

Project 1 [6 FPs “Fluency Points”]:

Demo the Tracker software or Phyphox app to track a moving object in a 90-second video

Description:

In a video that lasts no longer than 90 seconds:

- Demonstrate how you use the free *Tracker* software (<https://physlets.org/tracker/>) or *Phyphox* app (download in Play/App Store) to track the path of a moving object
 - The moving object must be set up and recorded by you
- Verbally explain the following:
 - What the moving object is
 - Technical specs of the camera you use to record the object’s motion (e.g., description of the camera, frame rate, resolution, etc.)
 - How you set up *Tracker* or *Phyphox*
 - What the tracked data looks like in a plot
 - Any other interesting observations
- Conclude if the *Tracker* or *Phyphox* data and plot are accurate – why or why not?
- Reflect on your journey of working on this project

Deliverable:

Present your work in a video uploaded to YouTube, and submit your YouTube URL to Gradescope.

Rules and Formatting:

- This is an individual project, to be completed and submitted by you and you alone; however, I highly encourage collaboration with a classmate – not to share the work but rather to have a support, to brainstorm ideas together, and to review each other’s work
- Your video must be in landscape orientation (this is YouTube, not Tiktok!)
- Your video must be less than 90 seconds in duration
- You must show your face for most of the video’s run time
- You must voice narrate your presentation; simply showing written notes without narration is a violation of this rule
- Your video must be uploaded to YouTube, with the upload date coinciding with (or no later than) your URL submission date on Gradescope

Tips:

- Make it fun yet educational
- Record plenty of footage, then edit using a free software (there are plenty)
- Speak close to the mic
- Avoid using copyrighted material (music, images and footage) to minimize the risk of infringement and hence copyright strike

- Make your YouTube video “unlisted”
- Test your YouTube link (in incognito mode?) before submitting to Gradescope
- See below for how to upload videos to YouTube and how to submit URL in Gradescope

Submission:

Submit your Youtube URL in Gradescope only. Submissions by email or other means will be disregarded.

Due on Sep 27, 2024 (Friday), at 11:59 pm CST.

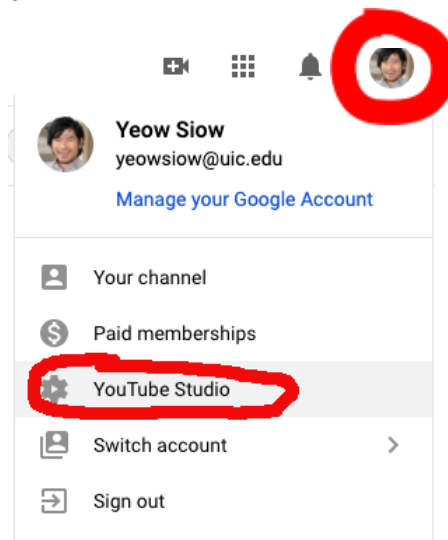
Late submissions are allowed, where partial FPs can be awarded according to the syllabus.

Grading Rubric:

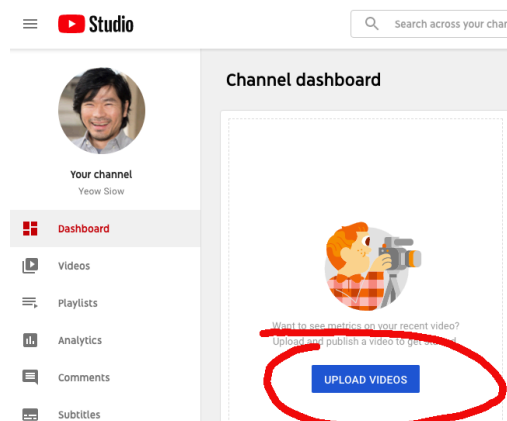
	Fluency			Scaling	Max Possible
	2	1	0		
Technical Rigor	Physics is not violated; data & graph are relevant and reflects real life; step-by-step demo and explanation are logical	Some obvious details missing	Farfetched, or missing most details	1	2
Professionalism	Video has good quality visuals, clear audio, smooth "flow" and editing; educational and fun; a joy to watch	Some issues with visuals, audio, and/or production relevance	Can't make out most visuals, barely audible; or production unrelated to project topic	1	2
Rationale, Justification, Reflection	Thoughtful and authentic; acknowledges limitations/inaccuracy and suggests future (self-)improvements	Insubstantial or vague	Missing altogether	1	2
Max Possible:					6

How to Upload Your Video to YouTube

1. Sign in to your YouTube account (using your UIC credentials).
2. Go to “YouTube Studio”:



3. Upload Videos:



4. Select your video file, enter your video title and description, and (optional) upload a thumbnail photo
5. Under “Visibility, select “**Unlisted**” as publishing type:

Visibility

Choose when to publish and who can see your video

Save or publish
Make your video public, unlisted, or private

Private
Only you and people you choose can watch your video

Unlisted
Anyone with the video link can watch your video

Public
Everyone can watch your video

Set as instant Premiere [?](#)

How to Upload Your YouTube URL to Gradescope

1. Log in to Gradescope.
2. Select the project:

NAME	STATUS
Project [REDACTED]	● No Submission

3. Follow the instructions there. Nice and easy!

Project [REDACTED]

Q1 Youtube URL
[REDACTED]

Copy and paste your YouTube video URL here. Be sure to test the link first before submitting!

Save Answer

Save All Answers Submit & View Submission >