Scaling up Classroom Intimacy: Video Communities as the Next-General Textbook

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Premise

• Online ed through MOOCs, Khan Academy, flipped classes, etc. are growing in scope and importance
• These platforms ARE the next-generation textbook
• Video is a critical component of educational content delivery
Problem

• Video delivery mechanisms lack interaction affordances to truly engage students – they are designed for passive consumption
• Watching videos at home alone makes the experience of educational content consumption a lonely one
• Asking a question or commenting about an online video is intimidating in a class of 100s or 1000s
Proposal

• Use the Video Collaboratory Platform as a testbed for next-generation educational video delivery

• Build in support for ‘lightweight teams’ in the form of ‘video communities’

• Help make the experience more engaging by providing engagement meters and making the engagement of other students visible
Video Collaboratory Platform

The Beginning.MP4

we might change hand grips here for a smooth transition to the ground

Comment by David 00:13
more of a curve in the right arm

Comment by David 00:41
we might change hand grips here for a smooth transition to the ground

Comment by David 00:49
let's all flex our feet in this spot.

Comment by David 01:21
hands closer to legs at the beginning of revelations, be in 6th position with the feet

Comment by David 01:24
elbows lead up in revelations

Comment by David 02:07
back line of girls stay together

Comment by David 02:23
make sure eyes stay up in the bulldog walks
Video Communities

• Break class up into small groups 8-20 students
• Students in each group watch videos together and see each others’ comments and questions
• Instructors can propagate their own comments/prompts to all groups
• Instructors can propagate an important student question across groups
• Students can vote a question up
• Propagated questions/comments are anonymized
Engagement Metering & Analytics

• Provide lightweight engagement (+/-) meter for students to use as they watch videos
• Students can use it as often as they like
• Also, capture students watching habits: pauses, speed of playback, loops, commenting, etc.
• Show students in a group the engagement of their group
Measures

• Student engagement
• Learning Outcomes

• Deployments:
• ITIS 1212, ITCS 2213, ITCS 2175, ITCS 3155, PHYS 2105