# Setting Learning Free: Lessons from online teaching during the pandemic





# **Setting Learning Free: Lessons from online teaching during the pandemic**









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Yuval Noah Harari MARCH 20 2020

# Yuval Noah Harari: the world after coronavirus

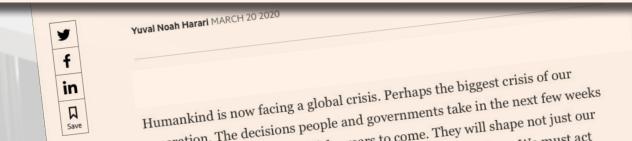
This storm will pass. But the choices we make now could change our lives for years to come



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





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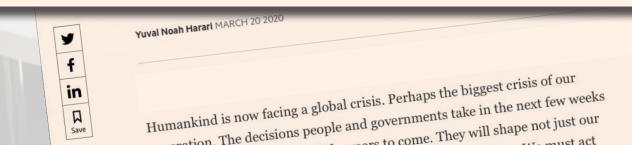


Yuval Noah Harari MARCH 20 2020



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 Will remote 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.



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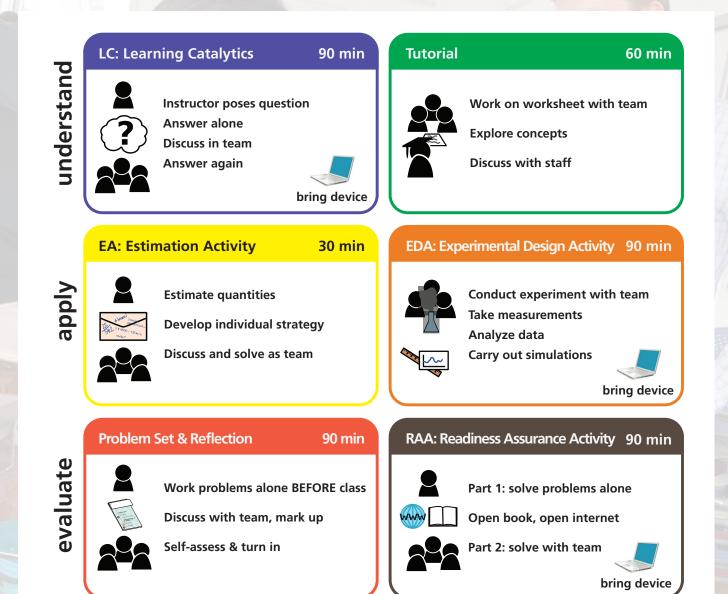






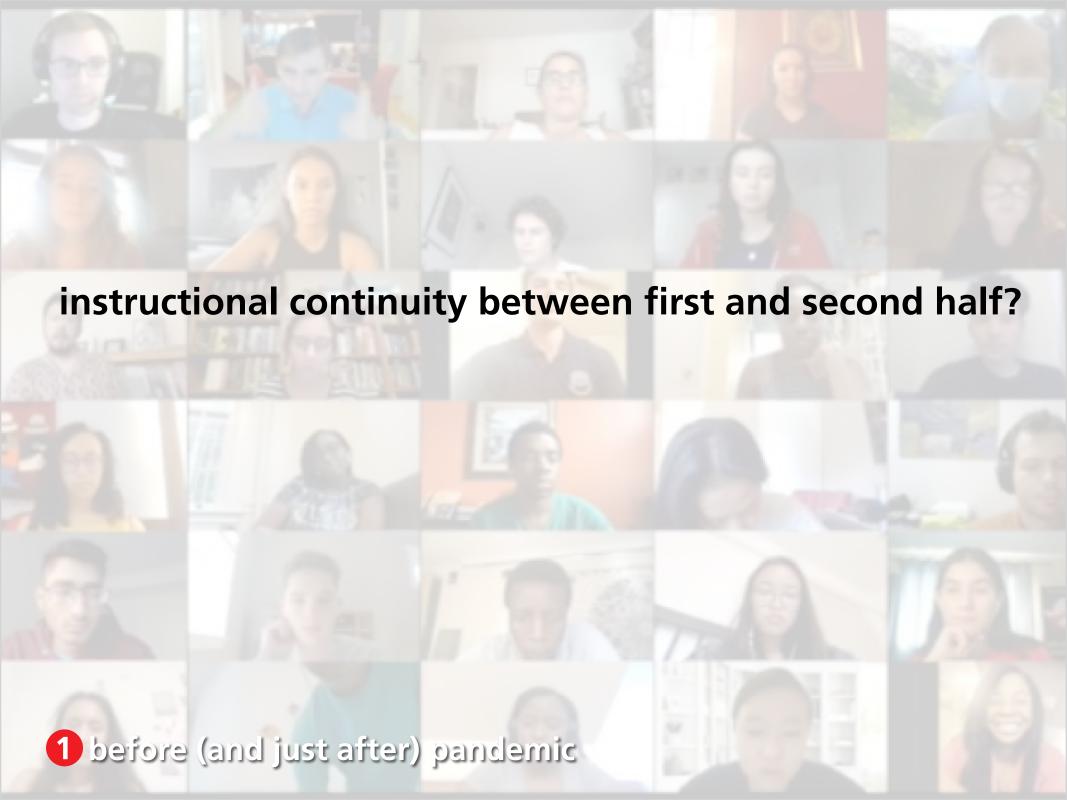


#### blend of 6 scaffolded "best practices"









instructional continuity between first and second half? 86% agreed 1 before (and just after) pandemic



"How can I transfer online what I do in the classroom?"

"How can I transfer online what I do in the classroom?"

(challenge)

"How can I transfer onling what I do in the classroom?"

(chare)

"How can I transfer online what I do in the classroom?"

(chare)

"What can I do online that I cannot do in the classroom?"

(opportunity)

# **Changes implemented**

Optimize face-to-face time

### Changes implemented

Optimize face-to-face time

Personalize instruction

#### Changes implemented

Optimize face-to-face time

Personalize instruction

Establish continous accountability

#### Optimize face-to-face time

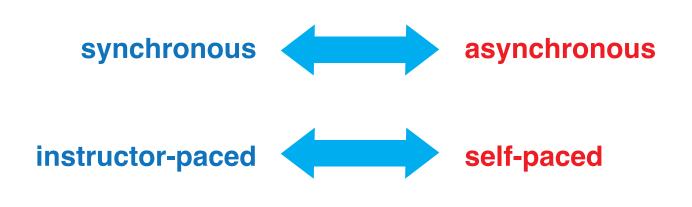
instructional face-to-face time

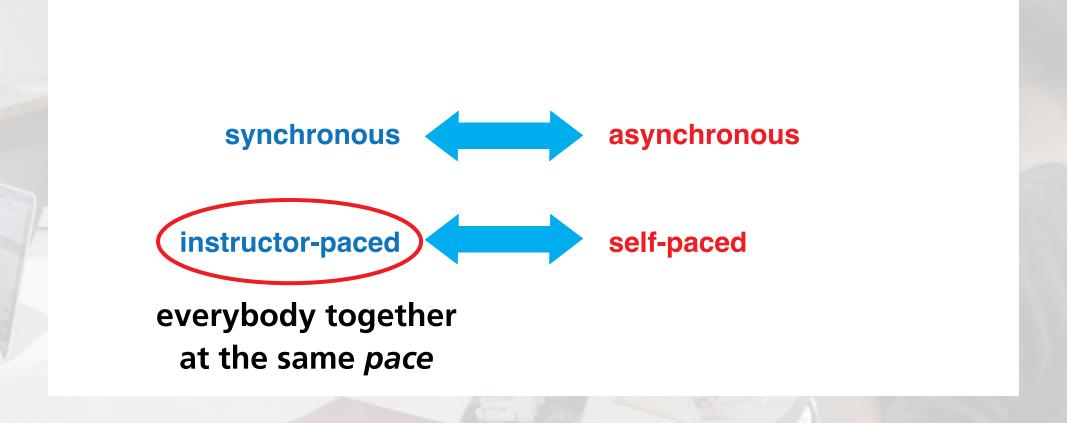
team face-to-face time

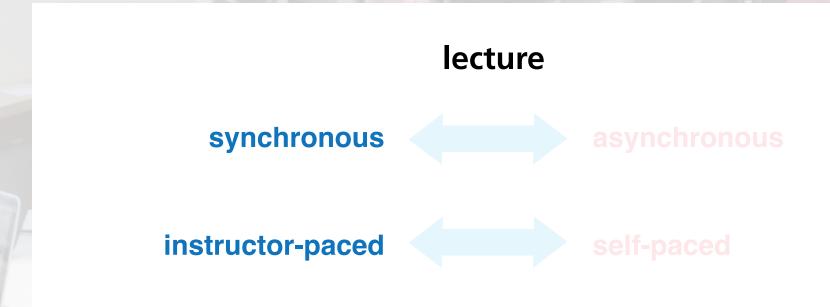




everybody together at the same *time* 







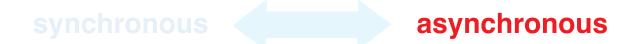


synchronous asynchronous

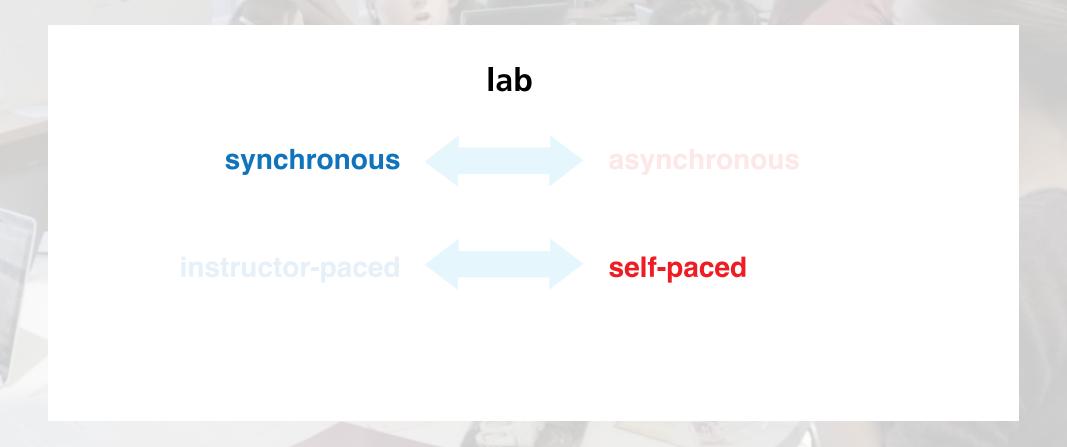
instructor-paced









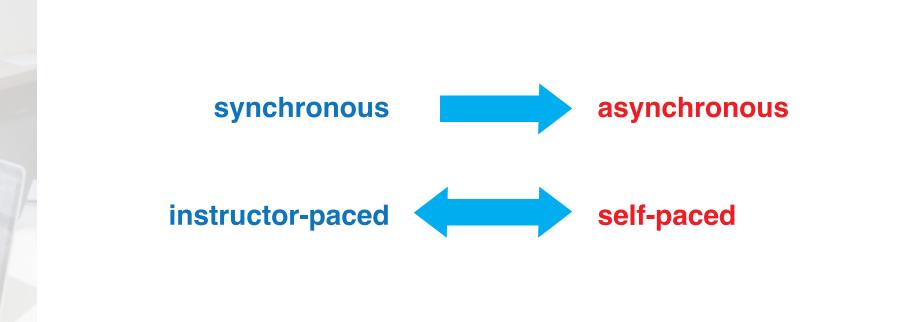


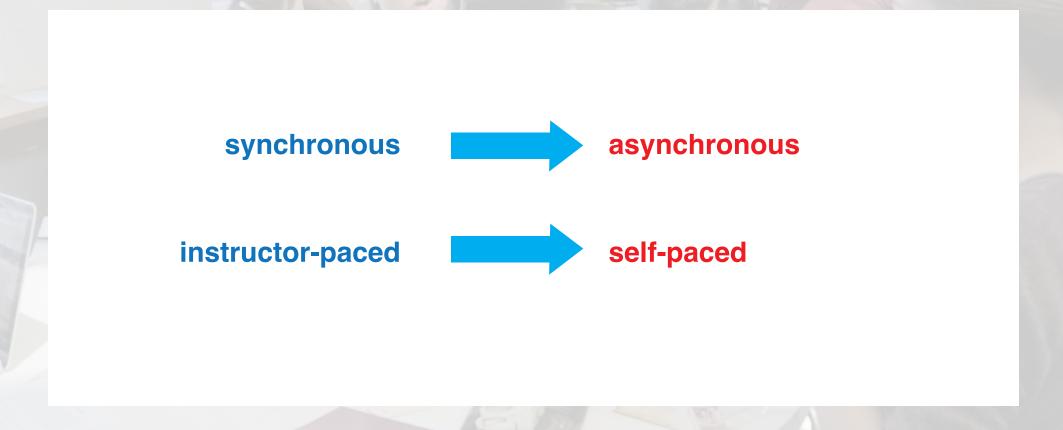


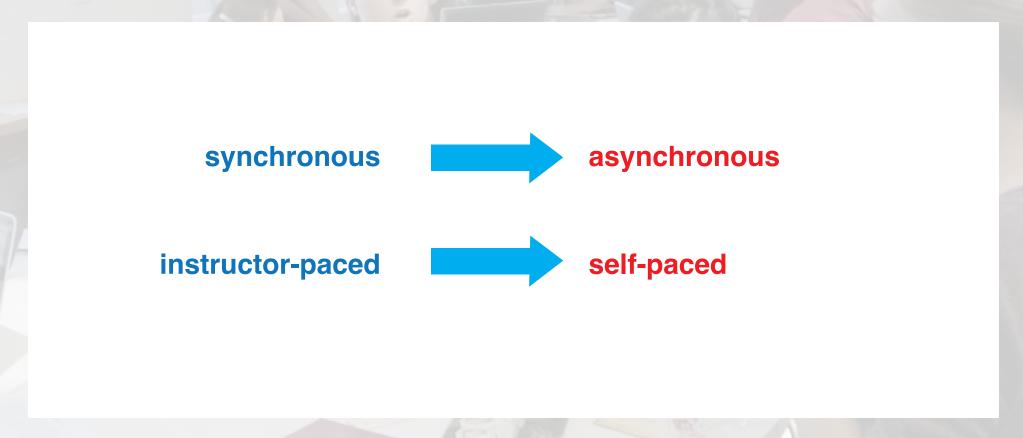
asynchronous



self-paced







more time to help students where it really matters!

synchronous

collaborative work

### synchronous

#### collaborative work

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

### synchronous

#### collaborative work

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

### asynchronous

individual work

### synchronous

#### collaborative work

- · not all students engaged
- inefficient team work
- · poor use of staff time
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### asynchronous

individual work



synchronous

team work

### synchronous

#### collaborative work

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### asynchronous

individual work



### synchronous

team work



team check



#### collaborative work

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

### asynchronous

individual work



## synchronous

team work



team check

qı

efficient team

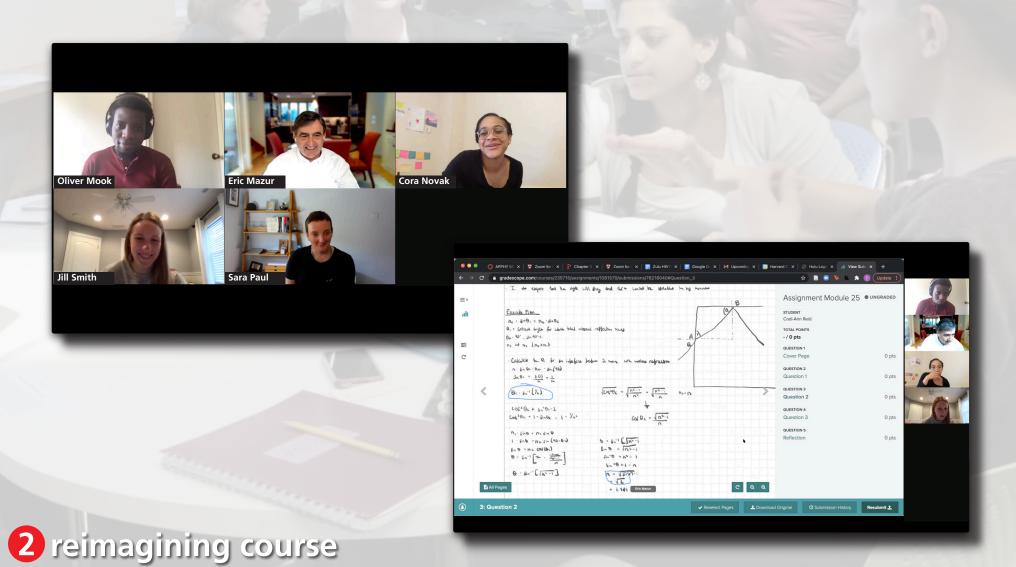
quality control

instead of all students coming to instructor's room...

instead of all students coming to instructor's room...

...instructional staff visits each team's own room

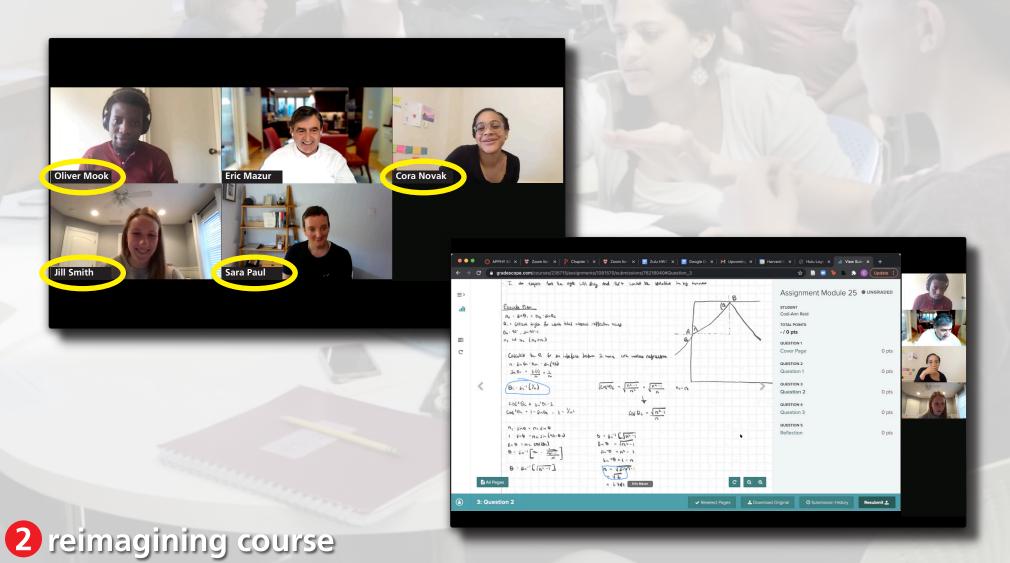
80 students in one room → 20 rooms with 4 students



every student on front row



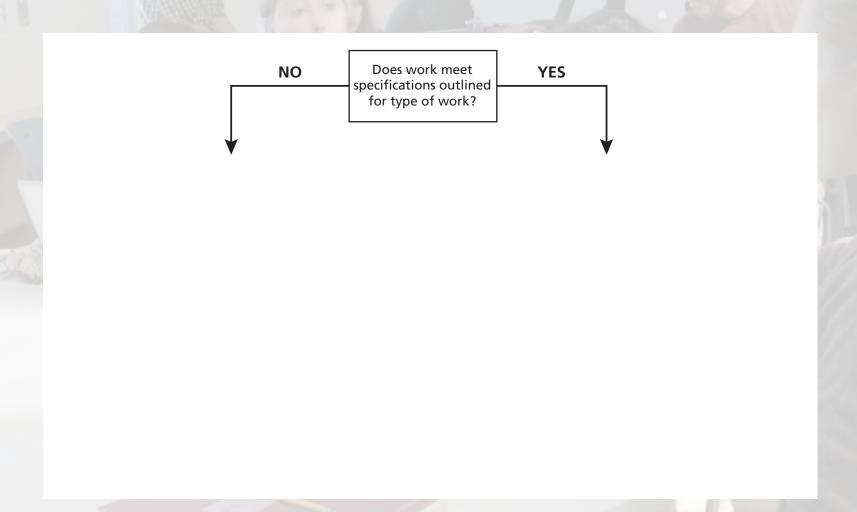
every student on front row & address each by their name



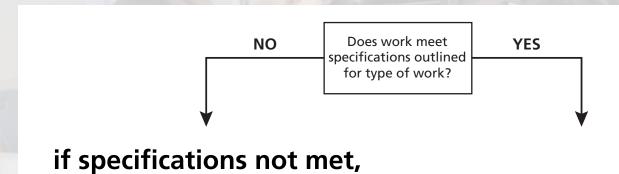
Inside Higher Ed, Yes, Virginia, there is a better way to grade

**Specifications grading** 

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

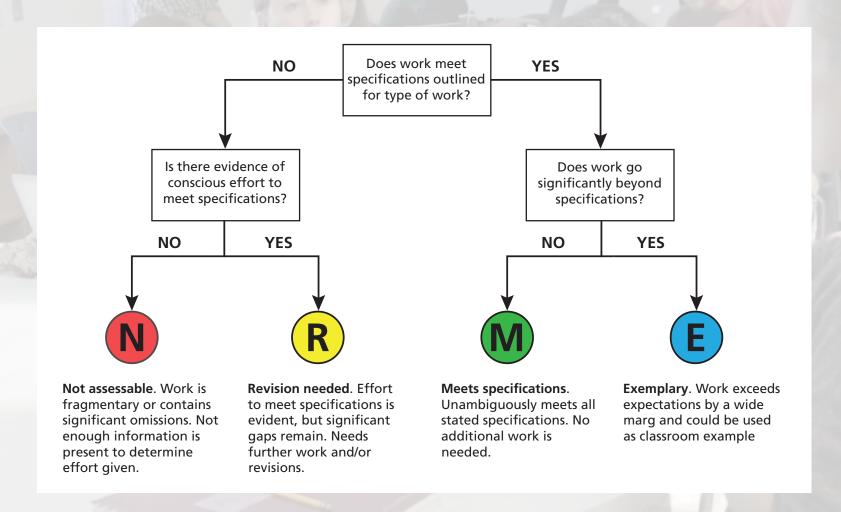


Inside Higher Ed, Yes, Virginia, there is a better way to grade

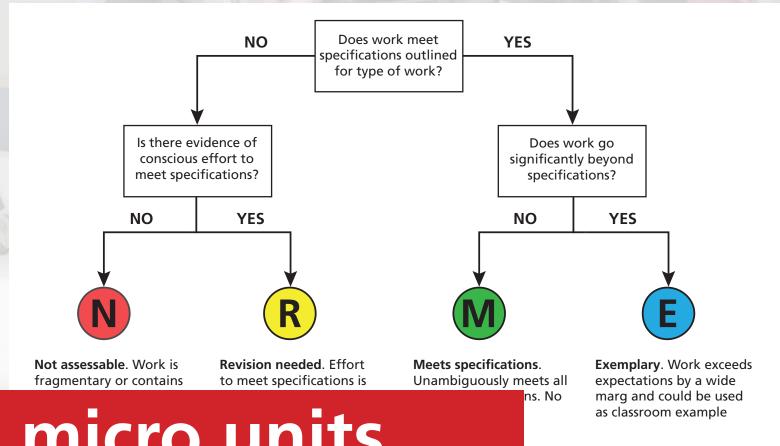


can try again

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

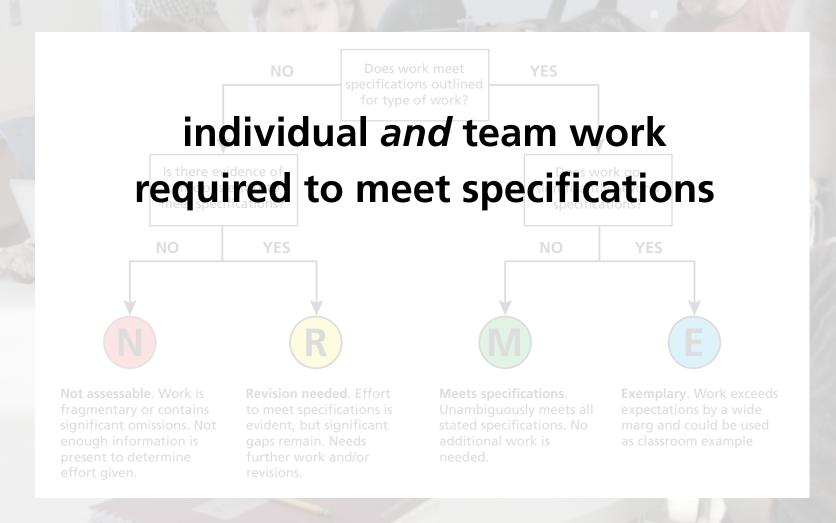


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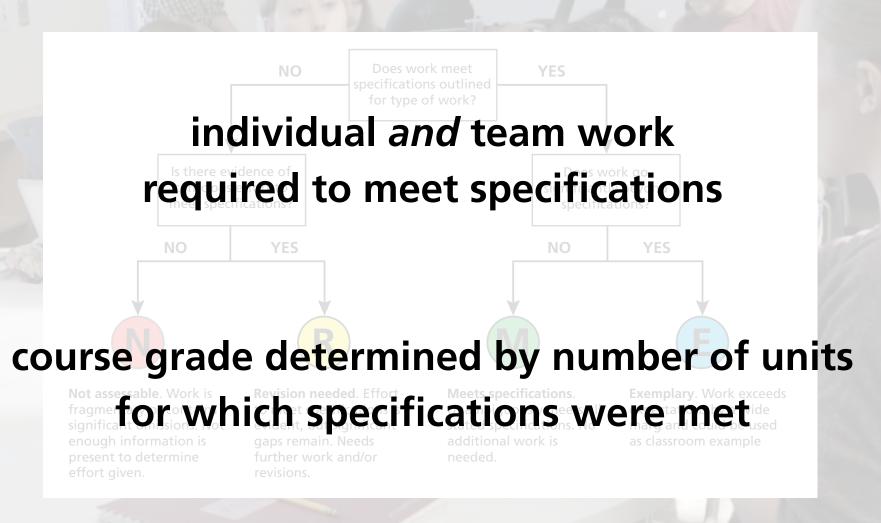


# 68 micro units

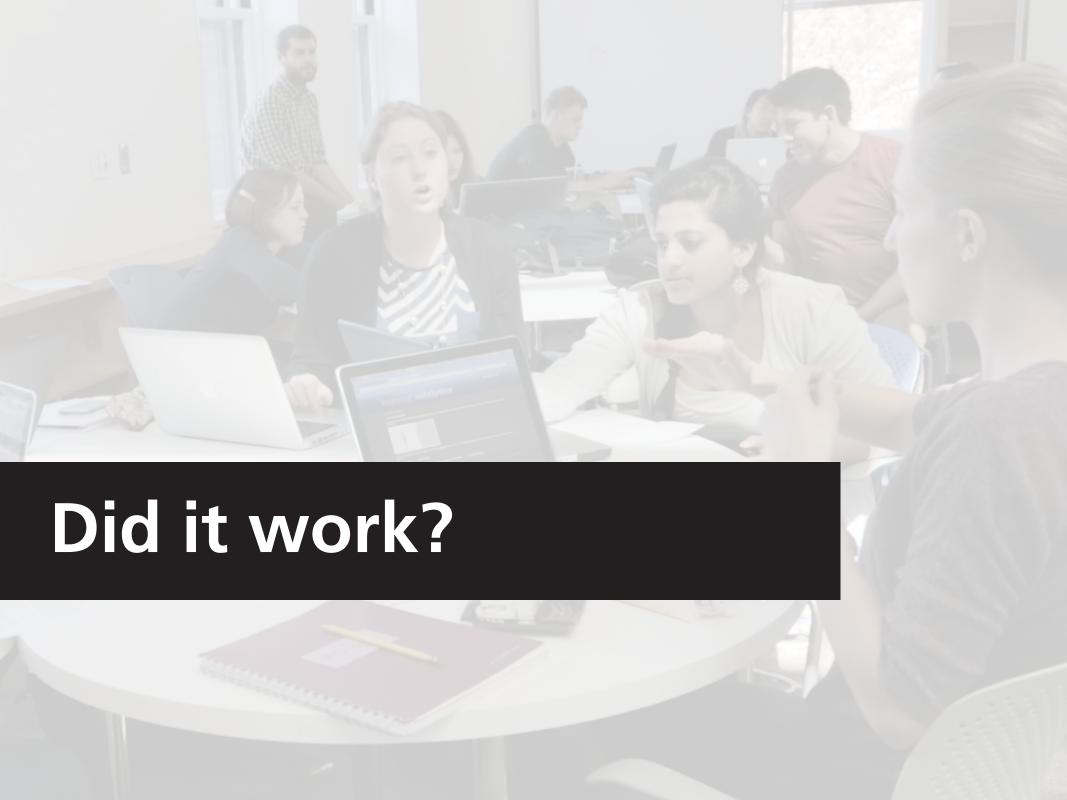
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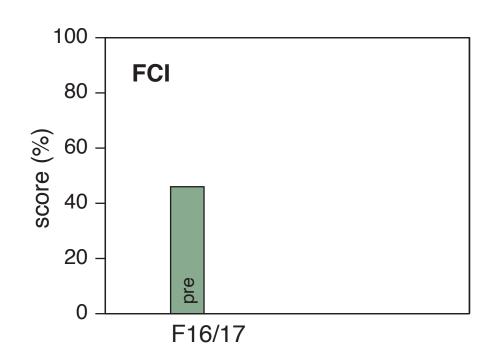


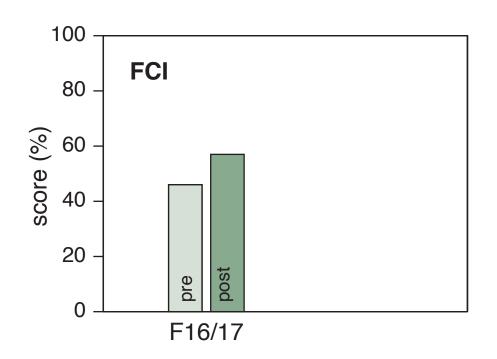
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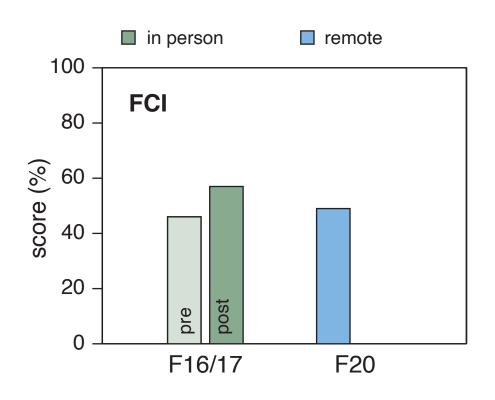


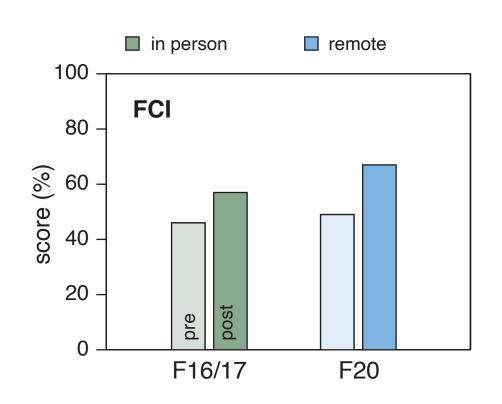
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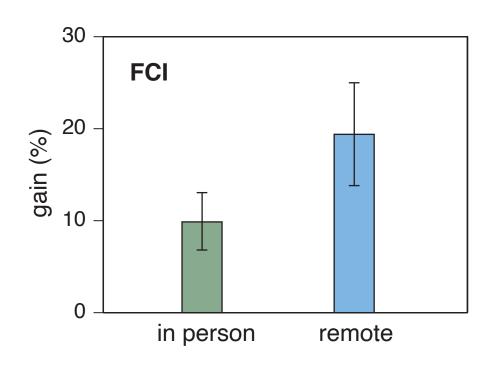




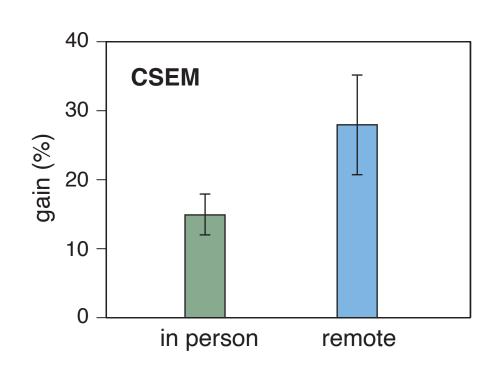


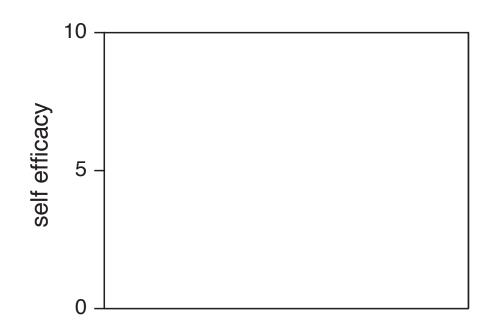




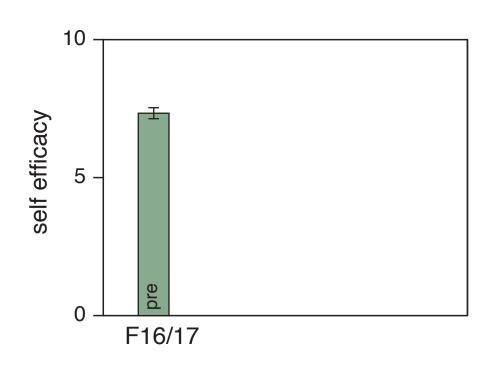


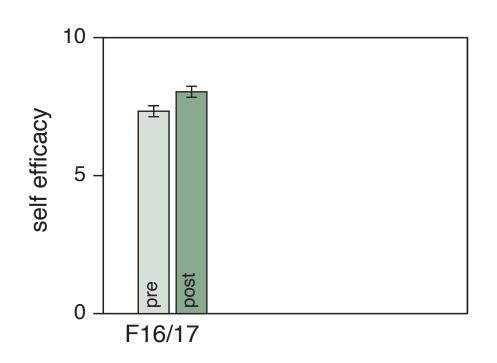
# **Spring Content Learning Gain**

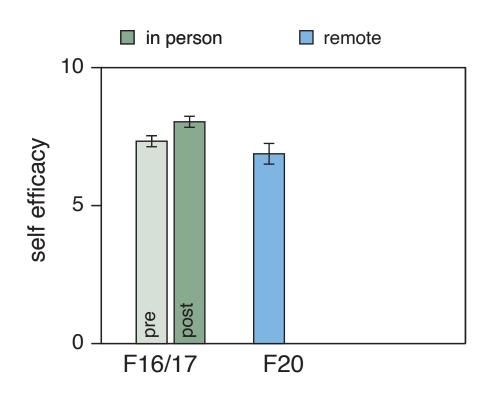




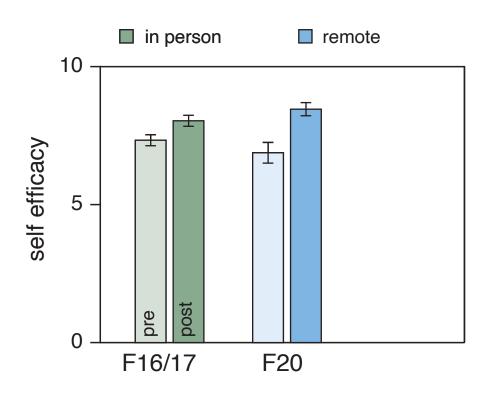
belief in ability to succeed in a given domain



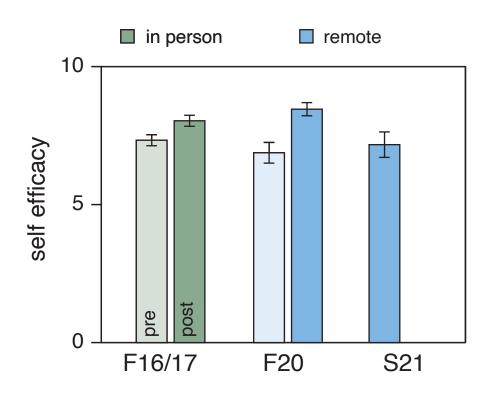




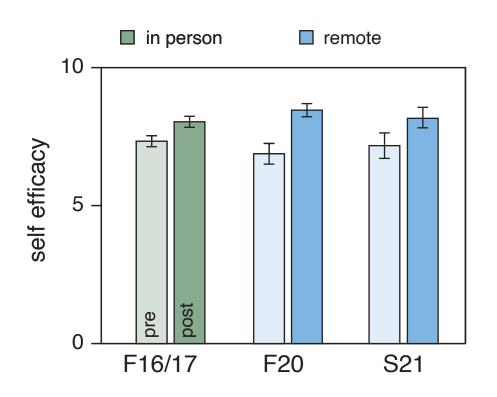
#### **Self Efficacy**

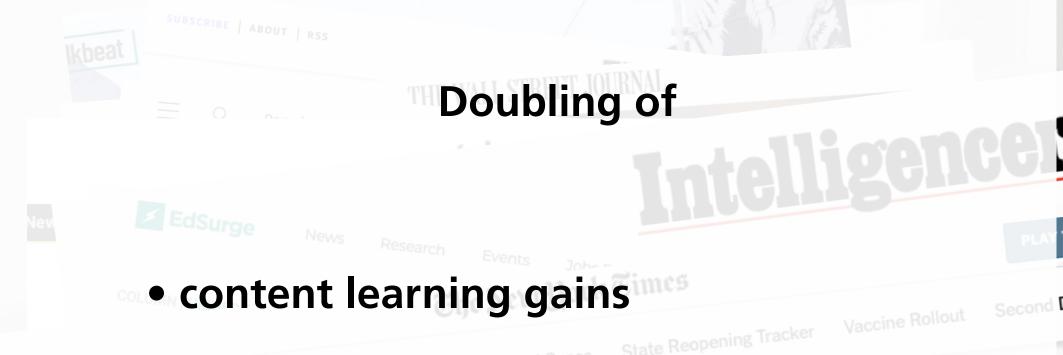


#### **Self Efficacy**



#### **Self Efficacy**





### • 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.

3 results



## What do 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.



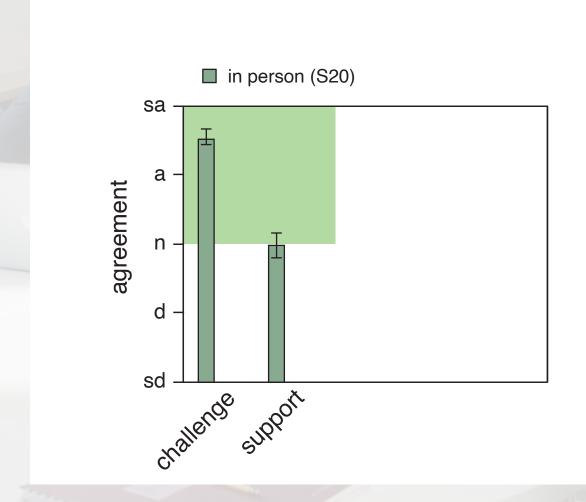
#### Agile Feedback Survey (Talbert)

- 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

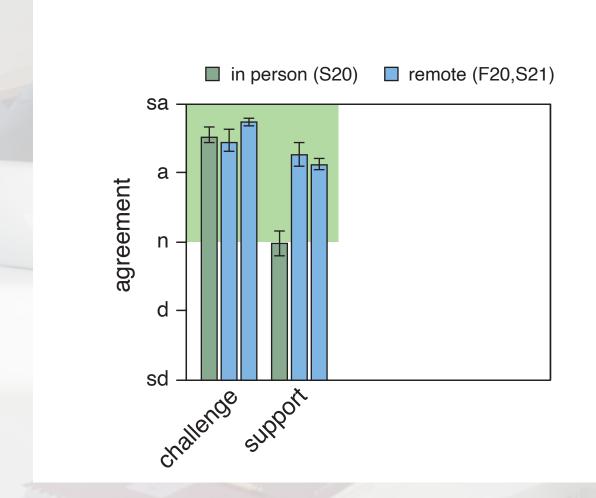
#### Agile Feedback Survey (Talbert)

- 1. I was challenged intellectually (challenge)
- 2. I had plenty of support (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

#### challenge vs. support



#### challenge vs. support

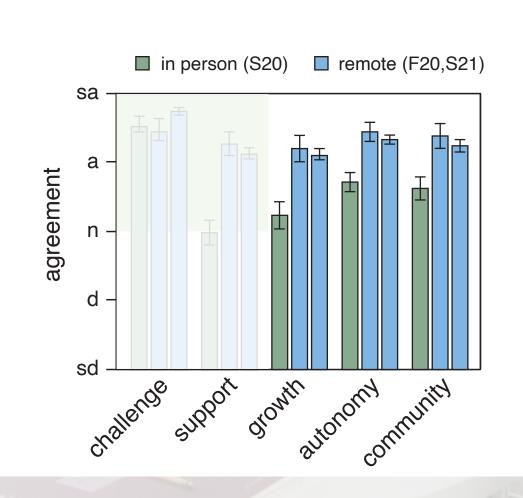


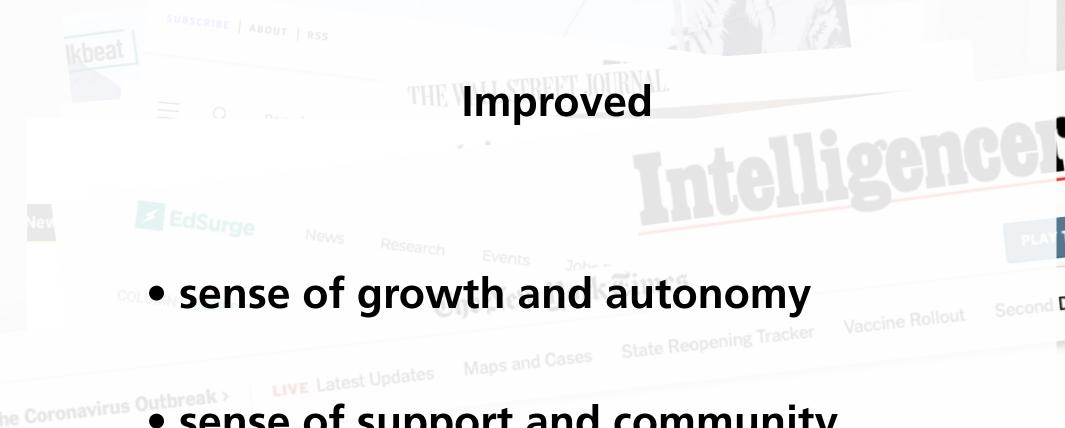
#### self-determination

- 1. I was cha oort (su
- 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)

had preme

#### self-determination





sense of support and community

• course evaluation Behind During Virus Disruptions

The abrupt switch to remote learning wiped out academic gains



#### Improved



- sense of support and community
- course evaluation Disruptions

Catching up in the fall won't be easy.

It worked for students too!



## I did my best teaching ever remotely!

# 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.





## I did my best teaching ever remotely!

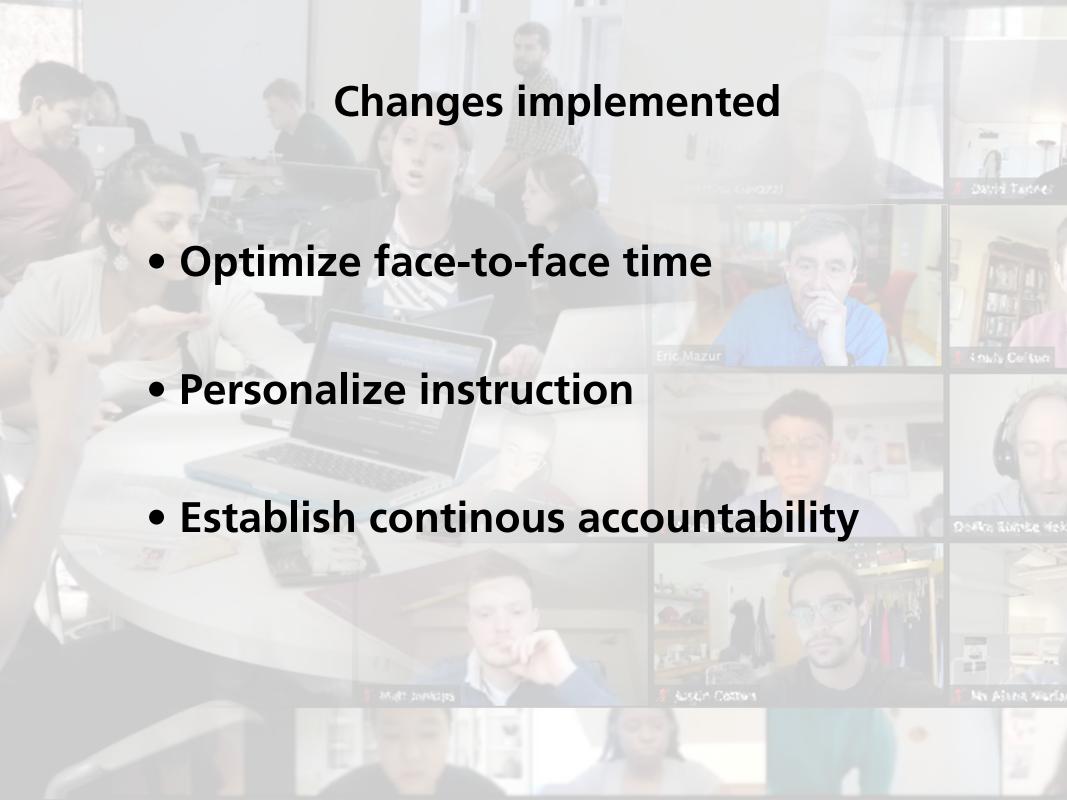
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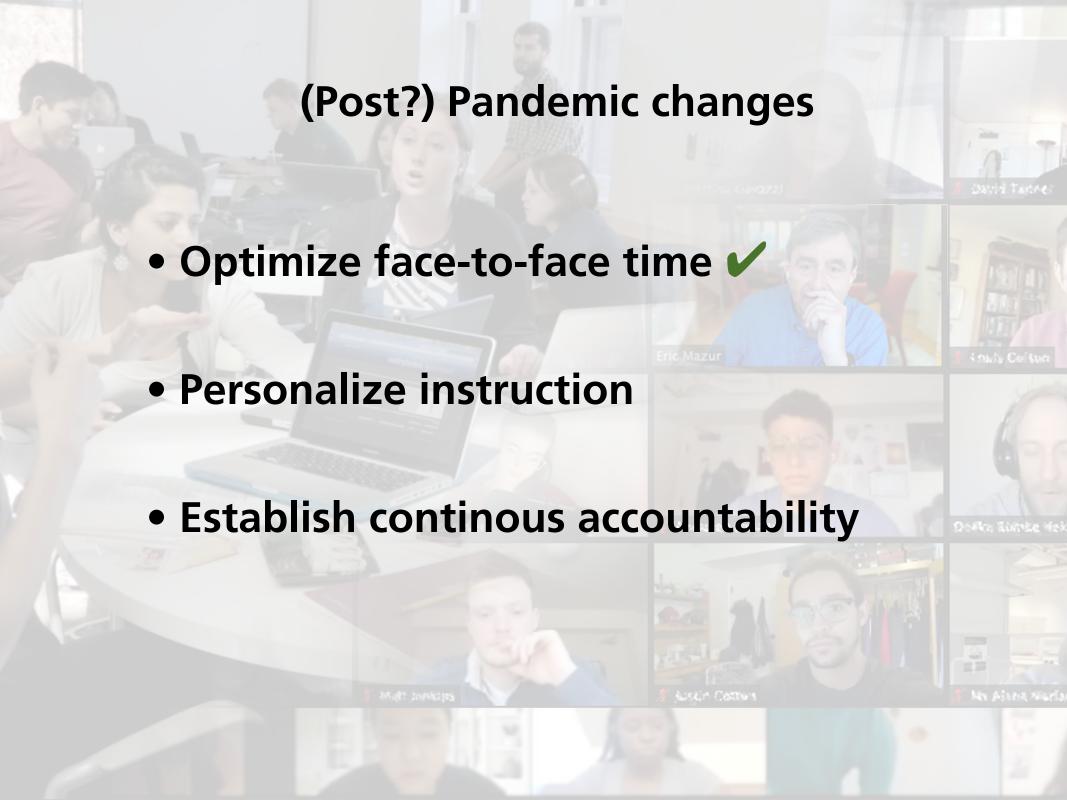
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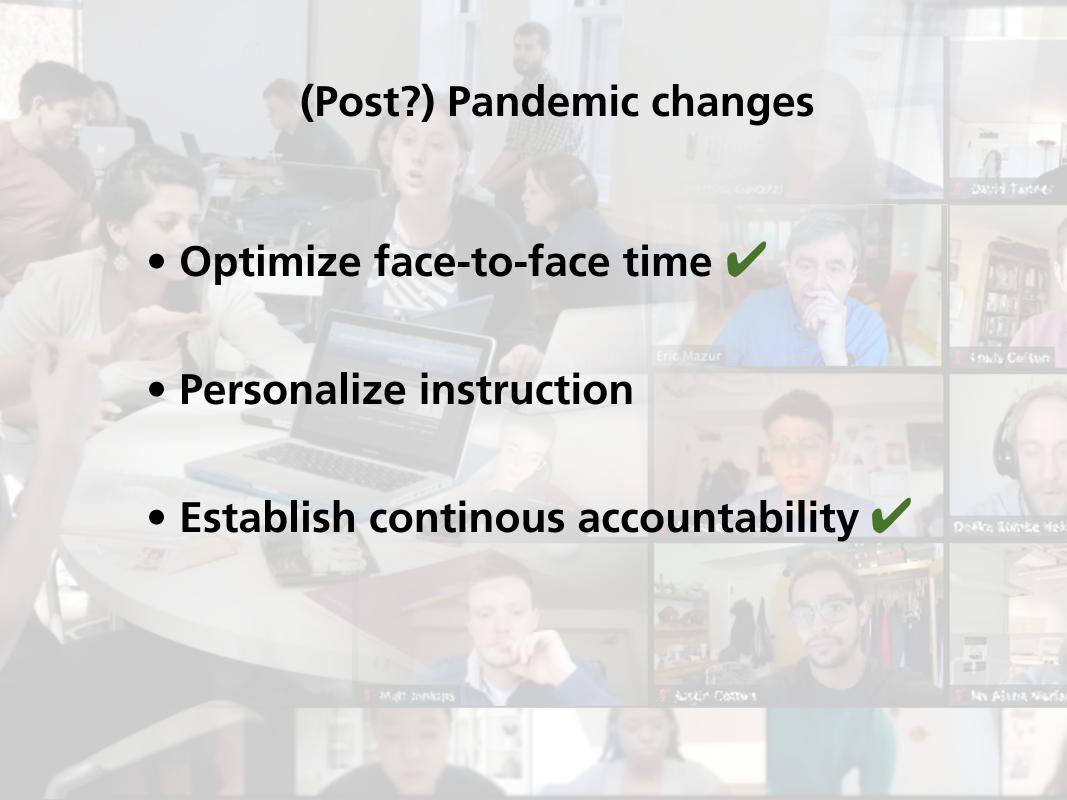












### (Post?) Pandemic changes

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2021-2022 Fall

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Home

**Announcements** 

Syllabus

(6)



Assignments 蔮

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Slack

Grades

Discussions

**Pages** 

People

Manage Course

Library Reserves

Academic Integrity Policy

Support Resources

Panopto

Ø Collaborations

Ø **Outcomes** 

Ø Rubrics

Ø **Ouizzes** 

Ø **Files** 

Settings

0

You and your team can decide not only when, but also how to participate in the regular weekly class meetings for AP50. You can meet with your team and Sections — in person or online (same experience, either way!) the TFs and me in the classroom (Pierce Hall 301), during one of the two section times. Alternatively, you can meet with us via Zoom, ideally during those



In person: You and your teammates will be seated around a table in Pierce Hall 301 and share your work with each other using Zoom. Members of the teaching staff will check in with you at the table. (Note: Unlike in the picture, face coverings are mandatory in the



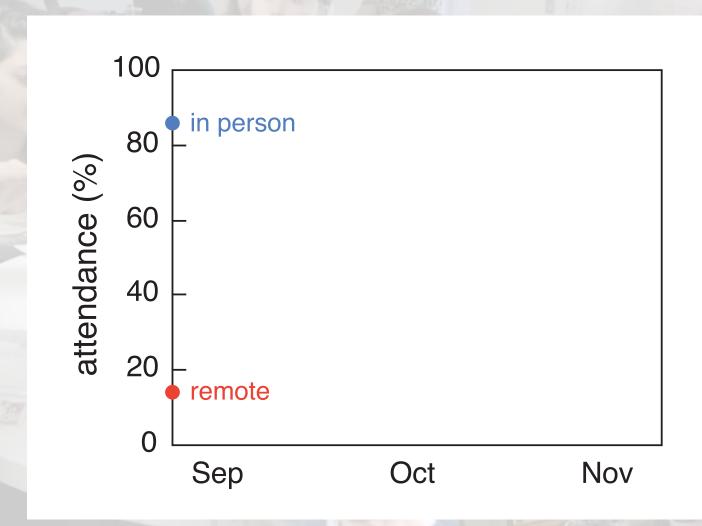
Online: You and your teammates will meet in your team's Zoom meeting room and communicate and share your work with each other using Zoom. Members of the teaching staff will check in with you in your team's Zoom room.

Tence will be the same, as we carry out all class activities on the same platforms in person and online. On Zoom, work with each other via Zoom. In the in-person classroom your team will be seated at a 1 notify us on Slack and one of us will visit table and also use Zoom to share work, but of course you want geam or if you have a whenever your team is ready to have its work validated by the teaching team or if you have a your Zoom room or come to your table in person. Note: Face coverings are mandatory for any in-person meetings (see below for additional details).

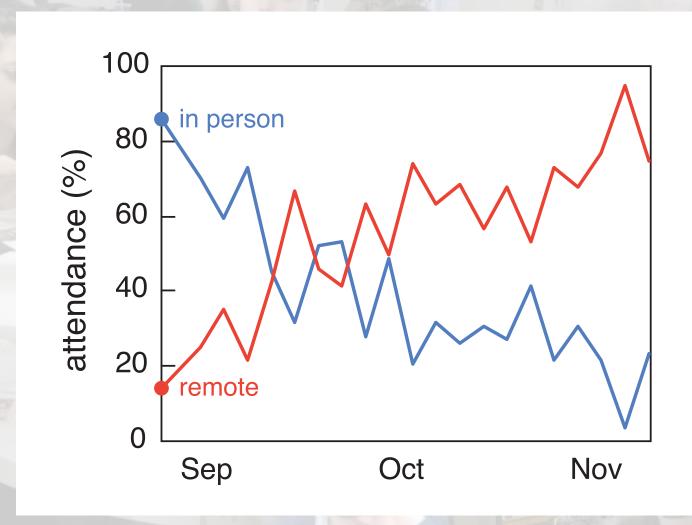
You don't need to commit to in-person or online in advance, and you can switch back and forth as you please, provided the entire team agrees to participate at the same time and in the same modality for a given activity (all in-person or all online). To facilitate that process, we will ask you for your preferences before we form teams and match you with people who have similar preferences.

#### Sections - Logistics

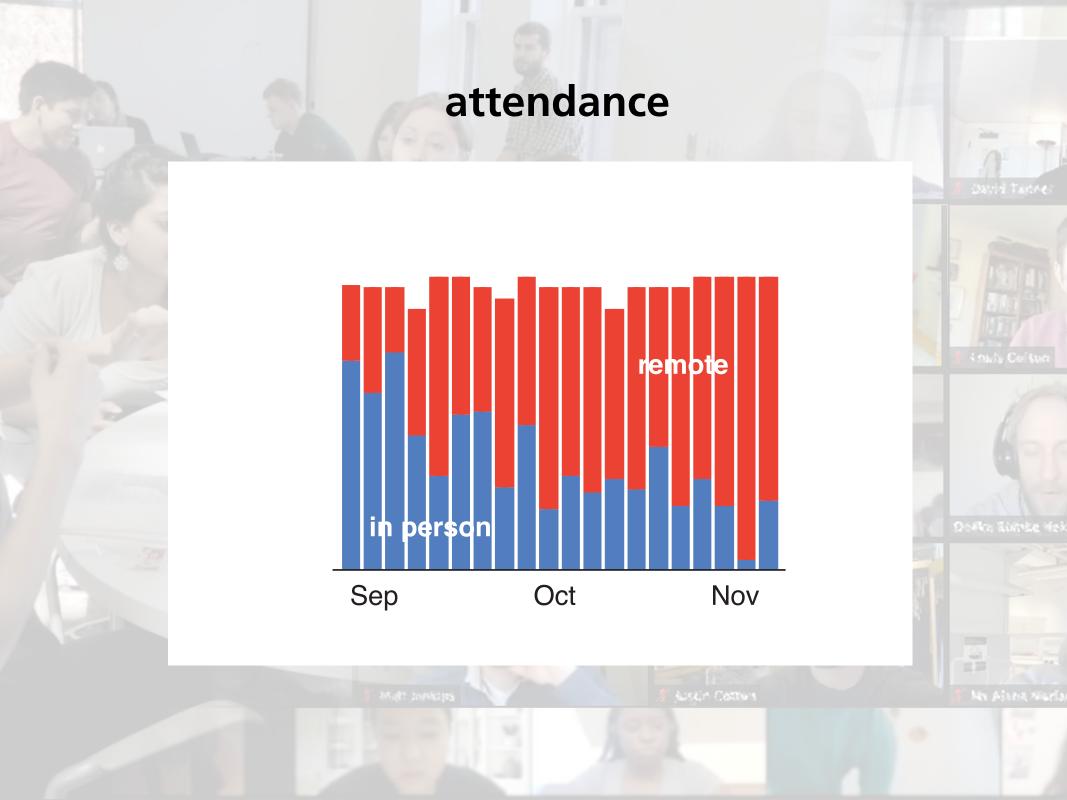
#### in-person vs. remote

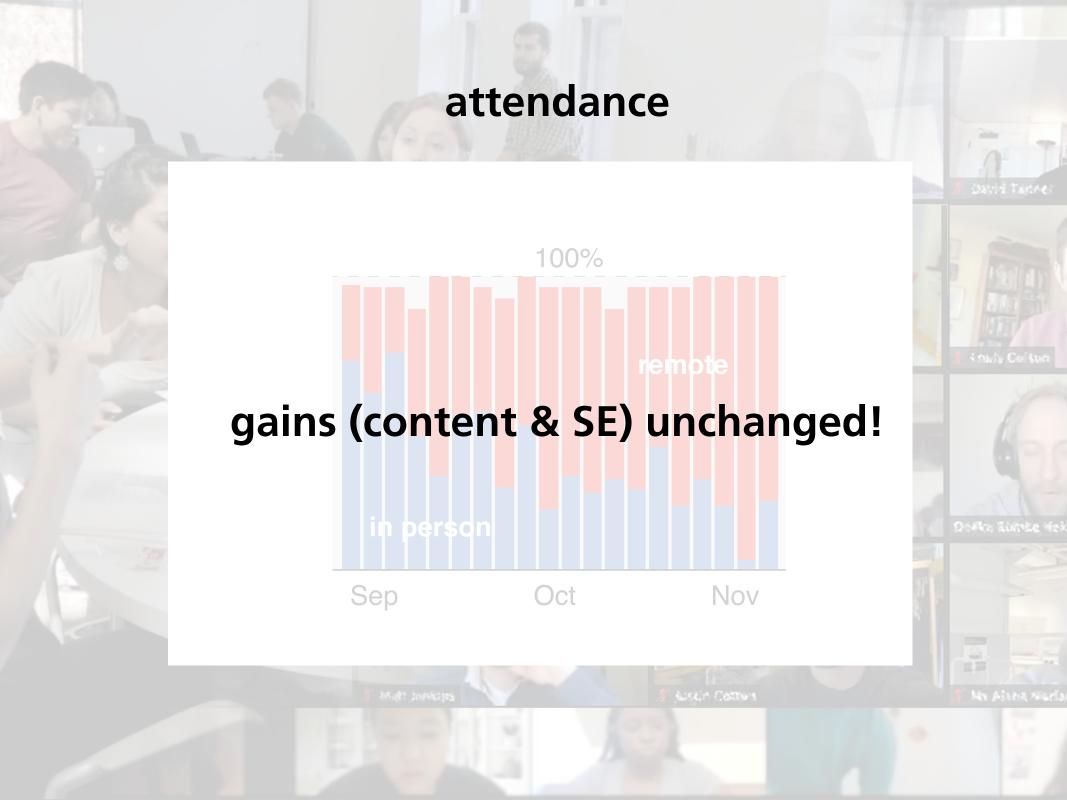


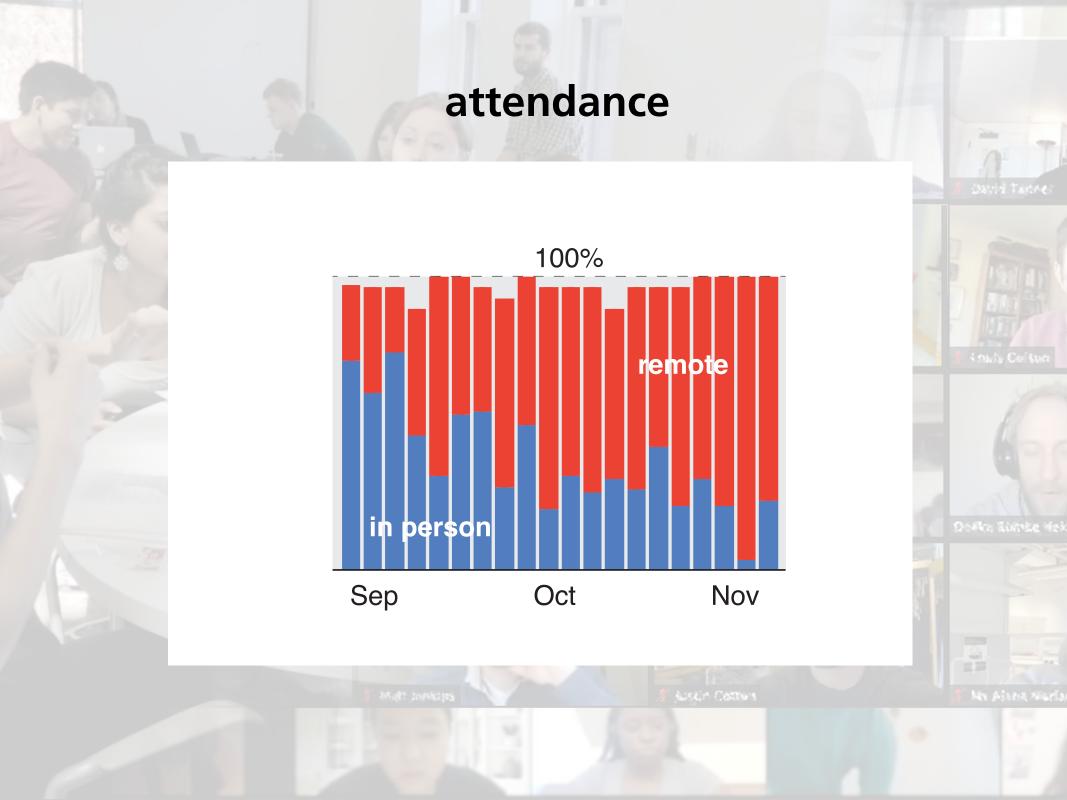
#### in-person vs. remote



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### time-shifts 100% remote in person Sep Oct Nov

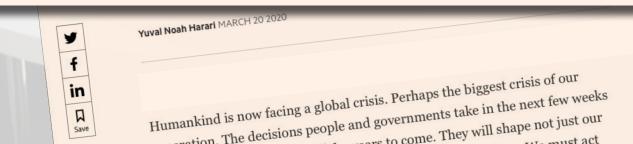




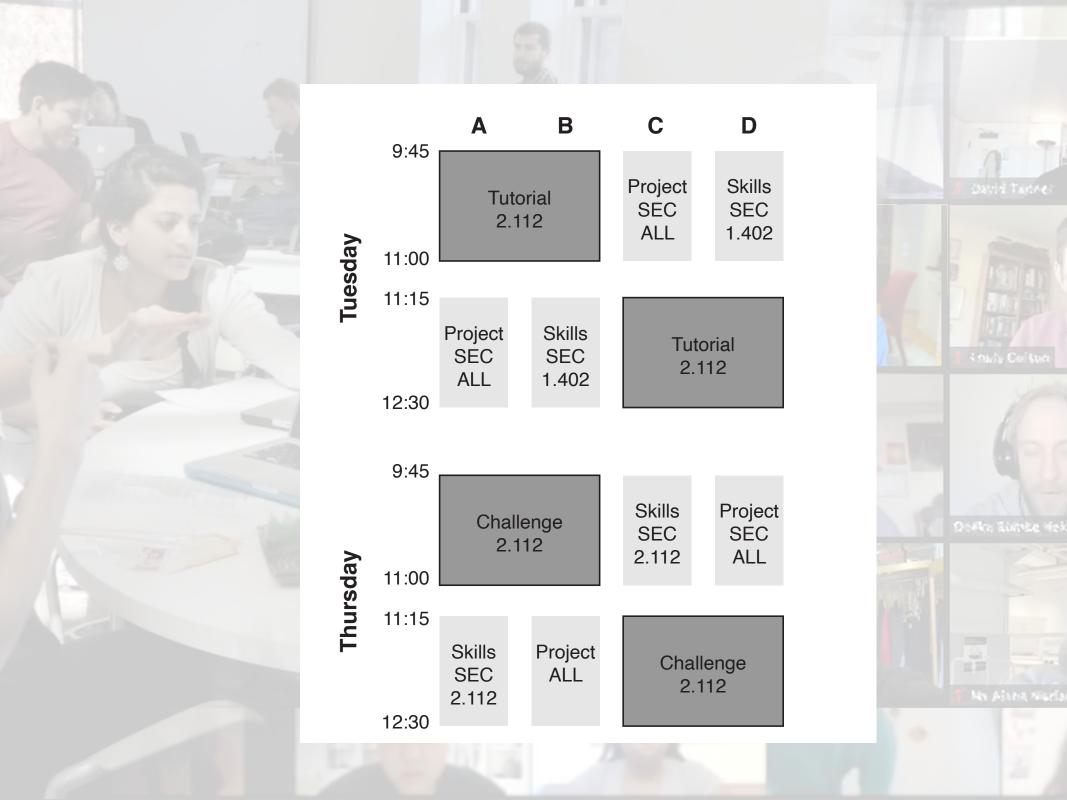
Many short-term emergency measures will become a fixture of life. That is the nature of emergencies. They fast-forward historical processes. Decisions that in normal times could take years of deliberation are passed in a matter of hours. Immature and even dangerous technologies are

### Remote teaching may well 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.



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