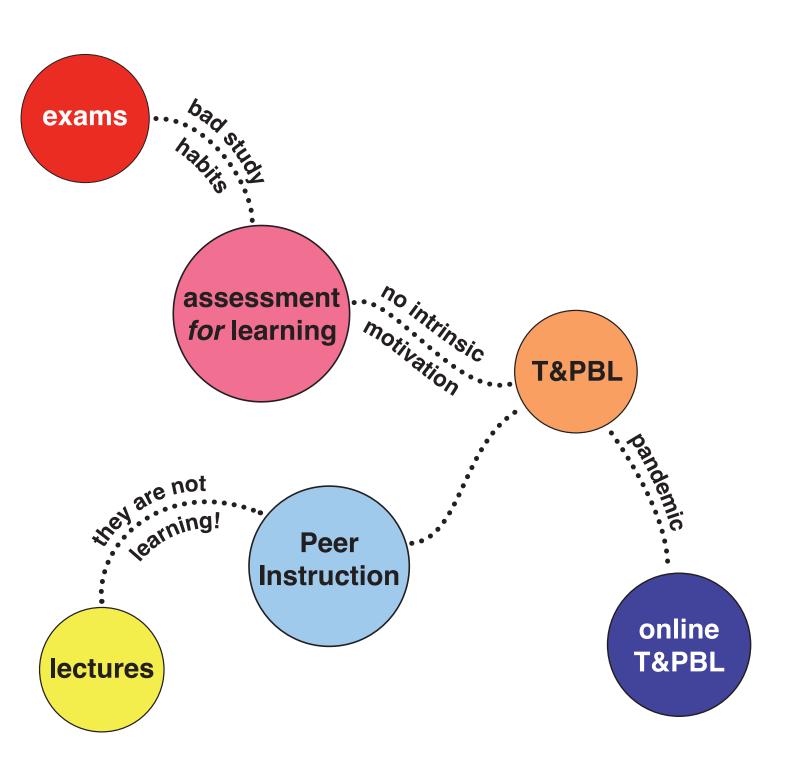
sense-making

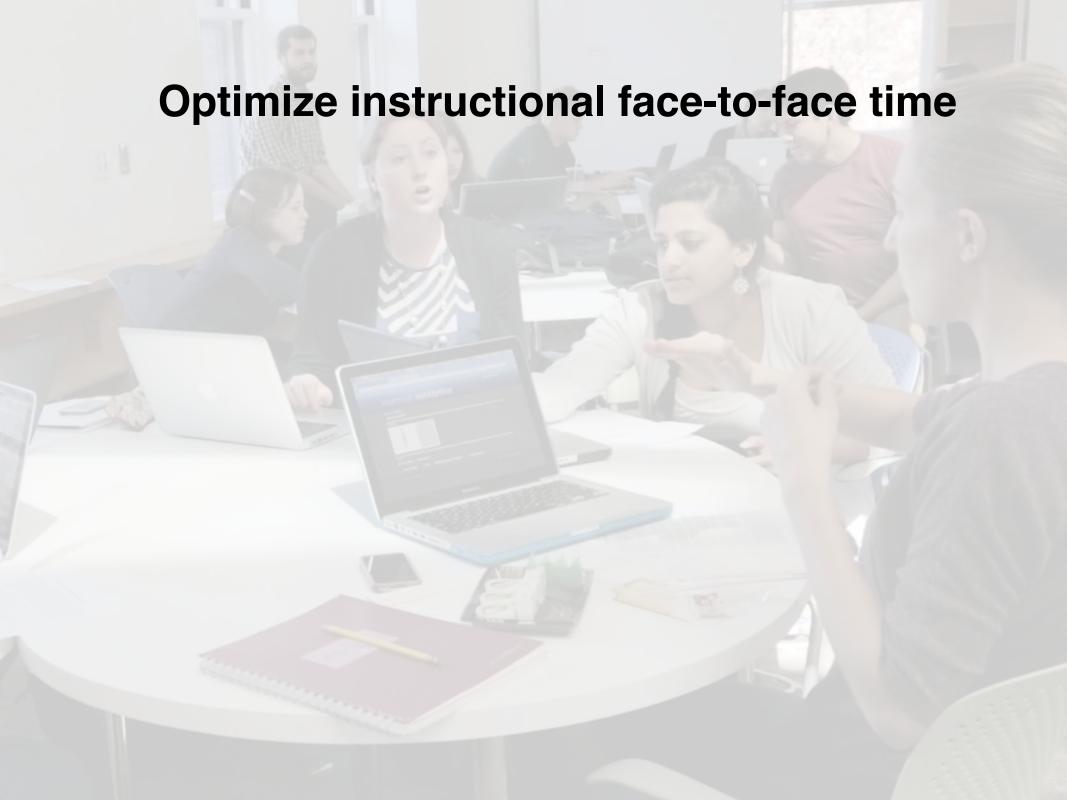
instructor-led synchronous & interactive

Flipped model online









home

information transfer

self-paced asynchronous **& interactive**

home

sense-making

instructor-led synchronous & interactive

class

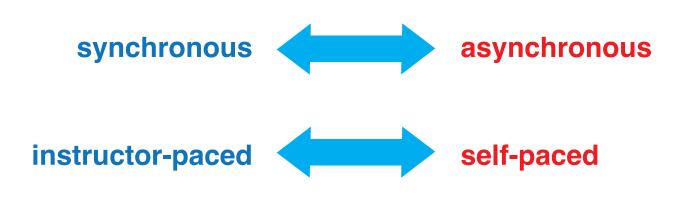
sense-making

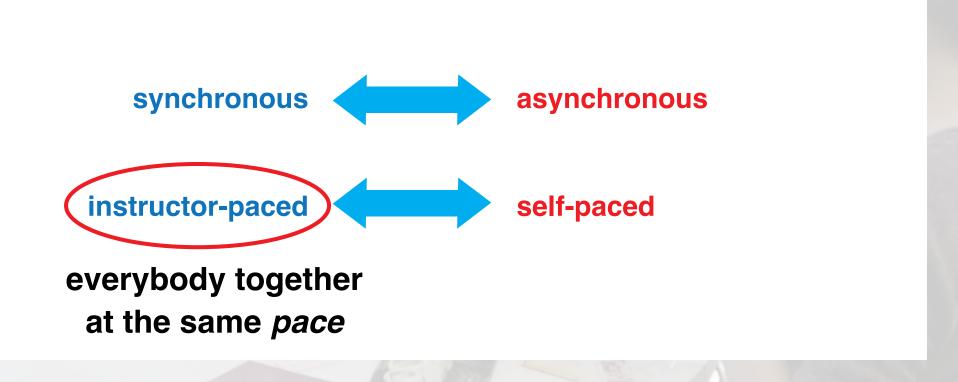
instructor-led synchronous & interactive





everybody together at the same *time*







synchronous

instructor-paced





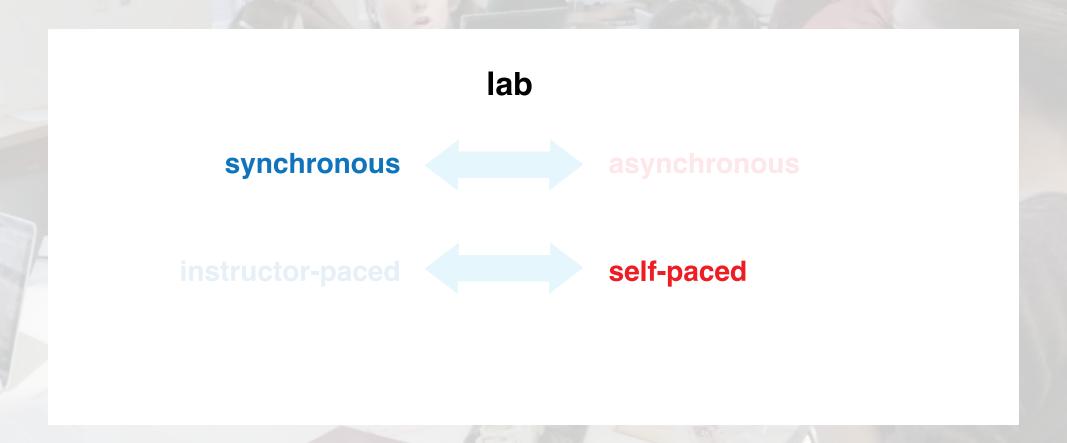
instructor-paced







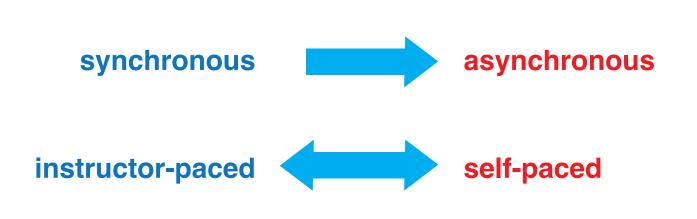


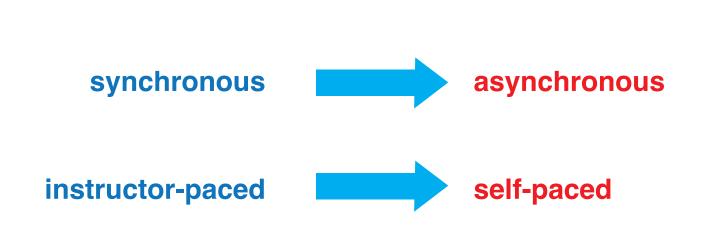


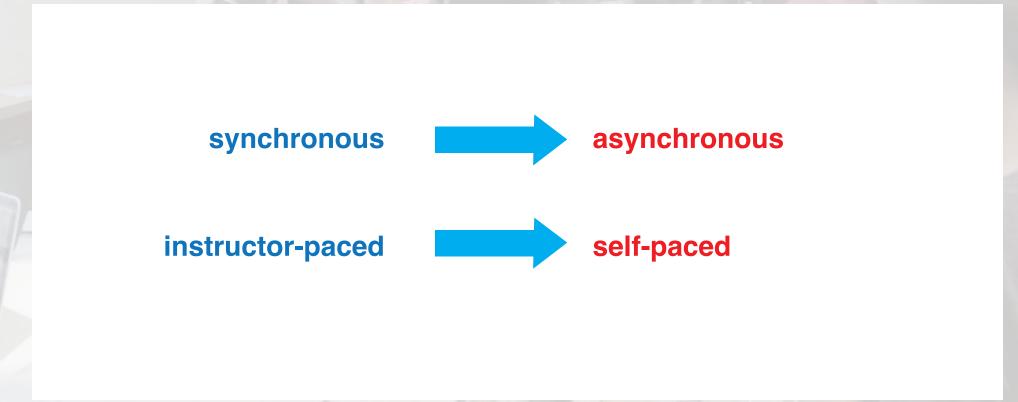




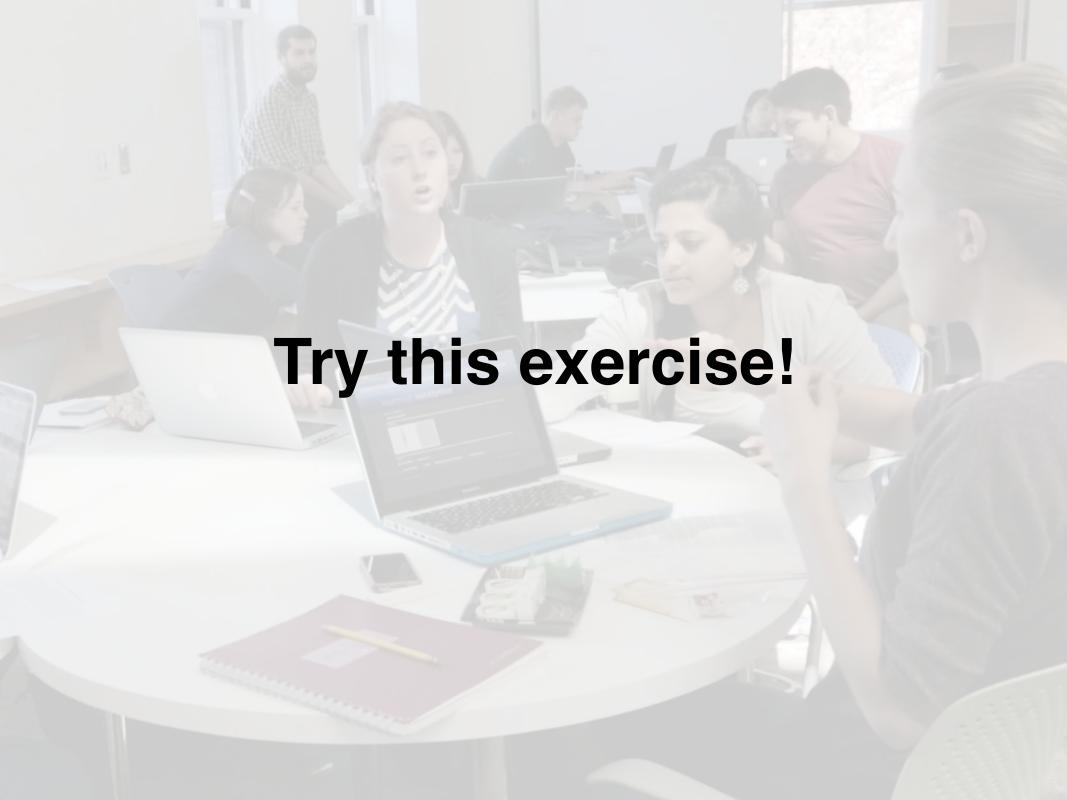
instructor-paced self-paced







more time to help students where it really matters!



synchronous

collaborative work

asynchronous



synchronous

collaborative work

- inefficient team work
- not all students engaged
- poor use of staff time
- no quality control

asynchronous



synchronous

collaborative work

- inefficient team work
- not all students engaged
- poor use of staff time
- no quality control

asynchronous





synchronous

team work

asynchronous



synchronous

collaborative work

- inefficient team work
- not all students engaged
- poor use of staff time
- no quality control

asynchronous





synchronous

team work

efficient team work

asynchronous



synchronous

collaborative work

- inefficient team work
- not all students engaged
- · poor use of staff time
- no quality control

asynchronous

individual work

all engaged





efficient team work

asynchronous



synchronous

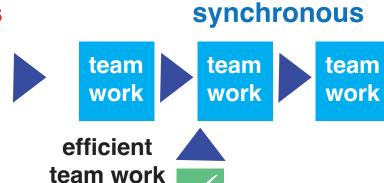
collaborative work

- inefficient team work
- not all students engaged
- · poor use of staff time
- no quality control

asynchronous

individual work

all engaged



quality control

asynchronous



synchronous

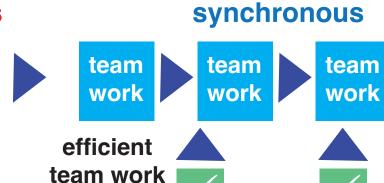
collaborative work

- inefficient team work
- not all students engaged
- · poor use of staff time
- no quality control

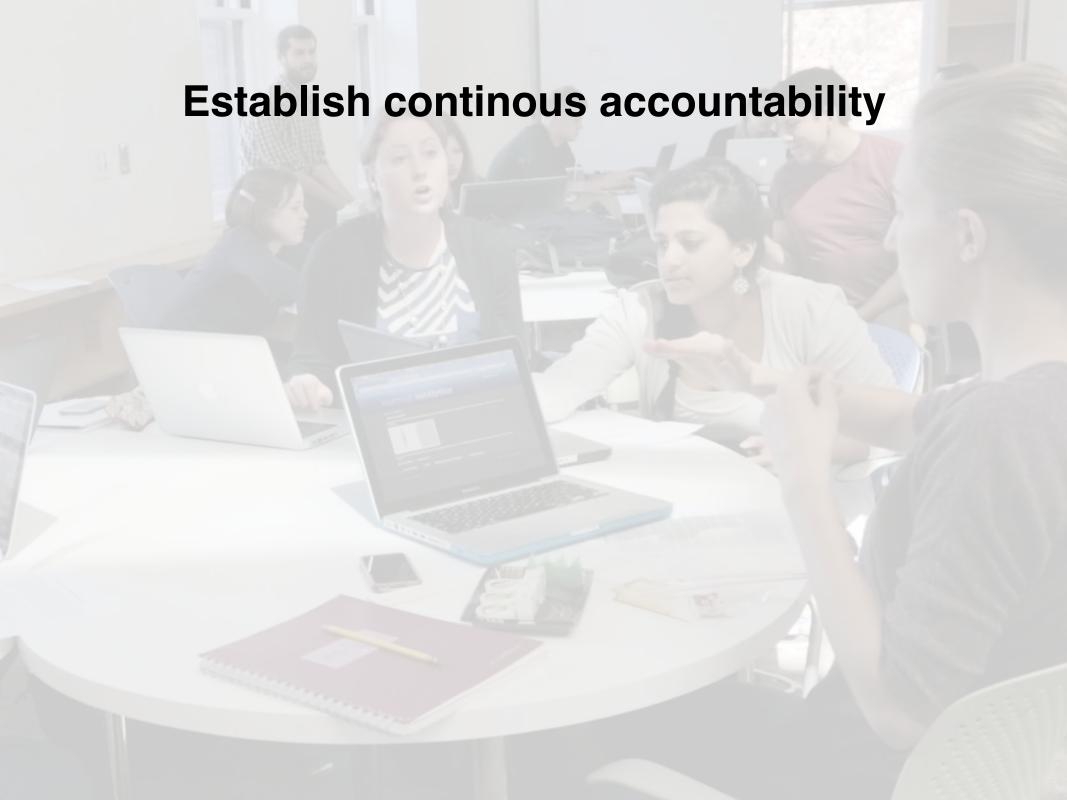
asynchronous

individual work

all engaged



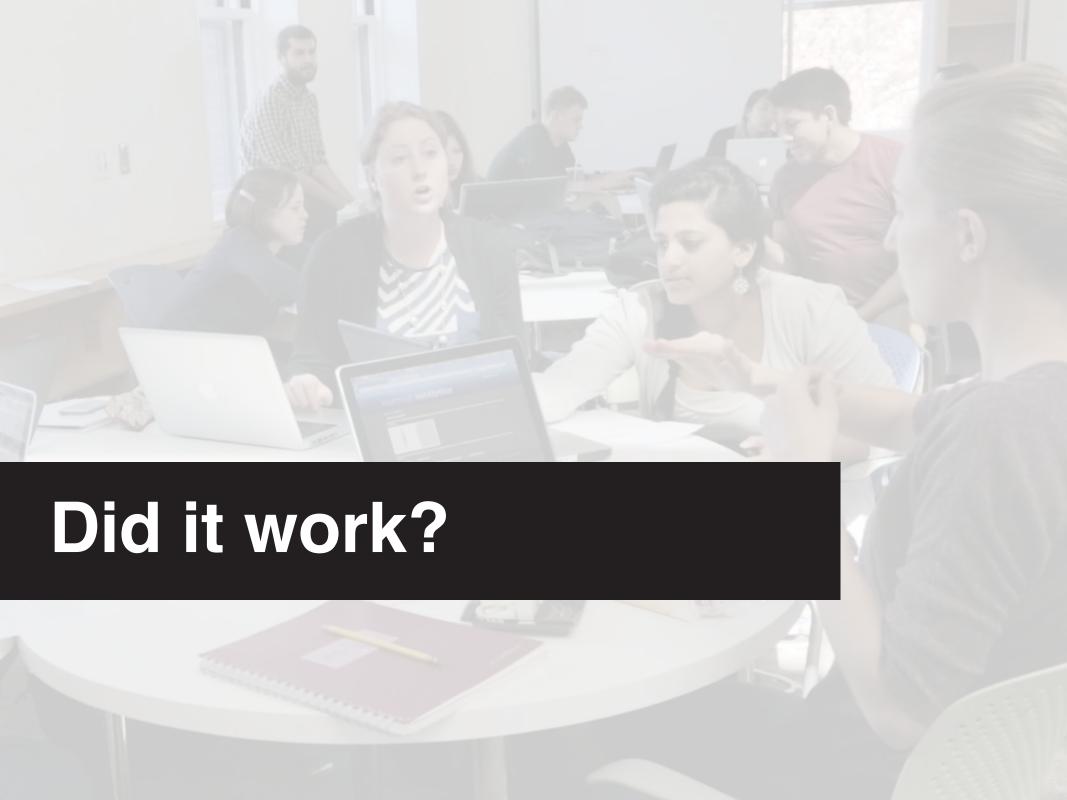
quality control & optimize staff time

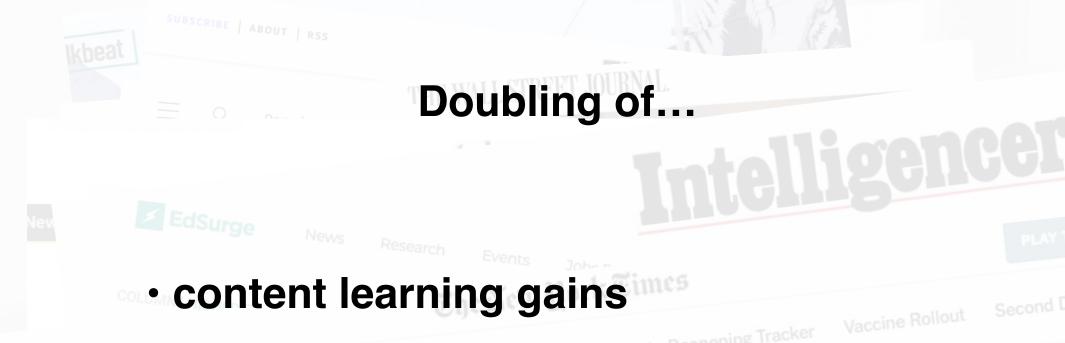


Establish continous accountability

Specifications grading

Inside Higher Ed, Yes, Virginia, there is a better way to grade





• physics self-efficacy gains

Research Shows Students Falling Months Behind During Virus Disruptions

The abrupt switch to remote learning wiped out academic gains for many students in America, and widened racial and economic gaps. Catching up in the fall won't be easy.



What did students say?

e Coronavirus Outbreak

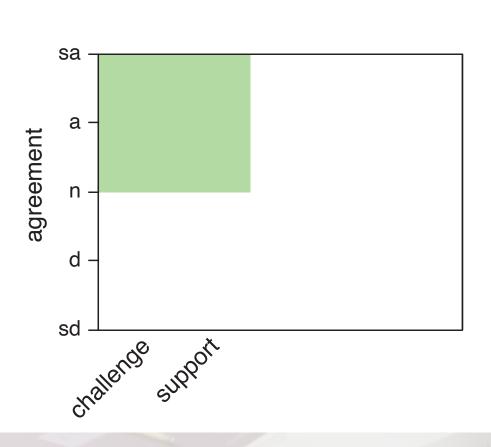
Research Shows Students Falling Months Behind During Virus Disruptions

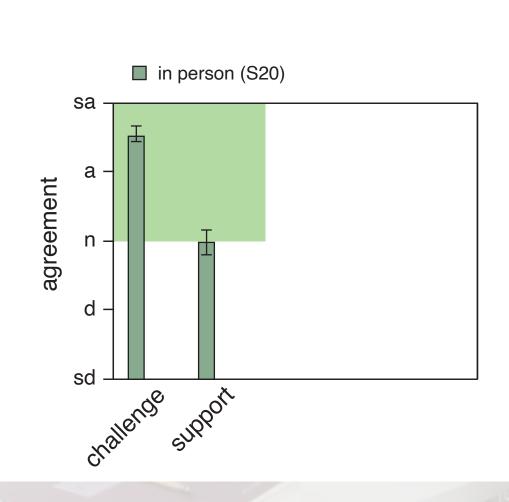
The abrupt switch to remote learning wiped out academic gains for many students in America, and widened racial and economic gaps. Catching up in the fall won't be easy.

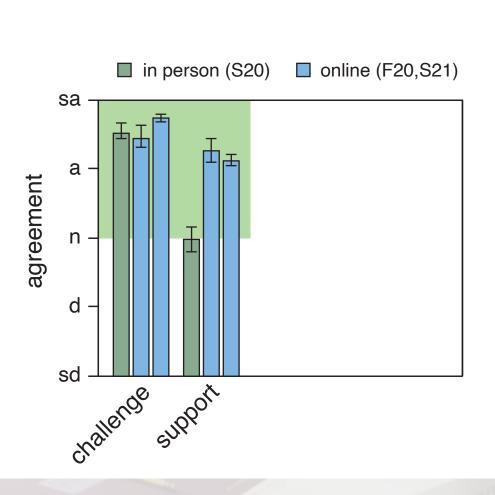
Agile Feedback Survey (Talbert)

- 1. I was challenged intellectually
- 2. I had plenty of support
- 3. I am closer to mastering the ideas of the course now
- 4. I made progress because of my own efforts and choices
- 5. I felt I was part of a community of learners

- 1. I was challenged intellectually
- 2. I had plenty of support
- 3. I am closer to mastering the ideas of the course now
- 4. I made progress because of my own efforts and choices
- 5. I felt I was part of a community of learners







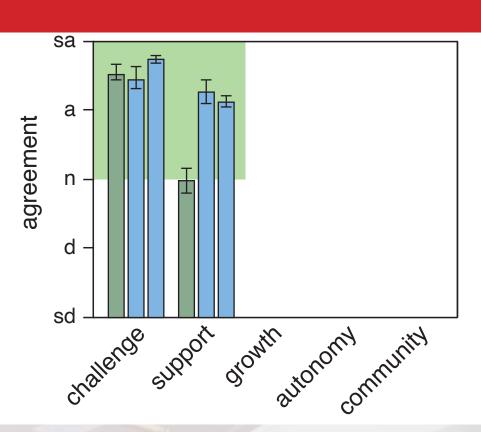


- 1. I was challen so mellectually (challenge)

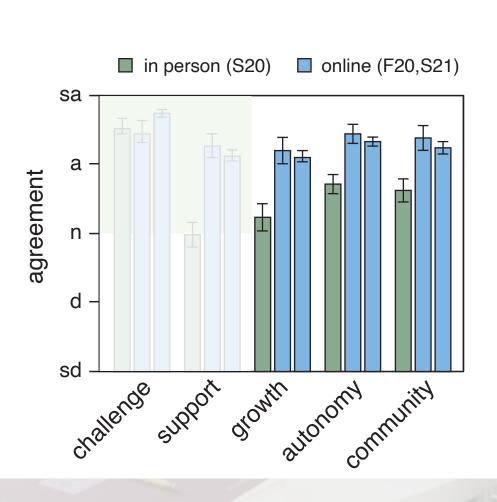
 2. had pienty a support (support)
- 3. I am closer to mastering the ideas of the course now (growth)
- 4. I made progress because of my own efforts and choices (auton.)
- 5. I felt I was part of a community of learners (relatedness)

self-determination

What do you predict?



self-determination

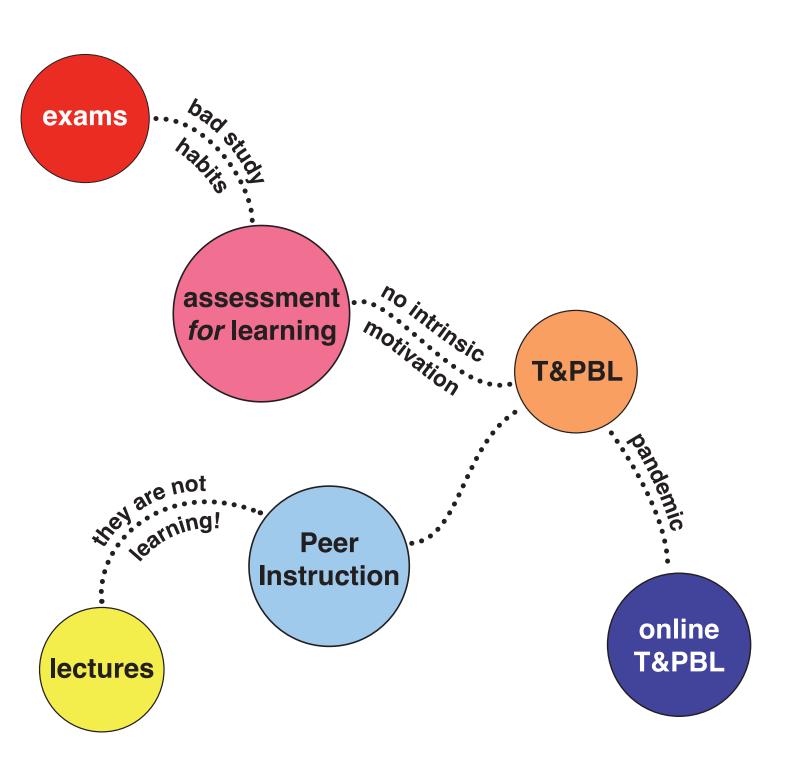


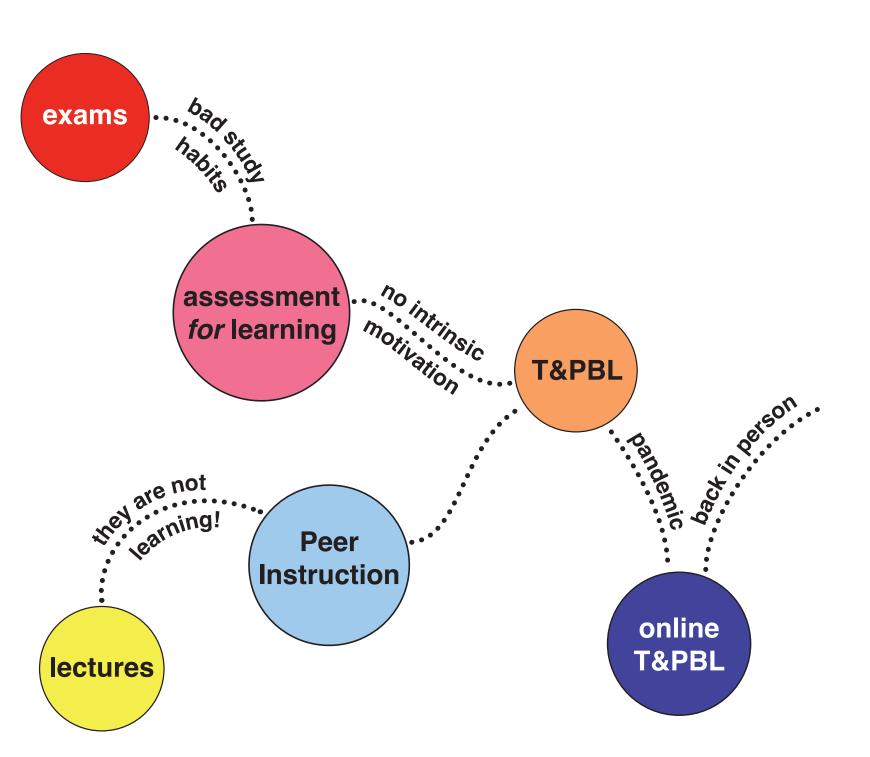


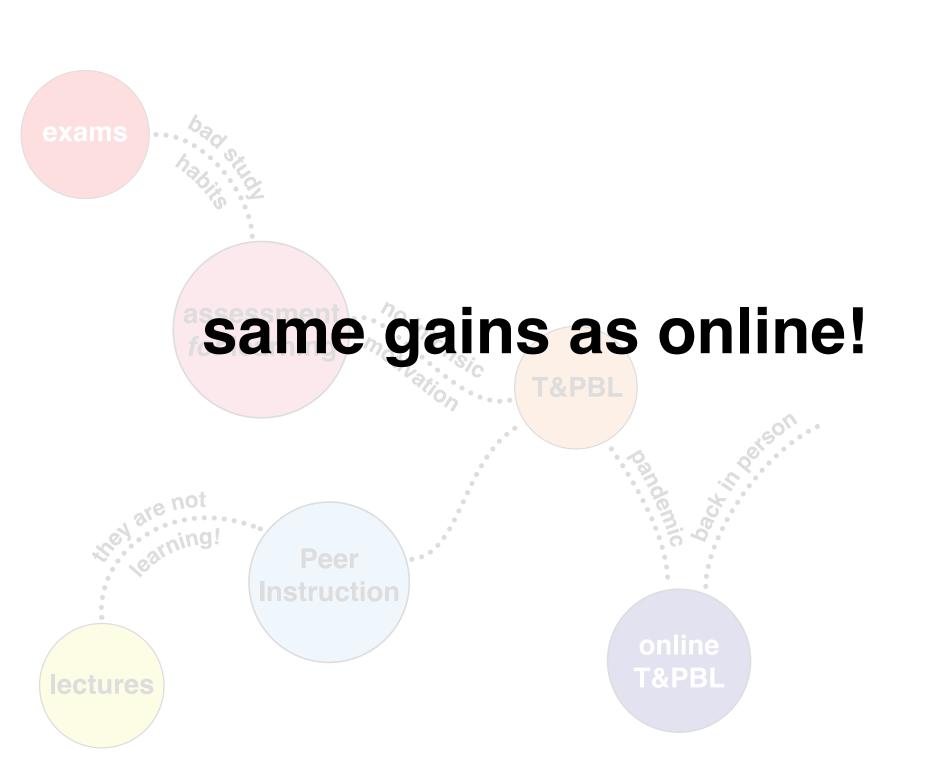
I did my best teaching ever online!

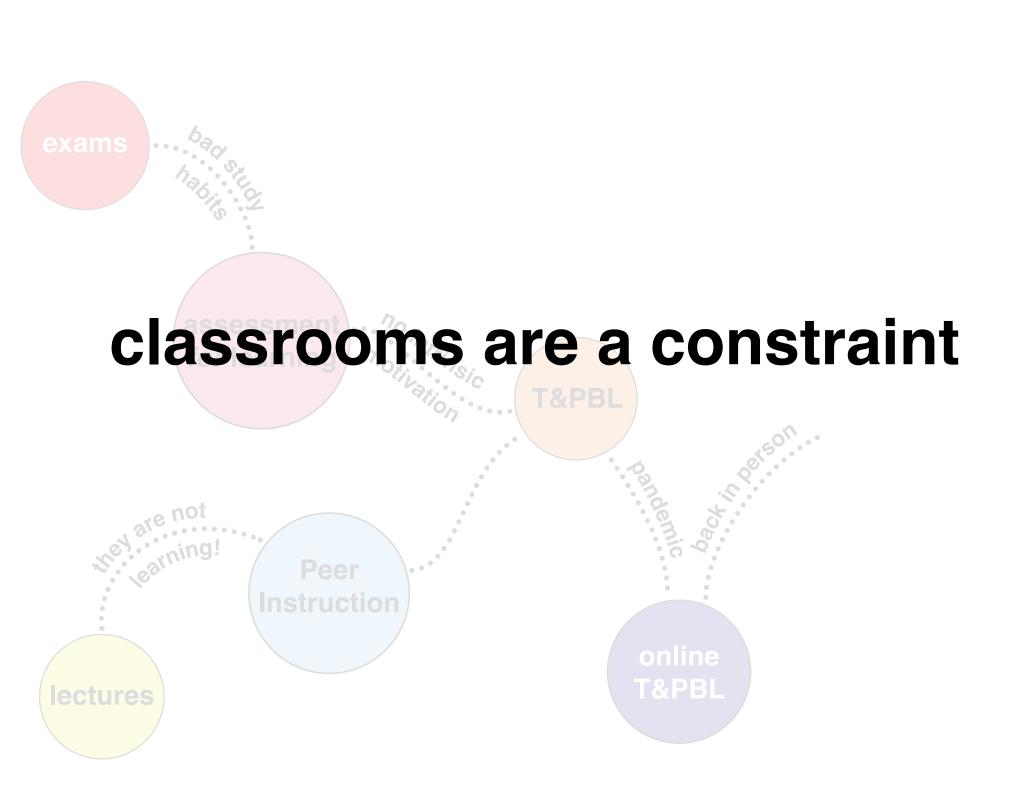
Research Shows Students Falling Months Behind During Virus Disruptions

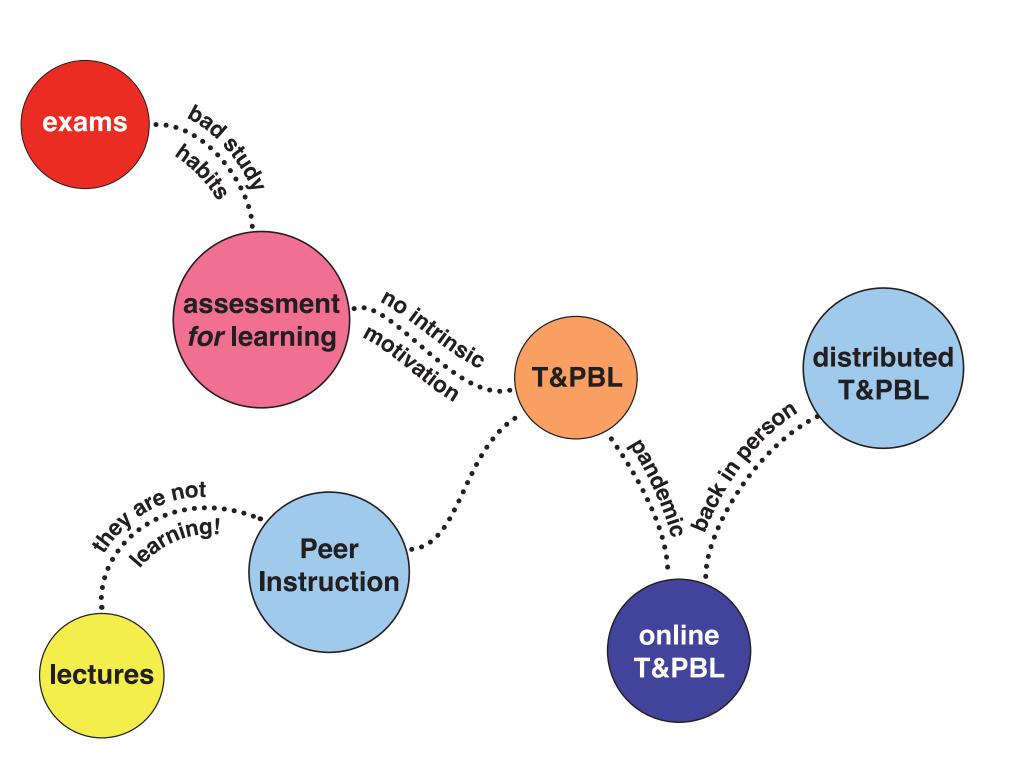
The abrupt switch to remote learning wiped out academic gains for many students in America, and widened racial and economic gaps. Catching up in the fall won't be easy.











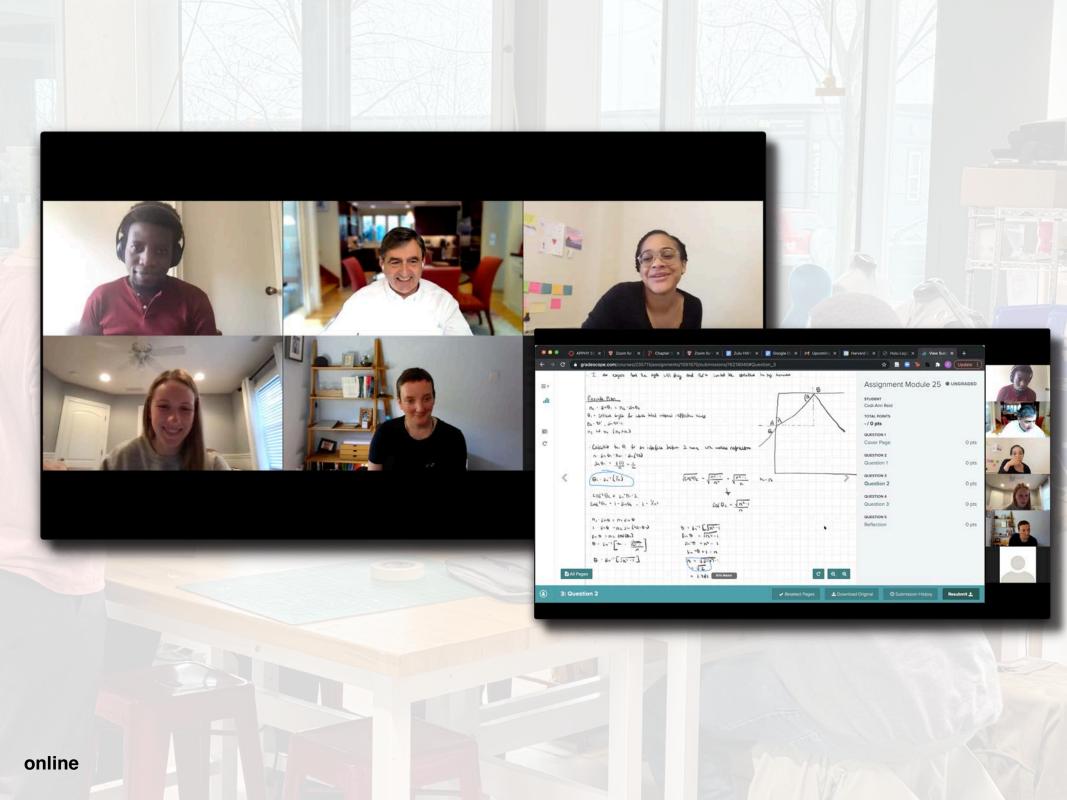




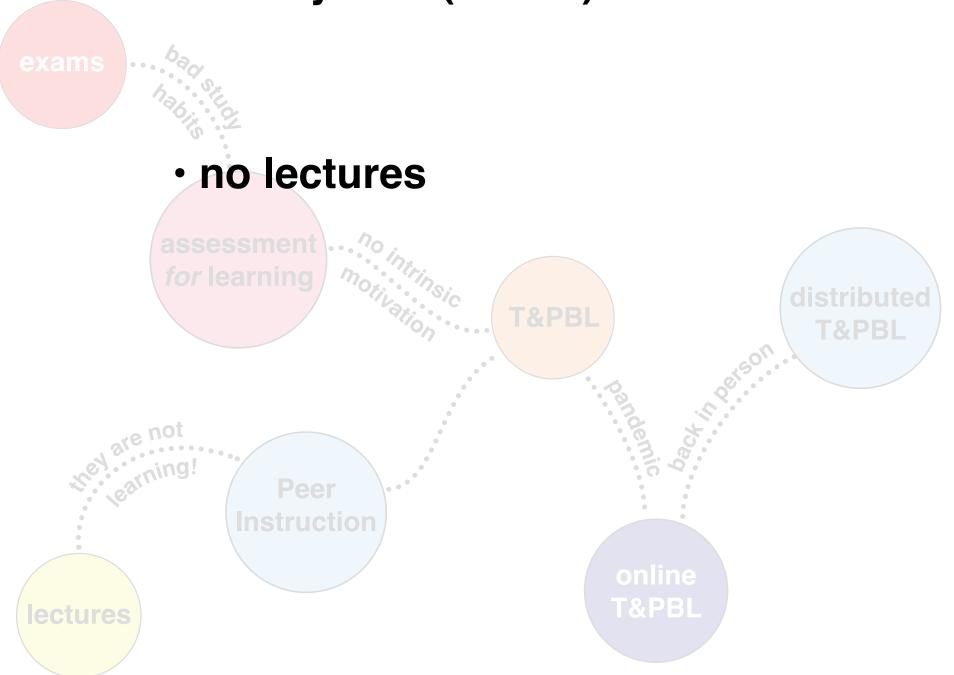


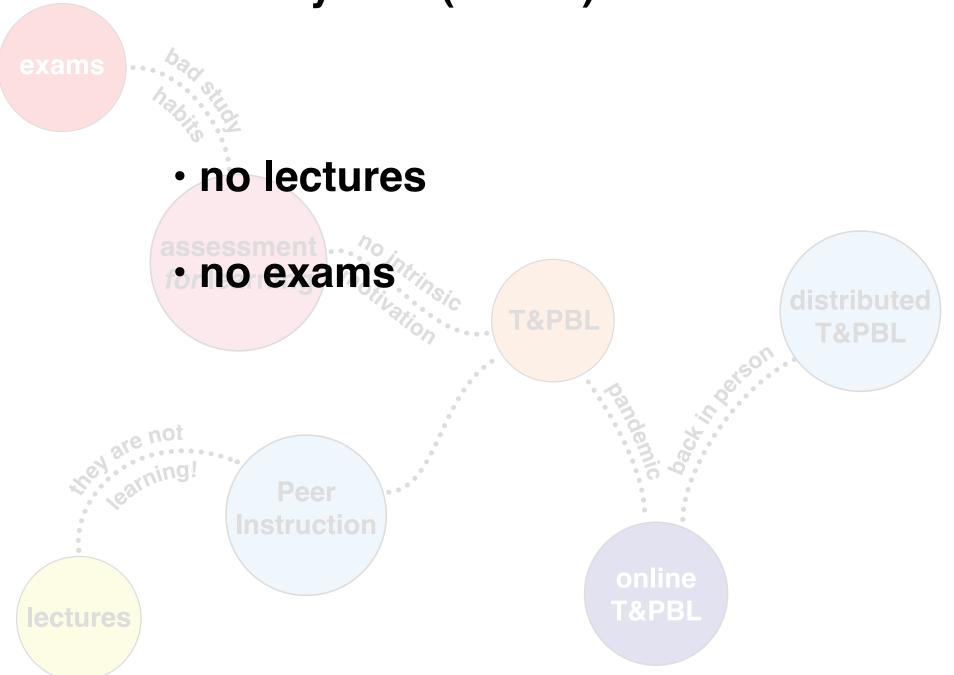


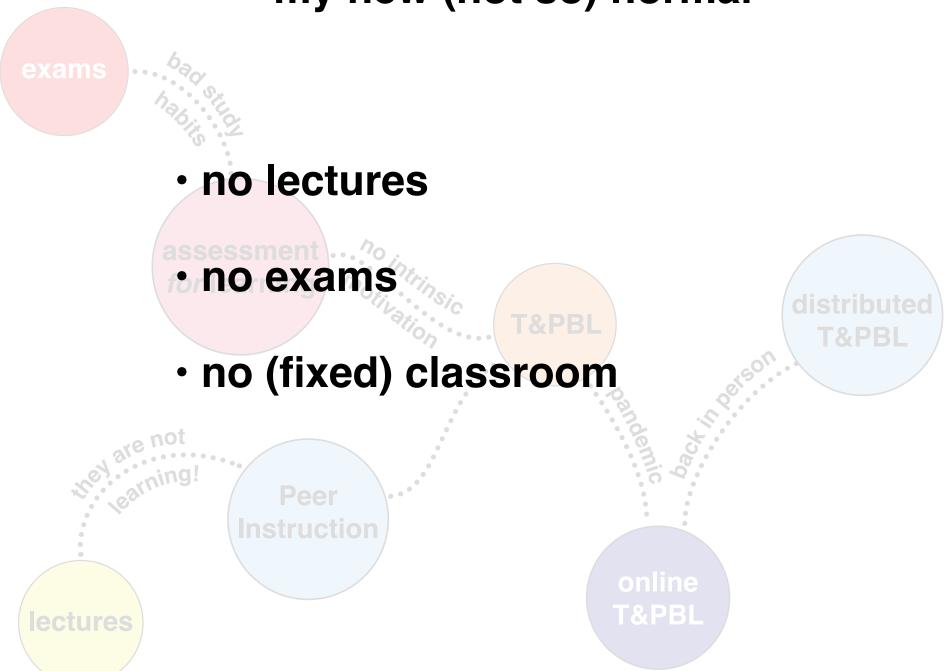














· no lectures

• no exams

no (fixed) classroom

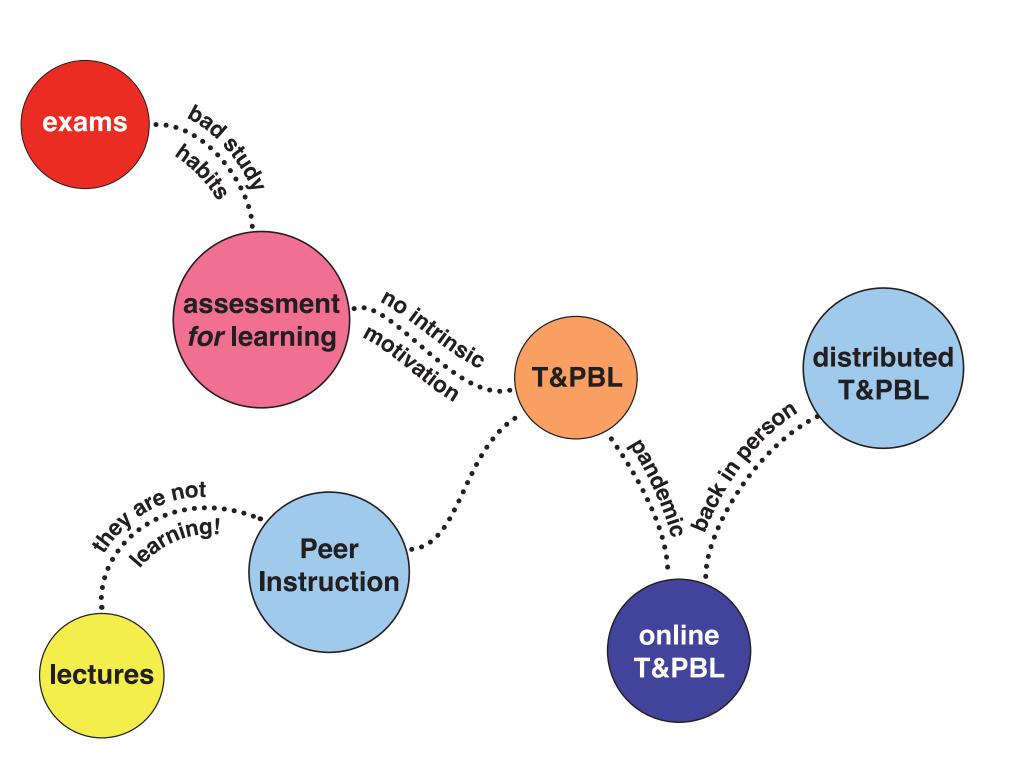
· no (fixed) start or end time

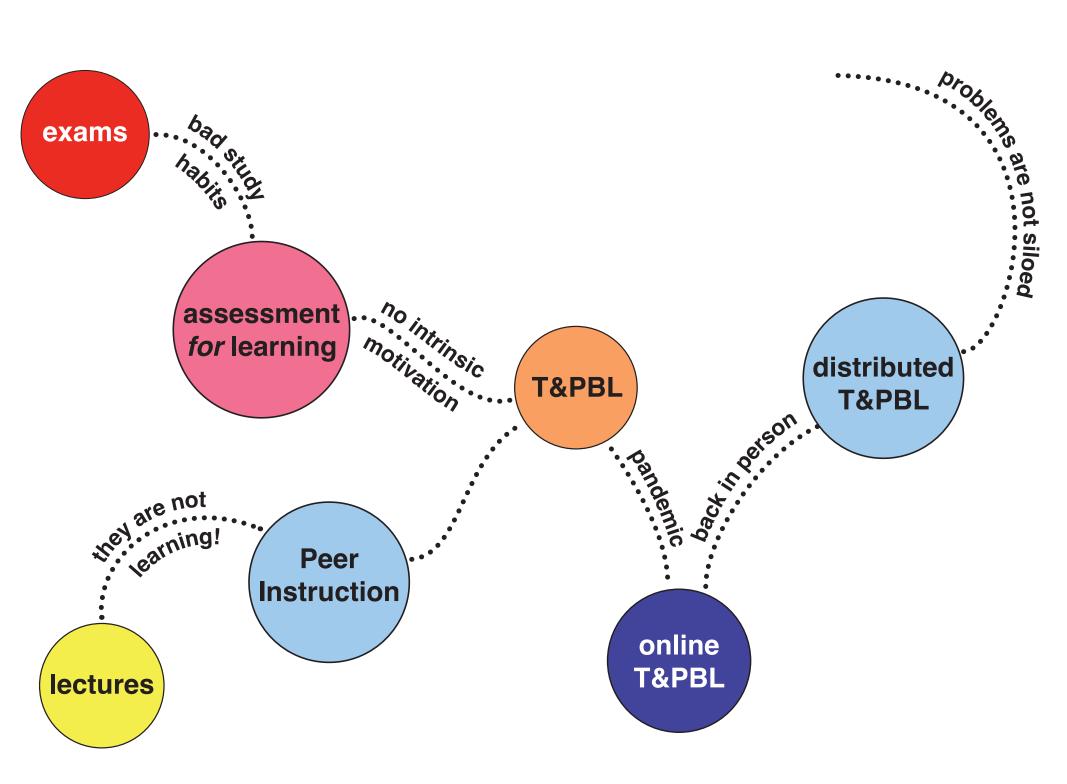
Instruction

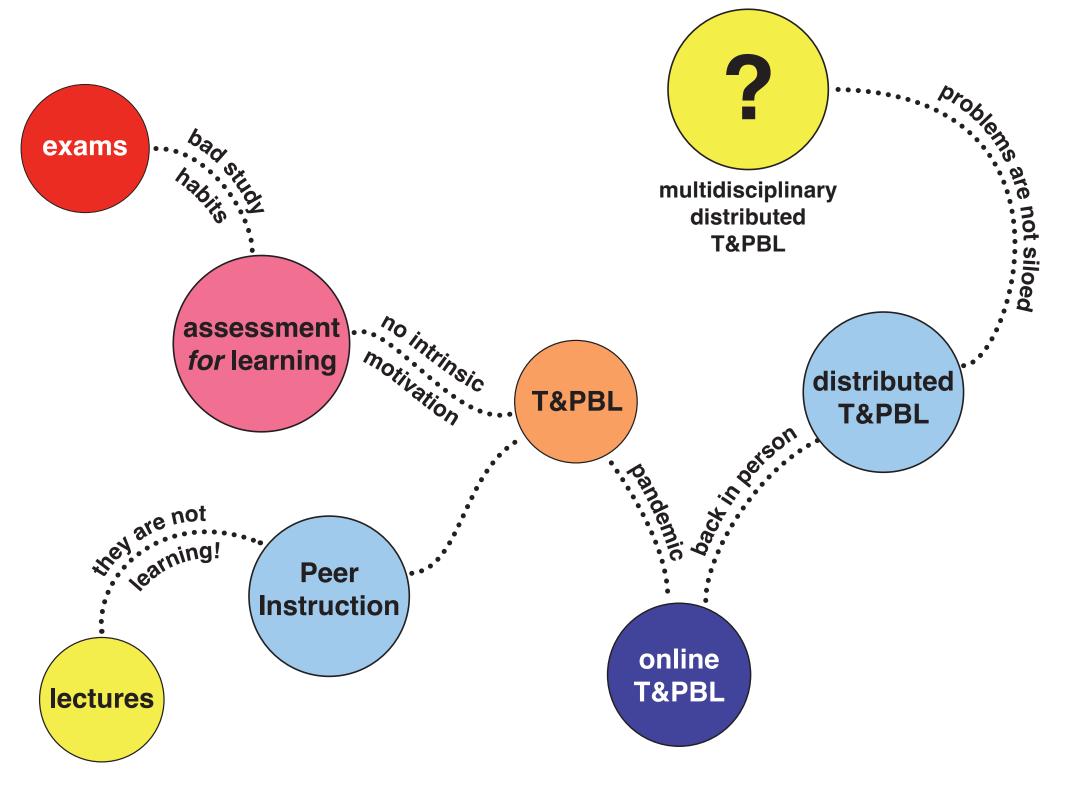
online T&PBL

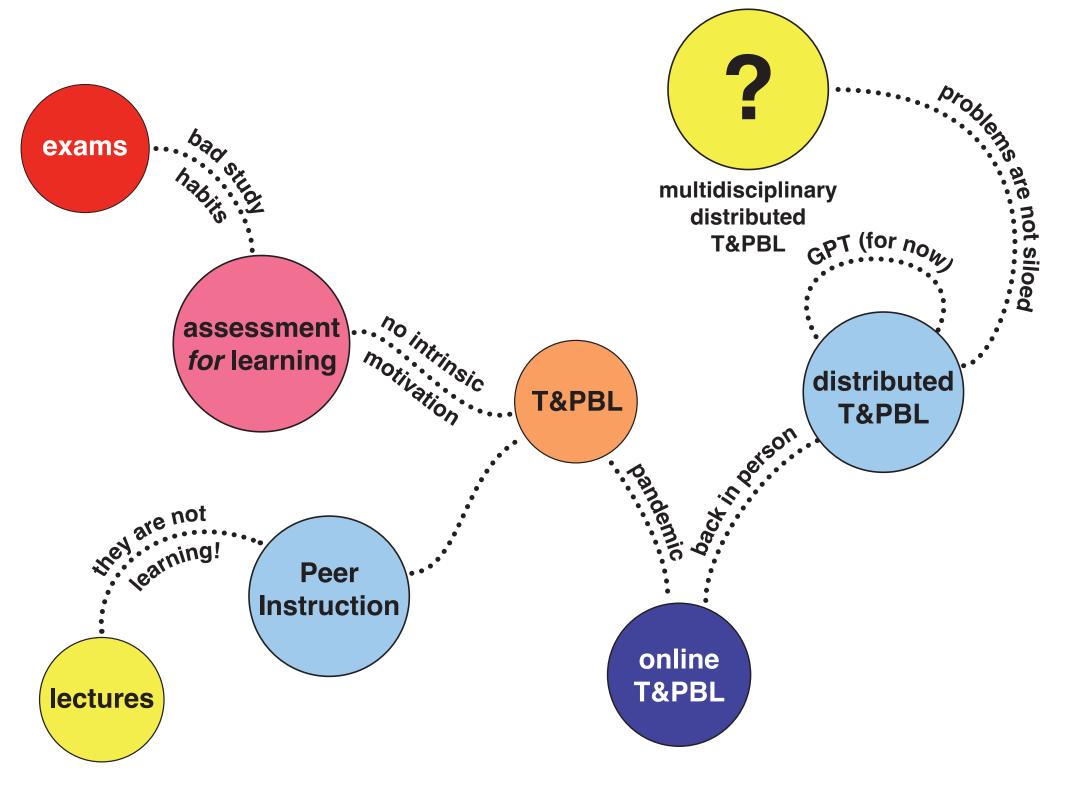


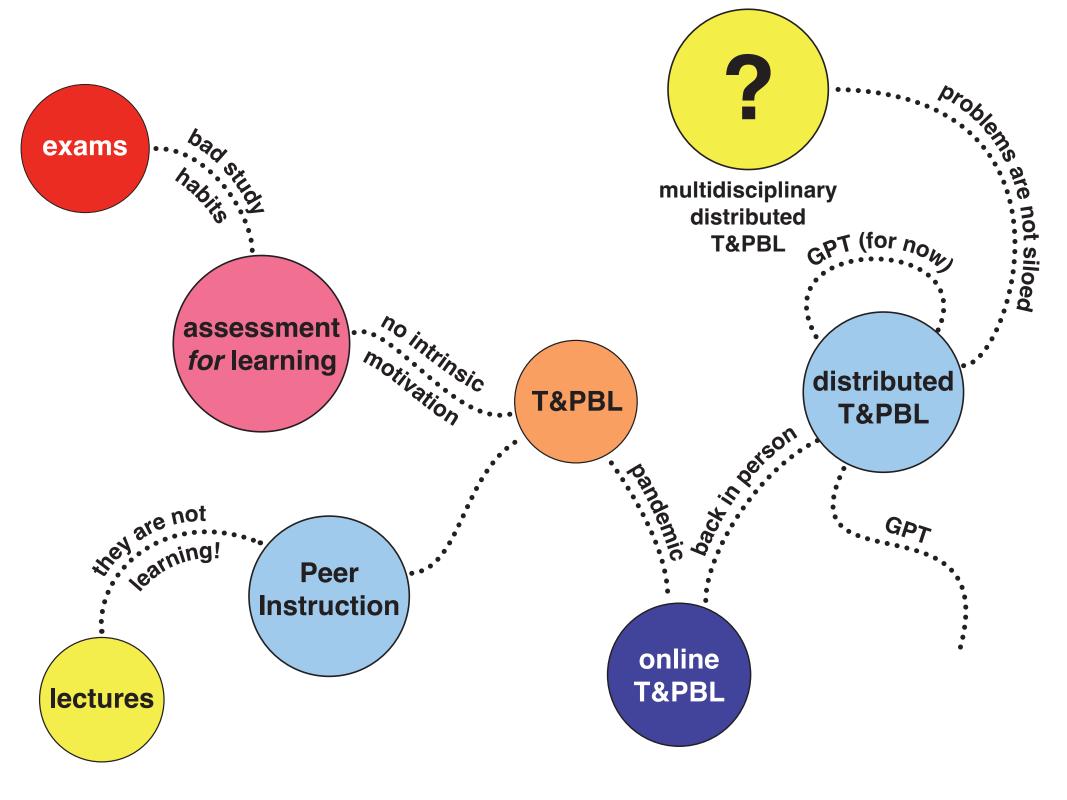
lectures

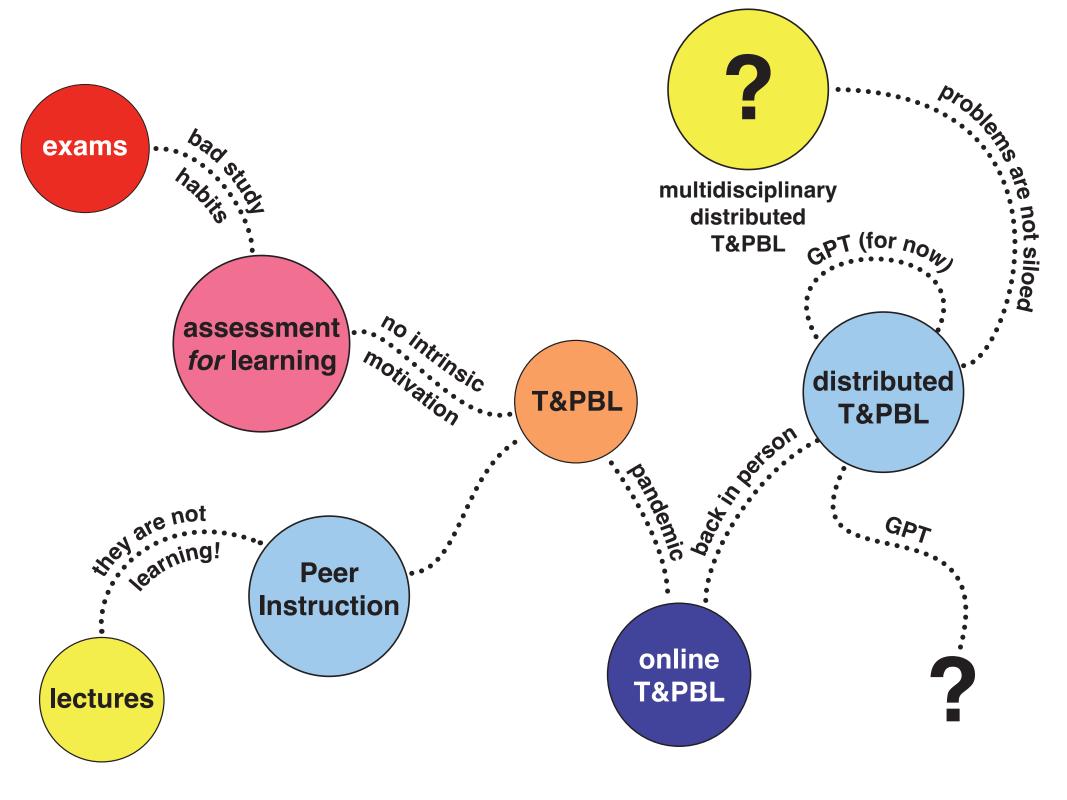


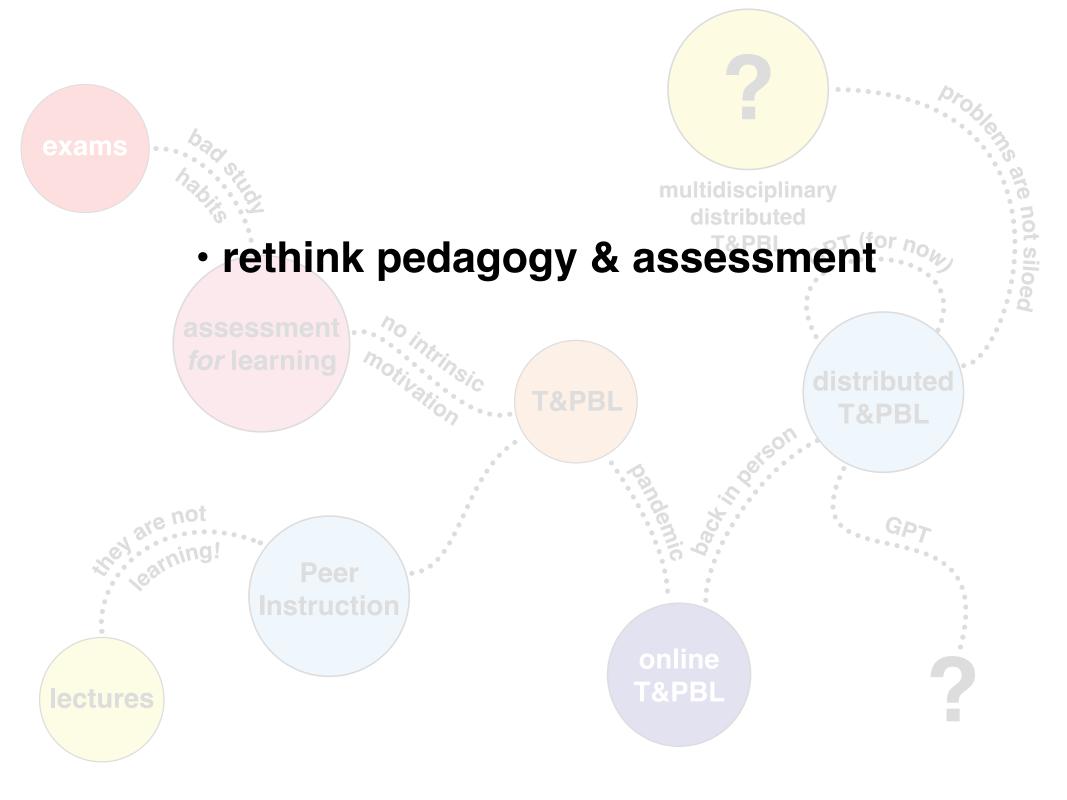


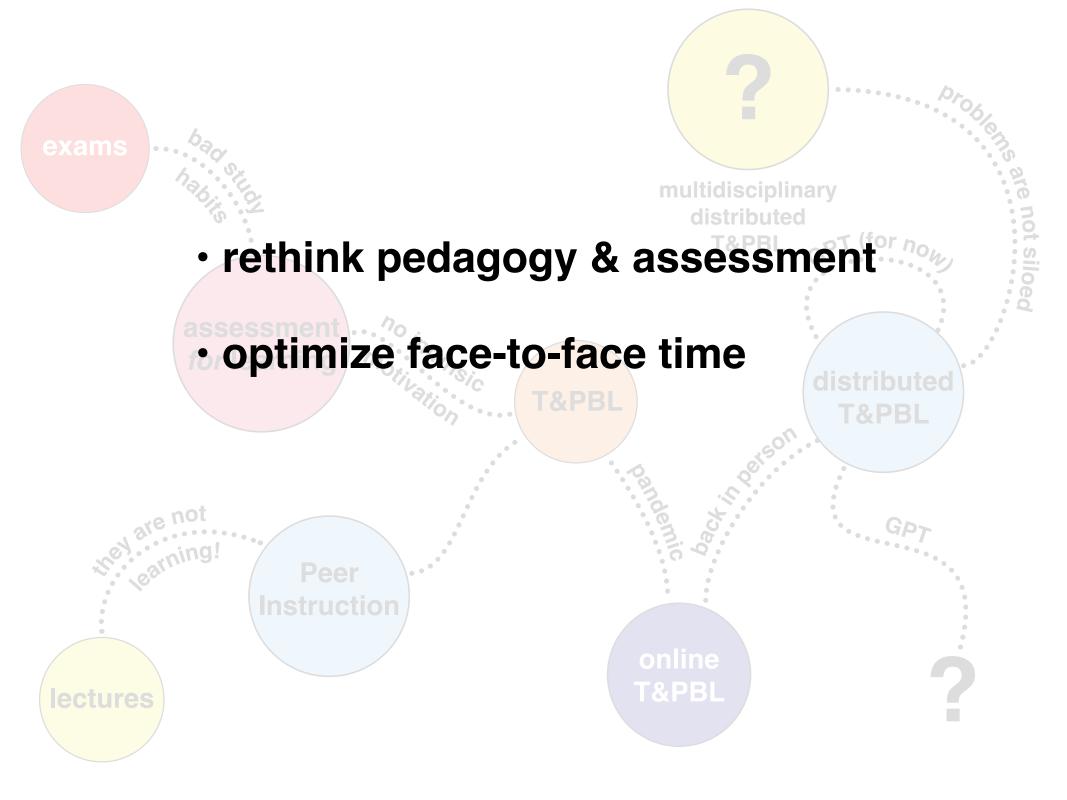


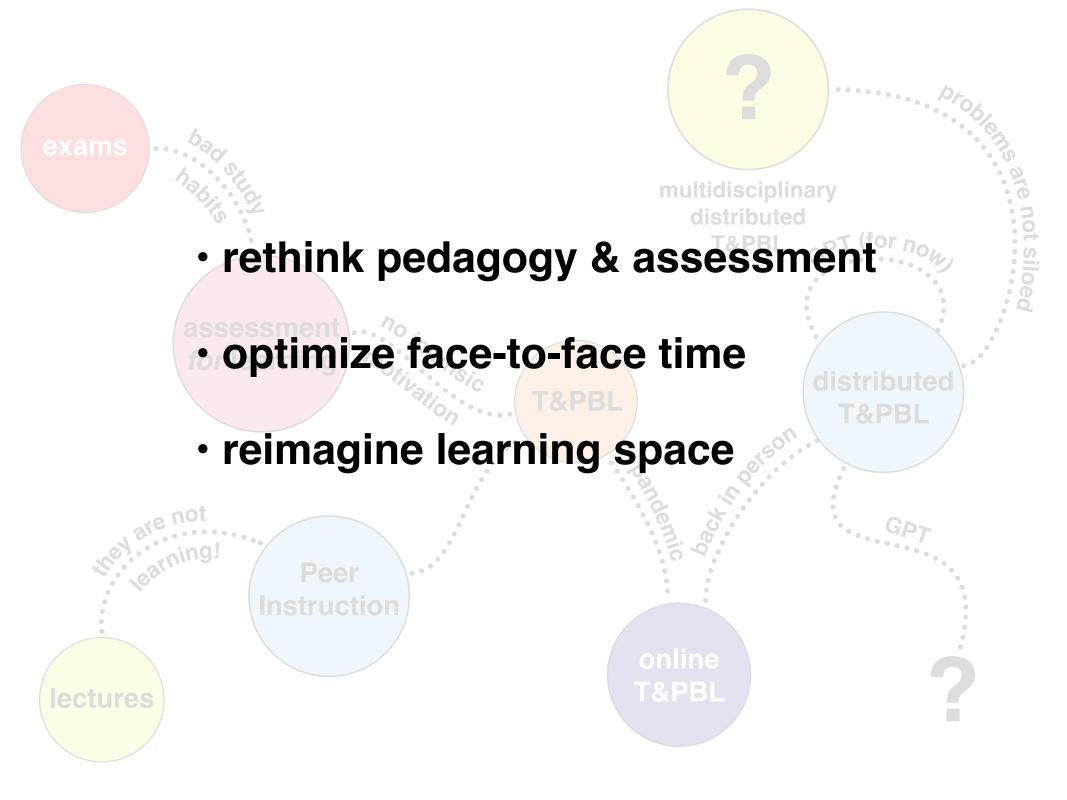












for a copy of this presentation:

mazur.harvard.edu

course Canvas page:

bit.ly/erics_course

Follow me!



@eric_mazur