# ScalableLearning

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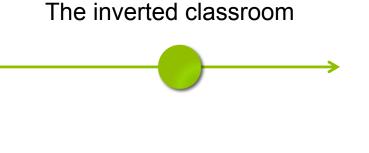
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## Goal

- Massive Open Online Courses are becoming extremely popular nowadays
- Questions:
  - Are they a better alternative classroom?
  - Will they really eventually lead to universities getting close?
  - How to use them in a university?
  - Are the current MOOCs good?
- Our Answer:
  - Physical classroom is valuable
  - Online courses should be used to improve not to replace the university teaching, how? "The inverted classroom"

#### The Inverted Classroom Model

- Redefining what happens in the classroom
- Traditional model
  - In-class explanation
  - 2. Homework/assignments/exams for grades
- Inverted classroom model
  - Explanation online
  - Testing student understanding online using ungraded exercises online
  - 3. The insight from the online exercises is used in the classroom for:
    - Improving the explanation
    - teacher-student interaction
    - student-student interaction
  - 4. Homework/assignments for grades

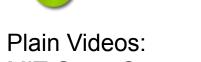


Plain Videos: MIT Open Courseware Khan Academy MOOCs- videos + graded assignments:
Coursera

Udacity Edx The \$100 USD M.Sc. : Udacity
The destruction of universities

Any tips on tools to use to produce these courses?

The inverted classroom



MIT Open Courseware Khan Academy

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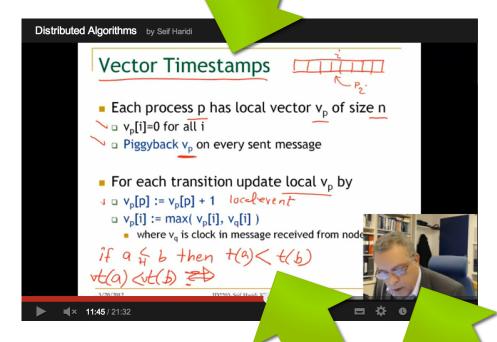
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# Tools for Producing videos

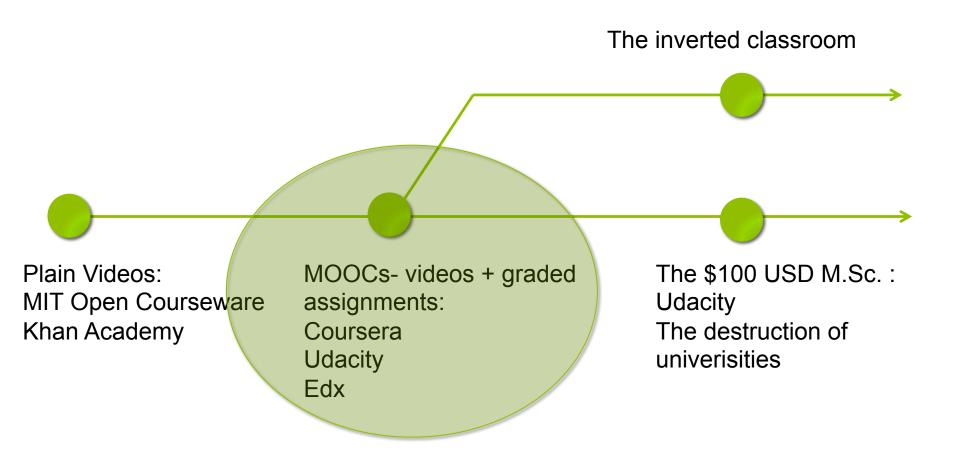
- How complex do you want it to be?
  - Slides video?
    - Quicktime (Mac-Free), Camstudio
  - Slides video + instructor video interleaved?
    - Screenflow (Mac-commercial), Camtasia (Mac/windwos- commercial)
  - Slides video + instructor video interleaved + handwriting?
    - Wacom cintiq (999\$-3700\$) comes with software
  - Handwriting only?
    - Wacom cintiq (999\$-3700\$) comes with software
- Sound:
  - In all cases, you should get some notso-cheap mic perferably a USB mic (example: Logitech)
- Camera:
  - The mac computer camera should do the trick but you can always get something more expensive





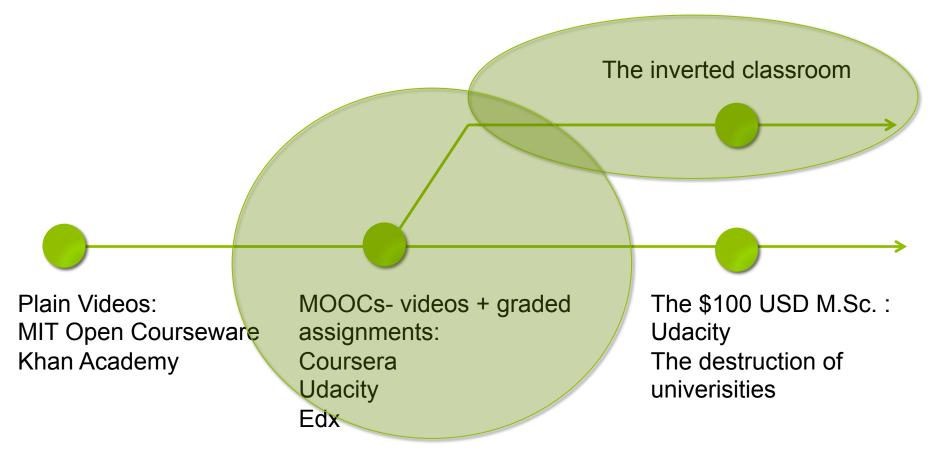
# **Tools for Content Mangament**

- Publishing the videos:
  - In all cases, posting to Youtube is probably the best way
- Managing content
  - Simple webpage
  - Youtube channel
  - Using an LMS such as:
    - Moodle
    - Canvas \*\*\*\*\*
  - Scalable-learning.com



# Tools for Managing Quizzes & Exams

- Canvas
- ScalableLearning

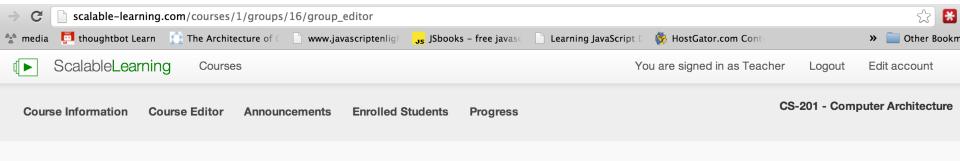


#### **Tools for Video Annotation**

- Youtube annotator:
  - Simple links
- Only in Scalable-learning:
  - In-video quizzes
  - Understanding confusing points
  - Leaving comments on certain times in video

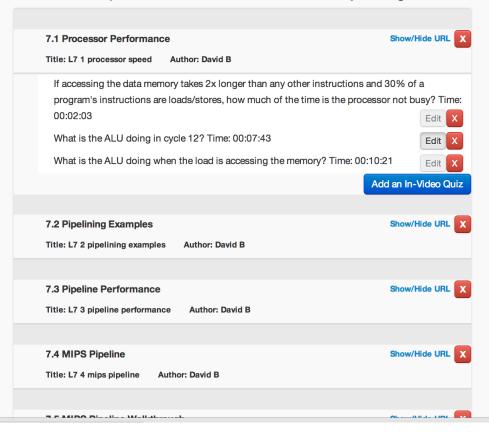


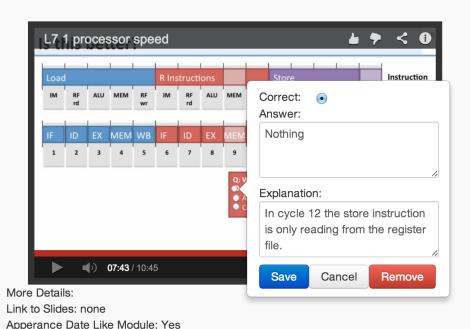
# Scalable-Learning Inline Quizzes Editor



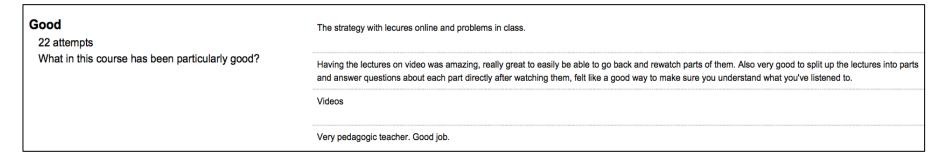
Due Date Like Module: Yes

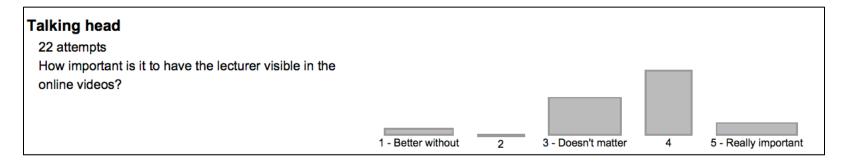
#### **CS-201 - Computer Architecture : Processor 2: Pipelining**

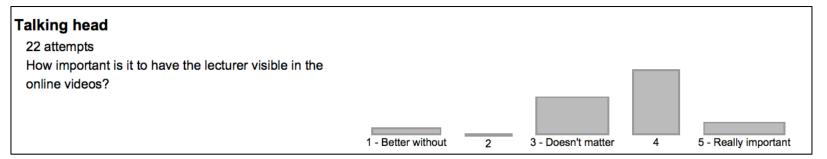




# What students are saying about this first test of inverted classroom?







# One particularly nice feedback about David's course!!

Under "How could the course be improved?"

"The only thing that frustates me about this course is that it shows me how pathetic my other classes are. I learned so much more in this class and felt so much more motivated and I wish that my other professors would care enough to put the amount of effort in their courses as you did."



# DEMO TIME ©

Screenflow

Youtube annotator

Canvas.net

Scalablelearning.com