

510 Quiz Game



Announcements

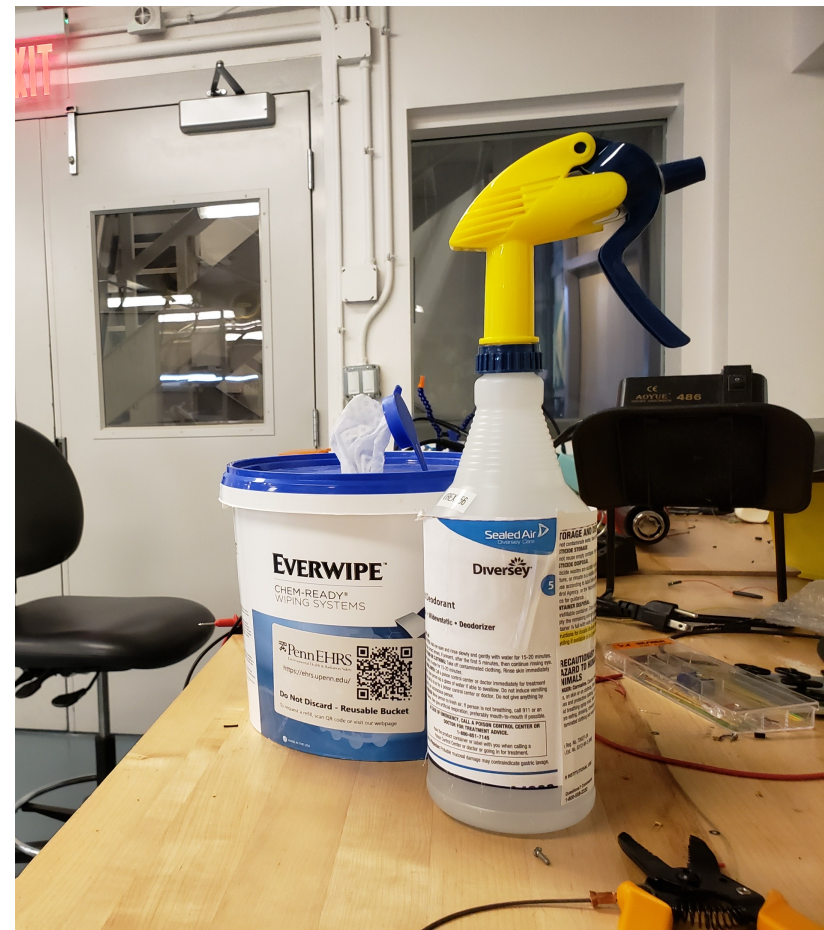
- MEAM510 T-shirts expected to arrive Wed Dec 8
 - If time, we will give out T-shirts during this last lecture.
- Plan for sample beacon ready by tonight.
- Graded Evaluation on early days receive +1% per day.
- In order to receive time points, robots must include a time point LED (green) on the top of their robot that only turns on after 5 seconds without receiving a wireless packet and turns off as soon as any wireless packet arrives. (UDP from cans & robots don't count)
- **Extra Credit +1% for robots displaying this time point LED.** Implementation must be demonstrated along with code which shows how it is done during Graded Evaluation.

Final Project Schedule

28	29	30	1	2	3 Design Review 2	4
5	6 TODAY Quiz Game	7	8 Review Lecture T-shirts	9 Optional Graded Evaluation +3%	10 Report Due Date	11 Reading days
12 Reading days	13 Reading days	14 Reading days	15 Graded Evaluation +2%	16 Graded Evaluation +1%	17 Graded Evaluation	18 Group Stage
19 Final Rounds	20	21	22 Last day to submit Report	23	24	

GM Lab

- Extra wipes and spray bottles have been placed in the lab.
- EOS recommends you wipe down all "high touch" areas before and after use.
- More space starting this weekend.
- Second setup w/vive soon.
- 10% of your grade is *Other*:
 - This includes status of equipment
 - Currently sample vive circuit is missing
 - Other missing items will effect grades



Red Pass or Sick Policy Reminder

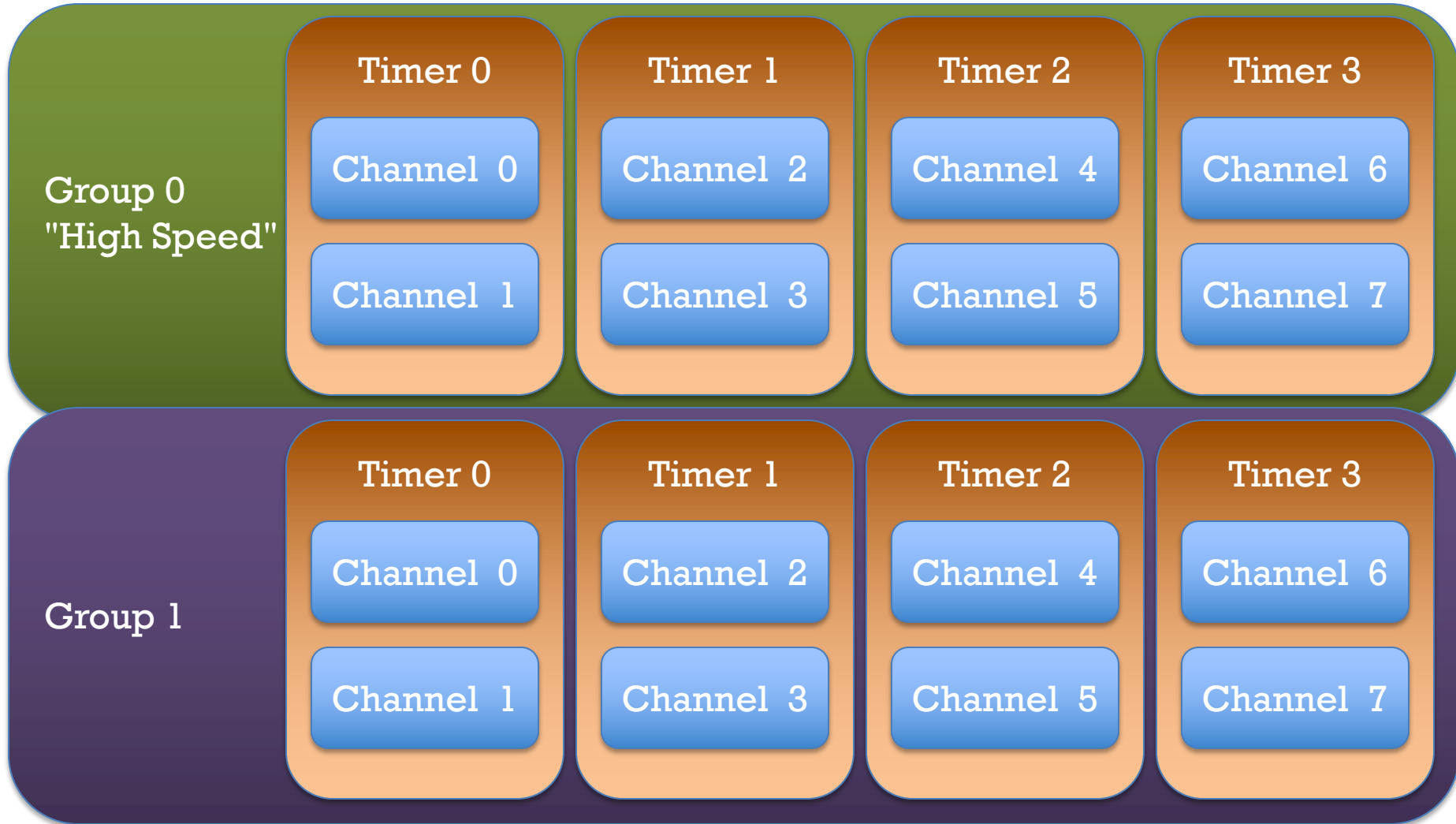
- Missing lectures is fine. Watch the video while doing the activity sheet. Submit Activity Sheet on canvas before the end of the semester.
- If your whole team misses all 3 days of graded evaluation or want to improve the functionality of your robot, you may use the final competition show demonstrate functionality.
- If your whole team is unavailable for graded evaluation and competition... we'll find a way.

Final Project WiFi Issues

- UDP seems to work but TCP (web) does not.
- 192.168.1.x is different subnet than 192.168.0.x
- Problem. TP-LINK set to 192.168.0.xxx
- **Solution: change your personal IP from 192.168.1.xxx to 192.168.0.xxx**
- I have set the subnet on TP-LINK to include both using mask 255.255.254.0 and broadcast on 192.168.1.255
- **Solution: change your subnet mask from 255.255.255.0 to 255.255.254.0**

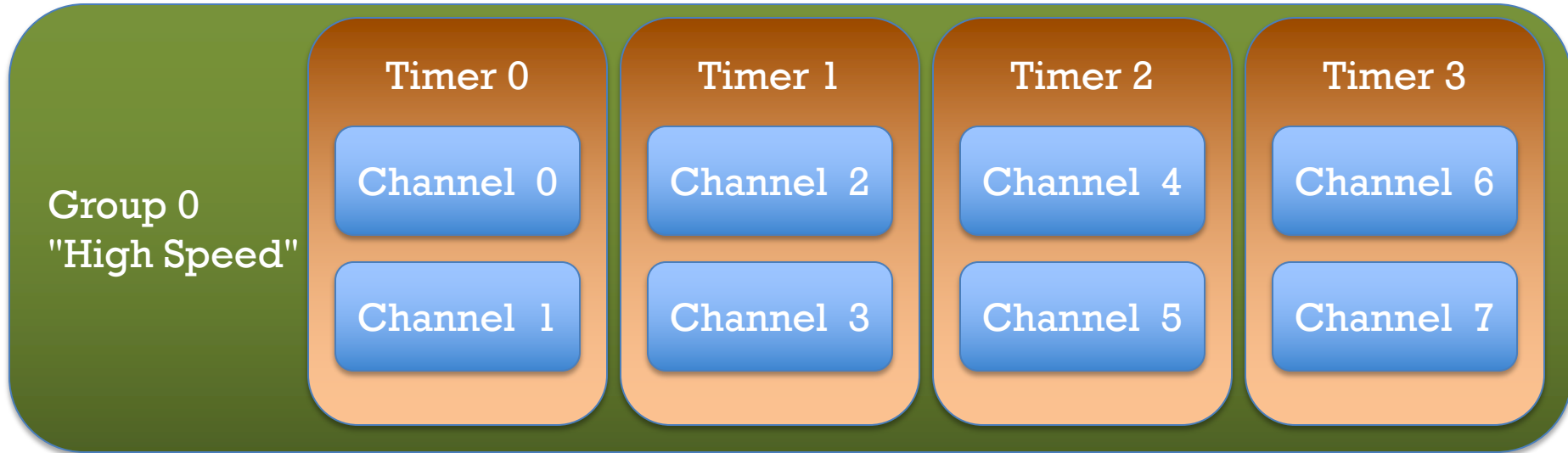
ESP32 LEDC Timers

- Has 16 Channels, but only 4 timers
- 16 duty cycles but 4 unique freq per group



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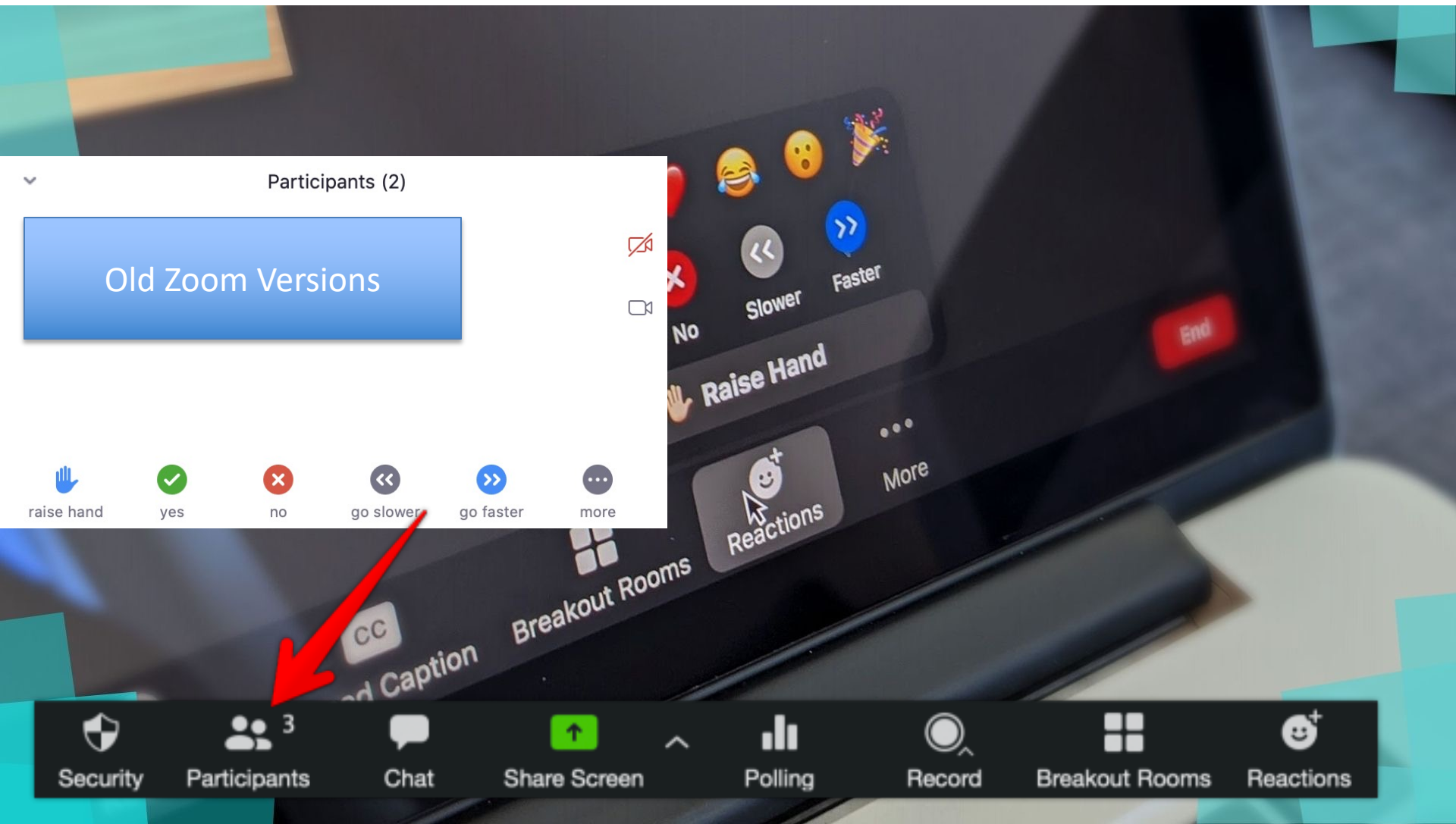
```
// setup(channel, freq, resolutionbits);  
ledcSetup(0,      50.0,      13);  
ledcSetup(1,     1000.0,     13);
```

What frequency will Channel 0 and Channel 1 have?

Quiz Game Rules

- Everybody online **turn your camera on.**
 - Everybody in class **stand up.**
 - A question is asked, respond by using reactions
 - Get an answer wrong – out of the game, **turn off camera** or **sit down.**
 - After 10 questions, those standing or on camera win!
 - Winners get choice of **MEAM510 T-shirts** past.
 - Those who are out online may post to public chat. At anytime, those still playing may read or ignore the chat as they please.
 - If <5 players left we will ask the audience-"lifeline."
- We'll do 3 games. (If we have time)

Zoom Interaction Practice



Practice Question 0

- What is the closest to squareroot of 2?



A. 1.41424



B. 3.141592



C. 1.41421



D. 1.41420

Practice Question 00

- What does GTA stand for in MEAM510



A. Grand Theft Auto



B. Grand Theft Autonomous



C. Giant Teensy Atmega



D. Glad Thisthing is Alldone

Slides omitted

Answer in CHAT

Answer how you feel about the final project

1. I am very nervous because I don't know what to do
2. I am nervous because I am behind in work
3. I am slightly nervous but not excited
4. I think I'm on track to do enough
5. I'm excited but I think I won't get as far as I'd like
6. I'm excited and I think the project will be so fun.