Using online mini lectures in your teaching delivery

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So you think you are a good lecturer ...

Why? What makes you a great teacher?

- You speak clearly and your students understand you.
- You try to boil a problem down to its components.
- You try and find the simplest way to explain things.
- You attempt to link the theory to problems which the students can relate to.
- You are patient and are happy to explain something again in a different way.
- You provide students with opportunities to practice the skills they should learn (and are examined in)
- You or your GTA's is available for students when they get stuck

For which of these do you need a classroom?



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Is this what happens in a normal class?

- You speak clearly and your students understand you.
- You try to boil a problem down to its components.
- You try and find the simplest way to explain things.
- You attempt to link the theory to problems which the students can relate to.
- You are patient and are happy to explain something again in a different way.
- You provide students with opportunities to practice the skills Nozyand it may not even be desirable, as
- You this may adjust the speed of the class to they get sthe slower learners.

What do you really need contact for?



 You are patient and are happy to explain something again in a different way.

Office Hour

Lecture

You or your GTA's is available for students when they get stuck

Tutorial / Exercise Class

Consider this (Classroom Inversion)

http://www.khanacademy.org

- Let student's learn the basics at their own pace at home
- Use lectures to spend more time on what you wish you could teach if you weren't bogged down by the basics
- Let the students practice in tutorials (with other students and GTAs or teaching staff as a resource available)

Why does this capitalise on why you are good?

- I remember the lecturers who were enthusiastic about what they taught
- What are you most enthusiastic about?

What I will do

- ECON10062 Introductory Statistics
- 300 students
- Most of them think that after the exam they will not need statistics anymore
- Lectures: Will deliver the basic explanations of how to calculate stuff (means, variances, etc.) via online clips. Will use the lecture to talk about real-life applications of these techniques

What I will do

- Tutorials: Will deliver online clips of solved examples
 - Tell students which clips to watch before tutorial
 - 10 minutes to clarify issues arising from online clips
 - Hand out new unseen questions which students solve in pairs (GTA to be available to remove hurdles on an individual basis)

What do you need?

Normal Computer:

- <u>Screen capture software</u>
 - Jing, free software (max 5 min clips)
 - Adobe Captivate, £94 through EDS; suitable for software demonstrations
 - Camtasia Studio, £120; suitable for software demos and mini-lectures
- Touch Input Device
 - Wacom, Bamboo. app £200, cheaper are available but in smaller size
- Drawing Program
 - SmoothDraw, free
 - Microsoft, OneNote, (included in MS Office)

Tablet Computer

- e.g. Dell Tablet £1200
- but also need screen capture software and drawing program

How to get it

- Convince a couple of colleagues that online clips are useful in your area
- Explain to your Head of School / DA what you (or best a group of colleagues want to do) – just before you meet him send him <u>Salman Khan's</u> <u>TED Talk</u>
- Propose that they purchase a laptop with all the required hard- and software (between £1000 and £1500) for departmental use.
- Offer that you administer the lending out to colleagues.