# THE GROOVY™ CS107E

# PROJECT LECTURE!

# HOW TO COME UP WITH A PROJECT

- hobbies + passions
- fixing daily annoyances
- further os / assignment exploration

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# HOW NOT TO COME UP WITH A PROJECT

- my friend / some rando on the internet did this before so it will be easy!
- "ok but lowkey, what's the min expectation for grade x"
- i'm like super into machine learning so that on a pi i guess

# BAGELS!

BUILD UP

BUILD UP

BUILD UP

BUILD UP

BUILD UP

BUILD UP

BUILD UP

# EXECUTION VS. COMPLEXITY

in other words it is ok if your bagel is not rainbow

# BUT PLAN SO YOU DO NOT PRESENT WITHOUT A BAGEL AT ALL


# COMPLEXITY: WE ARE HERE TO HELP!

what is hard???


# COMPLEXITY: WE ARE HERE TO HELP!

## what can be hard???

MATH

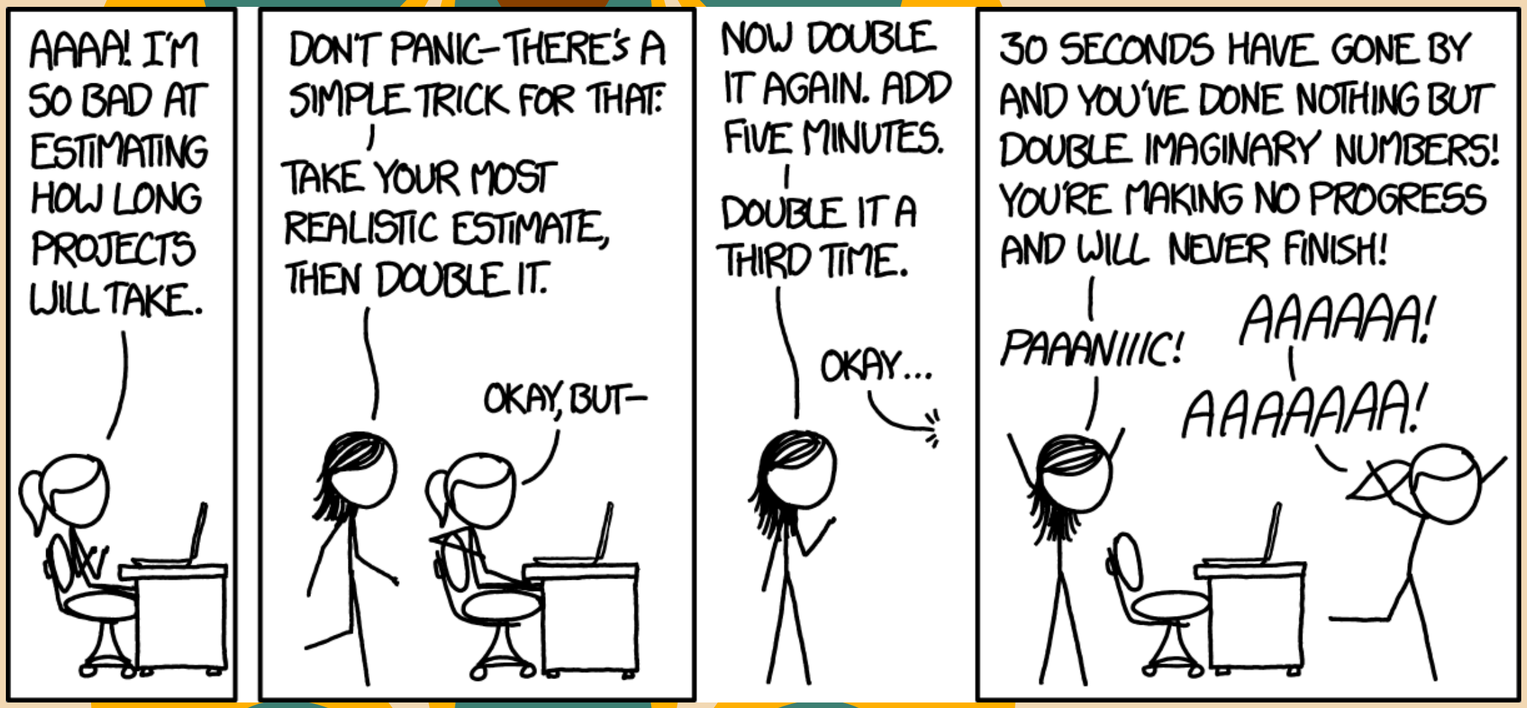
MECHANICAL INTEGRATION

FANCY TIMING

GPU stuff-->

bad/no documentation is rude **and** hard

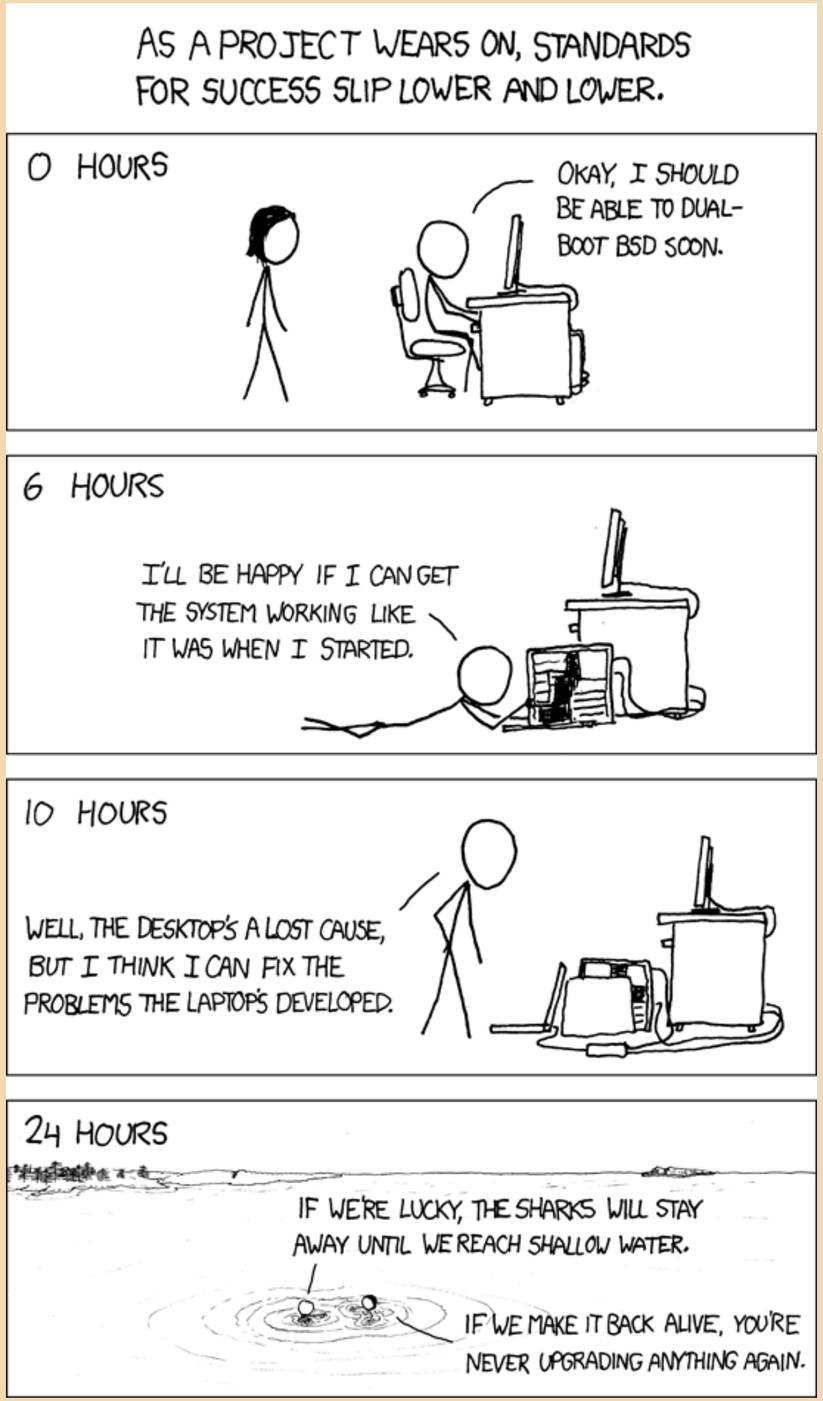
# TIME... IS HARD

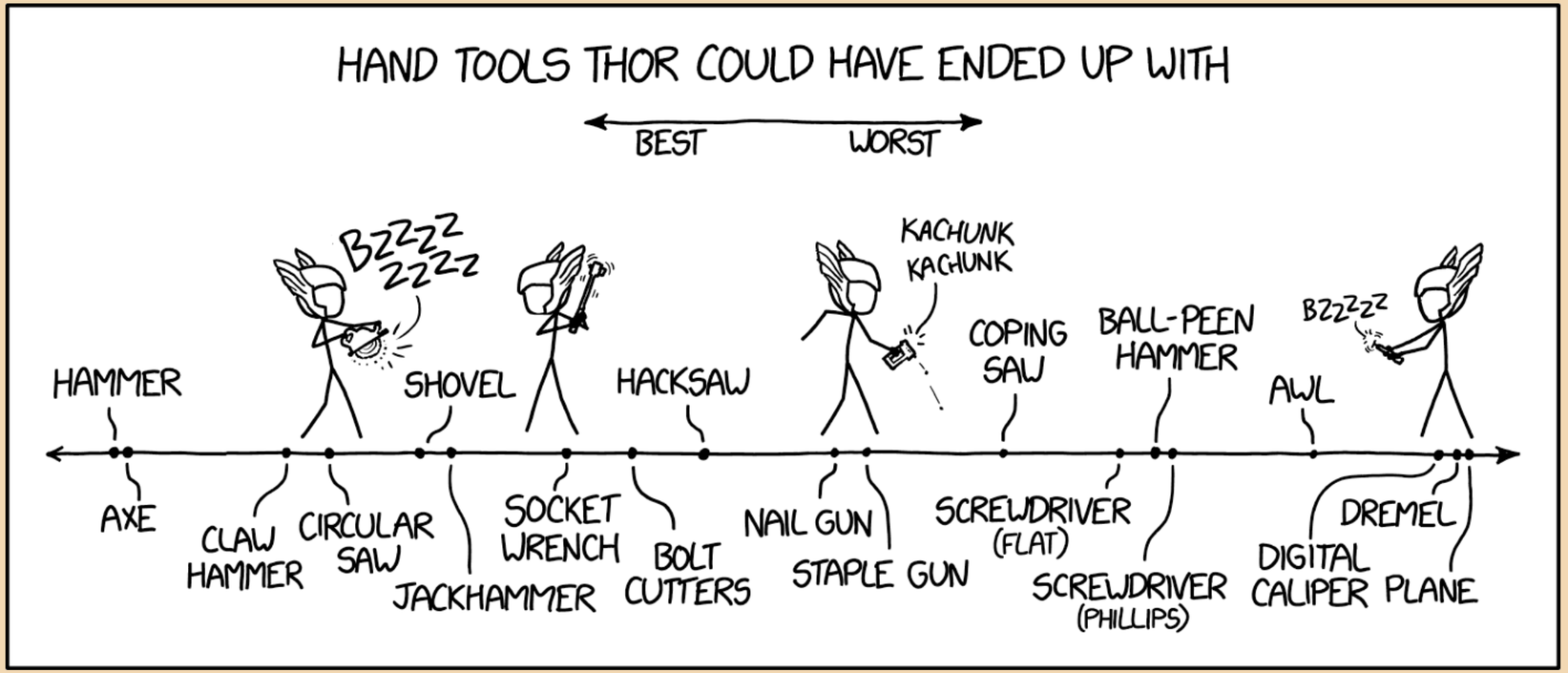



```
void print_cold_hard_truth(void) {

    printf("being good at something
    does not make you good at
knowing
    how long something will take");

    //      :(

}
```

# IF YOUR PROJECT SHOULD BE BUILT WITH AN OS

# MAYBE DON'T TRY TO BUILD IT WITHOUT ONE

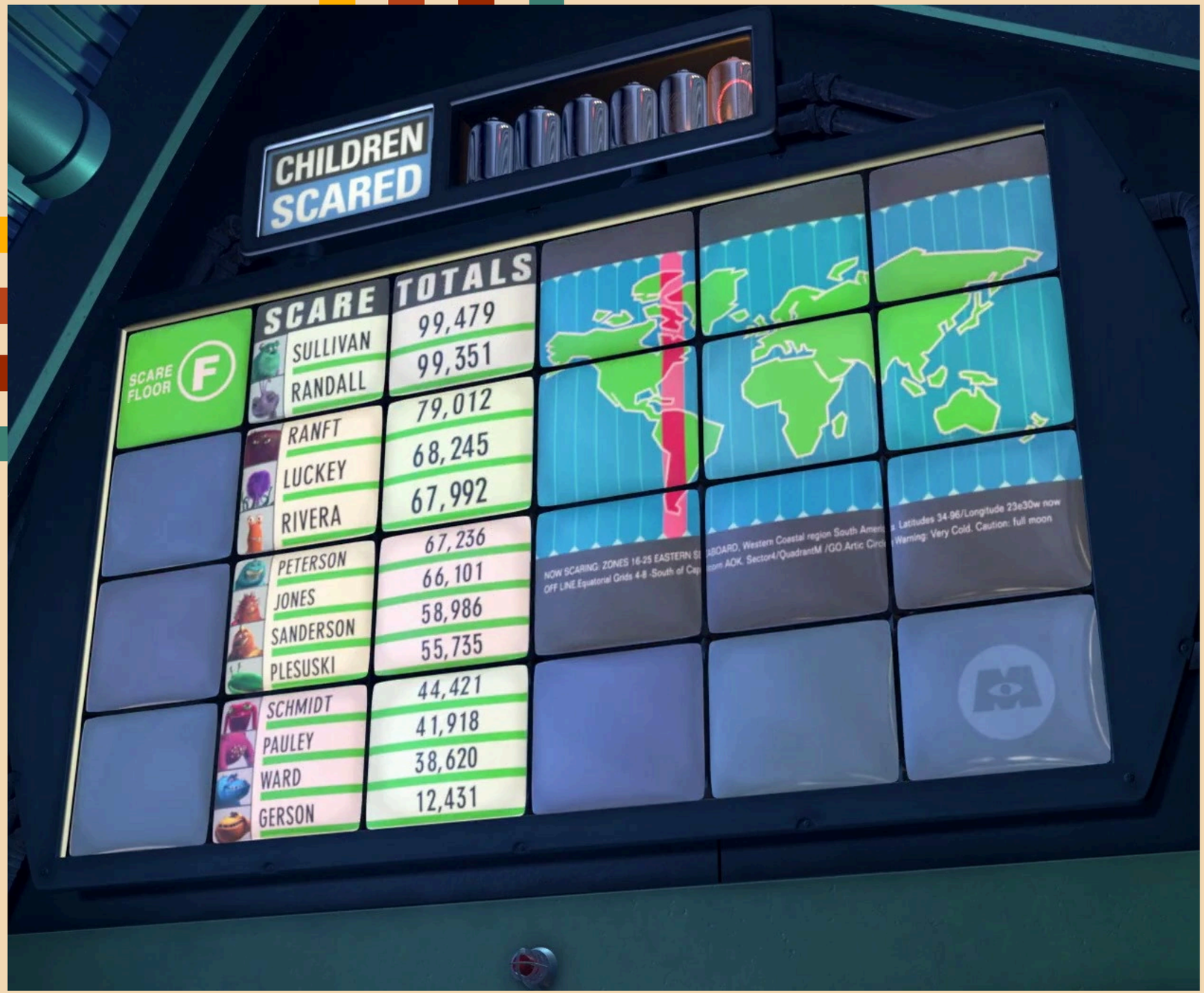



unless it's building an os... haha jk... unless

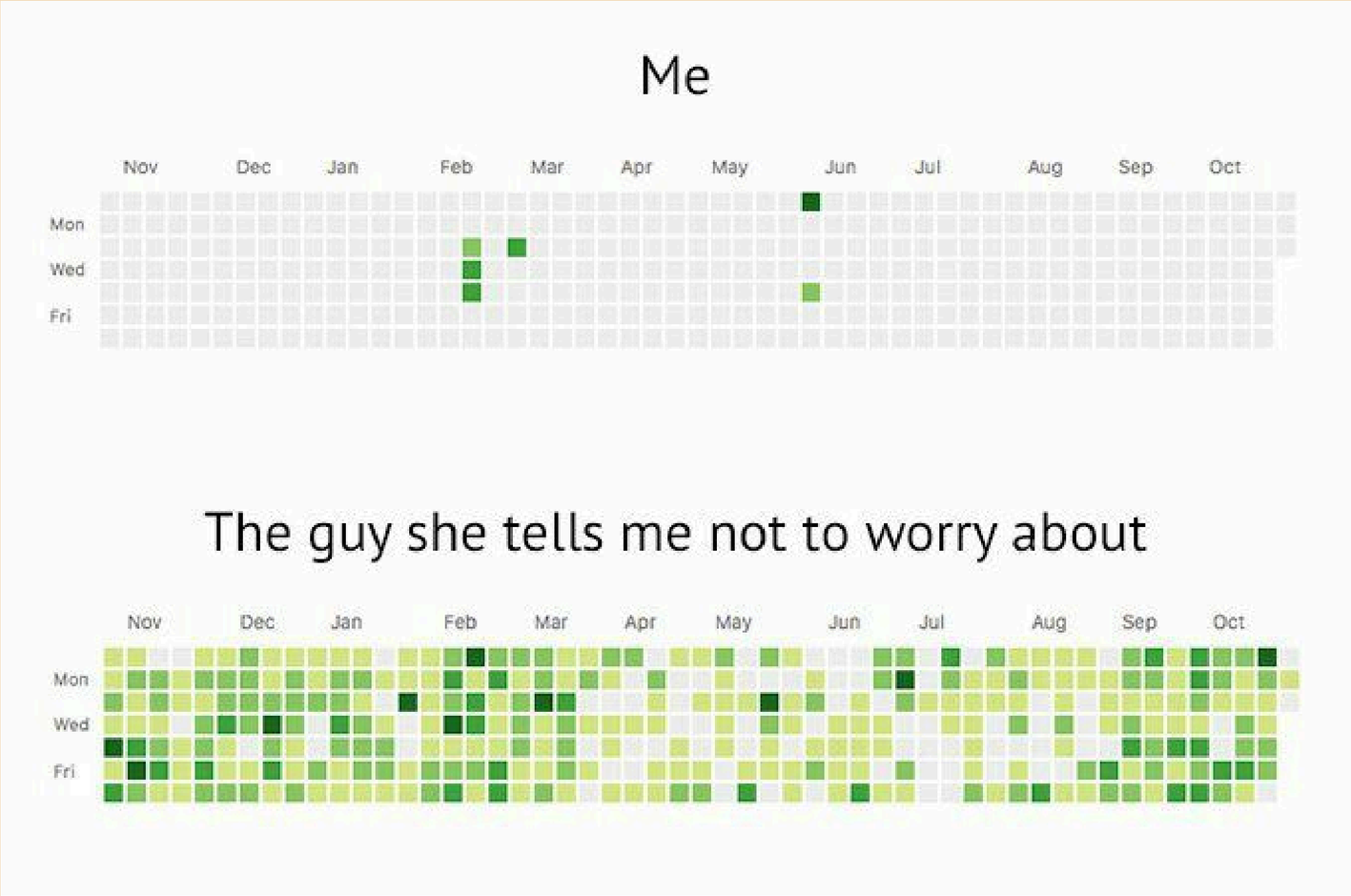

# BE LIKE SCULLY & MIKE

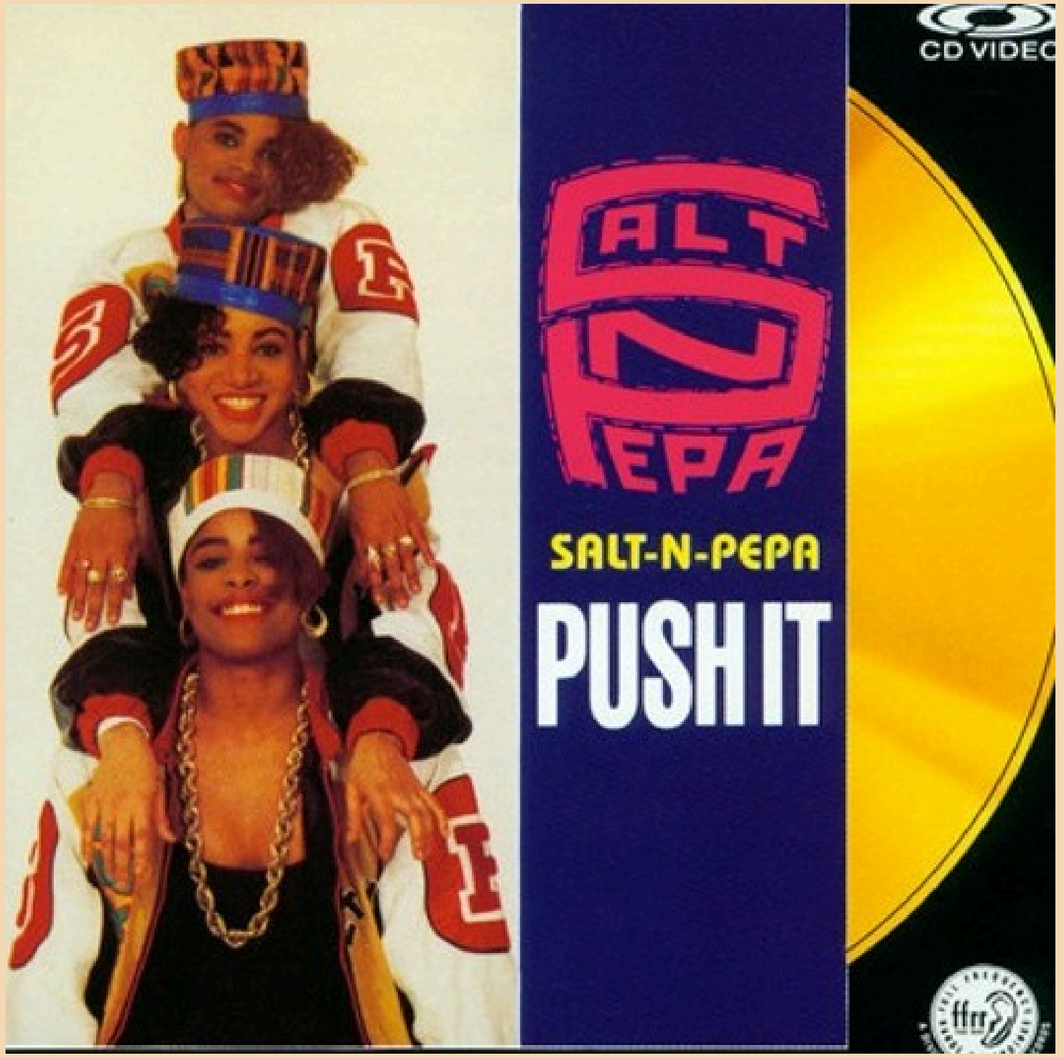
each person needs to have their own discrete responsibilities: how can both people always be making progress?




# BE LIKE SCULLY & MIKE:

# DISCRETE JOBS = HIGHER SCARE TOTAL = 107E SUCCESS




OOH BABY BABY

# WHY DOES GIT EXIST?

# HOW MUCH TIME DO YOU WANT TO SPEND?


IS IT FINALS WEEK AND PRESENATIONS ALREADY?


GREAT PROJECT


FANTASTIC PROJECT


I HAVE NO LIFE BEYOND THIS CLASS. I SLEEP IN 107E PAJAMAS. I DREAM ONLY IN C. MY LIFE IS ON HOLD FOR MY PI <3

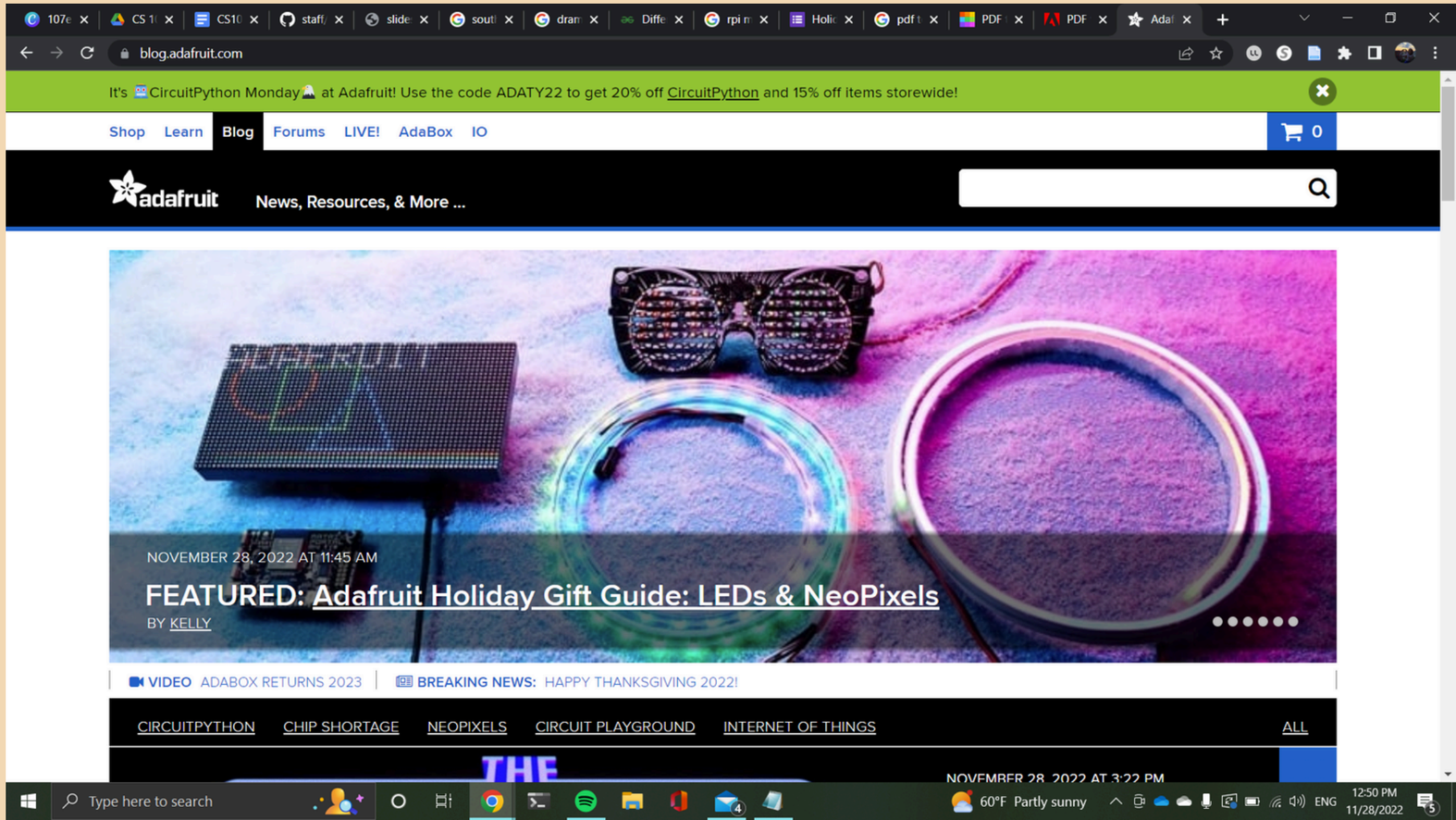
# MISC ALSO

- build off existing codebase
- ask for help with Makefiles
- code off the internet is a project in and of itself

- lab64 resources are available! laser cutter, 3d printers, etc

# SOME FAVORITE RESOURCES

- adafruit
- digikey
- sparkfun
- hackaday
- make magazine



# QUESTIONS??