

# Recording Your Lectures for Fun and (Possible) Profit

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## ABSTRACT

You should record your lectures. It's super easy and fun

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## 1 INTRODUCTION

This paper advocates that every CS teacher record their lectures. Recording your lectures has many benefits for the students, some benefits for you [2]

This paper is intended for an audience of teachers, primarily people who teach using a laptop. While this text is geared towards a tech-savvy audience of Computer Science educators, I believe

- In Section 2, we discuss the motivations for this paper and for recording your lecture

## 2 WHY

Rec

The idea of recording all of a professor's lecture in high fidelity is something that has become possible only The emergence of codecs such as AV1 (not to be confused with .avi files) means that even as storage becomes more cheaper and plentiful, high quality files are getting smaller and smaller [1], with less restrictive licenses. Consumer cameras get better every year and can record in UHD.

- Ease of review
- Note taking ease
- Illness (see 2019 measles and mumps outbreaks and recent births)
- Use for future

### 2.1 Effects on Attendance

### 2.2 Why Aren't We doing this already

## 3 ENTERPRISE OPTIONS

I've listed this first because this is probably the most straightforward option. Your institution may be paying for this already.

options like panopto offer a "one stop shop" hosting your data AND your

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## 3.1 Cons

Your students will need to access

## 4 OPEN SOURCE RECORDING

## 5 REQUIRED HARDWARE AND EQUIPMENT

A modern laptop is all that is required.

### 5.0.1 Example laptops.

5.0.2 *Specs.* Regardless of the hardware, using an industrial strength IDE such as IntelliJ or Eclipse and any recording software can be taxing to any laptop. Two ways to mitigate this is to have the IDE open before recording. Alternatively, migrate away from IntelliJ, Eclipse, and the like and use a more lightweight editor, such as Sublime Text, Atom, Visual Studio Code, Geany, or the old classics of Vim and Emacs.

If you are just recording powerpoint slides or capturing the board with the webcam, you should run into no difficulties.

I also highly recommend having your laptop plugged in so that you get maximum performance.

## 5.1 Additional Equipment

## 5.2 Concerns

- Your hardware must be good
- Student questions can't be heard by your mic.

## 6 EDITING

## 7 HOSTING

### 7.1 YouTube

7.1.1 *Positive Considerations.* Google is now in charge of making sure your stuff is accessible.

Youtube doesn't go down very often. But it does sometimes [3] and (June 2: 3:30 Outage)

7.1.2 *Negative Considerations.* It's Youtube

Youtube comments are their own special hell.

Reuploading

### 7.2 Vimeo

7.2.1 *Positive Considerations.* Professional looking Customizable embedding

7.2.2 *Negative Considerations.* V

Pay for hosting

Also goes down occasionally.

### 7.3 Drive

7.3.1 *Negative Considerations.* You may have to pay for hosting

## 7.4 I'LL DO IT MYSELF

### 7.4.1 Pros. TOTAL CONTROL

7.4.2 Cons. Really? Where are you going to find the time? Home server? You probably won't have the bandwidth Server at school? IT department is going to LOVE you.

## 8 MY IMPLEMENTATION AND STUDENT FEEDBACK

## 9 RECAP

## 10 A NOTE ON LICENSES

Your school may not like discovering that the content of their classes is now available online.

## 11 A NOTE ON ACCESSIBILITY

### REFERENCES

- [1] Detlev Marpe Dan Grois, Tung Nguyen. Performance comparison of av1, jem, vp9, and hevc encoders, 2018.
- [2] Nobody Jr. My article, 2006.
- [3] Peter Martinez. Youtube fixes "access issues" that caused widespread outage, oct 2018.